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AGING, BIOLOGY OF
QUEEN'S COLLEGE
OXFORD, UK
JUL 22-27, 2001
JAMES NELSON &
PHYLLIS WISE, CO-CHAIRS
EUGENIA WANG, RUDOLPH TANZI &
JOHN TOWER, CO-VICE CHAIRS

- Bioinformatics and Expression Profiling in Aging Research
- Identifying Genes that Specify Aging Processes: I) Invertebrates; II) Mammals
- Cell Proliferation and Aging
- Cellular and Molecular Basis of Sarcopenia
- Aging, Adiposity and the Neuroendocrine System
- The Genetics and Biology of Aging: An Evolutionary Perspective
- Novel Neuroprotective Actions of Estrogen in the Aging Brain
- Neurodegenerative Diseases of Aging

ANALYTICAL CHEMISTRY
CONNECTICUT COLLEGE
NEW LONDON, CT
JUN 24-29, 2001
PAUL BOHN, CHAIR
ROBERT KENNEDY, VICE CHAIR

- Nanoparticle Characterization
- Nanostructures and Transport
- Characterization on the Mesoscale
- Nanoelectronic Materials
- Mesostructured Films
- Nanoparticles in the Environment
- Sensing on the Mesoscale

ANGIOGENESIS & MICROCIRCULATION
SALVE REGINA UNIVERSITY
NEWPORT, RI
AUG 12-17, 2001
DAVID CHERESH, CHAIR
LUISA IRUELA-ARISPE, VICE CHAIR

- Development & Remodeling
- Vasculogenesis Angiogenesis
- Molecular & Biochemical Regulation of Angiogenesis
- ECM & Adhesion
- Vascular Signaling
- Blood Vessel Biology
- Angiogenesis & Cancer
- New Therapeutic Strategies

APPLIED & ENVIRONMENTAL MICROBIOLOGY
CONNECTICUT COLLEGE
NEW LONDON, CT
JUL 22-27, 2001
HAROLD DRAKE, CHAIR
JUDY WALL, VICE CHAIR

- Environmental and Applied Genomics
- Cell-to-Cell Signaling and Multicellular Behavior
- Emerging Technologies and Methods
- Novel Metabolisms and Ecosystems
- Directed Evolution of Enzymes and Pathways
- Symbiotic and Trophic Relationships
- Synthesis and Application of Novel Biopolymers
- Life at the Oxic-Anoixc Interface

ARCHAEA: ECOLOGY, METABOLISM & MOLECULAR BIOLOGY
PROCTOR ACADEMY
ANDOVER, NH
AUG 5-10, 2001
CHARLES DANIELS, CHAIR
PATRICK FORTERRE, VICE CHAIR

- Ecology and Genetic Elements
- Genomics and Evolution
- Replication and Repair
- Chromatin and Transcription
- Gene Regulation
- Post-Transcription Processing
- Proteomics and Protein Structure
- Metabolism and Physiology

ATHEROSCLEROSIS
KIMBALL UNION ACADEMY
MERIDEN, NH
JUN 24-29, 2001
ALAN TALL, CHAIR
JAKE LUSIS, VICE CHAIR

- Etiology of Atherosclerosis: Lipoproteins and Other Risk Factors
- Endothelium/Lesion Initiation
- Inflammation
- Foam Cell Formation/Regression
- Complexity of Plaques
- Complications of Plaques/Thrombosis
- Intervention/Angiogenesis
- Genetics/Genomic Approaches

ATMOSPHERIC CHEMISTRY
SALVE REGINA UNIVERSITY
NEWPORT, RI
JUN 17-22, 2001
STANLEY SANDER, CHAIR
BARBARA FINLAYSON-PITTS,
VICE CHAIR

- Satellite Measurements of the Troposphere
- Tropospheric Aerosols
- Urban/Regional-Scale Chemistry
- Global Tropospheric Chemistry
- Snowpack Chemistry and the Arctic Boundary Layer
- Crossroads of Laboratory and Theory in Atmospheric Kinetics

- Stratospheric Chemistry and Dynamics
- Climate and Chemistry-Sun/Earth Interactions

ATOMIC PHYSICS
WILLIAMS COLLEGE
WILLIAMSTOWN, MA
JUN 17-22, 2001
STEVEN ROLSTON, CHAIR
RONALD WALSWORTH, VICE CHAIR

- Bose Einstein Condensation
- Degenerate Quantum Gases
- Quantum Computation
- Quantum Information
- Ultrafast Phenomena and Coherent Control
- Ultracold Atoms and Molecules
- Tests of Fundamental Symmetries
- Rydbergs, Recombination and Collisions
- Applications of Lasers in Atomic Physics

BARRIER FUNCTION OF MAMMALIAN SKIN
ROGER WILLIAMS UNIVERSITY
BRISTOL, RI
AUG 5-10, 2001
CHRIS CULLANDER, CHAIR
JOKE BOUWSTRA & MARIA PONEC, CO-VICE CHAIRS

- Cell and Molecular Biology of Barrier Function
- Gene Therapy/Genetics of the Barrier
- Transdermal Drug Delivery
- Barrier Biophysics
- Imaging the Skin
- Skin Barrier Model Membranes
- New Perspectives on the Barrier

BIODEGRADABLE POLYMERS
QUEEN'S COLLEGE
OXFORD, UK
JUL 8-13, 2001
MICHEL VERT, CHAIR
JAY-LIN JANE, VICE CHAIR

- Biodegradable Polymers from Renewable Resources
- Biorecycling
- Mechanisms of Degradation and Biodegradation of Natural and Artificial Polymers
- New Degradable and Biodegradable Polymers
- Structure-Degradability or Biodegradability Relationships
- Genetic Engineering and Biodegradable Polymers
- What is Going on in the Industry
- Polymers and Polymeric Systems for Biomedical Applications
- Polymers and Polymeric Systems in Pharmacology
- New Techniques and Methods to Characterize Degradable and Biodegradable Polymers

BIOENERGETICS
KIMBALL UNION ACADEMY
MERIDEN, NH
JUN 17-22, 2001
WILLIAM CRAMER, CHAIR
MICHAEL FORGAC, VICE CHAIR

- Protein Electrostatics
- Intraprotein Charge Transfer
- Selective Ion Transfer Mechanisms and Signal Transduction: Structure-Function of bR, hR, and R.
- Intramembrane Charge Transfer: Cytochrome bc1, Cytochrome Oxidase, and Reaction Center Complexes
- Biogenesis of Electron Transport Complexes
- Structure of H^+ - Translocating ATPases
- Rotational Coupling and Catalysis of F_0F_1-ATPases
- Structure-Function of Transporters

BIOINFORMATICS: FROM INFERENCE TO PREDICTIVE MODELS (NEW)
TILTON SCHOOL
TILTON, NH
AUG 19-24, 2001
ADAM ARKIN, JEFFREY THOMAS & RUTH VAN BOGELEN, CO-CHAIRS

- Surveying Molecular Information in Cells
- Biophysics of Molecular Interaction
- New Biological Insights from Primary Measurements
- Designing Data Relations for Optimal Understanding
- Deduction of Biological Networks
- Predictive Algorithms and Computational Methods
- Modeling Single Cells
- Spatial and Whole-Genome Modeling
- Cross-Scale Modeling

BIOLOGICAL MOLECULES IN THE GAS PHASE (NEW)
CONNECTICUT COLLEGE
NEW LONDON, CT
JUN 10-15, 2001
MICHAEL BOWERS, CHAIR
MARTIN JARROLD, VICE CHAIR

- Theory
- Sequencing
- Spectroscopy
- Folding
- Large Assemblies
- Hydration
- New Faces
- H/D Exchange
- Solution

BIOMATERIALS: BIOCOMPATIBILITY/ TISSUE ENGINEERING
HOLDERNESS SCHOOL
PLYMOUTH, NH
JUL 22-27, 2001
DAVID GRAINGER, CHAIR
WILLIAM WAGNER, VICE CHAIR

- Healing in the Presence of Implanted Materials
- Characterizing the Foreign Body Response
- Tissue Regeneration
- Tissue Engineered Device Constructs
- Stem Cells and Tissue Engineering
- Water and Biological Interfaces
- Extracellular Matrix and Cell Interactions
- Design Features for Polymeric Biomaterials
- Patterned Biomaterials for Selecting Response
- Selective Recognition and Biomimetic Materials
- Advanced Materials Imagery

BIOORGANIC CHEMISTRY
PROCTOR ACADEMY
ANDOVER, NH
JUN 17-22, 2001
HUNG-WEN LIU & KLAUS GUBERNATOR, CO-CHAIRS
MARK DISTEFANO, VICE CHAIR

- Biosynthesis and Combinatorial Biology
- Carbohydrates and Glycoconjugates
- Chemical Biology
- Enzyme Mechanisms
- Genomics and Proteomics
- Molecular Recognition and Interactions
- Nucleic Acid Chemistry
- Structural Based Drug Design

BONES & TEETH, CELL AND MOLECULAR BIOLOGY OF
KIMBALL UNION ACADEMY
MERIDEN, NH
AUG 19-24, 2001
GERARD KARSENTY, CHAIR
ROBERT NISSENSON, VICE CHAIR

- Calcium Regulating Hormones
- Nuclear Receptors
- Extracellular Remodeling
- Transcriptional Regulation of Cell Differentiation
- New Development
- Developmental Biology of Skeleton
- Craniofacial Hard Tissue Morphogenesis
- Secreted Molecules in Skeleton Development and Physiology

CAG TRIPLET REPEAT DISORDERS (NEW)
MOUNT HOLYOKE COLLEGE
SOUTH HADLEY, MA
JUL 15-20, 2001
PATRIK BRUNDIN, CHAIR
MARIE-FRANCO CHESSELET, VICE CHAIR

- Clinical and Neuropathological Features of Triplet Repeat Diseases
- Molecular Genetics of Triplet Repeat Diseases
- CAG Triplet Repeat Expansions in Model Organisms
- Transgenic Mouse Models of Triplet Repeat Diseases
- Chemistry and Intracellular Handling of Proteins with Expanded Polyglutamine Tracts
- Similarities Between Different Protein Inclusion Disorders
- The Role of Apoptosis in Triplet Repeat Diseases
- Triplet Repeat Diseases, Neurotoxins and Disrupted Cellular Energy Metabolism
- The Impact of DNA Chip Technology on Triplet Repeat Disease Research

CALCIUM SIGNALLING
QUEEN'S COLLEGE
OXFORD, UK
SEP 2-7, 2001
TULLIO POZZAN, CHAIR
SHMUEL MUALLEM, VICE CHAIR

- Ca^{2+} and Secretion
- Capacitative Ca^{2+} Influx
- Transgenic and Non-Mammalian Models
- Crosstalk Between Ca^{2+} and Other Signalling Pathways
- Ca^{2+} and Development and Fertilization
- Mitochondrial Ca^{2+} and Cell Death
- Ca^{2+} in Neuronal and Sensory Cells
- Ca^{2+} Channels and Cell Functions
- Ca Signaling Complexes at the Plasma Membrane

CANCER: MECHANISMS AND MODELS
SALVE REGINA UNIVERSITY
NEWPORT, RI
JUL 29-AUG 3, 2001
GUILLERMINA LOZANO, CHAIR
ERIC FEARON, VICE CHAIR

- Tumor Suppressors
- p53
- Oncogenes in Transformation
- Genomics
- Cancer Genetics I, II
- Cancer Progression
- Genome Integrity

CARBOHYDRATES
TILTON SCHOOL
TILTON, NH
JUN 17-22, 2001
ERIC TOONE, CHAIR
JACQUELYN GERVAY-HAGUE, VICE CHAIR

- New Methods for Mono- and Oligosaccharide Synthesis
- Glycopeptides and Glycomimetics
- X-Ray Crystallography of Carbohydrates and Protein-Carbohydrate Complexes
- NMR Techniques in Carbohydrate Structure Determination
- Carbohydrate-Carbohydrate Interactions
- Carbohydrate-Based Therapeutics

CATECHOLAMINES
PROCTOR ACADEMY
ANDOVER, NH
JUL 8-13, 2001
RANDY BLAKELY, CHAIR
TERRY ROBINSON, VICE CHAIR

- Catecholamine Development, Stem Cells and Gene Regulation
- Catecholamine Transporters: Structure, Regulation and Disease
- Catecholamine Receptors I: Functional Implications of Structural Diversity
- Catecholamine Receptors II: Signaling Implications of Heteroligomeric Interactions
- Catecholamine Genetics and Transgenics
- Catecholamine Neuromodulation and Synaptic Plasticity
- Psychostimulant Modulated Gene/Protein Expression
- Genes and Environment in Parkinson's Disease
- Cortical Catecholamines: From Molecule to Mind

CELL CONTACT & ADHESION
PROCTOR ACADEMY
ANDOVER, NH
JUN 10-15, 2001
DAVID COLMAN, CHAIR
PAMELA COWIN, VICE CHAIR

- Synapses in Neural and Immune Systems
- Maintenance of Epithelial Integrity
- Evolution of Adhesion Systems
- Morphogenesis
- Molecular Structure of Intercellular Junctions
- Adhesion Molecule Signalling in Cancer

CELL DEATH
QUEEN'S COLLEGE
OXFORD, UK
JUL 15-20, 2001
DAVID VAUX, CHAIR
SALLY KORNBLUTH, VICE CHAIR

- Caspases, Caspase Activation, Caspase Substrates and Inhibitors
- Structures
- Genetics of Cell Death in Invertebrates
- Genetics of Cell Death in Vertebrates
- Death Receptor Pathways, Mechanisms
- Phagocytosis & Post-Mortem Events
- Bcl-2 Family Proteins Including "BH3 Onlys"
- p53
- The Role of Mitochondria
- Aging and Death of the Soma

CELL PROLIFERATION, MOLECULAR & GENETIC BASIS OF
COLBY-SAWYER COLLEGE
NEW LONDON, NH
JUL 1-6, 2001
BENJAMIN NEEL, CHAIR
JACQUELINE LEES, VICE CHAIR

Signal Transduction I, II

- Extracellular Matrix
- Transcription
- Cell Cycle/Checkpoints
- Development
- Checkpoints/Cancer
- Programmed Cell Death

CELLULASES & CELLULOSOMES
PROCTOR ACADEMY
ANDOVER, NH
JUL 29-AUG 3, 2001
EDWARD BAYER, CHAIR
MIKE HIMMEL, VICE CHAIR

- Progress in Microbial Cellulase Systems
- Eukaryotic Cellulase Systems
- Other Plant Cell Wall Degrading Enzymes
- Structural Aspects of Cellulases and Cellulosomes
- Mechanisms of Cellulase Action
- Cellulase and Cellulosome Gene Clusters and Genomics
- Cellulase Genomics
- Engineering Cellulases and Cellulosomes
- Applications of Cellulase and Cellulosome Components

CERAMICS, SOLID STATE STUDIES IN
KIMBALL UNION ACADEMY
MERIDEN, NH
AUG 12-17, 2001
STEPHEN BENNISON, CHAIR
RAJENDRA BORDIA, VICE CHAIR

- Theme: Layered & Functionally-Graded Microstructures
- Processing of Layered Microstructures and FGMs
- Thermal-Barrier Coatings
- Mechanics of FGMs
- Ceramics in MEMS
- Debate: Is There a Payoff in Using FGMs Versus Layered, Planar Microstructures?
- Natural Systems
- Hard & Soft Multilayer Structures
- Electrical and Optical Functionality

CHEMICAL OCEANOGRAPHY
TILTON SCHOOL
TILTON, NH
AUG 12-17, 2001
STEVEN EMERSON, CHAIR
DAVID DEMASTER, VICE CHAIR

- Ocean Chemistry, Dynamics and Climate
- Rapid Climate Change
- Chemical Proxies of Past Changes
- The Nitrogen Cycle
- Sediment Chemistry
- Gas Hydrates
- Organic Chemistry
- Inorganic Chemistry - Metals
- Remote Measurements

CHEMICAL SENSES: TASTE & SMELL
SALVE REGINA UNIVERSITY
NEWPORT, RI
JUL 1-6, 2001
ROBERT MARGOLSKEE &
STUART FIRESTEIN, CO-CHAIRS
SUSAN TRAVERS &
JOHN SCOTT, CO-VICE CHAIRS

- Encoding and Decoding the Olfactory Signal
- Workshop: Genomics & Bioinformatics
- Functional Imaging of Olfactory Activity
- Encoding and Decoding the Vomeronasal Signal
- Encoding and Decoding the Gustatory Signal
- Cell Fates and Lineages in Gustatory Development
- Neurogenesis and Patterning the Olfactory System
- Analysis of Chemosensory Behavior in Genomically Defined Organisms

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CHEMOTHERAPY OF EXPERIMENTAL AND CLINICAL CANCER
COLBY-SAWYER COLLEGE
NEW LONDON, NH
JUL 15-20, 2001
EDWARD SAUSVILLE, CHAIR
ROBERT KRAMER, VICE CHAIR

- Hypoxia Related Signals
- Chemistry and Biology in Drug Discovery
- Transcription Factors as Targets for Therapy and Prevention
- Apoptosis Pathways
- Signal Transduction Pathways
- Clinical Translation of Novel Approaches
- DNA-Directed Targets
- Angiogenesis and Metastasis

CHRONOBIOLOGY
SALVE REGINA UNIVERSITY
NEWPORT, RI
AUG 5-10, 2001
NICHOLAS MROSOVSKY, CHAIR
RUSSELL FOSTER, VICE CHAIR

- Circadian Organization
- Beyond the Transcription-Translation Feedback Loop
- Visions of the Future
- Sleep
- Communication Between Central and Peripheral Oscillators
- Photoecology and Human Rhythms
- Weird and Miscellaneous Topics
- Microarrays and Techniques
- Suprachiasmatic Nucleus Function

CLUSTERS, NANOCRYSTALS & NANOSTRUCTURES
CONNECTICUT COLLEGE
NEW LONDON, CT
JUL 29-AUG 3, 2001
PAUL ALIVISATOS, CHAIR
R. STANLEY WILLIAMS, VICE CHAIR

- New Diagnostic Methods at the Nano Scale
- Nanoscale Electrical Transport
- New Methods for Spatial Organization at the Nanoscale
- NanoOptics
- Structural Nanocomposites
- Phase Transitions in Nanostructures
- Nanostructures in Nature and in Space
- Clusters and Nanocrystals in the Gas Phase
- Nano Magnetism

COASTAL OCEAN CIRCULATION
COLBY-SAWYER COLLEGE
NEW LONDON, NH
JUN 10-15, 2001
JOHN ALLEN, CHAIR
STEVEN LENTZ, VICE CHAIR

- Polar Shelves
- Vertical Mixing
- Nearshore Processes
- Topographic Effects
- Biogeochemical-Physical Interactions
- Frontal Circulation
- Coastal Meteorology
- Eastern Boundary Currents
- Buoyant Currents

COATINGS & FILMS
COLBY-SAWYER COLLEGE
NEW LONDON, NH
JUL 15-20, 2001
ROSE RYNTZ, CHAIR
MAREK URBAN, VICE CHAIR

- Waterborne Film Formation
- High Solids Resin Chemistries and Formulation
- UV Cured/Low Temperature Powder Resins and Coating Formulation
- Advances in Coating Durability
- VOC/HAPs Environmental Regulations
- Analytical Methodologies Utilized in the Measurement of Adhesion and Stress
- Durability of Coating Interphases
- Appearance Measurements on Coatings and Films
- Scratch/Mar Testing Methodologies

COLLAGEN
COLBY-SAWYER COLLEGE
NEW LONDON, NH
JUL 29-AUG 3, 2001
KARI KIVIRIKKO, CHAIR
PETER BYERS, VICE CHAIR

- Cell-Matrix Interactions and Signal Transduction in the Extracellular Matrix (ECM)
- Structure and Molecular Assembly of Collagens

- Domains of Collagens and Other ECM Proteins and Their Functions
- Processing and Degradation of Collagens and Enzymes Involved
- Collagens and Other ECM Proteins in Development
- Mouse Models of the Functions of Collagens and Other ECM Proteins
- New Collagens and Other ECM Proteins
- Molecular Pathology of Collagens

COMBINATORIAL CHEMISTRY
TILTON SCHOOL
TILTON, NH
JUL 15-20, 2001
JOHN KIELY & HANS ULRICH STILZ, CO-CHAIRS
KEVIN BURGESS, VICE CHAIR

- Diversity Analyses / Library Control
- Virtual Screening of Combinatorial Libraries
- Actual Screening of Combinatorial Libraries
- Targeted Libraries for Optimization and SAR Development
- Combinatorial Chemistry Intersection with Genomics/Proteomics
- Value-Addition to Combinatorial Libraries, (ADME Properties, etc.)
- High Throughput Analyses (MS & NMR) & Purification
- Combinatorial Technologies for Materials Science, Catalysis, and Non-Pharma Applications

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COMPARATIVE HEMATOPOIESIS
COLBY-SAWYER COLLEGE
NEW LONDON, NH
AUG 12-17, 2001
FERN TABLIN, CHAIR
JOHN HARVEY, VICE CHAIR

- Hematopoietic Stem Cells
- Erythropoiesis
- Non-Mammalian Hematopoiesis
- Thrombocytopoiesis
- Lymphopoieisis/Granulocytopoieis
- Preservation of Stem and Hematopoietic Cells

CONDENSED MATTER PHYSICS
CONNECTICUT COLLEGE
NEW LONDON, CT
JUN 17-22, 2001
PAUL CHAIKIN, CHAIR
THOMAS WITTEN & DAVID GRIER, CO-VICE CHAIRS

- Organic Electronics
- Nanotubes and Nanoparticles
- DNA: Electron and Excitation Transfer
- DNA: Recognition for Directed-Assembly
- Novel Uses of Organic and Biological Materials
- Evolution and Information in Biophysics
- Polyelectrolytes and Charge Condensation
- Granular Materials
- Glasses and Glassy States

DEVELOPMENTAL BIOLOGY
PROCTOR ACADEMY
ANDOVER, NH
JUN 24-29, 2001
MARIANNE BRONNER-FRASER & MARK KRASNOW, CO-CHAIRS
BARBARA MEYER & LIZ ROBERTSON, CO-VICE CHAIRS

- Axis Determination and Early Patterning
- Growth and Aging
- Organogenesis
- Neural Development
- Germ Lines, Stem Cells and Regeneration
- Evolution and Development
- Cell Migration, Guidance, Morphogenesis
- Developmental Signals and Gene Regulation
- Developmental Disorders and Novel Techniques

DRUG METABOLISM
HOLDERNESS SCHOOL
PLYMOUTH, NH
JUL 8-13, 2001
COSETTE SERABJIT-SINGH, CHAIR
JACK UETRECHT, VICE CHAIR

- Regulation of Expression of Drug Metabolizing Enzymes
- Clinical Ramifications of Genetic Polymorphisms
- Functional Analysis/Models of Human Drug Disposition
- Structural Studies of Drug Metabolizing Enzymes
- Computational Modeling of Metabolism and Transport
- Biotransformation/Bioactivation
- Novel Approaches for Drug Discovery and Development

DYNAMICS AT SURFACES
PROCTOR ACADEMY
ANDOVER, NH
AUG 12-17, 2001
BRUCE KAY, CHAIR
STEPHEN HOLLOWAY, VICE CHAIR

- State-to-State Dynamics
- Dynamics at Environmental Interfaces
- Photochemistry and Dynamics
- Excitation and Charge Transfer
- Surface Reactions
- Potential Energy Surfaces
- Surface Reactions
- Nanoscale Surface Dynamics

ELASTIN & ELASTIC FIBERS
KIMBALL UNION ACADEMY
MERIDEN, NH
JUL 29-AUG 3, 2001
LYNN SAKAI, CHAIR
STEVEN SHAPIRO, VICE CHAIR

- Structural Studies of Elastic Fiber Proteins
- Growth Factors and Elastic Fibers
- Contributions of Elastic Fibers to Morphogenesis
- Molecular Interactions and Assembly of Elastic Fibers
- Elastic Fibers and Lung Biology
- Elastic Fibers and Cardiovascular Biology
- Elastic Fibers and Cell Biology
- Proteases and Elastic Fibers
- Diseases Related to Elastic Fibers

ELASTOMERS
COLBY-SAWYER COLLEGE
NEW LONDON, NH
AUG 5-10, 2001
GEORG BOHM, CHAIR
DONALD SCHULZ, VICE CHAIR

- Catalysts/Synthesis of New Elastomers
- Synthesis, Characterization and Properties of Branched Elastomers (Long Chain, Pom-Pom, etc.)
- Elongational Flow and its Significance in Polymer Processing
- Advances in Molecular Modeling
- Single Polymer Studies
- Emerging New Fillers and Their Use in the Reinforcement of Elastomer
- Advances in the Mixing and Processing of Elastomer Compound

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ELECTRON DISTRIBUTION & CHEMICAL BONDING
MOUNT HOLYOKE COLLEGE
SOUTH HADLEY, MA
JUL 8-13, 2001
CLAUDE LECOMTE, CHAIR
JOHN SPENCE, VICE CHAIR

- Radiation Sources
- Instrumentation and Technics
- Modelling and Analysis
- Theory
- Applications
- Systems

ELECTRONIC MATERIALS, CHEMISTRY OF
CONNECTICUT COLLEGE
NEW LONDON, CT
JUL 15-20, 2001
WAYNE GLADFELTER & JOSEPH JASINSKI, CO-CHAIRS
JAMES SHEATS & MELISSA HINES, CO-VICE CHAIRS

- Nanoscale Materials and Molecular Electronics
- New Patterning Strategies
- Organic Optoelectronic Devices
- Towards Bioelectronics and Biological Computing
- Dielectric Films: Deposition and Properties
- Layered Inorganic and Organic Structures
- Dendrimers and Conducting Polymers in Devices
- Semiconductor Surfaces

ENZYMES, COENZYMES & METABOLIC PATHWAYS
KIMBALL UNION ACADEMY
MERIDEN, NH
JUL 22-27, 2001
KAREN ANDERSON & RUMA BANERJEE, CO-CHAIRS
TADHG BEGLEY & KAREN ALLEN, CO-VICE CHAIRS

- Catalysis in Macromolecular Assemblies
- Metalloproteins
- Enzyme Mechanisms I, II
- Enzyme Dynamics
- Coenzymes
- Signal Transduction
- Proteomics/Emerging Techniques
- New Frontiers in Understanding Structure-Function

EPIGENETICS
HOLDERNESS SCHOOL
PLYMOUTH, NH
AUG 12-17, 2001
ERIC SELKER & DENISE BARLOW, CO-CHAIRS
ROBERT MARTIENSSEN & WOLF REIK, CO-VICE CHAIRS

- Epigenetics: Overview of Mechanisms and Evolutionary Roles
- Control and Mechanisms of DNA Methylation
- Imprinting and X Inactivation
- Effects of DNA Methylation
- Chromatin-Based Gene Silencing
- Post-Transcriptional Gene Silencing
- Emerging Epigenetic Phenomena
- Epigenomics
- Epigenetics and Disease

EPITHELIAL DIFFERENTIATION & KERATINIZATION
TILTON SCHOOL
TILTON, NH
JUL 8-13, 2001
ELAINE FUCHS, CHAIR
KATHLEEN GREEN, VICE CHAIR

- Epithelial Stem Cells
- Epithelial Polarity
- Signal Transduction Pathways in Epithelia
- Adhesion, Wnts, Shh and Epithelial Development
- Pathogens, Epithelia and Cancer
- Epithelial Adhesion, Proliferation and Differentiation
- Issues Rising 1: Skin Disorders in Mice and Men
- Epithelial Architecture
- Issues Rising 2: Regulation of Growth, Differentiation, Life and Death in Epithelia

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FERTILIZATION & ACTIVATION OF DEVELOPMENT
HOLDERNESS SCHOOL
PLYMOUTH, NH
JUL 29-AUG 3, 2001
HARVEY FLORMAN, CHAIR
JURRIEN DEAN, VICE CHAIR

- Gametic Competence

- Sperm Interaction with Egg Coats
- Sperm Signal Transducing Mechanisms
- Sperm-Egg Membrane Interactions
- Early Events of Egg Activation
- Later Events of Egg Activation
- Cortical Granule Dynamices
- Translational Control Mechanisms

FORESTED CATCHMENTS: HYDROLOGICAL, GEOCHEMICAL, AND BIOLOGICAL PROCESSES
PROCTOR ACADEMY
ANDOVER, NH
JUL 22-27, 2001
GARY LOVETT &
BRIDGET EMMETT, CO-CHAIRS
KEVIN BISHOP, VICE CHAIR

- Conference Theme: Catchment Science and Public Policy: Are We Up to the Task?
- Recovery from Acidification: Have We Predicted Correctly?
- Where is the Missing N in our N Budgets?
- Can We Predict the Biogeochemical Cycles in a Warmer, Wetter or Dryer World?
- Catchment Science and Public Policy on Acidification, Nitrogen Deposition, and Climate Change
- Field Trip/Field Measurement Techniques

FREE RADICAL REACTIONS
HOLDERNESS SCHOOL
PLYMOUTH, NH
JUL 15-20, 2001
MARC GREENBERG, CHAIR
DAVID CRICH, VICE CHAIR

- New Synthetic Reactions
- Asymmetric Synthesis Using Radicals
- Synthesis of Novel Materials Using Radicals
- Living Polymerization
- Free Radicals and DNA Damage
- Free Radicals in Peptides and Enzymes
- Kinetics and Thermodynamics of Free Radical Reactions
- The Role of Free Radicals in Organometallic Reactions?

FUEL CELLS
ROGER WILLIAMS UNIVERSITY
BRISTOL, RI
JUL 29-AUG 3, 2001
ROBERT SAVINELL &
HUBERT GASTEIGER, CO-CHAIRS
THOMAS ZAWODZINSKI &
ANDREA RUSSELL, CO-VICE CHAIRS

- Technology Advances and Commercialization Issues
- PEM Electrolytes: Recent Advances at High and Low Temperature
- Electrocatalysis of Oxygen Reduction Reaction and in CO-Tolerant Hydrogen Anodes
- Cell and Electrode Performance Diagnostics and Modeling
- Solid Oxide Conductors and Stacks
- Reforming Methanol/Hydrocarbon Fuels and Hydrogen Storage
- Alternate Fuels and Fuel Cell Designs, e.g. Bio and Micro Fuel Cells
- Corrosion and Materials Issues in PEM and Solid Oxide Fuel Cells

GENETIC TOXICOLOGY
COLBY-SAWYER COLLEGE
NEW LONDON, NH
AUG 12-17, 2001
THOMAS KUNKEL, CHAIR
PENELOPE JEGGO, VICE CHAIR

- Genotoxicity of Endogenous Lesions
- Genotoxicity of Bulky DNA Adducts
- DNA Synthesis Dependent Responses to Genotoxic Lesions
- DNA Mismatch Repair Dependent Responses to Geneotoxic Lesions
- Cellular Responses to DNA Strand Breaks
- Signaling/Checkpoint Defects and Genomic Instability
- Global Responses to Geneotoxins - Toxicogenomics
- Challenges in Genetic Toxicology

GRAVITATIONAL EFFECTS IN PHYSICO-CHEMICAL SYSTEMS: INTERFACIAL EFFECTS
COLBY-SAWYER COLLEGE
NEW LONDON, NH
JUL 8-13, 2001
PAUL STEEN, CHAIR
PETER VOORHEES, VICE CHAIR

- Flow and Wetting
- Dendritic Growth
- New Directions
- Flames & Fire
- Protein Crystals
- Complex Fluids
- Wetting & Spreading
- Multiphase Flows
- Wetting & Contact Lines

GRAVITATIONAL EFFECTS ON LIVING SYSTEMS: MECHANOSENSING
CONNECTICUT COLLEGE
NEW LONDON, CT
JUL 1-6, 2001
RUTH ANNE EATOCK, CHAIR
MICHAEL GUSTIN, VICE CHAIR

- Issues and Approaches in Mechano- and Gravity Sensing in Microorganisms, Plants and Animals
- Genetic Approaches in Diverse Model Organisms, Including Bacteria, Yeast, Arabidopsis, Nematodes, Flies, Zebrafish, Mice and Men
- Mechanosensing by Specialized Mechanosensors, from Nematode Touch Receptors to Vertebrate Hair Cells
- The Responses of Tissues Such as Bone and Endothelium, Root and Shoot, to Mechanical Stress and Gravity
- Mechanosensitive Ion Channels: Structure, Function and Calcium Feedback
- Involvement of Extracellular Linkages and Cytoskeleton in Delivering Mechanical Stimuli
- Signal Transduction (Second Messenger) Cascades Evoked by Mechanical Stress and Gravity

HETEROCYCLIC COMPOUNDS
SALVE REGINA UNIVERSITY
NEWPORT, RI
JUL 8-13, 2001
SCOTT DENMARK, CHAIR
WILLIAM MURRAY, VICE CHAIR

- Discovery, Evaluation and Synthesis of Heterocycle-Based Drugs
- Methodology for the Synthesis of Heterocyclic Compounds
- Heterocycles as Intermediates, Reagents or Catalysts for Organic Synthesis
- Isolation and Structure Determination of Complex Heterocyclic Natural Products
- Synthesis of Complex Heterocyclic Natural Products
- Interesting Natural and Unnatural Heterocycles

HIGH TEMPERATURE CORROSION
COLBY-SAWYER COLLEGE
NEW LONDON, NH
JUL 22-27, 2001
PEGGY HOU, CHAIR
IAN WRIGHT, VICE CHAIR

- Effect of Water Vapor
- Fundamentals of Oxide/Metal Interface
- Initial Stage Oxidation
- Bond Coat Oxidation
- Stresses in Scales and Coatings
- Stresses and Scale Failure
- High Temperature Coatings
- Corrosion in Aggressive Industrial Environments
- Oxide Scales in Bio-Materials

HORMONAL CARCINOGENESIS
KIMBALL UNION ACADEMY
MERIDEN, NH
JUL 8-13, 2001
MICHAEL GALLO, CHAIR
ROBERT BRUEGGEMEIER, VICE CHAIR

- Intercellular Communication in Hormone-Induced Proliferation
- Genomic Approaches to Hormonal Carcinogenesis
- Non-Genomic Action(s) of Estrogens and Progestins
- Dietary Factors in Hormonal Carcinogenesis
- Clinical Consequences of Hormonally Active Dietary Supplements
- Molecular Modeling in Prostate Cancer
- Gene-Environment Interactions in Hormonal Cancers
- Role of PPAR and Other Non-Steroid Receptors in Hormonal Carcinogenesis

HORMONE ACTION
KIMBALL UNION ACADEMY
MERIDEN, NH
AUG 5-10, 2001
GARY FIRESTONE, CHAIR
CHRISTOPHER GLASS, VICE CHAIR

- Endocrine Regulation of Phosphorylation Cascades
- Mechanisms of Signal Transduction
- Hormone Signaling and Integration of Physiological Control
- Hormones and Development
- Endocrine Control of Cell Growth and Differentiation
- Transcription Complexes and Chromatin Structure
- Nuclear Receptors and Associated Factors
- Special Symposium: Mechanisms of Hormone Networking

HUMAN MOLECULAR GENETICS
SALVE REGINA UNIVERSITY
NEWPORT, RI
AUG 5-10, 2001
EDWARD RUBIN, CHAIR
ARAVINDA CHAKRAVARTI, VICE CHAIR

- Molecular Mechanisms in Human Disease
- Evolution and Molecular Variation in Human Populations
- Insights from Comparative Genomics
- Analysis of Complex Traits
- Chromosomal Biology
- Model Organisms in the Study of Disease
- Computational Analysis of Genomic Datasets
- Gene Regulation and Expression

HYDROGEN-METAL SYSTEMS
CONNECTICUT COLLEGE
NEW LONDON, CT
JUL 8-13, 2001
MEI-YIN CHOU &
PETER VAJDA, CO-CHAIRS
MICHAEL BASKES &
ANNICK PERCHERON GUEGAN, CO-VICE CHAIRS

- Hydrogen in Magnetic Materials
- Hydrogen Induced Lattice Defects
- Hydrogen on Surfaces
- Switchable Optical Properties of Hydrides
- Hydrogen Detection Techniques
- New Hydrogen Storage Systems
- Hydrogen in Novel Materials
- Quantum Motion of Hydrogen
- Nuclear Magnetic Resonance and Hydrogen Diffusion
- Hydrogen in Thin Films

ILLICIT SUBSTANCE DETECTION: CHEMICAL/BIOLOGICAL AGENTS
MOUNT HOLYOKE COLLEGE
SOUTH HADLEY, MA
JUN 24-29, 2001
DAVID FRANZ &
GREGORY T.A. KOVACS, CO-CHAIRS

- Host Meets Pathogen: Mechanisms, Early Responses and Opportunities
- Rapid Recognition of Infections by Bioterrorism Agents
- Prodromal Diagnostics: Strategies for Identifying the Exposed Individual
- Diagnostics Research - The Way Ahead
- Factors that Influence CBW Weapons Effects
- Chemical Methods for Biological Detection
- Physical Methods for Biological Detection
- Strategic View of Diagnostics, Detection and Preparedness Policy

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INORGANIC CHEMISTRY
SALVE REGINA UNIVERSITY
NEWPORT, RI
JUL 15-20, 2001
STEVEN STRAUSS, CHAIR
RICHARD KEMP, VICE CHAIR

- Solid-State Chemistry
- Photo/Electrochemistry
- Bioinorganic Chemistry
- Main-Group Cluster Chemistry
- Hydrogen and Lithium Chemistry
- Organometallics and Catalysis
- Environmental Inorganic Chemistry

INORGANIC GEOCHEMISTRY: FORMATION, MODIFICATION AND PRESERVATION OF ORE DEPOSITS
PROCTOR ACADEMY
ANDOVER, NH
AUG 19-24, 2001
JOHN THOMPSON &
JEFFREY HEDENQUIST, CO-CHAIRS
JEAN CLINE, VICE CHAIR

- Industry Perspective
- Metal Mobility in the Natural Environment
- Climate, Tectonics and Metal Mobility
- Supergene Enrichment: Cu & Au
- Tectonics and Ore Deposits
- Supergene Enrichment: Ni, Mn & Fe
- Preservation and Destruction of Ores
- Crustal Fluid Circulation
- Research Frontiers

INTERIOR OF THE EARTH
MOUNT HOLYOKE COLLEGE
SOUTH HADLEY, MA
JUN 10-15, 2001
JOHN VIDALE, CHAIR
JERRY MITROVICA, VICE CHAIR

- Transition Zone
- Inner Core Evolution, Structure and Dynamics
- Outer Core Dynamo Dynamics and Interaction with Solid Earth
- Geophysics Near the Core-Mantle-Boundary
- Anisotropy: Observations, Causes and Explanations
- Temperature, Chemistry and the Lower Mantle: Interpreting the Color Palette of Seismic Tomography
- Large Scale Computing in Geophysics
- How has Mantle Evolved over Earth History?
- Unresolved Problems and Future Directions

ION-CONTAINING POLYMERS
WILLIAMS COLLEGE
WILLIAMSTOWN, MA
JUL 15-20, 2001
RAY FARINATO &
MICHEL PINERI, CO-CHAIRS
KENNETH MAURITZ &
CLAUDINE WILLIAMS,
CO-VICE CHAIRS

- Polymer Synthesis
- Polymer Synthesis and Characterization
- Nanoscale Characterization
- Physical and Mental Creations with Ion-Containing Polymers

LASER DIAGNOSTICS IN COMBUSTION
MOUNT HOLYOKE COLLEGE
SOUTH HADLEY, MA
JUL 1-6, 2001
JAY JEFFRIES, CHAIR
MARCUS ALDEN, VICE CHAIR

- Quantitative Measurements to Test Combustion Chemistry
- Challenges in the Measurement of Fuel Distributions
- Infrared Diagnostics to Exploit New Tools
- ps Measurements to Quantify Collisional Effects
- Innovative Optical Measurement Techniques
- Velocity Measurements: Challenges and Solutions
- Diagnostics to Understand Turbulent Flow
- Practical Measurements in Harsh Environments: Engines
- Quantitative Measurements to Understand Soot Formation

LIPIDS, MOLECULAR & CELLULAR BIOLOGY OF
KIMBALL UNION ACADEMY
MERIDEN, NH
JUL 15-20, 2001
CHARLES ROCK, CHAIR
SUSAN HENRY, VICE CHAIR

- Lipid:Protein Interactions
- Animal Models for Lipid Metabolism
- Peroxisome Function
- Phosphatidylinositol Regulation of Cell Function
- Membrane Microdomains
- Intracellular Trafficking
- Structure/Function in Lipid Enzymology
- Regulation of Lipid Metabolism
- Lipid Biosynthesis in Bacteria

LIQUID CRYSTALS
COLBY-SAWYER COLLEGE
NEW LONDON, NH
JUN 24-29, 2001
TOM LUBENSKY, CHAIR
ROBERT LEMIEUX, VICE CHAIR

- Elastomers
- Liquid Crystals in Aerogels and Aerosils
- Colloidal Liquid Crystals and Supramolecular Assembly
- Liquid Crystals in Biology
- New Mesophases and Gels
- Bent Core Phases
- Ferro Electric Liquid Crystals
- Defects and Nanostructures
- Applications
- Polymers and Liquid Crystals

LIQUIDS, CHEMISTRY & PHYSICS OF
HOLDERNESS SCHOOL
PLYMOUTH, NH
AUG 5-10, 2001
NORBERT SCHERER, CHAIR
PETER ROSSKY, VICE CHAIR

- Structure and Flow in Granular Materials
- Quantum Effects on Dynamics
- Ultrafast Dynamics in Liquids
- Reactivity in Liquids
- Structure of and Dynamics in Water
- Liquid and Biological Interfaces
- Colloids as Glasses
- Complex Fluids, Emulsions

MAGNETIC RESONANCE
ROGER WILLIAMS UNIVERSITY
BRISTOL, RI
JUN 17-22, 2001
ROBERT TYCKO, CHAIR
KURT ZILM, VICE CHAIR

- Theoretical and Technological Developments in NMR I, II
- Magnetic Resonance in Condensed Matter Physics I, II, III
- New Techniques and Technology in Electron Paramagnetic Resonance
- Magnetic Resonance in Biological Systems I, II
- NMR in Materials Science and Solid State Chemistry I, II
- Quantum Computation and Magnetic Resonance

MALARIA
QUEEN'S COLLEGE
OXFORD, UK
AUG 5-10, 2001
CHRIS NEWBOLD, CHAIR
BRIAN GREENWOOD, VICE CHAIR

- Population Biology
- Invasion
- Vaccines
- Protein Trafficking
- Antigenic Variation
- Pathogenesis
- Drug Resistance
- Immunology
- Exploiting the Genome

MAMMARY GLAND BIOLOGY
ROGER WILLIAMS UNIVERSITY
BRISTOL, RI
JUN 3-8, 2001
CHARLES DANIEL, CHAIR
MARY HELEN BARCELLOS-HOFF,
VICE CHAIR

- Perspectives and Opportunities in Mammary Research
- Tissue Interactions in Development and Cancer
- IGF in Mammary Development and Cancer
- Cell Identity, Differentiation and Function
- Tumor Progression and Metastasis
- The Lactation Cycle
- Carcinogenesis and Genome Stability
- Signal Transduction in Development and Neoplasia
- Biological and Molecular Aspects of Premalignant Progression

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MATERIALS PROCESSES FAR FROM EQUILIBRIUM
KIMBALL UNION ACADEMY
MERIDEN, NH
JUL 1-6, 2001
HARRY ATWATER, CHAIR
ROBERT AVERBACK, VICE CHAIR

- Nanostructural Evolution During Irradiation
- Implantation-Induced Layer Transfer and Bonding
- Chemically Driven Nanostructure Synthesis
- Laser-Induced Materials Modification
- Surface Evolution During Irradiation
- Flow and Deformation of Amorphous Materials
- Nanostructure Assembly

MECHANISMS OF CELL SIGNALLING
QUEEN'S COLLEGE
OXFORD, UK
AUG 12-17, 2001
ED MANSER, CHAIR
DAFNA BAR-SAGI &
THOMAS LEUNG, CO-VICE CHAIRS

- G Proteins in the Nervous System
- G Proteins in the Immune System
- Structure & Function of G Proteins
- G Proteins and Cancer Biology
- New Technologies in G Protein Research
- G Proteins in Animal Development
- G Proteins in Cell Movement
- G Proteins: Lessons from Mammalian Knockouts

MECHANISMS OF MEMBRANE TRANSPORT: REGULATION OF MEMBRANE TRANSPORT IN BIOLOGY AND MEDICINE
HOLDERNESS SCHOOL
PLYMOUTH, NH
JUN 17-22, 2001
DONALD HILGEMANN, CHAIR
BLISS FORBUSH, VICE CHAIR

- From the Nucleus to the Secretory Pathway
- Trafficking & Targeting
- Regulated Insertion & Retrieval
- New Insights into pH Regulators and their Regulation
- The ABC's of Transport
- Control & Regulation of Neurotransmitter Transport
- Cation Transporters: Emerging Transport Systems of Great Medical Import
- New Insights into Regulation of Epithelial Transport
- The Past and Future Evolution of Membrane Transport

MEDICINAL CHEMISTRY
COLBY-SAWYER COLLEGE
NEW LONDON, NH
AUG 5-10, 2001
KELVIN COOPER, CHAIR
JOHN MACOR, VICE CHAIR

- Topics in Drug Safety
- Special Topics (Late Breaking New Drugs)
- New Approaches to Treating Atherosclerosis
- Drugs Modulating Kinases and Phosphatase
- New Approaches to Treating Obesity
- New Approaches to Treating Osteoporosis
- New Approaches to Treating Microbial Infections
- New Drugs for Neurodegeneration/Alzheimer's
- New Approaches to Treating Pulmonary Diseases
- Drugs Designed in Improve Quality of Life

METAMORPHOSIS
CONNECTICUT COLLEGE
NEW LONDON, CT
JUL 1-6, 2001
PETER CHERBAS, CHAIR
JAMES TRUMAN, VICE CHAIR

- The Evolution of Metamorphosis
- Nuclear Receptors
- Genetic Approaches to Metamorphosis
- Juvenile Hormone and Metamorphosis
- Molecular Switches and Gene Expression Pathways
- Tissue Morphogenesis
- Nervous System Metamorphosis

MICROBIAL POPULATION BIOLOGY
WILLIAMS COLLEGE
WILLIAMSTOWN, MA
JUL 29-AUG 3, 2001
LIN CHAO, CHAIR
SIV G ANDERSSON, VICE CHAIR

- Ecology of Ordinary and Sexually Transmitted Diseases
- Viral and Microbial Evolution
- Experimental Evolution
- Evolutionary Genomics
- Microbes in Extreme Environments
- Morphological Scaling: Down to Microbes and Viruses
- Bacterial Biofilms: Ecology and Evolution
- Ecology of Germ Warfare
- Theory and Model Systems

MICROFLUIDICS, PHYSICS AND CHEMISTRY OF (NEW)
QUEEN'S COLLEGE
OXFORD, UK
JUL 29-AUG 3, 2001
YOLANDA FINTSCHENKO, CHAIR
PHILLIP PAUL, VICE CHAIR

- Engineering Surfaces
- Transport Phenomena
- Fluid Control
- Particle and Cell Manipulations
- Modeling
- Integrated Systems I, II
- New Materials

MOLECULAR CELL BIOLOGY
TILTON SCHOOL
TILTON, NH
JUN 10-15, 2001
PETER WALTER, CHAIR
IRA HERSKOWITZ, VICE CHAIR

- Signaling Mechanisms
- Cell Biology of Drugs
- Cell Organization
- Molecular Evolution
- Logic of Signaling Networks
- Functional Genomics and Proteomics
- Cell Biology of Disease
- Cell Cycle Regulation and Chromosome Dynamics
- Molecular Machines

MOLECULAR MECHANISMS OF MICROBIAL ADHERENCE AND SIGNAL TRANSDUCTION
SALVE REGINA UNIVERSITY
NEWPORT, RI
JUL 29-AUG 3, 2001
BRETT FINLAY &
J. ALLAN DOWNIE, CO-CHAIRS
JORGE GALAN &
PHILIPPE SANSONETTI,
CO-VICE CHAIRS

- Type III Secretion
- Adherence Mechanisms in Microbes
- Biophysical and Structural Aspects of Adherence
- Organelle Assembly
- Type IV Effectors and Invasion
- Type III Effectors
- Signaling in Host Cells
- New Models and Techniques
- Adherence, Signaling and Infection

MOLECULAR MEMBRANE BIOLOGY
PROCTOR ACADEMY
ANDOVER, NH
JUL 15-20, 2001
PETER NOVICK, CHAIR
JENNIFER LIPPINCOTT-SCHWARTZ, VICE CHAIR

- Protein Translocation
- Translocation and Folding
- Vesicle Budding
- Vesicle Targeting
- Membrane/Cytoskeletal Interactions
- Protein/Lipid Interaction
- New Structures
- Synaptic Cycle
- Polarity and Signalling

MOLYBDENUM & TUNGSTEN ENZYMES
QUEEN'S COLLEGE
OXFORD, UK
JUL 1-6, 2001
C. DAVID GARNER &
RALF MENDEL, CO-CHAIRS
JOHN ENEMARK &
RUDOLF THAUER, CO-VICE CHAIRS

- Crystallography and Mechanistic Enzymology
- Geo/Biochemistry and Uptake of Molybdenum and Tungsten
- Cofactor Biosynthesis and Synthesis
- Chemistry and Electronic Structure of Molybdenum and Tungsten Dithiolene Complexes
- Molybdenum and Tungsten Enzymes - Transport and Function
- Biomedical and Agricultural Significance of Molybdenum Enzymes
- Spectroscopic and Electrochemical Studies of Molybdenum and Tungsten Enzymes

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MOTILE & CONTRACTILE SYSTEMS
COLBY-SAWYER COLLEGE
NEW LONDON, NH
JUN 10-15, 2001
GARY BORISY, CHAIR
VELIA FOWLER, VICE CHAIR

- Cell Motility
- Regulation of Actin Assembly
- Signalling to the Cytoskeleton
- Microtubule-Cortical Interactions
- Motor-Cargo Interactions
- Mitosis and Cytokinesis
- Centrosome and Spindle Assembly
- Membrane Trafficking and the Cytoskeleton

MYCOTOXINS & PHYCOTOXINS
WILLIAMS COLLEGE
WILLIAMSTOWN, MA
JUN 24-29, 2001
MARIAN BEREMAND &
RICHARD LEWIS, CO-CHAIRS
FRANCES VAN DOLAH &
RONALD RILEY, CO-VICE CHAIRS

- Novel and Reoccurring Toxicoses
- Biochips and Electronic Noses
- Mode of Action and Molecular Targets for Toxins:
- New Approaches and Advances
- New Developments in Metabolism and Detection
- Toxin Chemistry and Analysis
- Cellular and Environmental Control of Toxin Production
- Advances in Biological and Genetic Control Measures
- Novel Outbreaks: Environmental Implications
- Populations at Risk: Contributing Factors and Future Directions

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NATURAL PRODUCTS
TILTON SCHOOL
TILTON, NH
JUL 29-AUG 3, 2001
PETER WUTS &
MICHAEL SMITH, CO-CHAIRS
CYNTHIA MCCLURE &
MICHAEL LUZZIO, CO-VICE CHAIRS

- Total Synthesis
- Biosynthesis
- Development of Methodology
- Catalysis
- Bioorganic Chemistry
- Isolation
- Medicinal Chemistry

NEURAL PLASTICITY
SALVE REGINA UNIVERSITY
NEWPORT, RI
JUL 15-20, 2001
ERIN SCHUMAN, CHAIR
TOBIAS BONHOEFFER, VICE CHAIR

- Animal Learning and Memory I, II
- Addiction/Reward
- Animal Communication
- Circadian Rhythms
- Sleep
- Trafficking/ Plasticity
- Trafficking/Synapse Specificity
- Structural Plasticity

NEUROTROPHINS
SALVE REGINA UNIVERSITY
NEWPORT, RI
JUN 10-15, 2001
MICHAEL GREENBERG, CHAIR
YVES-ALAIN BARDE, VICE CHAIR

- Neurotrophins and Development
- Stem Cells and Neurotrophic Factors
- Regulation of Neuronal Shape, Pathfinding and Synapse Formation by Extracellular Factors
- Neurotrophic Factors and Survival
- Trophic Factors and Synaptic Transmission
- Neurotrophic Factor Signaling
- Trophic Factors, Injury, Disease and Repair
- Other Trophic Factors and Neurodevelopment

NON-ANTIBIOTIC PROPERTIES OF TETRACYCLINES & OTHER ANTIBIOTICS
COLBY-SAWYER COLLEGE
NEW LONDON, NH
JUL 1-6, 2001
MARK NELSON, CHAIR
BAL LOKESHWAR, VICE CHAIR

- Structure-Function and Chemistry
- Biological Functions of Antibiotics
- Tetracyclines, CMTs and MMP Inhibition
- MMPs and Inflammatory Diseases
- Tetracyclines and Molecular Mechanisms
- Tetracycline and Repressor Function
- Tetracycline and Eukaryotic Systems
- Tcs, MMPs, Cytokines and Other Secondary Messengers
- Tcs, CMTs and Cellular Homeostasis

NONLINEAR OPTICS & LASERS
COLBY-SAWYER COLLEGE
NEW LONDON, NH
JUL 29-AUG 3, 2001
MARGARET MURNANE, CHAIR
DAVID HANNA, VICE CHAIR

- Coherent Control of Nonlinear Optics
- Nonlinear Optics at Short Wavelengths
- Time Domain Meets Frequency Domain
- Future Applications / Impact of Optics
- Nonlinear and Laser Devices for Photonic Applications
- Nano Optics
- Quantum Optics - Atom Nonlinear Optics
- Novel Lasers

NONLINEAR SCIENCE (NEW)
MOUNT HOLYOKE COLLEGE
SOUTH HADLEY, MA
JUN 17-22, 2001
LOU PECORA & KENNETH SHOWALTER, CO-CHAIRS

- Biodynamics I: Noise & Genetic Applets
- Biodynamics II: Systems and Interactions
- Dynamics
- Network Dynamics
- Spatiotemporal I: Fluids & Lasers
- Spatiotemporal II: Reaction-Diffusion
- Neurodynamics

NUCLEAR CHEMISTRY: NUCLEAR STRUCTURE
COLBY-SAWYER COLLEGE
NEW LONDON, NH
JUN 17-22, 2001
MARK RILEY, CHAIR
PHILLIPPE CHOMAZ, VICE CHAIR

- Nuclear Behavior at the Limits of I, Ex, N and Z
- Exotic Nuclear Shapes, Symmetries, Correlations and Excitation Modes
- N=Z Nuclei and The Physics of Nuclei Near the Proton Drip Line
- The Properties of Neutron Rich Nuclei
- Nuclear Structure Studies Using Radioactive Beams
- The Production and Structure of the Heaviest Elements
- Mesoscopic Systems and Their Connections with Nuclei
- Recent Breakthroughs in Off-Line Decay Studies
- New Instrumentation and Software Developments

NUCLEAR PHYSICS
SALVE REGINA UNIVERSITY
NEWPORT, RI
JUL 22-27, 2001
WIT BUSZA, CHAIR
BARRY HOLSTEIN, VICE CHAIR

- Theme: QCD in Extreme Conditions: High Temperature, High Density and Small-x
- The Phases and Regimes of QCD
- The Properties of the QCD Vacuum, and of Matter at Non-Zero Temperature and Baryon Density
- The Gluon Sea at Low-x:
  - Exploration in Deep Inelastic Scattering
  - Role in Heavy Ion Collisions
- The Extreme Conditions Arising in Heavy Ion Collisions:
  - Equilibration and Thermodynamic Properties
  - Signatures from Soft Processes
  - Signatures from Hard Processes
  - Implications of Fluctuations
- Connections with Cosmology, Astrophysics and Condensed Matter Physics

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NUCLEIC ACIDS
SALVE REGINA UNIVERSITY
NEWPORT, RI
JUN 24-29, 2001
SARAH WOODSON &
PAUL HAGERMAN, CO-CHAIRS
JENNIFER DOUDNA &
MICHAEL COX, CO-VICE CHAIRS

- Design and Catalysis
- Folding and Dynamics
- Metal Ions
- Modeling and Sequence Analysis
- Transcription
- Replication and Repair
- Ribosomes
- Nucleic Acid-Protein Interactions
- Chromosome Structure

ORGANIC PHOTOCHEMISTRY
CONNECTICUT COLLEGE
NEW LONDON, CT
JUL 15-20, 2001
RICHARD GIVENS, CHAIR
LAREN TOLBERT, VICE CHAIR

- Selectivity and Control of Organic Photochemical Reactions:
  - Enantioselective Photochemistry in the Solid State
  - Supramolecular Control in Photocycloaddition, Photochemical Reactions
  - Photopolymerizations
- Photochemical Generation of Reactive Intermediates:
  - Nitrenes, Biradicals, Persistent Triplet Carbenes, etc.
  - Time Resolved Studies of Photochemical Reactions
- Photoinduced Electron Transfer:
  - Nanoscale Interface Electron Transfer Processes
- Mechanistic Studies of Photochemically Triggered Biochemical Processes:
  - DNA Probes and Photodeactivation Reaction
  - Singlet Oxygen Induced Cellular Process

ORGANIC REACTIONS & PROCESSES
ROGER WILLIAMS UNIVERSITY
BRISTOL, RI
JUL 22-27, 2001
MICHAEL LIPTON, CHAIR
MUKUND SIBI, VICE CHAIR

- Organic Transformations
- Pharmaceutical Process Chemistry
- Organometallics in Synthesis
- Synthetic Methodology
- Chiral Scaffolding
- Ionic Systems
- Pharmaceutical Process Chemistry
- Asymmetric Synthesis
- Synthetic Methodology
- Pharmaceutical Process Chemistry
- Asymmetric Catalysis

ORGANIC THIN FILMS
SALVE REGINA UNIVERSITY
NEWPORT, RI
JUN 24-29, 2001
MATTHEW TIRRELL, CHAIR
GERO DECHER, VICE CHAIR

- Single Molecule Phenomena
- Thin Film Properties
- Self-Assembled Surfaces
- Patterned Surfaces
- Polyelectrolyte Surfaces
- Electroactive Organic Materials
- Photonic Band Gap and Reflective Polymers
- Colloidal Crystals
- Biological Thin Films

ORGANOMETALLIC CHEMISTRY
SALVE REGINA UNIVERSITY
NEWPORT, RI
JUL 22-27, 2001
CAROL BURNS, CHAIR
PETER WOLCZANSKI, VICE CHAIR

- Catalysis
- Organic Synthesis and Synthetic Methods
- Organometallic Chemistry in Materials Science
- Metal-Catalyzed Polymerization
- Main Group and f-Element Organometallic Chemistry
- New Developments in Organometallic Synthesis
- Organometallic Chemistry in Novel Environmens
- Reaction Mechanisms

ORIGINS OF SOLAR SYSTEMS
CONNECTICUT COLLEGE
NEW LONDON, CT
JUN 17-22, 2001
DAVID STEVENSON, CHAIR
PATRICK CASSEN, VICE CHAIR

- Brown Dwarfs & Giant Planets
- Properties of Extrasolar Planetary Systems
- Circumstellar Disks
- Disk Evolution & Planetary Migration
- Formation of Terrestrial Bodies
- Isotopic Evidence on Nebular Evolution & Planet Formation
- Organics, Water and Other Volatiles
- Kuiper Belt Objects & Planetesimal Processes
- High Energy Processes: Disk Dispersal & CAIs

PHAGOCYTES
CONNECTICUT COLLEGE
NEW LONDON, CT
JUN 10-15, 2001
WILLIAM NAUSEEF, CHAIR
ALAN ADEREM, VICE CHAIR

- The Nonphagocyte NAD(P)H Oxidases
- Host-Pathogen Interactions
- Receptors
- Cytoskeletal Regulation
- Clinical Extensions
- Applied Proteomics and Structural Biology
- Intracellular Signaling
- Epithelial Cell Transmigration and Termination of Inflammation

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PHOTOACOUSTIC & PHOTOTHERMAL PHENOMENA
QUEEN'S COLLEGE
OXFORD, UK
AUG 19-24, 2001
JAN THOEN & DANIELE FOURNIER, CO-CHAIRS
JAMES SPICER, VICE CHAIR

- Laser Ultrasonics
- Microelectronic Components and Devices
- Phase Transitions
- Progress in Inversion Methodology

- Heat Transport on Small Length and Short Time Scales
- Experiments on Very Small or Very Thin Samples
- Biological and Medical Applications
- Novel Techniques and Instrumentation
- Chemical Analysis and Environmental Applications

PHOTOIONS, PHOTOIONIZATION & PHOTODETACHMENT
WILLIAMS COLLEGE
WILLIAMSTOWN, MA
JUL 8-13, 2001
MARK JOHNSON, CHAIR
JOHN H.D. ELAND, VICE CHAIR

- Photoionization-Detected Ultrafast Kinetics
- Molecular Frame Strategies
- Multiply Charged Negative Ions & Photodetachment
- New Methods for Cluster Spectroscopy
- Advances in Imaging
- Coincidence Methods
- Threshold Phenomena
- Synchrotron-Based Studies of Core and Valence Levels
- Time-Dependent Formalism

PHYSICAL ORGANIC CHEMISTRY
HOLDERNESS SCHOOL
PLYMOUTH, NH
JUL 1-6, 2001
JAY SIEGEL, CHAIR
LAWRENCE SCOTT, VICE CHAIR

- Hydrocarbons and Fuel Cells
- Catalysis and Mechanism
- Polymers and Materials
- Stereochemistry
- Bioorganic Chemistry
- Photochemistry
- Computational Chemistry

PLASMID & CHROMOSOME DYNAMICS
COLBY-SAWYER COLLEGE
NEW LONDON, NH
JUL 22-27, 2001
GARY KARPEN, CHAIR

- Chromosome Structure
- Chromosome Plasticity
- DNA Replication I, II
- Telomeres
- Centromeres and Kinetochores
- Chromosome Segregation I, II
- Chromosomes and the Cell Cycle

POLYAMINES
CONNECTICUT COLLEGE
NEW LONDON, CT
JUN 24-29, 2001
ROBERT CASERO &
HEATHER WALLACE, CO-CHAIRS
CYRUS BACCHI
& LO PERSSON, CO-VICE CHAIRS

- Transgenic Approaches
- Parasites
- Transport
- Metabolism/Regulation
- Cell Cycle Regulation/Cell Death
- Plants and Food
- Chemistry
- Enzyme Structure and Function
- Ion Channels

POLYMER COLLOIDS
TILTON SCHOOL
TILTON, NH
JUL 1-6, 2001
DO IK LEE, CHAIR
ROBERT GILBERT, VICE CHAIR

- Advances in Colloid Stability
- Colloidal Interactions in Concentrated Polymer Colloids
- Self-Assembly and Ordering of Polymer Colloids
- Advances in Latex Film Formation
- Novel Nanoparticles: Preparation and Unique Properties
- Controlled Free Radical Emulsion and Miniemulsion Polymerizations
- Poster Session: Advances and Challenges in Polymer Colloids
- Industrial Applications of Polymer Colloids
- Biomedical Applications of Polymer Colloids

POLYMERS (EAST)
COLBY-SAWYER COLLEGE
NEW LONDON, NH
JUL 8-13, 2001
MARTIN MOELLER, CHAIR
CRAIG HAWKER, VICE CHAIR

- Precision Synthesis of Polymers/Catalysis of Polymerization Reactions
- Tissue Engineering, Biohybrid Materials and Functional Systems with Synthesized Macromolecules
- Functional Systems and Inorganic/Organic Hybrids
- Shape Control and Shape Responsive Polymers
- Nanostructure Engineering by Selforganizing Macromolecules

POLYSACCHARIDES, CHEMISTRY OF (NEW)
MOUNT HOLYOKE COLLEGE
SOUTH HADLEY, MA
JUL 22-27, 2001
CHARLES BUCHANAN, CHAIR
HENRI CHANZY, VICE CHAIR

- Sustainable and Renewable Resources: Nature's Supply of Polysaccharides
- Advances in the Structural Analysis of Polysaccharides
- Structure-Property Relationships of Polysaccharides
- Synthesis of Cellulose Derivatives
- Synthesis of Novel Polysaccharide Derivatives
- Biosynthesis of Polysaccharides
- Biotransformations of Polysaccharides
- Polysaccharides as Therapeutic Agents
- Self-Assembly of Polysaccharides

PROTEINS
HOLDERNESS SCHOOL
PLYMOUTH, NH
JUN 24-29, 2001
THOMAS BALDWIN, CHAIR
LYNNE REGAN, VICE CHAIR

- Membrane Proteins
- Experimental Folding
- Very Rapid Folding
- The Basis of Protein Stability
- Rational Drug Design
- Proteins in Disease
- Aggregation-Associated Diseases
- Nontraditional Chaperones
- Genomics/Proteomics/ Bioinformatics
- New and Emerging Technologies
- Design of Protein Folds/Directed Evolution
- Coupled Equilibria, Conformational Changes and Protein Dynamics
- Simulations and Computational Methods

PURINES, PYRIMIDINES & RELATED SUBSTANCES
SALVE REGINA UNIVERSITY
NEWPORT, RI
JUL 1-6, 2001
CAROL CASS, CHAIR
JOHN SECRIST, VICE CHAIR

- Nucleoside Therapeutics: Chemistry, Biology and Applications
- Structural Biology
- Cellular Uptake of Nucleosides and Nucleotides
- Impact of Mitochondrial Biology on Nucleoside Therapeutics
- Anticancer Therapies
- Antiviral Therapies
- Antiprotozoan Therapies
- Oligonucleotides as Therapeutics
- New Agents & Strategies

QUANTITATIVE STRUCTURE ACTIVITY RELATIONSHIPS
TILTON SCHOOL
TILTON, NH
AUG 5-10, 2001
KATE HOLLOWAY, CHAIR
JOHN VAN DRIE, VICE CHAIR

- Fundamental Issues in Computer-Aided Drug Design I, II
- Structural Breakthroughs on Targets of Therapeutic Relevance
- Docking & Scoring I, II
- 3D Pharmacophore Methods
- Design of Combinatorial Libraries
- Computational Approaches to Pharmaceutical and Toxicological Properties
- Simulations of Networks of Reactions

QUANTUM CONTROL OF ATOMIC & MOLECULAR MOTION
MOUNT HOLYOKE COLLEGE
SOUTH HADLEY, MA
JUL 29-AUG 3, 2001
MOSHE SHAPIRO, CHAIR
KLAAS BERGMANN, VICE CHAIR

- General Perspectives
- Phase Control
- Optimal Control
- Quantum Information
- Light Manipulation and Manipulation with Light
- Control in the Condensed Phase
- Strong Field Control
- Laser Cooling and BEC Dynamics
- Control in the Solid Phase

RED CELLS
TILTON SCHOOL
TILTON, NH
JUL 22-27, 2001
BEVERLY EMERSON, CHAIR
JOEL ANN CHASIS, VICE CHAIR

- Red Cell Disorders
- Membrane Structure and Mechanics I, II
- Erythrocyte Membrane Proteins and their Isoforms in Intracellular Membrane Systems
- Erythroid Gene Expression I, II
- Erythroid Development
- Hematopoiesis

SCIENCE EDUCATION & VISUALIZATION: INTERNATIONAL
MOUNT HOLYOKE COLLEGE
SOUTH HADLEY, MA
AUG 5-10, 2001
LORETTA JONES, CHAIR
DUDLEY HERSCHBACH, VICE CHAIR

- Bringing the Excitement of Science and Visualization to the Classroom
- Emerging from Flatland: New Visualization Technologies in Science Education
- Molecular Visualization in Teaching Chemistry
- Interacting with Scientific Visualizations in Meaningful Ways
- Visualization for All Students
- The Future of Teaching and Learning with Scientific Visualization
- The Role of Scientific Visualization in the Globalization of Science Education
- Visualizing the Future
- Redefining Instructional Materials for New Technologies

SECOND MESSENGERS & PROTEIN PHOSPHORYLATION
KIMBALL UNION ACADEMY
MERIDEN, NH
JUN 10-15, 2001
JACK DIXON &
RON TAUSSIG, CO-CHAIRS
MORRIS WHITE, VICE CHAIR

- G Protein-Coupled Receptors
- Cyclic Nucleotides
- G-Proteins
- Kinases
- Rho Signaling
- Kinase Signaling Cascades
- Signaling
- Phosphatases and Other Signaling Paradigms

SOLID STATE CHEMISTRY II
QUEEN'S COLLEGE
OXFORD, UK
SEP 16-21, 2001
BERND HARBRECHT, CHAIR
MIGUEL ALARIO-FRANCO, VICE CHAIR

- Magnetic Interactions in Solids
- Electrode Materials
- Intermetallic Phases I, II
- New Designs of Porous Solids
- Molecular Sieves
- Reactions and Phase Transitions in Solids
- Borides, Carbides, Nitrides
- Nano-Scale Crystals from Solutions

STAPHYLOCOCCAL DISEASES
ROGER WILLIAMS UNIVERSITY
BRISTOL, RI
AUG 12-17, 2001
HENRY CHAMBERS, CHAIR
BRIGITTE BERGER-BACHI, VICE CHAIR

- Genomics
- Regulation
- Preventative Therapies Against Staphylococcal Infections
- Novel Approaches to the Prevention & Treatment of Staphylococcal Infections
- Staphylococcal Resistance to Antibiotics
- Surface Protein and Structure of Staphylococcus Aureus
- Stress Response and Virulence

STATISTICS IN CHEMISTRY & CHEMICAL ENGINEERING
WILLIAMS COLLEGE
WILLIAMSTOWN, MA
JUL 22-27, 2001
RANDALL TOBIAS, CHAIR
MARY BETH SEASHOLTZ, VICE CHAIR

- Data Reconciliation and Gross Error Detection
- False Discovery Rate
- Bayesian Methods in Chemistry and Chemometrics
- Cheminformatics and Statistics in Formulations Development
- Multivariate Image Analysis/ Multivariate Image Regression
- Uniform Design for Simulation Experiments
- Boosting and Bagging
- Joint Modeling of Mean and Dispersion for Quality Improvement
- Model-Based Cluster Analysis

STRESS-INDUCED GENE EXPRESSION (NEW)
CONNECTICUT COLLEGE
NEW LONDON, CT
JUL 8-13, 2001
RICHARD MORIMOTO, CHAIR

- Stress Signaling Pathways
- Oxidative Stress and Metals
- Heat Shock and Stress Inducible Transcriptional Control
- Plant Regulatory Strategies in a Hostile Environment
- Stress-Induced Post Transcriptional Regulation (mRNA Stability and Translational Control)
- Stress Genotoxicity and Molecular Toxicology
- Stress in Disease: Inflammation, Bacterial and Viral and Infection
- Global Analysis of Stress Biocomplexity

SUPERCONDUCTIVITY
QUEEN'S COLLEGE
OXFORD, UK
SEP 9-14, 2001
PETER LITTLEWOOD & VICTOR EMERY, CO-CHAIRS
THOMAS TIMUSK, VICE CHAIR

- Novel Superconductors
- Acenes
- C60
- High-Temperature Superconductivity
- Vortex Dynamics
- Superconducting Devices
- Superconductivity and Quantum Critical Points
- Anisotropic Superconductivity
- Materials and Chemistry

SUPRAMOLECULES & ASSEMBLIES, CHEMISTRY OF
CONNECTICUT COLLEGE
NEW LONDON, CT
JUL 29-AUG 3, 2001
RAYMOND MACKAY, CHAIR
NICHOLAS ABBOTT, VICE CHAIR

- Formation of Molecular Building-Blocks and Their Use in Forming Extended Structures
- 2D and 3D Colloidal Crystals
- Nanostructured and Layered Materials
- Templated Synthesis (by Surfactants, DNA, Solids, etc.)
- Assembly of (Inorganic and Organic) Molecules and Polymers Into Thin Films, Nano, Micro, and Meso-Structured and Porous Materials
- Functional Dendrimers
- Molecular Self-Assembly, to Include Vesicles, Mono- and Bilayers, Emulsions, Microemulsions, Liquid Crystals (Structure and Dynamics)
- Reactions in Organized Assemblies and Structured Fluids

THIN FILM & CRYSTAL GROWTH MECHANISMS
WILLIAMS COLLEGE
WILLIAMSTOWN, MA
JUL 1-6, 2001
ELLEN WILLIAMS, CHAIR
DAVID CAHILL, VICE CHAIR

- Crystal Growth from Solution
- Novel Assembly Using Physical/Chemical/Biological Processes
- Organic Thin Films
- Fundamentals of Nucleation and Coarsening
- Dynamics of Structure Evolution
- Atomic Scale Patterning
- Structure-Property Relationships at the Nanoscale

THREE DIMENSIONAL ELECTRON MICROSCOPY
ROGER WILLIAMS UNIVERSITY
BRISTOL, RI
JUN 24-29, 2001
ROBERT GLAESER, CHAIR
KENNETH TAYLOR, VICE CHAIR

- High Throughput at High Resolution
- High Throughput with Single Particles
- High Throughput with 2-Dimensional Arrays
- Tomography
- Platform Presentations of Selected Posters: Single Particles
- Automating Microscope Operation for High Throughput Data Acquisition
- Platform Presentations of Selected Posters: Ordered Arrays
- Quantifying Hybrid-Interpretation of Density Maps
- High Throughput with Ordered Assemblies

TISSUE REPAIR AND REGENERATION
COLBY-SAWYER COLLEGE
NEW LONDON, NH
JUN 17-22, 2001
SABINE WERNER, CHAIR
WILLIAM PARKS, VICE CHAIR

- Embryonic Wound Repair and Regeneration
- Development and Repair of the Lung and the Gut
- Cellular Differentiation
- Growth Factor Biology
- Cellular Signalling In Vitro and In Vivo
- Cell-Matrix Receptors and Proteinases
- Inflammation
- Cell Migration

TUBERCULOSIS DRUG DEVELOPMENT (NEW)
COLBY-SAWYER COLLEGE
NEW LONDON, NH
JUN 24-29, 2001
CLIFTON BARRY & KEN DUNCAN, CO-CHAIRS

- Defining the Need for New Antituberculars
- Target Selection & Rational Design
- Clinical Issues in the Evaluation of New Antituberculars
- Screening and Lead Compound Identification
- Drug Resistance Mechanisms
- Animal Models for Assessing Drug Efficacy
- Emerging Genome-Scale Tools for Drug Discovery
- Medicinal Chemistry
- Latency and TB Drug Development

VIRUSES & CELLS
TILTON SCHOOL
TILTON, NH
JUN 24-29, 2001
KARLA KIRKEGAARD, CHAIR
LYNN ENQUIST, VICE CHAIR

- Pathogenesis
- Receptors, Membrane Fusion, Entry
- Synthesis, Processing and Trafficking of Viral Proteins
- Viral Replication and Gene Expression
- Interaction of Viruses and the Immune System
- Host Defense/Virus Offense
- Virus Evolution
- Structure and Assembly of Viral Proteins and Nucleic Acids
- Exploiting Host Functions

X-RAY PHYSICS
CONNECTICUT COLLEGE
NEW LONDON, CT
JUL 22-27, 2001
HELMUT DOSCH, CHAIR
DOON GIBBS, VICE CHAIR

- Reports from the X-Ray Laser Fronts
- Ultrafast X-Ray Diffraction
- X-Rays at Confined Liquids
- Advances in Magnetic X-Ray Diffraction
- X-Ray Optics: Where are the Limits?
- X-Ray Microdiffraction
- What You Always Wanted to Know (and Never Dared to Ask) About...

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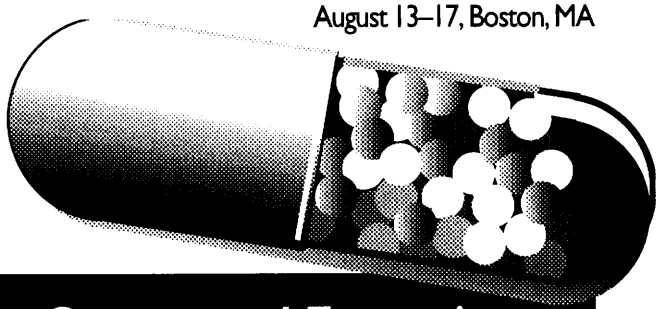


women in science

Progress of a Scientific Revolution

After years of struggle, women scientists have started to gain equal opportunity in the laboratory. Five women in four organizations outline their own experiences and the lessons they hold for fresh generations of scientists and administrators.

BY PETER GWYNNE

Massachusetts Institute of Technology - - - Aventis - - - Celera Genomics - - - Buckman Laboratories

In past decades, women scientists faced huge obstacles when they tried to pursue meaningful careers in their chosen fields. Many earned lower pay than male scientists with similar qualifications. They found themselves shunted onto the less creative career tracks. They often had to cope with the loneliness of being the sole woman in a group or department. And when they survived those indignities, they generally confronted glass ceilings that prevented them from reaching senior positions in laboratories and in management.

No more. Female scientists haven't yet reached full equality with their male colleagues, but in the past few years they have made significant progress toward that goal. Academic institutions have mandated equal treatment and equal pay for men and women with the same experience in the same job. Corporations have introduced flexible working hours, opportunities to telecommute or work part time without losing seniority, and other family-friendly policies that offer particular encouragement to women. Several companies have progressed to the point at which they no longer feel that they need specific programs to identify and attract promising women scientists; they now receive applications from the best candidates regardless of gender.

What has caused the change? Pressure from women's groups has made top administrators and senior executives aware of the bias of traditional approaches to staffing. Specialists in human resources realize that with the traditional pool of white males no longer sufficient to fill their growing need for well-qualified scientists, particularly in biological fields, they must recruit women. Managers have started to understand that a diversity of genders, cultures, and colors often means an increase in scientific creativity. And scientists in general have found that policies introduced to encourage the recruitment of women can improve the working life of everyone in a laboratory.

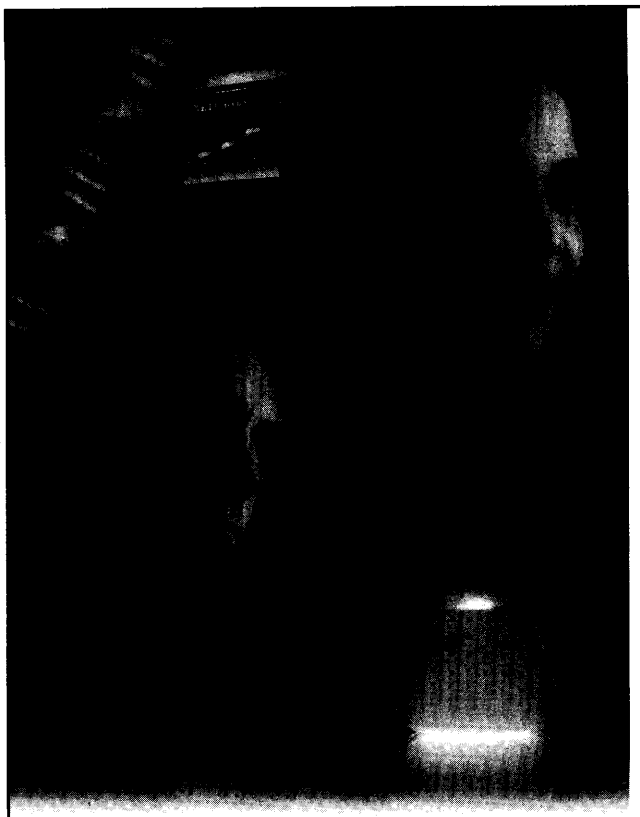
One area remains largely closed to women scientists: the top level of management in academe and high-technology companies. However, leaders of nine top American universities meeting at the Massachusetts Institute of Technology recently pledged that they will work toward "equity and full participation for their female faculty members."

What steps should young women scientists take today to discover the working environment most suitable for them in this time of greater opportunity? Women who have survived the lean years recommend that members of the next generation try internships in academic or industrial laboratories early in their college careers.

Here, we feature a scientist who took a leading role in a remarkable – and remarkably successful – effort to change the role of women in academic life. We also talk to representatives of three companies that have several women scientists on their payrolls. Taken together, their experiences give a strong indication of the progress that women have made in the scientific workplace. They also suggest how the current generation of women studying for science degrees at the Bachelor's, Master's, doctoral, and postdoctoral levels can benefit from the changed climate.

CONTINUED ⇒

A former science editor of Newsweek, *Peter Gwynne writes about science and technology from his base on Cape Cod, Massachusetts, U.S.A.*



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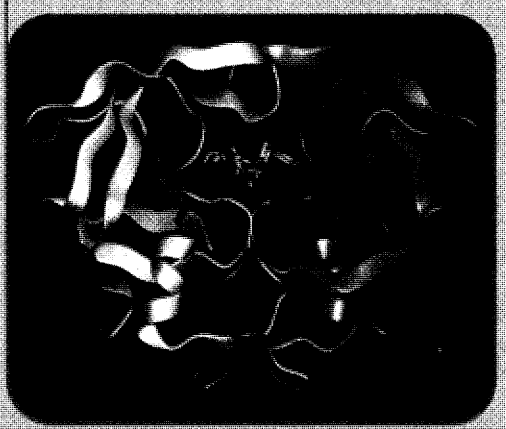

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Bacteriology
Assoc. Scientist/Investigator, 300-1

Target Validation
Investigator, 300-46

Cell Biology
Investigator/Staff Investigator, 300-10

Genomic Pharmacology
Investigator/Staff Investigator(s), 300-2 & 300-40U

Target Validation
Investigator/Staff Investigator, 300-6

Pharmacokinetics & Drug Metabolism

Staff Investigator, 740-4

Investigator, 740-8

Clinical Pharmacology
Investigator/Sr. Staff Investigator(s), 740-7 & 740-6

Toxicology

Sr. Staff Investigator, 740-2

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A Post-Doctoral Fellowship is available to participate in functional genomics of *Neisseria meningitidis*. The project aims at the characterization of the heme-uptake pathway using molecular biology approaches and microarray expression experiments. Strategies designed to interfere with this pathway could constitute an effective therapy to control meningococcal infections. Qualified candidates will have experience with existing bioinformatics tools. **Please reference job code: 1060**

A Post-Doctoral Fellowship is available to participate in two NIH-funded human parasite (*Trypanosoma brucei* and *Trypanosoma cruzi*) sequencing projects. Qualified candidates will have experience working with existing bioinformatics tools. Candidate will play a major role in genome annotation and data analysis. Knowledge of relational databases and proficiency in PERL are desirable. **Please reference job code: 1061**

A Post-Doctoral Fellowship is available on an NIAID funded project to sequence the genome of the early branching human enteric parasite Entamoeba histolytica that infects an estimated 500 million people and is a significant cause of morbidity and mortality. The successful candidate will play important roles in helping to sequence, assemble and annotate this important genome. Additionally, the candidate may be required to be responsible for undertaking similar project goals for other genomes currently underway at TIGR. A background in molecular parasitology and/or bioinformatics is preferred. Computational experience with PERL, SQL, and NT and UNIX operating systems would be useful, but is not required. **Please reference job code: 1062**

A Post-Doctoral Fellowship is available to participate in genome sequencing of *Plasmodium spp.*, *Theileria parv*a, and other lower eukaryotes. This individual will be responsible for data collection, analysis, and annotation of genome sequences, and may also participate in functional genomics studies using microarrays. Proficiency in UNIX, SQL, or Perl is highly desirable. **Please reference job code: 1063**

A Post-Doctoral Fellowship is available on an NCI-funded project to study gene expression in human colon tumor metastasis using microarrays. A strong computational background, including experience with PERL, SQL, and NT and UNIX operating systems is preferred but not required. Responsibilities will include data generation, analysis, and publication of novel results as well supervision of junior laboratory personnel. Candidates should be highly self-motivated and willing to work in a team-oriented collaborative environment. **Please reference job code: 1064**

A Post-Doctoral Fellowship is available on a USDA/NSF/DOE-funded Rice Genome project. This project is focused on sequencing and annotating rice genomic DNA as part of the International Rice Genome Sequencing Project. The successful candidate will participate in the sequencing and annotating BACs from *Oryza sativa* as part of a multi-disciplined team within the Eukaryotic Genomics department. The candidate will be responsible for data analysis and leadership of other team members. Specific responsibilities will include analysis of annotation from chromosomes 3 and 10 of rice, as part of the US effort to complete the entire sequence of these chromosomes. Other responsibilities will be further analysis of the annotation results including incorporation of the rice genome sequence data with orthologous sequences from other plant species such as maize, wheat, barley, and Arabidopsis. For more information about this project please visit http://www.tigr.org/tdb/rice. **Please reference job code: 1065**

A Post-Doctoral Fellowship is available on a ruminal and pathogenic bacteria project. Responsibilities will include day-to-day processes of genome closure, assisting in annotation and analysis of the genomes, publication of genome data and comparative genomic analyses. Candidates should be highly self-motivated and willing to work in a team-oriented collaborative environment. **Please reference job code: 1066**

Qualified candidates will have a PhD in Cancer Genetics, Human Molecular Biology, Genetics, Molecular Biology or a related field or the equivalent, experience with standard molecular biology laboratory techniques. Please send a curriculum vitae with the names, phone numbers, and e-mail addresses of three references to: **The Institute for Genomic Research, Attn: Human Resources, 9712 Medical Center Drive, Rockville, MD 20850 E-mail: jobs@tigr.org** Fax: (301) 838-0208 EOE

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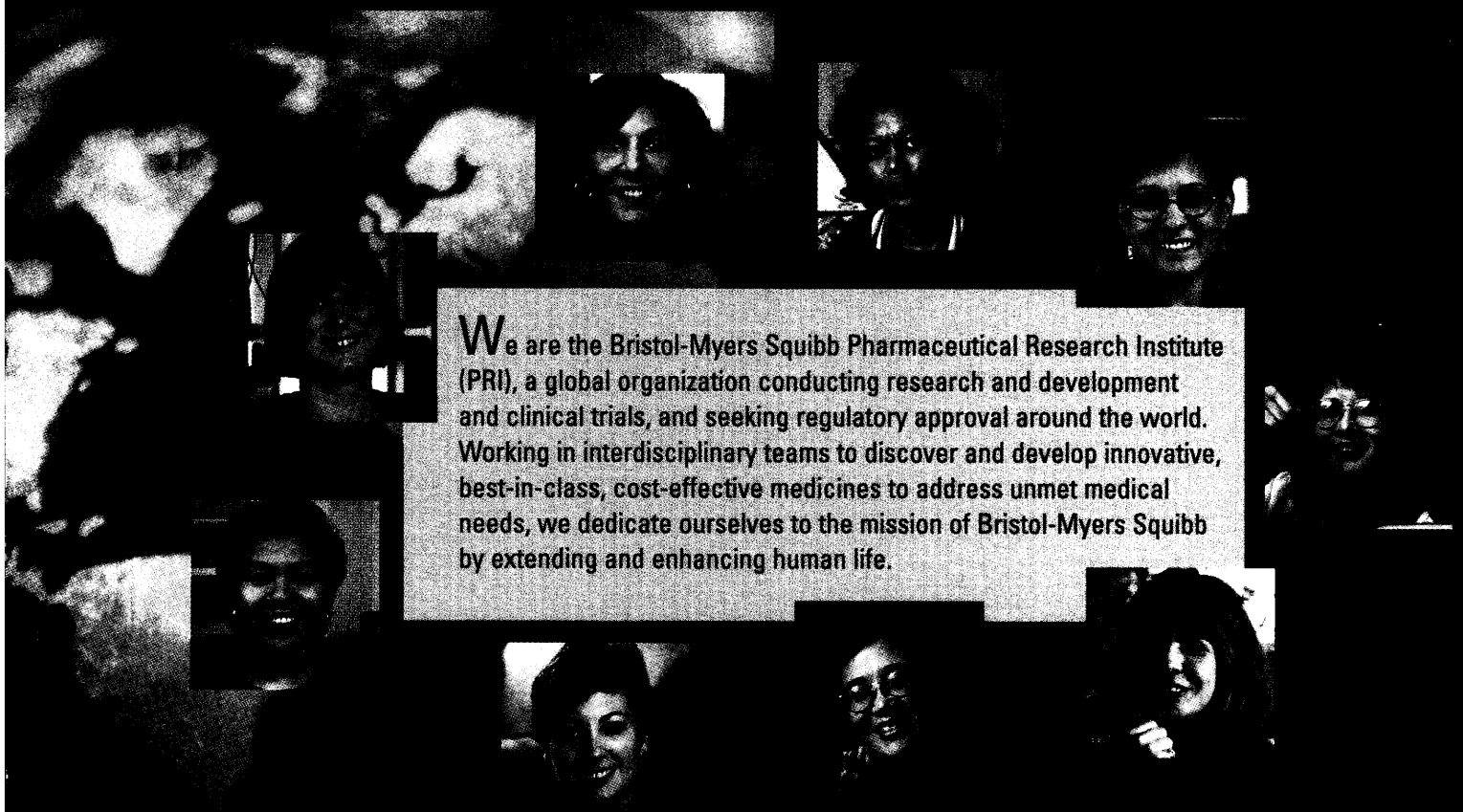

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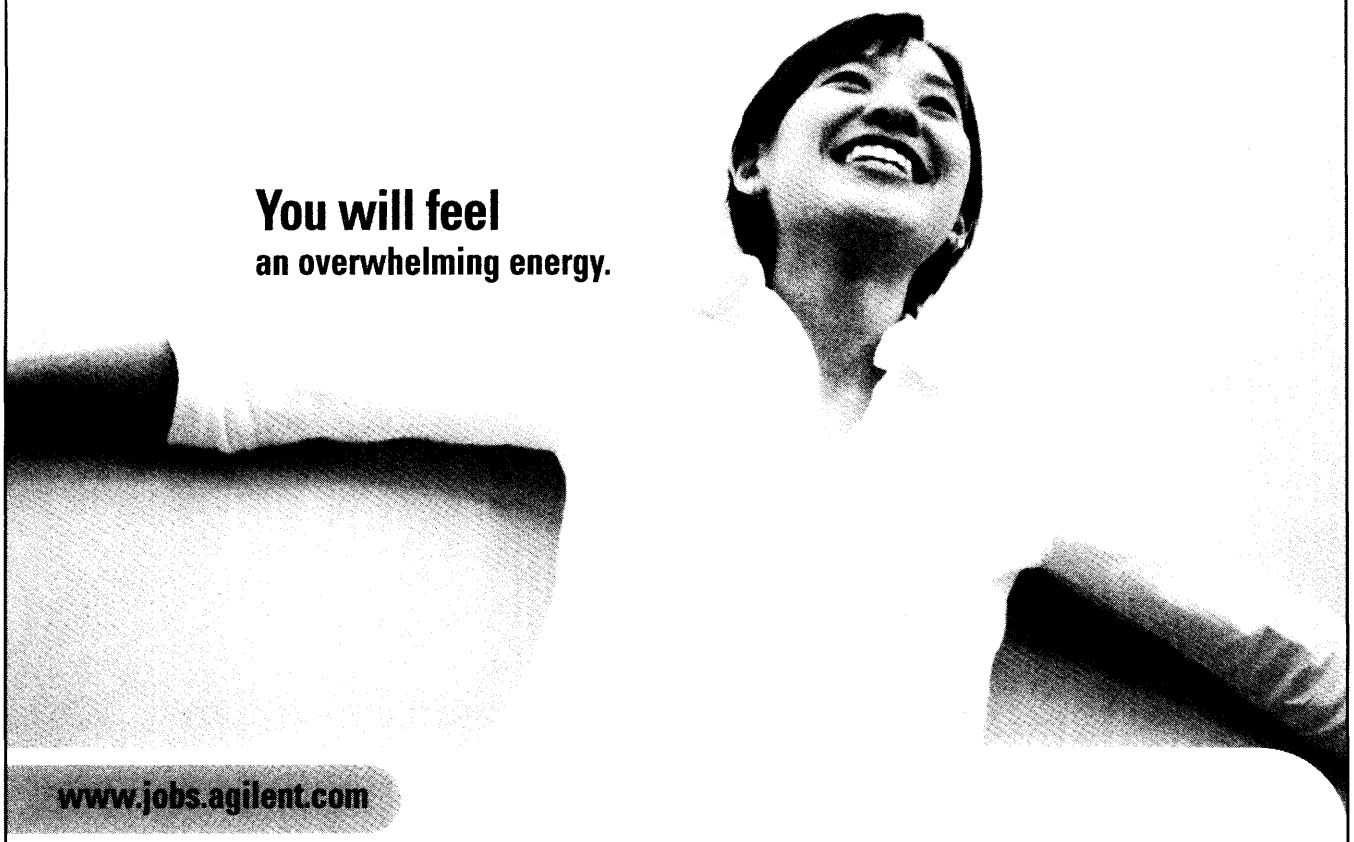

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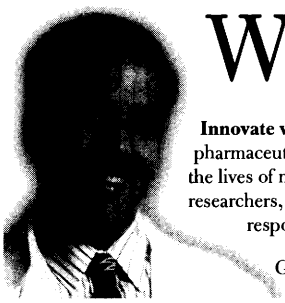

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The successful candidate will direct regulatory and investigative studies in reproductive toxicology, monitor studies at outside contract research organizations and manage compound development as part of a drug development team. Doctoral training in a scientific specialty related to reproductive or developmental toxicology and 0-10 years experience are required.
Job Code: PAD/SCJ/SRI/383HS

Senior Scientist/Senior Principal Scientist - General Toxicology Study Director

You will direct internal GLP studies in General Toxicology, monitor external studies at contract laboratories and manage preclinical development programs of novel therapeutic agents. Doctoral level training in a scientific specialty related to toxicology and 0-10 years experience in preclinical drug safety are required. Postdoctoral experience is preferred however recent recipients of doctoral degrees will be considered. Experience in preclinical general toxicology in the pharmaceutical industry is desired. Experience in project management and regulatory submissions is a plus.
Job Code: PAD/SCJ/SRI/308HS

Assistant Scientist/Associate Scientist - Genetic and Molecular Toxicology

BS or MS in biological science with good chemistry and genotoxicity background are required. You will be responsible for conducting GLP mutagenicity, human lymphocyte chromosome aberration and *in vivo* micronucleus assays. There will also be opportunity for involvement in molecular toxicology research projects. Experience in one or more of the above mentioned assays and knowledge of GLP are desired. **Job Code: PAD/SCJ/SRI/243HS**

Senior Scientist/Senior Principal Scientist - Study Director - Genetic and Molecular Toxicology

Primary responsibilities include conducting GLP genotoxicity tests including bacterial mutagenicity, *in vitro* human lymphocyte chromosome aberration and *in vivo* micronucleus assays. There will also be opportunities for involvement in genetic or molecular toxicology research projects. A Ph.D. and hands on experience in the above mentioned assays and knowledge of GLP are required. Prior CRO or industry experience is preferred. **Job Code: PAD/SCJ/SRI/673HS**

Scientist II/Senior Scientist

BS/MS in biological sciences, or equivalent scientific education and additional directly related experience, are required. A minimum of 10 years in General or Specialized toxicology in a GLP environment at a pharmaceutical company or contract research organization is required. Experience coordinating or managing contract research is desired. Must be able to work semi-autonomously visiting CRO facilities to facilitate SPRI Safety Evaluation studies being conducted therein. Experience with major laboratory species and experience in either general toxicology, reprotoxicology or safety pharmacology methodologies are essential. Experience with GLP, CRO/outsourced research, safety pharmacology and the business side of contract research is desirable. The successful candidate needs to be able to work with minimal supervision and be able to handle sensitive business issues. Extensive overnight travel up to 50% is required.
Job Code: PAD/SCJ/SRI/382HS

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Schering-Plough Research Institute will be conducting on-site interviews at the Society of Toxicology's Annual Meeting, March 25-29, in San Francisco, CA. To be considered for an on-site interview or if you cannot attend, please apply online by visiting us at: **www.whatdrivesyou.com** or mail your resume, referencing job code, to: Schering-Plough c/o Resume Processing, P.O. Box 549248, Suite 187, Waltham, MA 02454-0248. *By responding to this ad you may be considered for other potential opportunities throughout the Schering-Plough organization. If a potential match exists, you will be notified.* An equal opportunity employer.

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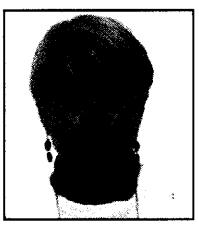

Mary Lou Pardue

CAMBRIDGE, Massachusetts: During the past few years, the Massachusetts Institute of Technology has become the unlikely site of a revolution whose impact has reverberated through academic faculties and corporate board rooms. Using hard data that they themselves collected and collated, a group of women persuaded the largely male administration not only that the institute had discriminated against them but also that it should do something about it.

The affair began in 1994, when the 15 tenured female faculty members in the university's School of Science started to gather data on senior faculty members' salaries, research grants, office space, and status. In every situation, they found, women had less than similarly qualified male counterparts. Two years ago those facts convinced the MIT administration that it had unwittingly discriminated against the women. Then, in a move that surprised everybody, the Institute made significant corrections in the salaries of women faculty and even added to the pensions of retired women. It also set up firm procedures to remove other manifestations of bias.

"We certainly didn't expect very much. Our main purpose had been to see if our impressions were backed up by evidence," recalls Mary Lou Pardue, a biology professor in the forefront of the struggle. "We were amazed that the administration started taking action and talking to us about what should be done." MIT president Charles Vest and dean of science Robert Birgeneau (who has since become president of the University of Toronto) "were very helpful in helping to hire women faculty and supportive of fixing other issues," Pardue remembers.

As one key change, the administration encouraged the search committees that determine short lists for faculty appointments to include women and particularly senior women. "Having women reading applications is very important," says Pardue. "Frequently men don't recognize the potential of younger women. Men see weaknesses in male candidates but realize that they had similar weaknesses at the same age and experience level and have overcome them. Young female candidates may have different weaknesses but they too will overcome them."

The thrust for equality begun by the female faculty members has spread both to other schools at MIT and to other institutions. "We have heard from institutions all over the world, from large corporations, and from law firms. Women everywhere seem to have similar problems," says Pardue. The effort has now encompassed other groups that have traditionally had low representation among scientists. Last September, for example, MIT set up a Council on Faculty Diversity whose 12 members include five women.

While not entirely satisfied with the pace of change, Pardue sees plenty of cause for satisfaction. "We hear from women students how grateful they are for the efforts of the women faculty," she says. "Now, 41 percent of the undergraduates at MIT are women; most major in science and engineering." She also looks for continued improvement. "Many women now go through their whole four years without encountering a female professor in science or engineering," she says. "But that won't, we hope, be the case in years to come."

What advice does Pardue have for young women scientists who want to succeed in academe? "They should realize that a lot of people have done it," she says. "There's room for them to move up the ladder."

Jean Merrill

BRIDGEWATER, New Jersey: Jean Merrill has played a pioneering role in garnering opportunities for herself and other women scientists. In 1991 she became the first woman to achieve the status of full professor in the neurology department of the School of Medicine at the University of California, Los Angeles. There, she encouraged undergraduates at her alma mater, Smith College, to spend summers in her laboratory and gain a feeling for the nature of life in scientific research.

She had her doubts about the heights she could reach in university life, however. "As I was trying to make my mark in an academic department, there were questions about equality with men," she recalls. "And being a Ph.D. in a clinical department put me in a difficult situation." To obtain a backup qualification Merrill took an MBA degree in marketing and finance.

Today she is director of cell biology and neuropathology for pharmaceutical giant Aventis. She is currently coleader of her division, overseeing a staff of more than 50 scientists. She has participated in two company-sponsored, leadership-building workshops attended by as many women as men.

"I'm happy to say that there are substantial opportunities for women in my current environment," Merrill says. "There are not as many women in senior management positions as men, but I have no sense that women do not have opportunities. I haven't had to go out of my way to seek women applicants for positions in my group. I have had the chance to select among many very well-qualified women. Some to whom I have offered jobs have had many other offers."

In Merrill's view, Aventis gains significantly from its efforts to recruit and keep women scientists. "The overall performance of a group or a company is enriched by a diversity of skills and backgrounds," she says.

Merrill continues her missionary work among young women. "Aventis participates in a program at Douglass College, the Rutgers University women's college," she says, "in which I have had the opportunity to speak to female high school students. This is a ges-

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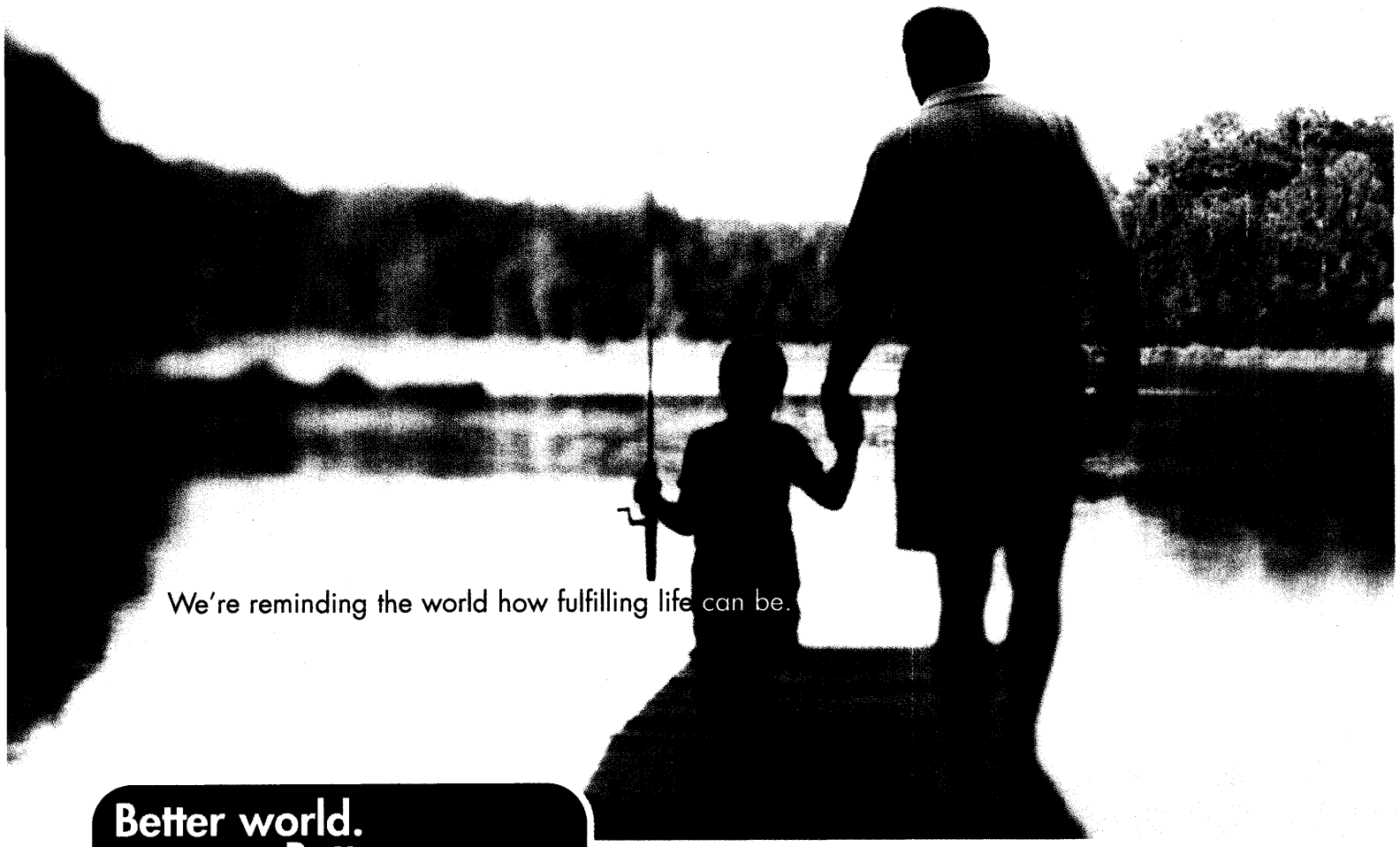

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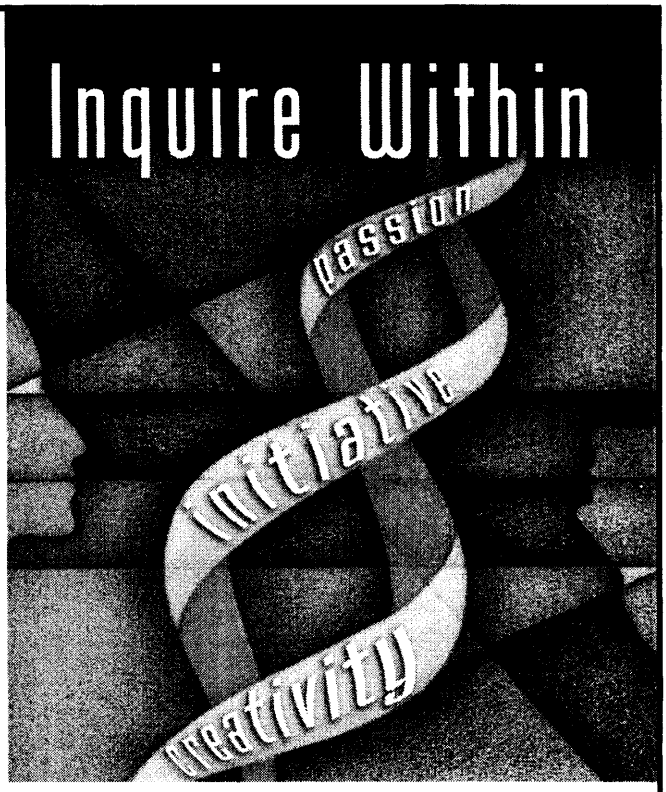

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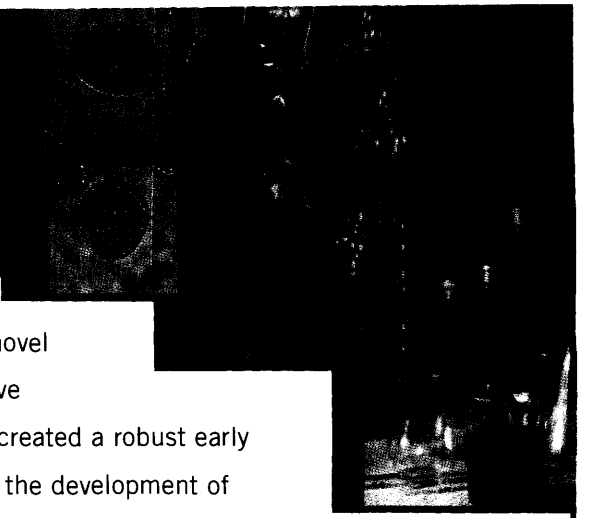

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You will develop and perform techniques for isolation and characterization of recombinant glycoproteins and their isoforms; optimize methods for analysis of post-translational modifications in recombinant proteins using HPLC, IEF, 2D-PAGE and others; interface with group members; and provide product development support when required. You must have a PhD or BS/MS in Biochemistry, Chemistry or related field, experience in electrophoretic and chromatographic methods of protein isolation and characterization, and a background in characterization of proteins using multiple modes of HPLC and electrophoresis (SDS-PAGE, 2D-PAGE). Experience in MALDI-TOF MS and spectroscopy is preferred. Job Code 0194

Scientist I–Bioinformatics

You will use your gene expression analysis, functional genomics and target discovery experience to engage in the discovery of novel therapeutics for multi-therapy research programs. You will combine scientific creativity and a strong investigative orientation with the ability to design and implement novel bioinformatics tools. Requires a PhD in life sciences and 0-3 years postdoctoral experience in research and information technology. Experience in genomics or bioinformatics and an in depth understanding of modern computational methods for biological sequence analysis required. Familiarity with C/C++, Perl, Java, XML, SQL, UNIX, PC and Macintosh computing environments preferred. Job Code 2711

Scientist II–Modified Proteins

Perform construction and characterization of vectors and protein conjugates used in evaluation of approaches to achieve delivery and targeting of protein therapeutics. Additional responsibilities include production and evaluation of test constructs and domains, including high throughput analysis to evaluation in culture and models. Requires a PhD, 1-5 years experience in molecular biology and biochemistry with exposure to cell biology. Relevant technical skills include: protein expression and purification, conjugation methods, phage display, direct and indirect immunofluorescence analysis, FACS analysis, and high throughput assay design. Job Code 2724

Scientist II–Mass Spectrometry

Development and implementation of high-sensitivity mass spectrometry-based methods for characterization of recombinant proteins. You will be expected to support and initiate internal/external collaborations with scientists of diverse backgrounds. Requirements include a PhD in Biochemistry or Analytical Chemistry, 2-5 years experience in biological mass spectrometry, broad experience in various applications of mass spectrometry, and extensive knowledge of proteomic techniques to assist in protein discovery. Expertise in protein chemistry and separation technologies desirable. Proficient knowledge of Windows NT a plus. Excellent written and oral communication skills and self-motivation are key. Job Code 2726

Scientist II–Cell Biology

Responsible for development of *in vivo* models for functional evaluation of multipotential stem cells (MSCs). Will be part of research team dedicated to R&D of novel methods for isolation and proliferative expansion of ultimately functional MSCs. Requires a PhD and 4+ years relevant experience, or equivalent combination of education and experience. Expertise in cellular biology and significant experience and working knowledge of cell culture also required. Job Code 0088

Scientist II–Cell Biology

Work to develop and apply *in vitro* differentiation assays for use in evaluation of multipotential stem cell (MSC) technologies. Play a critical role in a group dedicated to R&D of novel methods for isolation and proliferative expansion of MSCs. Supervise 1-2 staff members and participate in the design, execution and interpretation of cell and molecular biology experiments. Requires a PhD with 4 years relevant experience, or an equivalent combination of education and experience in cell and molecular biology. Working knowledge of multipotential stem cells preferred. Job Code 0090

Toxicologist–Preclinical

We are seeking a highly motivated toxicologist with a working knowledge of animal pharmacokinetics. The individual must have experience working in preclinical development with a minimum of 2 years postdoctoral work. This individual will have strong technical skills and the willingness to participate in all aspects of the drug development effort. In addition, the ideal candidate will be organized, articulate and possess strong interpersonal skills. Job Code 2480

CAMBRIDGE

Staff Scientist I–Drug Discovery

You will use your expertise in synthetic organic chemistry to create combinatorial libraries of small molecules, identify hits and use medicinal chemistry to convert hits into lead compounds for development of new therapies. Requires a PhD in Organic or Medicinal Chemistry and 0-2 years experience. Job Code 0139

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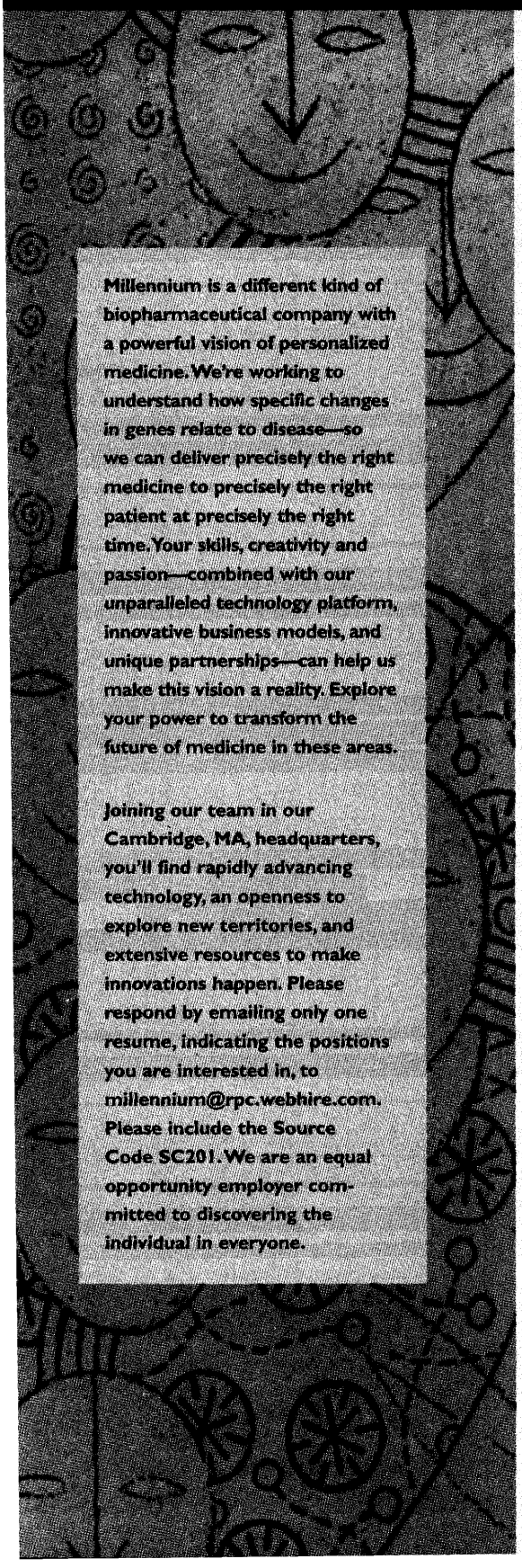
envision the power of personalized medicine



Millennium is a different kind of biopharmaceutical company with a powerful vision of personalized medicine. We're working to understand how specific changes in genes relate to disease—so we can deliver precisely the right medicine to precisely the right patient at precisely the right time. Your skills, creativity and passion—combined with our unparalleled technology platform, innovative business models, and unique partnerships—can help us make this vision a reality. Explore your power to transform the future of medicine in these areas.

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PhD OPPORTUNITIES

Scientist I, In Vivo Pharmacology

Requires a PhD or equivalent in Pharmacology, Immunology or a related field and 1-3 years experience in small molecule *in vivo* pharmacology. A background with immunopathology and molecular biology is helpful.

Scientist II, Immuno Biology/Inflammation

Requires proficiency in enzyme kinetics, small-scale protein purification and *in vitro* modification and cell-based assay development.

Scientist, Immuno Biology/Inflammation

Requires strong cellular and molecular immunology background and familiarity with inflammatory pathways, including disease mechanisms and cellular signaling. PhD, familiarity with human and murine immunology and 2+ years of postdoctoral study preferred.

Sr. Scientist I, Receptor Biology

Requires theoretical and practical expertise in biochemical, molecular pharmacological, and/or signal transduction of GPCRs, and PhD in Cell Biology, Biochemistry, and/or Molecular Pharmacology of GPCRs.

Scientists, Protein Mass Spectrometry (BS/MS/PhD)

Application of mass spectrometry to protein characterization using microcapillary LC-MS/MS to analyze complex protein mixtures.

Scientist, Enzymology

Requires a PhD and postdoctoral research with a strong publication record and solid background in mechanistic enzymology.

Scientist, Process Chemistry

Participate in a chemical synthesis program to develop a chemical process that can be safely performed on large scale. Requires a PhD in Synthetic Organic Chemistry or equivalent with 0-10 years research experience.

Scientist, Medicinal Chemistry

Apply synthetic skills to elaborate hits from HTS and develop novel series against specific therapeutic targets. Requires a PhD in Medicinal or Organic Chemistry and several years of postdoctoral or industry experience.

Scientist II, Assay Development

Develop assays both for release testing and characterization of the chemical nature of protein and small molecule therapeutics. Requires a PhD in Chemistry or Biology and 5+ years analytical development experience.

BS/MS OPPORTUNITIES

Research Associate, Pharmacology

Requires experience in antibody phage display, molecular biology, protein purification, antibody assays and sequence analysis.

Research Associate, Biotherapeutics

Requires experience with cell culture and performing CHO transfections with MTX amplification for production of manufacturing cell lines.

Assay Development Leader

Significant industry experience in preclinical development, immunobiology assays and GLP assay development and validation.

Sr. Research Associates

Requires experience constructing and analyzing subtracted cDNA libraries, transcriptional profiling of cDNA microarrays, quantitative PCR and immunoassays.

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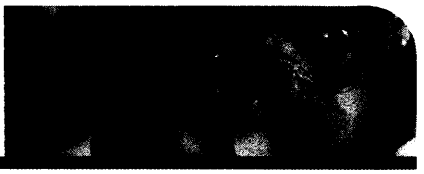
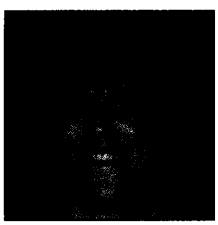
"Young women ask if they will have a chance to grow. I tell them that if they excel they will have the opportunity." JEAN MERRILL



ture the company is making to allow young women who are potential scientists to talk to us. We also have an intern program that has placed female summer students in my lab. We want to expose young women to women scientists – and a world that they might not have thought of 10 years ago."

Today they think about their chances of success in science. "Young women ask if they will have a chance to grow," Merrill says. "I tell them that if they excel they will have the opportunity." Her advice to ambitious students: "One of the best eye-openers is to do an internship in your early college years," she says. "Go to an academic lab and an industrial one to see which you prefer."



Jeannine Gocayne

ROCKVILLE, Maryland: Established in May 1998, Celera Genomics has had none of the struggles over equality of opportunity faced by older firms. "From the start there have been women in senior positions," says Ellen Beasley, head of gene discovery. "The wet lab side has always had a large proportion of female scientists. So has bioinformatics. Software has had a lower proportion of women but still a relatively high percentage." Overall, she says, the company's complement of scientists includes about as many women as men.

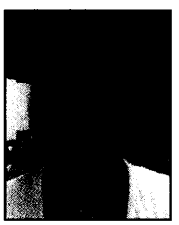
Jeannine Gocayne, manager for Celera's research and development group, oversees four women and one man. "We were one of the first groups to be formed at Celera, and we hired the most appropriate people," she recalls. She attributes that approach to the attitude of Celera's founder Craig Venter, for whom she originally worked at The Institute for Genome Research. "I've never felt any disadvantage being female," she says. "Craig has always treated males and females equally. Over time I've seen more and more women move from positions as technicians to being managers."

Corporate policies help employees to mix work and family life without excessive stress. "I am a manager who works part-time," says Gocayne, who has two young children. "The company works with employees who need part-time hours."

Several other policies permit both women and men to participate in family life during the typical weekday. "We have flexibility in working hours," says Beasley. "You can take time off to go and see your kids play sports. The company also makes it easier for parents by providing some home work stations. A lot of work can be done while wearing bedroom slippers."

On site, Celera has recently hired an expert in occupational health. "She's been working on postpregnancy programs for women who have taken maternity leave," says Beasley. "We also have a fairly active program on fitness in the workplace, some of which is specific to women."

Beasley has previous experience in an organization with several women employees. "I came to Celera from the Stanford Human Genome Center, where I ran a production laboratory with plenty of women," she explains. "The huge difference here is having a high proportion of peers who are women. The senior level is much more female than at the Genome Center. It's satisfying to work in a place where there are so many extremely competent people."



Vanja King

MEMPHIS, Tennessee: Vanja King faced tough competition 10 years ago when she applied for the job of managing the microbiology group at Buckman Laboratories. All the other candidates were male Ph.D.s from the R&D department. King had a Ph.D. in microbiology and three years of experience at Buckman. But she hadn't worked in the R&D department. Nevertheless she got the job. And five years ago she became head of the discovery group, when the synthesis and polymer areas were combined under her. "The company looks for the person best qualified," she says. "There is no glass ceiling in the technical areas."

Indeed, the company, which manufactures specialty chemicals, has been largely untouched by controversies over hiring women. "It hasn't been an issue for us," says King. "That's largely because we hire chemists and microbiologists, groups that traditionally have included a lot of women. There are a lot more women in chemistry now. We do not select a woman because she's a woman. But we do value diversity."

King's group, which synthesizes and then tests new molecules for use as industrial antimicrobials, contains four women and seven men, most of them Ph.D.s. "We have other labs that have a higher proportion of women with scientific degrees," she says.

Buckman uses financial backing to urge all its employees to improve their qualifications. "We have always encouraged talented people to get education," King says. "One woman came into my group with a Bachelor's degree. We supported her as she got her Master's degree and then her Ph.D. via distance learning." King herself has benefited from that policy. "I recently obtained an MBA paid for by the company," she says.

King, who is Swedish, believes strongly in the value of a genuinely diverse workplace. "In my group I have a 70-plus-year-old Hungarian man, a South American woman, and men from China and Ghana. I've also had an Indian and a South American who were promoted out of the group," she says. "We're a very small group to do the kind of work that we're doing; large pharmas will have hundreds of people doing the same work. I don't believe we could achieve what we do without diversity. Diversity is the only thing that gives us critical mass." ■

Avigen, Inc. is a leader in the development of gene therapy based on adeno-associated virus (AAV) for the treatment of inherited & acquired diseases. Our continued growth has created the following openings in our Alameda, Ca. facility for experienced and self-motivated professionals to join our expanding team.

SENIOR FORMULATION SCIENTIST

As part of an ongoing expansion of our Development Group, we are seeking a highly qualified scientist to fill a key role in the development of recombinant AAV vectors for human clinical trials. The successful candidate will have a strong background in the optimization of formulation and stability of biotechnology products, ideally viral vectors. A good working knowledge of relevant FDA regulations and cGMP required. Experience in vector purification process optimization and scale-up a plus. Candidates must have a PhD, 3+ years of relevant experience, and excellent communication skills.

PHARMACOLOGY / TOXICOLOGY SCIENTIST

Seeking a pharmacologist/toxicologist to design, coordinate, monitor, and evaluate GLP toxicity and biodistribution studies in support of the clinical evaluation and registration of AAV based gene therapy products. Position requires PhD in toxicology with 2+ years of industrial experience in in vivo toxicology testing. Experience with biological and viral based products preferred.

LAB MANAGER

Great opportunity for the right candidate to oversee lab support personnel in Avigen's research and development labs. This newly created position will be responsible for ensuring equipment is maintained properly, including scheduling of outside vendor for routine maintenance, calibration of equipment, arrange for equipment repair or replacement, as needed. Will also be responsible for coordination of lab supply ordering and inventories, assist with evaluation and ordering of new instruments and equipment, participate in lab design and space planning, ensure that cell culture incubators are cleaned and sterilized on schedule, glassware is cleaned, supplies are stocked, buffers/agarose plates/etc are fresh and in plentiful supply, act as liaison between Operations and R & D staff and will be an active member of the safety committee. Position requires a BS degree in Biology or Chemistry, 5 years lab experience (preferably biotech), previous supervisor experience and good interpersonal skills.

HEALTH & SAFETY SPECIALIST

Responsible for developing, implementing and monitoring health and safety programs within the company including our research laboratories and manufacturing facilities. A good working knowledge of OSHA requirements and their implementation in the workplace is required. Will conduct employee training and monitoring programs in the areas of general safety, radioactive materials handling, hazardous chemicals and biological safety. Biotechnology Industry experience preferred. Position requires a B.S. degree.

MATERIALS COORDINATOR (Phase I)

Responsible for activities related to the receiving, shipping and storing of materials. Ensures materials are received from proper vendors, delivered to inventory or recipient, packaged according to specification and shipped in a timely manner. Reviews receipt of all materials to ensure purchase orders are open and the quality of materials received are correct. Ensures the security and accountability of materials and goods with inventory control. Ensures materials are available to meet production schedules and/or products are shipped as per schedules. Establishes and modifies operational methods and procedures. Maintains documentation to reflect the effectiveness and efficiency of department activities.

DEVELOPMENT ASSOCIATES
CELL CULTURE AND VIRUS PURIFICATION

We are seeking experienced Development Associates to play key roles in a core facility for AAV vector production and characterization. A background in virology / viral vectors, and experience in cell culture and virus purification required. Candidates must have a BSc or MSc degree, and 3+ years relevant experience. Industry / cGMP experience a plus.

DEVELOPMENT ASSOCIATES
ASSAY DEVELOPMENT AND VALIDATION

We are seeking an experienced Development Associate or Scientist to play a key role in AAV vector characterization. A background in virology / viral vectors, and experience in assay development and assay validation is required. Candidates must have a BSc or MSc degree, and 3+ years of relevant industry / cGMP / GLP experience.

QUALITY ASSURANCE SPECIALIST

We are seeking a QA professional, a detail-oriented individual familiar with team interactions and excellent, demonstrated communication skills. Responsibilities will include; working with us to ensure compliance to cGMP in our new facility, review of Batch Production records and supporting data, investigation reports and change control/corrective action closure activities. Join us and we will provide a supportive management team and an opportunity to work in the cutting-edge field of gene therapy.

To join our team, you will need to offer these relevant qualifications:

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- Working experience in, and knowledge of, Quality Systems
- Proven detailed data and Batch Production Record review experience
- Administration of change control and deviation systems
- Expertise in compliance oversight and training is desirable
- Excellent written and verbal communication skills
- Ability to work effectively under time pressure

QUALITY ASSURANCE ASSOCIATE

The successful candidate will inspect and evaluate incoming raw materials and components used in manufacturing in accordance with the current raw material specifications and will be responsible for sampling raw materials using aseptic technique. Will also contribute to the investigation and resolution of non-conforming materials by collaborating with Materials Control, Manufacturing, Quality Control and Quality Assurance. Previous experience in Manufacturing, Quality, Materials or Inventory Control from a pharmaceutical, biopharmaceutical, or medical device company desired. Candidate must be able to lift up to 40 lbs. and attention to detail is essential. Associate Degree or 2 years of relevant experience in a related industry is a plus. Knowledge of cGMP is preferred. Must be able to complete tasks and projects within timelines while maintaining quality routine operations.

SENIOR RESEARCH ASSOCIATE—MANUFACTURING

Opportunity for an experienced individual to have a leading role in providing experience on DNA plasmid production and quality issues to the Production Department. This person will also be a hands-on member of the GMP manufacturing team. Requires a strong Molecular Biology background; E. Coli fermentation, plasmid purification, GMP experience, and cell culture experience are all highly desired. BS/MS with 5-8 years relevant experience or equivalent are required.

RESEARCH ASSOCIATE I-II, RESEARCH VECTOR PRODUCTION

Growth opportunity for the right candidate to participate in the production of AAV-based gene therapeutics for R&D use. Position requires 1-3 years of experience and Cell Culture experience is a must. GMP experience is a plus, but not required. Candidate must be flexible, have excellent communication skills, and demonstrated ability to work well in a team environment.

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DIRECTOR • Clinical Trials Management

(Job Code: SCI-5430VH)

Oversee the data collection and data management activities in support of clinical trials for the Department of Hematology Oncology, including interaction with researchers, clinicians, and administrators. You will work with Principal Investigators to establish policies and procedures to ensure Good Clinical Practice; interpret and ensure consistent application of policies; lead or direct related projects, supervise personnel, being sure they are trained and adhere to proper work practices. Additionally, you will develop and institute proper quality control measures, and ensure that all processes are performed in the most efficient, high quality manner and assist Principal Investigators in developing continuing reports for the Institutional Review Board. Requirements include: M.S. in a natural science or related field or comparable academic training and 6 years experience conducting clinical trials in either industry or an academic setting. Working knowledge of Good Clinical Practice, and 4 years related supervisory/managerial experience required.

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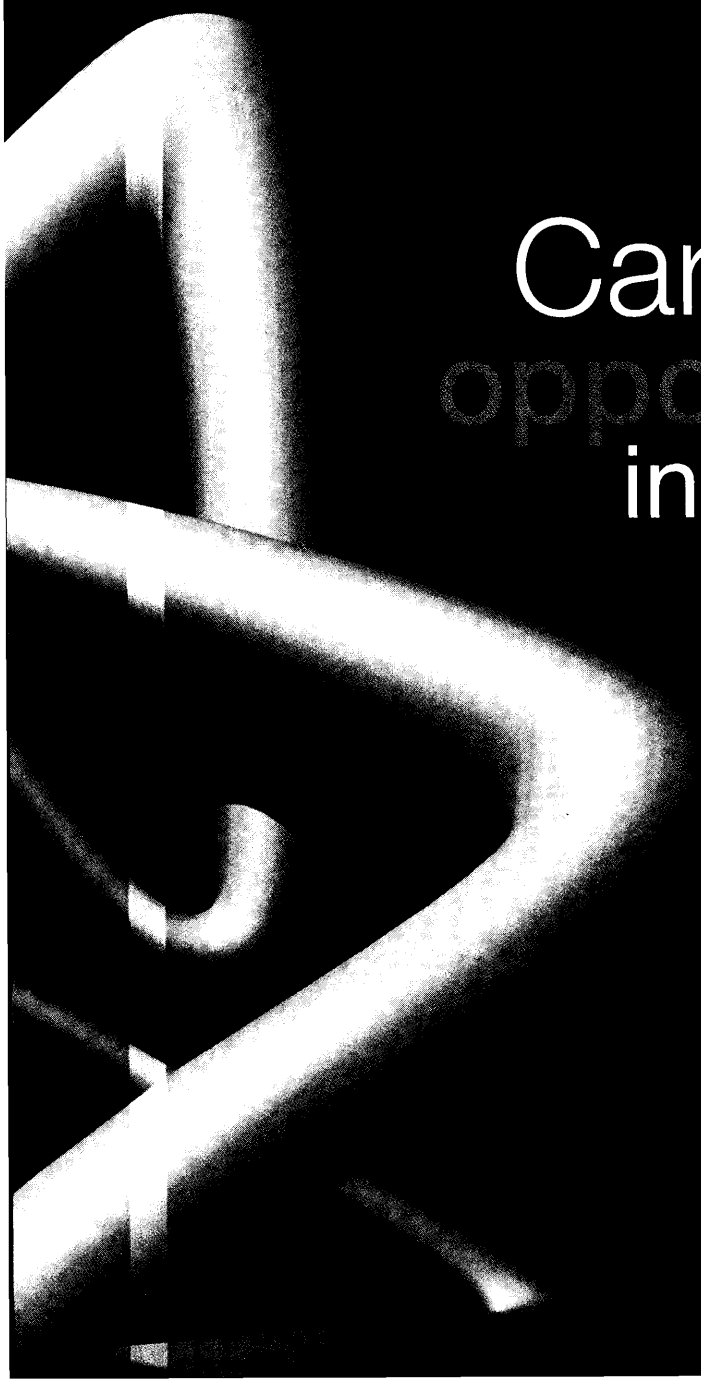

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Studying the signaling pathway implicated to have a novel role in atherosclerosis, you will define the expression profile of one or more genes from this pathway in unique *in vitro* models and vascular tissues using a variety of techniques including TaqMan quantitative RT-PCR and immunohistochemistry. To study the function of these genes, you will prepare expression and reporter constructs and perform transfection experiments in vascular endothelial cells. You must have a PhD in Biology, Molecular Biology or related discipline and excellent interpersonal and problem-solving skills. A background in vascular biology, molecular biology or immunohistochemistry is desired, as is a good publication record. This is a one-year appointment with potential for a second year renewal. Job #: XHXIPD-001

Scientist

Cloning, expressing, purifying and characterizing immune cell receptors and their ligands to support receptor antagonist projects, you will develop receptor-ligand binding and functional assays suitable for drug discovery proposals. A majority of your responsibilities will be focused in the lab and you will participate in and lead project teams. You should have a PhD, 1-2 years of post-doctoral training and experience in receptor biology and immunology. Proficiency in MS Word, Excel and Lotus Notes is essential. You should be creative and independent with excellent problem-solving and communication skills. Knowledge of current chemical technology and the ability to maintain accurate laboratory records are required. Job #: XHX01-00731

Enjoy a unique work environment while you apply science to redefine life. At Berlex, you'll also find competitive salaries and a generous benefits package. For immediate consideration, please visit our website at **www.berlex.com** and apply online. If you mail your CV/resume, you must include the Job Code with XHX and mail to: **Berlex, HR Employment, 15049 San Pablo Ave., Richmond, CA 94804-0099**. EOE.

BERLEX

Communications

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The world looks to the Stanford Linear Accelerator Center (SLAC) for world-class research in high-energy physics and synchrotron radiation programs. On behalf of the Department of Energy, the SLAC performs experimental and theoretical research that has the potential to alter the way we interact with the basic forces of the universe. To make certain all aspects of our story see the light of day, we are seeking a:

Director of Communications

Leading a staff of 10-15, will organize and lead the communications effort at the Laboratory. Reporting to the Head of the Laboratory, this individual will develop and implement policies and strategic directions for internal and external communications in support of the Laboratory's scientific and educational mission. This position will require you to have vision and experience with the management of all aspects of SLAC's internal and external communications. You will also develop and manage community and media relations to employee communications.

Requires 5+ years' management experience in a complex and diverse environment, preferably a scientific research environment; advanced knowledge of communications principles/methods; experience in media relations and conducting press conferences; excellent interpersonal and written/verbal communications skills; and a Master's in Communications, PR, Journalism or the equivalent.

SLAC offers competitive compensation and excellent benefits. Please send resumes to: **SLAC, Attn: Employment, 2575 Sand Hill Rd., Menlo Park, CA 94025, M/S 11, Fax: 650-926-4999**.

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SLAC

Alberta Cancer Board

Research Scientist & University Faculty Position Cross Cancer Institute, Edmonton, Alberta

Applications are invited for a position as Research Scientist in Experimental Oncology at the Cross Cancer Institute (CCI) and as a faculty member at an academic level commensurate with the applicant's experience in the Division of Experimental Oncology in the Department of Oncology at the University of Alberta (U of A). The CCI, operated by the Alberta Cancer Board (ACB) and affiliated with the U of A, is the comprehensive cancer treatment and research facility serving Edmonton and Northern Alberta. The U of A Department of Oncology is based at the CCI and has six Divisions: Experimental Oncology, Medical Oncology, Medical Physics, Palliative Medicine, Radiation Oncology, and Surgical Oncology.

Applicants require a Ph.D. and/or M.D. and must have an established research program, or have demonstrated outstanding potential to develop a research program, in cellular and molecular biology in an area related to cancer. Areas of particular interest are molecular pathology, gene therapy, signal transduction, cell differentiation and tumor suppressor genes. The successful candidate will devote approximately 75% of time to research and will be expected to apply for career and establishment funding from provincial and national agencies. The initial appointment will be for a four-year term and remuneration will be in accord with the U of A salary scale. Laboratory and office space will be in the 40,000 ft^2 research wing of the CCI with access to excellent multiuser facilities, including flow cytometry, confocal and video imaging microscopy, automated DNA sequencing, protein isolation, recombinant DNA technology, microarray technology, ACB Provincial Proteomics and Genomics Initiative and small animal experimentation. Information on the research programs of Experimental Oncology can be found at the Department of Oncology's website (**http://www.ualberta.ca/~oncology**).

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada although others are encouraged to apply. The CCI is a smoke-free workplace. Applicants should submit their curriculum vitae, a synopsis of previous and proposed research, and list of three referees to Experimental Oncology Search Committee, c/o Dr. David Murray, Director, Division of Experimental Oncology, Cross Cancer Institute, 11560 University Avenue, Edmonton, Alberta, T6G 1Z2. Applications will be reviewed as received until an appointment is made.

Our aim is to employ the most able people worldwide, because their commitment, motivation and skills are crucial to our corporate success.

Our Pharma Research Center CNS Institute in Wuppertal, Germany, is expanding the Molecular Department within the CNS Institute. The open positions are aimed to support our efforts in the disease modifying approach for Alzheimer's Disease. In addition to the standard day to day in-house drug hunting work, your task will also be to work and communicate effectively with our external collaborators. The overall goal is to optimally feed the various components into our existing drug developing pipeline machinery. We have several open positions at the Lab Head, PostDoc as well as technical level.

Scientists / Postdocs

You have obtained a Ph.D. in either neuroscience, biochemistry or biology. You should have at least two years experience in neurobiology, ideally in our field of interest i.e. Alzheimer's Disease and will have experience in protein/protein interactions, signal transduction pathways, bioinformatic analysis and you will be familar with commonly used molecular and cell-biological techniques. Experience in cellular or enzyme assay development is of advantage.

We are also looking for Ph.Ds in biology, pharmacology, behavioral pharmacology or an M.D. or V.M.D. You should have at least two years experience with the behavioral testing of transgenic mice and/or with lesion models in mice and/or rats that are relevant for therapeutic approaches for the AD. You will further characterize and utilise our various transgenic APP, PS1 mouse mutants which develop Alzheimer-like neuropathology and behavioral deficits. Experience with in vivo drug treatments and basic biochemical analysis and proven ability to manage a laboratory group is an advantage.

Further on we invite recent university graduates (biologists, pharmacologists, psychologists or veterinarians) to apply for additional postdoctoral and technical positions which are all aimed to support above described laboratories.

We offer you a generous package of performance-related pay together with the excellent opportunities for personal and professional development you would expect from a major company such as Bayer.

If you are attracted to the challenge of fulfilling our requirements in this role, please send us your informative c.v. containing all relevant details (including copies of school and university certificates) quoting reference number 2687. Application via email is encouraged. For more details please contact Dr. Gerhard Koenig, E-Mail: gerhard.koenig.gk@bayer-ag.de

Bayer AG, Hochschulmarketing
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MRC Laboratory of Molecular Biology

Post Doctoral Research Fellow

We are seeking a recently qualified post doctoral research fellow to undertake research on development of technologies for cancer therapeutics. The work will involve developing new methods for isolation of inhibitors of protein interactions, such as intracellular antibodies, and studying their effects on tumour viability and growth.

Candidates should have a PhD in the area of molecular biology and experience of DNA manipulation, protein expression and purification and tissue culture. Experience in transfection of cells, FACS analysis and fluorescence microscopy would be an advantage. A knowledge of the molecular biology of chromosomal translocations and of cancer biology would also be an advantage.

The appointment will be financed by a grant from the Kay Kendall Leukaemia Fund and will be for a period of one year in the first instance and three years in total. The starting salary is likely to be in the range of £18,000 - £22,000 per annum within MRC Band 4. This will be supported by a flexible pay and reward policy and an MRC Pension Scheme.

Applications, including two copies of a full CV, the names and addresses of two professional referees should be sent quoting reference PNAC/201/4 to Philippa Hall at recruit@mrc-lmb.cam.ac.uk or alternatively send to MRC Centre, Hills Road, Cambridge CB2 2QH.

Closing date: 16 March 2001.

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nature structural biology

seeks an **ASSISTANT EDITOR**

Nature Structural Biology, a leading monthly journal from the publishers of *Nature*, publishes high-quality papers in all fields relating to the cellular function of biological macromolecules as analyzed by molecular biological, biophysical and biochemical techniques. Further information about the journal may be found on our web site at http://www.nature.com/nsb.

Nature Structural Biology has a temporary position available for an Assistant Editor. The successful applicant will start in June, as support for the editorial team during an editor's leave of absence, and work full-time in our Manhattan office for six months. This is an exciting opportunity to participate in running a major scientific journal without making a long-term commitment, and the experience gained would be a substantial asset for anyone looking to obtain an editorial position at another journal, possibly within the Nature Publishing Group. Applicants should have a strong research background in structural biology, molecular biology or biochemistry, a broad interest in science, excellent literary skills, and a strong interest in the communication of scientific ideas.

The successful candidate will participate in all aspects of the editorial process, including manuscript selection, commissioning and editing News and Views and Reviews, and writing for the journal. The job also involves attending scientific meetings, and maintaining contact with the international scientific community. The new editor will join our small team of editors within the larger publishing group that also produces *Nature Genetics*, *Nature Medicine*, *Nature Biotechnology*, *Nature Neuroscience* and *Nature Immunology*.

Please submit a curriculum vitae, a short (500-1000 words) News and Views-style article on an exciting and newsworthy recent development in any relevant scientific area, and a cover letter explaining your interest in the position to The Editor, *Nature Structural Biology*, 345 Park Avenue South, New York, NY 10010 (fax: 212-679-0735; e-mail: nsb@natureny.com). Applications should arrive as soon as possible, and **no later than 15 March 2001.**

VACCINE RESEARCH CENTER
National Institute of Allergy and Infectious Diseases
National Institutes of Health
Seeking Postdoctoral Candidates for Non-tenure Track Staff Scientist and Research Fellow Positions

The Vaccine Research Center (VRC) was recently established to conduct multidisciplinary research that facilitates effective vaccine design, production and testing. Activities in the Center include: 1) basic research on mechanisms of inducing long-lasting protective immunity against HIV and other pathogens that present special challenges to vaccine development, 2) the conception, design, and preparation of vaccine candidates for HIV and other microorganisms, and 3) laboratory analysis, animal testing and clinical trials of such candidates.

Postdoctoral candidates are eligible to participate in the NIH AIDS Research Loan Repayment Program. See http://lrp.info.nih.gov or call 1-800-528-7689 for details. The following investigators are currently soliciting applicants for postdoctoral positions:

Daniel Douek, MRCP, Ph.D. Analyzing T-cell immune responses in humans. Our laboratory will study the effect of therapeutic and prophylactic HIV vaccines on T-cell responses, and the reconstitution of T-cell immunity in HIV infection and after transplantation.

Phillip L. Gomez, Ph.D. Designing manufacturing processes to produce candidate vaccines for clinical trials, including DNA and adenoviral systems. Process development work involves the construction and optimization of expression systems, purification development, and the development of formulation methodologies.

Barney Graham, M.D., Ph.D. Viral immunology, pathogenesis and vaccine evaluation through analysis of the role of cytokines in virus-induced disease and immunity. Other studies include virus-cell interactions and identification of mechanisms for interfering with virus entry. Dr. Graham also directs the clinical studies performed by VRC investigators.

Richard Koup, M.D. Fine dissection of the T-cell response in HIV-infected individuals, in order to define defects in the immune response during natural infection. Testing the ability of therapeutic vaccination to alter virologic control in HIV-infected subjects by developing vaccines that will boost the specific cellular responses that are defective in HIV-infected subjects.

Peter Kwong, Ph.D. X-ray crystallography: application of structural biology to the design of an effective HIV vaccine.

John Mascola, M.D. Antibody-mediated neutralization of HIV and vaccine strategies to target antigen presenting cells. The core virology laboratory supports vaccine center studies via development of quantitative methods to monitor viral neutralization on CD4 T-cells, macrophages and dendritic cells.

Gary J. Nabel, M.D., Ph.D. Basic and applied research to develop vaccines for AIDS and other emerging viruses, optimization of vaccine vectors, and analysis of immune response and correlates of protection in animal models. Other areas of study address mechanisms of viral gene regulation and T-cell activation.

Mario Roederer, Ph.D. Understanding the roles and interactions of the individual components of the mature central and mucosal immune system, with a particular eye toward the changes occurring during acute or chronic antigenic challenge.

Robert Seder, M.D. Current research efforts are divided into two major areas: 1) defining the requirements for long term cellular memory (Th1 and CTL memory) in vivo, and 2) using cytokines and/costimulatory molecules as vaccine adjuvants for infections requiring cellular immunity (HIV, M. tuberculosis, Leishmania).

Richard Wyatt, Ph.D. Using immunological, biophysical and crystallographic information to characterize the structure and function of the HIV-1 envelope glycoproteins gp120 and gp41. Such information will be utilized as a basis to rationally design and develop HIV-1 candidate vaccines capable of eliciting broadly neutralizing antibodies.

More information may be found at our website: http://www.vrc.nih.gov/VRC/. For consideration, please submit a CV and a brief statement of research interest to the appropriate investigator at: Vaccine Research Center/NIAID/NIH, Building 40, Room 4502, 40 Convent Drive MSC 3005, Bethesda, MD 20892-3005.

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SULTAN QABOOS UNIVERSITY
Dean
COLLEGE OF AGRICULTURE

Sultan Qaboos University, the National University of the Sultanate of Oman, invites applications for the Dean of College of Agriculture.

College of Agriculture has seven departments, and delivers courses at undergraduate and master's levels in the following disciplines: Agricultural Economics and Rural Studies, Animal and Veterinary Sciences, Bioresource and Agricultural Engineering, Crop Sciences, Food Science and Nutrition, Marine Science and Fisheries and Soil and Water Sciences.

The incumbent will provide leadership for the overall organization and administration of teaching, research and service activities of the College. The successful candidate is expected to develop, improve, promote and stimulate quality and relevant academic programmes in the College and to provide leadership, active participation in curriculum development and inspiration to the staff and students to pursue high standards of learning and scholarship. The incumbent is responsible for the selection, training, assignment and evaluation of personnel; planning and budgeting for facilities and equipment; recommending the hiring, promotion, termination and discipline of staff; liaison with relevant colleges in the University and government agencies and private sectors; exploiting extramural support and collaborative research; and implementing research and extension projects and disseminating research funding.

Applicants should possess a Ph.D. degree in agriculture related fields from a reputable university, with professional credentials of a high order, sufficient to meet the criteria for full professorship. Proficiency in spoken and written English is required. Candidates with at least 10 years of experience in a full-time appointment of the academic and management staff of a recognized and reputable academic institution, who have demonstrated a professional growth and potential for leadership, are desirable. Experience in the management of agricultural experiment station of food-processing plants is preferred.

Commensurate with qualifications and experience, salaries are paid free of tax in Oman. The University provides free furnished accommodation, an allowance to cover electricity, water and gas, and free medical treatment in Government Hospitals in Oman, for self and family within Oman. There is a contribution to school fees for up to two children. Round-trip airfare is paid annually for leaves of incumbent, spouse and up to three children under 18 years to the international airport closest to the applicant's permanent residence. Annual leave is 60 days. Rolling contracts are offered and end of service gratuity based on years of service (maximum 12 years entitlement) is paid.

Interested candidates are requested to submit a letter of application and full resume, quoting our Ref.ADV/AGRI/01/01 to:

The Director, Personnel Affairs,
Sultan Qaboos University,
P.O.Box 50, Al-Khod - 123, Sultanate of Oman
Email :personel@squ.edu.om
OR nair@squ.edu.om

THE ROBERT A. SILVER CHAIR
for research in
NEURODEVELOPMENTAL DISORDERS
affecting the behavior of children

The University of South Florida is seeking applications from qualified individuals for the Robert A. Silver Endowed Chair for research in developmental disorders that affect the behavioral or mental well-being of children. The successful applicant will also serve as Director of the Neurodevelopmental Disorders Research Laboratory at the University's recently established Center for Infant and Child Development. This is a tenure-earning position which is expected to be filled at the Professor or Associate Professor level.

The focus of the chairholder's scientific activity is expected to include studies aimed at discovering cellular and molecular mechanisms involved in the development of the central nervous system and the role that these play in the etiology, course and treatment of disorders that affect the mental well-being or behavior of children.

Applicants should possess an M.D. or Ph.D. degree, or the equivalent, and have a record of nationally recognized research and accomplishment related to understanding the structure and function of the developing central nervous system and mechanisms that can cause these processes to go awry. They should also have demonstrable skill and experience as an independent investigator and a record of relevant publications and external grant support, as well as evidence of leadership, administration and teaching skills. A minimum of five years of experience at the rank of Assistant Professor or equivalent is required for appointment as Associate Professor.

Salary is negotiable, commensurate with experience. Interested individuals should forward a current CV and three letters of recommendation to: **Anthony Reading, M.D., Sc.D., Chair, Robert A. Silver Search Committee, 3515 E. Fletcher Avenue, Tampa, Florida 33613. Inquiries may also be made by phone: (813) 974-3470, Fax: (813) 974-2478, or email: areading@hsc.usf.edu.** Applications must be received by March 30, 2001. *USF is an EO/AA/EA institution. For disability accommodations contact M. Tavrell at (813) 974-4657 at least 5 working days in advance. According to Florida law, applications and meetings regarding them are open to the public.*

University of South Florida
USF

nature medicine

seeks an **ASSISTANT EDITOR**

Nature Medicine is a leading monthly journal from the publishers of *Nature*, which publishes high-quality papers in all areas of biomedical research, including immunology, infectious diseases, cancer, neuroscience, gene therapy, stem cell biology, and cardiovascular biology....and provides a highly visible forum for communicating important advances to a broad readership. Further information about the journal may be found on our web site at http://www.nature.com/nm/

Nature Medicine has a temporary position available for an Assistant Editor. The successful applicant will start in May, covering for a current editor's leave of absence, and work full-time in our Manhattan office for six months. This is an exciting opportunity to participate in running a major scientific journal without making a long-term commitment, and the experience gained would be a substantial asset for obtaining a permanent editorial position, possibly within the Nature Publishing Group. Applicants should have a strong research background in biomedical sciences (Immunology preferred), a broad interest in biomedical sciences, excellent literary skills, and a commitment to the communication of scientific ideas.

The successful candidate will participate in all aspects of the editorial process, including manuscript selection, commissioning and editing Commentaries and Reviews, and writing for the journal. The job also involves attending meetings in the US and abroad, and maintaining contact with the international scientific community. Our new editor will join our small team of editors within the larger publishing group that also produces *Nature Genetics, Nature Neuroscience, Nature Biotechnology, Nature Structural Biology* and *Nature Immunology.*

Please submit a curriculum vitae, a short (500-1000 words) News and Views-style article on an exciting and newsworthy recent development in any area of biomedical research, and a cover letter explaining your interest in the position to The Editor, *Nature Medicine*, 345 Park Avenue South, New York, NY 10010 (fax: 212-6835751; e-mail: medicine@natureny.com). Applications should arrive as soon as possible, and **no later than 8 March 2001**.

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If you are a top researcher in your field, here is an opportunity to advance your career among world-class colleagues and gain access to top graduate students and state-of-the-art research facilities. The Government of Canada is investing $900 million to support the establishment of 2,000 Canada Research Chairs in Canadian universities by 2005.

Our plan is to maintain and augment the critical mass of researchers at Canadian universities in the natural sciences, engineering, health sciences, social sciences and humanities.

Tier I Chairs have a seven-year renewable term and will be offered to researchers acknowledged to be leaders in their fields. Tier II Chairs are five-year Chairs, renewable once, which will be offered to researchers who are acknowledged to have the potential to lead in their field. Canada Research Chairs are open to Canadians as well as non-Canadians.

For program information and links to Canadian universities, visit the Canada Research Chairs Web site at **www.chairs.gc.ca**.

CANADA RESEARCH CHAIRS
CHAIRES DE RECHERCHE DU CANADA

Canada

Scientist Bioinformatics

The Biosciences Division at Argonne National Laboratory is seeking qualified applicants in bioinformatics to fill a principal investigator position in a multidisciplinary program involving the development of new technologies for structural and functional genomics. We are seeking candidates with an interest in conducting fundamental research in the computational analysis of protein structure and function, utilizing both sequence and three-dimensional structure information. Research activities may include analysis of protein similarities and function, modeling structural homologies, and the prediction of three-dimensional structure from sequence. Applicants should have a Ph.D. in biochemistry, biophysics, computer science, or a related field and significant experience in computational approaches to the evaluation of protein structure and function.

The Biosciences Division is developing a highly interdisciplinary and collaborative environment for genome-scale analysis of protein structure and function with a focus on Structural Genomics and its use in developing a comprehensive understanding of the function of gene products and their contribution to cell function.

For further information, please contact **Lee Makowski, Director, Biosciences Division (lmakowski@anl.gov)**.

Interested candidates should submit curriculum vitae, at least three reference names and addresses, and a short statement of their qualifications with particular relevance to the knowledge, skill and experience requirements cited above to **Susan Walker, Box BIO-300998-43, Argonne National Laboratory, 9700 S. Cass Avenue, Argonne, IL 60439**.

For additional information or to submit your resume, please visit our website at **http://www.hr.anl.gov/employment.htm**. Argonne is an affirmative action/equal opportunity employer.

ARGONNE NATIONAL LABORATORY · UNIVERSITY OF CHICAGO

Sigfried and Janet Weis Center for Research

Geisinger Clinic

Staff and Senior Scientists

The Weis Center for Research is seeking outstanding candidates for Staff Scientist (equivalent to Assistant or Associate Professor) and/or Senior Scientist (equivalent to Professor) positions. We are seeking candidates with proven records of accomplishment in conducting innovative research at the molecular, cellular or genetic level. While applicants working in all areas will be considered, individuals whose research is in the areas of cardiovascular biology, cancer biology, or neuroscience will be given preference. Applicants should have a Ph.D. and/or M.D. degree and two or more years of postdoctoral training. Candidates for Senior Scientist positions are expected to have a history of extramural funding. Physician candidates are eligible for joint appointment in an appropriate clinical department. The Weis Center for Research is located on the campus of the Geisinger Medical Center, a tertiary care teaching hospital. The medical center is located in an attractive semi-rural community that affords an outstanding quality of life plus convenient access to major metropolitan areas. Substantial resources are available for start-up and ongoing research support. Qualified individuals should submit curriculum vitae, statement of research interest and the names and addresses of three references to: **Ms. Kristin Gaul (DJC), Sigfried and Janet Weis Center for Research, Geisinger Clinic, 100 North Academy Avenue, Danville, PA 17822-2600**.

St. Jude Children's Research Hospital

ALSAC • Danny Thomas, Founder

POSTDOCTORAL POSITION IN IMMUNOLOGY

Positions are available for enthusiastic, hard-working individuals to work in one of the following areas:

1) The regulation of T cell homeostasis by LAG-3.
2) TCR:CD3 structure, signaling & downmodulation (*Immunity* 12: 665, 2000).
3) T cell receptor recognition of MHC:peptide complexes (*Immunity* 7: 387, 1997).

You should have a PhD and/or MD, a solid understanding of basic immunology, and practical experience in molecular biology, cellular immunology, biochemistry or structural studies.

St. Jude Children's Research Hospital has a highly interactive research environment and state-of-the-art facilities including core laboratories for proteomics, microarray analysis of gene expression, transgenic/knock-out technology, etc. The Immunology Department, chaired by Dr. Peter Doherty, consists of eight faculty and 50 support staff. Competitive stipends are available as well as a benefit package that includes professional developmental funds for journal subscriptions and travel.

Send a CV with the names of three references (postal and E-mail addresses, phone and FAX numbers) and an outline of your past accomplishments and future career aspirations to:

Dr. Dario Vignali
Department of Immunology
St. Jude Children's Research Hospital
332 N. Lauderdale
Memphis, TN 38105
Tel: 901-495-2332
FAX: 901-495-3107

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In the past three years, we have taken major steps in achieving our mission by:

- Completing a draft sequence of the *Arabidopsis thaliana* genome
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- Bringing together a team of exceptional professionals at all levels

It is with growing amazement that we realize what we have accomplished... and what is still left to do. That's why we seek more innovators with a focused sense of urgency and a healthy sense of wonder to join us, keep our impressive momentum going, and make the future of genomics technology happen!

COMPUTATIONAL BIOLOGISTS

Responsibilities include working with bench scientists to analyze large sets of research data. Requires a Master's or Ph.D. in Biology or related field, programming skills (PERL, C, Java), database experience (relational, SQL queries), and a proven ability in analyzing large volumes of biological data using computational approaches. Communication skills, creativity, initiative and teamwork are essential to success. **Job Code: 71-01SW**

RA - DATA ANALYST SPECIALIST

Responsible for analyzing and processing sequence data for polymorphism discovery, validation, and genotyping assay development. Requires experience in PCR, molecular biology, and computing skills (UNIX, phred, phrap, pangea, and PERL). Background in plant genetics helpful. **Job Code: 8500-11SW**

LEAD/SENIOR PROCESS ENGINEERS

Responsible for implementing high-throughput processes for profiling large and small molecules in plants. Closely collaborate with project teams in IT, automation and plant genomics to develop new analytic methods and efficient processes to carry out assays, including microarray-based transcriptional profiles. Requires a BS/MS Engineering degree, 7+ years' industry experience, strong project management skills, and a solid understanding of computer applications in the biotech industry. Experience in process engineering or manufacturing, and a strong interest in biology preferred. **Job Code: 87-03SW**

VB/VBA PROGRAMMER

Responsibilities include working with multiple project teams, along with automation engineers and IT support, to develop solutions for in-lab data handling, robctics programming, and robot-LIMS interfaces. Requires demonstrated skill as a Visual Basic programmer, flexibility, and a strong team orientation. Experience in a biology lab setting or with lab robotics is a strong plus. **Job Code: 87-02SW**

STATISTICIAN - MASTER'S LEVEL

Responsibilities include working closely with senior statisticians to support genetic mapping and QTL studies; data management and analysis; report generation and statistical programming using software packages such as Splus and SAS. Requires a Master's degree in Statistics or Biostatistics. A background in genetics or other area of biology is desirable. Must be organized, detail-oriented, have excellent written and oral communication skills and be able to work well as part of a team. **Job Code: 74-02SW**

STATISTICIANS - FUNCTIONAL GENOMICS

Responsibilities include working closely with other statisticians to support large-scale forward and reverse genetic approaches to studying gene function, including transcriptional and metabolic profiling; consulting on experimental design and analysis and developing approaches for exploring large data sets. Requires a Master's or Ph.D. in Statistics or Biostatistics, experience in computer programming and use of software packages (Splus and SAS) for data management, statistical analysis, and experimental design. Expertise in multivariate analysis and a background in biology are desirable. Must be organized, detail-oriented, have excellent communication skills and be able to work well as part of an interdisciplinary team. **Job Code: 88-01SW**

Please send your resume, indicating Job Code, to:
Attn: Recruiter, Cereon Genomics, LLC
45 Sidney Street, Cambridge, MA 02139
Phone: (617) 551-8297; Fax: (617) 551-1990

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Transforming Agriculture
To Meet The World's Food Needs

syngenta

Researchers at Syngenta (formerly Novartis and Zeneca Agribusiness divisions) in **Research Triangle Park, NC,** are committed to integrating the disciplines of genetics, genomics, molecular biology, chemistry and biochemistry in support of the company's worldwide Crop Protection and Seeds businesses. This is your chance to make a significant contribution to world agriculture in our casual dress, 280 person, state-of-the-art biotechnology research facility.

Director of Bioinformatics/IS Applications

You will lead a group of bioinformatics and business applications professionals whose goal is to develop integrated software systems for our researchers. You will manage the planning, design, and development of scientific and/or business information processing systems, including developing computational sequence analysis methods for database searches. We are looking for an individual with extensive knowledge and experience with bioinformatics/ molecular biology and business systems applications. Project management skills and a demonstrated ability to lead a team are also essential. This position reports to local senior management. Position # 0112.

Technical Team Leader/ Molecular Biologist

You will join a team of research scientists who develop and implement high throughput molecular assays for nucleic acid and protein detection in transgenic plants. This position requires a minimum of 5 years experience with molecular biology techniques and a minimum of 1 year of experience in assay development. Experience in one or more of the following areas is also desired: laboratory automation, quantitative fluorescent PCR techniques, plant transformation systems, or marker assisted breeding. Candidates should also have a demonstrated ability to direct a small group of research scientists. PhD preferred, but candidates with a Master's or Bachelor's degree and significant experience are also encouraged to apply. Position # 0115.

Syngenta offers a competitive salary commensurate with experience, a comprehensive benefits package, and an environment conducive to professional achievement. For prompt consideration, e-mail your resume to **biotech.jobs@syngenta.com. Please indicate the position # in the subject area of the e-mail.** An Equal Opportunity Employer.

Combining Talents To Expand Our Vision.

Associate Director

GlaxoSmithKline joins together the talented people of Glaxo Wellcome and SmithKline Beecham to create the world's leading research-based pharmaceutical company. We're the market leader in four of the five largest therapeutic categories, with unrivaled global marketing strength and powerful R&D and Manufacturing capabilities supporting a research spend of $4 billion and sales of $24.9 billion annually. Best of all, the industry's greatest, most innovative minds are now assembled under one name. If your goal is to change the world with innovative medicines, now is the time to join our respected team. We currently have an opportunity available at our state-of-the-art suburban Philadelphia, PA facility.

You will be responsible for the strategic direction and scientific management of drug discovery programs in respiratory and inflammation research. You will also provide scientific leadership in identifying novel targets for pulmonary and inflammatory disease as you direct the efforts of a large group of PhD and BS/MS staff. We require a PhD in the areas of Pharmacology, Immunology, Biochemistry or a related field and a minimum of 10 years relevant experience. An outstanding record of scientific achievement and creativity in pulmonary research, as evident from recent publications and other tangible measures is also required.

GlaxoSmithKline is dedicated to an innovative workplace and supports you with career long opportunities and learning. We offer a competitive benefits and compensation package designed to attract and retain the very best. For confidential consideration and efficient processing, please mail your resume to: GlaxoSmithKline, Job Code: 01-0018, P.O. Box 40047, Philadelphia, PA 19106 or visit our website: www.gsk.com Indicating Job Code is essential. Principals only, no agencies please.

Developing talent through equality of opportunity, M/F/D/V.

gsk GlaxoSmithKline

At Progenics Pharmaceutical, we're dedicated to improving the quality of life. If you are ready to help us shape the future of the pharmaceutical industry, take advantage of the following opportunities at our state-of-the-art facility located in Tarrytown, NY, just 30 miles north of NYC:

SENIOR SCIENTIST
Clinical Process Development

Ph.D. in biological sciences or engineering with 3 years industry experience in clinical process development, optimization and scale-up in accordance with cGMPs. Highly motivated individual needed to lead a group responsible for both upstream and downstream processing of biologics. Proven management abilities and excellent written and oral communication skills are essential. Response Code: SS.

ASSOCIATE RESEARCH SCIENTIST
Immunology

Participate in studies to evaluate potency of novel immunotherapeutics for cancer and HIV; conduct experiments using primary human cells and animal models, and perform routine and novel assays to measure cellular immune responses. MS with 3 years industry experience, immunologic techniques, laboratory animals and mammalian cell culture. Hands-on experience with cellular immunologic assays including cytotoxicity (CTL), cell proliferation, ELISPOT, flow cytometry, and tetramer analysis. Knowledge of animal models of disease, and various vaccine delivery systems a plus.

We offer excellent benefits & generous stock programs. For immediate consideration, qualified candidates may send CV with salary requirements, indicating position desired to: **Progenics, HR Dept, P.O. Box 549, Tarrytown, NY 10591. Fax: 914-789-2863. E-mail: hr@progenics.com**

Visit us at www.progenics.com

Progenics
Pharmaceutical, Inc.

EQUAL OPPORTUNITY EMPLOYER

FACULTY POSITIONS IN MEDICINAL CHEMISTRY AND PHARMACOGNOSY

The Department of Medicinal Chemistry and Pharmacognosy, College of Pharmacy, University of Illinois at Chicago, invites applications and nominations for several full time, tenure track positions at the assistant, associate, or full professor level. A Ph.D. degree in medicinal chemistry, pharmacognosy, natural products or organic chemistry or a related pharmaceutical discipline is required. A minimum of two years postdoctoral experience is necessary, and a background in pharmacy in desirable. The successful candidate(s) will be required to develop a strong, extramurally funded, independent research program that complements existing programs in the department, and foster collaborative interactions with other faculty. Teaching in the professional and graduate programs of the College of Pharmacy is required. Candidates should send a curriculum vitae, a brief research plan and the names of three references to:

Dr. Norman R. Farnsworth, Chair,
Search Committee
Department of Medicinal Chemistry and Pharmacognosy
College of Pharmacy (M/C 877)
University of Illinois at Chicago
833 South Wood St.
Chicago, IL 60612-7231
e-mail: norman@uic.edu

Review of applications will begin April 1, 2001, and continue until suitable candidates have been identified. *The University of Illinois is an Equal Opportunity/Affirmative Action Employer.*

Infinite Discoveries Unparalleled Opportunities

The pharmaceutical market is rapidly changing; evolving and maturing everyday as new ways and tools are being developed to improve the quality of human life. Ideas, outstanding performance and the growth and caring of our people are at the core of our value system. Our future is in the hands of the individuals who make up our company.

RESEARCH SCIENTIST/SR. RESEARCH SCIENTIST

The position requires a person with a strong knowledge of in vivo models and in vitro methods for the study of metabolic diseases, including obesity and diabetes. Expertise with associated biochemical and molecular biology assays is important. The person hired must be able to communicate and work well with others. The position requires interacting with individuals and groups from many departments. An extensive knowledge of pharmacology and physiology is desired. Good oral and verbal communication skills and supervisory experience are required. Ph.D. with post-doctoral experience and 1-3 years pharmaceutical company experience preferred.

Our commitment to our employees includes an excellent salary and a comprehensive benefits package. To apply, please forward your cover letter and resume to: **DuPont Pharmaceutical Company, Attn. Human Resources - AMS, Experimental Station, E400/2413, Route 141 and Henry Clay Rd., Wilmington, DE 19880; e-mail: AMSresume@dupontpharma.com.** An Equal Opportunity Employer.

DUPONT

DuPont Pharmaceuticals Company

PENN
UNIVERSITY of PENNSYLVANIA

POSTDOCTORAL SCIENTIST
Pathology and Laboratory Medicine

A Postdoctoral Scientist skilled in Molecular biology is required to join a team developing micro-fabricated devices for diagnostic applications.

The team has considerable experience in design, construction and testing of microchip devices and seeks a productive scientist to help develop high-throughput methods of cancer detection based on microchip technology. Experience in design and construction of micro-devices using photolitnography is desirable but not essential. Experience with cell isolation and quantitative methods of analysis would be an advantage.

Applicants should possess a Ph.D. degree and relevant postdoctoral experience. Applications and inquiries should be addressed to:

Dr. P. Wilding or Dr. L. Kricka
Dept. of Pathology and Laboratory Medicine
University of Pennsyvania Medical Center
3400 Spruce Street
Philadelphia, PA 19104
Ph 215-662-6575 Fx 215-662-7529

SINE MORBUS

THE UNIVERSITY OF PENNSYLVANIA IS AN EQUAL OPPORTUNITY/ AFFIRMATIVE ACTION. EMPLOYER. WOMEN AND MINORITY CANDIDATES ARE ENCOURAGED TO APPLY.

Faculty Positions in Cancer Research
LSU Health Sciences Center

The Stanley S. Scott Cancer Center at LSU Health Sciences Center in New Orleans invites applications for positions at the Assistant, Associate, or Professor level. Candidates should possess a Ph.D. or M.D. degree and have demonstrated excellence in their research as indicated by publications and a track record of externally funded research grants. The successful applicants will be expected to pursue an independent, yet collaborative approach, addressing broad issues that relate to oncologic science. Research interests in prostate cancer and/or tumor immunology are encouraged but not required.

The search will give full consideration to applications that include a curriculum vitae (including funding grant history), four representative publications, and the names of three individuals that may be contacted for letters of reference.

A joint appointment in the Cancer Center and an appropriate Department of Basic or Clinical Science at the LSU Health Sciences Center is anticipated. The individual Department will be dependent on the successful applicant's expertise and interest. Laboratory space will be provided in a new facility in the heart of the Health Sciences Center complex.

Interested candidates should submit their curriculum vitae to **Dr. Oliver Sartor, Director, Stanley S. Scott Cancer Center, Suite 4E1, 533 Bolivar Street, New Orleans, Louisiana 70112.**

LSUHSC is an Equal Opportunity/Affirmative Action Employer.

SMITH COLLEGE

PRESIDENT

The Presidential Search Committee seeks nominations and applications for the presidency of Smith College. Individuals must be of exceptional professional and personal distinction, with experience and accomplishments that demonstrate the capacity to serve as chief academic and administrative officer of the college.

Smith College is the largest private liberal arts college for women in the United States. The college is endowed with outstanding resources and facilities, a distinguished faculty, and a rich curriculum. It has a nationally renowned graduate School for Social Work, a newly established program in engineering, and is a member of the Five College Consortium, a collaboration of four area colleges and a university.

Screening of candidates will begin in February 2001 and will continue until an appointment is made. Please send nominations and applications to:

Mary Patterson McPherson, Chair
Presidential Search Committee
The Gables
23 Round Hill Road
Northampton, MA 01063

We are being assisted in this search by **Shelly Weiss Storbeck of A.T. Kearney, Inc., Tel. 703-739-4613, Fax 703-518-1782 E-mail shelly.storbeck@atkearney.com**

Smith College is an equal opportunity employer encouraging excellence through diversity.

MSSM

MOUNT SINAI SCHOOL OF MEDICINE

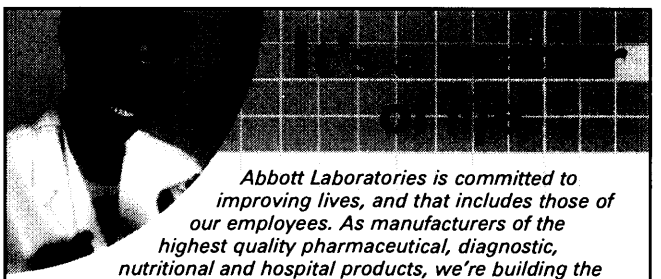
FACULTY POSITIONS

Derald H. Ruttenberg Cancer Center

The Derald H. Ruttenberg Cancer Center of the Mount Sinai School of Medicine is seeking tenure-track faculty at the Assistant or Associate Professor level to expand the cancer biology program of a developing comprehensive cancer center. Areas of interest include, but are not limited to:

Molecular phenotyping; targeting of tumors
Tumor metastasis; angiogenisis
Cell cycle/DNA repair
Breast, prostate or gastrointestinal cancer

The Cancer Center offers state-of-the-art laboratory space, competitive funding and compensation packages. Ph.D's, M.D.'s, and M.D./Ph.D's should submit curriculum vitae, a brief description of research accomplishments and future directions along with the names of 3 references by April 5, 2001 to: **Search Committee, Mount Sinai School of Medicine, Derald H. Ruttenberg Cancer Center, Box 1130, One Gustave L. Levy Place, New York, NY 10029. Phone: (212) 659-5400. Fax: (212) 987-2240. E-mail: DHRCCSEARCH@mssm.edu.** EOE



Abbott Laboratories is committed to improving lives, and that includes those of our employees. As manufacturers of the highest quality pharmaceutical, diagnostic, nutritional and hospital products, we're building the world's premier healthcare company. Share our vision for a healthier world and put more of what matters in life into your career.

SENIOR RESEARCH CELL/ MOLECULAR BIOLOGIST

Utilize genomic information/bioinformation to discover and validate new targets in metabolic diseases such as diabetes and obesity. Successful candidates will possess a Ph.D. in the Biological Sciences and 3+ years' postdoctoral experience in molecular mechanisms of metabolic diseases. Experience in applying bioinformatics and molecular biology to novel target identification and validation, demonstrated proficiency with current cloning and expression techniques and fluency with sequence and expression analysis tools are also essential.

Discover a future filled with refreshing challenges, friendly faces and growth opportunities for the long term. Qualified applicants please forward your resume, indicating **AD CODE: 2K-LMH3137** to: **Abbott Laboratories, 100 Abbott Park Road, D-0583, AP9A-LL, Abbott Park, IL 60064. Fax: 847-938-6816.** Or, visit our web site at **www.abbott.com/career** for more information on how to apply.

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www.abbott.com

National Health Research Institutes

128, Yen-Chiu-Yuan Road, Sec 2, Taipei 115, Taiwan, ROC

http://www.nhri.org.tw

Director, Division of Clinical Research

(Concentrates on Infectious Diseases)

NHRI, a newly established, non-profit research organization, cordially invites qualified individuals to apply for the Director position in the Division of Clinical Research. The Director will be responsible for planning, developing, coordinating, and implementing the Division's intramural research programs. The ideal candidate should hold an M.D. and/or Ph.D. degree with a strong background in infectious disease research.

Successful candidates should possess an excellent scientific background as well as outstanding research administration skills. A proven track record of leadership in clinical or basic research is required, with emphasis in virology, bacteriology, immunology and/or microbial diseases specifically relating to people in Taiwan. Candidates are also expected to be familiar with the scientific community in Taiwan, proficient in the Chinese language, and capable of working effectively in the current research environment. Salary will be highly competitive with comparable positions in Taiwan.

Application should include:

(1) A letter of intent
(2) Curriculum vitae and publication list
(3) A copy each of five representative publications
(4) Five Recommendation letters

Apply to: President Cheng-Wen Wu **(ken@nhri.org.tw)**

Address: National Health Research Institutes
128 Yen-Chiu-Yuan Road, Sec II
Taipei 11529, Taiwan, R.O.C.
NHRI Web site – http://www.nhri.org.tw
Tel: 886-2-2651-3712; Fax: 886-2-2651-3742

Closing Date: April / 30 / 2001

EAWAG

HEAD, DEPARTMENT OF FISH BIOLOGY/ECOLOGY

EAWAG Switzerland

We seek a mid-career scientist with international stature to lead a newly consolidated Department of Fish Biology/Ecology. The long-term goal of the new department is to develop a strong academic profile at the international level while maintaining the fisheries expertise needed within Switzerland. The successful candidate should have a broad overview of the field and must have attained excellence on a research topic within the field. Specific research expertise could be in population biology, community ecology, genetics, evolution, or some other topic dealing with freshwater fishes.

The Swiss Federal Institute for Environmental Science and Technology (EAWAG) is a research institute specializing in basic and applied science with water as the central focus. The EAWAG is affiliated with ETH Zürich, the leading university in Switzerland. EAWAG doctoral students receive the Ph.D. degree through ETH. Excellent opportunities for collaboration with other disciplines (e.g., limnology, microbiology, ecotoxicology, chemistry) are available with scientists from other EAWAG departments. The Fisheries Science Department will be based at the Limnological Research Center in Kastanienbaum, a well-equipped facility situated in an idyllic location on the shores of Lake Lucerne.

Applicants must possess a Ph.D. degree and a track record in scientific excellence and experience directing successful research initiatives. Peer-reviewed publications are considered the strongest evidence of active research contribution to the discipline.

Send a letter of application, CV, list of publications, and the names (address/phone/fax/e-mail) of four references not later than **March 31, 2001** to: **Prof. A.J.B. Zehnder, Director, EAWAG, Ueberlandstrasse 133, CH-8600, Duebendorf, Switzerland.**

GLOBAL OPPORTUNITIES

Fellowship Program for Postdoctoral Research in Japan

In
Scientific, Technical, Engineering,
and
Medical fields
at National Research Institutes

Details available on web site:
http://stafellow.jst.go.jp/index.html

or

Department of International Affairs
Japan Science and Technology
Corporation (JST)

POSITIONS OPEN

VICE CHANCELLOR OF RESEARCH
University of California, Santa Cruz

The University of California, Santa Cruz (UCSC), invites nominations and applications for the position of Vice Chancellor of Research (VCR).

We are looking for a person with vision, creativity, and energy who can provide leadership to our institution and its faculty as we expand upon the excellence of our research programs and increase our research partnerships with industry and with other research institutions.

A successful VCR candidate must have a strong record of leadership in research and scholarship and have the academic credentials appropriate for appointment as a **PROFESSOR** in the UC system. The candidate must have a successful record as an administrator and have been involved in the development of collaborative research ventures such as large-scale research programs and partnerships between universities and industry. The candidate must have a demonstrated ability to work with state and federal agencies as well as private research foundations.

For a detailed description and application guidelines, see **website: http://www2.ucsc.edu/ahr/vcr.html**. Review of applications has begun and will continue until the position is filled. Letters of nomination and applications should be submitted in confidence to:

Dr. Leslie A. Sunell, Assistant Chancellor
University of California, Santa Cruz
296 McHenry Library
Santa Cruz, CA 95064
E-mail: lasunell@cats.ucsc.edu

The University is being assisted by **Shelly Weiss Storbeck**, Managing Director, and **Alberto Pimentel**, Director of the A. T. Kearney, Inc., Search Consultants. Inquiries and nominations can be addressed to them at: **A. T. Kearney, Inc., 333 John Carlyle Street, Alexandria, VA 22314. Telephone: 703-739-4627; FAX: 703-518-1782; e-mail: alberto.pimentel@atkearney.com**. *UCSC is an Equal Employment Opportunity/Affirmative Action Employer.*

BIOTECHNOLOGY
APPLERA CORPORATION

At APPLERA Corporation, we're committed to ensuring that biological information plays a pivotal role in the future of medicine and the well-being of humankind. From genomic information to instrument systems, we enable science for life. We are currently recruiting at all levels for the following positions in various locations including Foster City, San Jose, and Pleasanton, California:

SCIENTISTS AND ENGINEERS: DNA sequencing projects, research and development, genetic analysis, bioinformatics, and molecular microbiology.

SALES ENGINEERS: Product specialists, mass spectrometry sales specialists, sales and market development for protein analysis instrumentation products. Work at various customer sites: Illinois and Midwestern states, California and Western states, Colorado and Rocky Mountain states.

Interested candidates should **e-mail** their résumé to: **Pecorpad@resume.isearch.com** or send your résumé to: **APPLERA Corporation, Human Resources Department, 850 Lincoln Centre Drive, Foster City, CA 94404. FAX: 650-638-5874**. For more information on these and other career opportunities, visit our **website: www.pecorporation.com**.

APPLERA Corporation is an Equal Opportunity Employer and welcomes diversity in the workplace.

Biology: **FULL-TIME FACULTY** to teach anatomy and physiology, genetics, cell biology, and introductory biology. Courses may include upper-level or honors course in candidate's specialty. Also serve as academic advisor to preprofessional biology majors. Ph.D. required. Send letter of application, curriculum vitae, and transcripts to: **Director of Human Resources, Marian College, 45 South National Avenue, Fond du Lac, WI 54935**. *Affirmative Action/Equal Employment Opportunity.*

POSITIONS OPEN

COLUMBIA UNIVERSITY'S BIOSPHERE 2
ANNOUNCES
FACULTY POSITION FOR EARTH SEMESTER PROGRAM

Earth System science, open rank. Columbia University will expand its Arizona campus education programs over the next five years. The Earth Semester is a 16-credit, interdisciplinary undergraduate program in Earth System science and policy held at Columbia's Biosphere 2 Center in Oracle, Arizona. Faculty appointments are made through Columbia's Department of Earth and Environmental Science. We are currently seeking a teacher/scholar in the area of Earth System science. We are especially interested in candidates with a background in climate or geohydrology. Teaching and postdoctoral experience are desirable. The appointment will be made at the **ASSISTANT, ASSOCIATE,** or **FULL PROFESSOR** level depending on experience and will begin July 2001. A letter of interest highlighting the applicant's educational philosophy and research interests and names of three references should accompany curriculum vitae. Materials for all positions should be sent to: **Human Resources, Biosphere 2 Center, P.O. Box 689, Oracle, AZ 85623** by March 15, 2001. Review of applications will occur on a rolling basis, so applicants are encouraged to send materials early. *Columbia University is an Equal Opportunity Employer. Minorities and women are encouraged to apply.*

PHARMACOLOGY FACULTY POSITION: A new full-time position at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level is available in the growing Department of Pharmacology of the College of Medical Sciences at Nova Southeastern University. The candidate's responsibilities will include participation in the team-taught pharmacology courses to students in medical, dental, optometry, and physician assistant programs. The program requires a Ph.D. in pharmacology or an M.D. Individuals with teaching experience or interests in autonomic, cardiac, and renal pharmacology and/or antimicrobials and chemotherapeutics are particularly encouraged to apply. Although primarily a teaching position, opportunities to engage in research do exist. The College of Medical Sciences is located in the new Health Professions Division facility on the Ft. Lauderdale campus, which is only 15 minutes from the beach. We offer competitive salaries dependent upon qualifications and outstanding benefits. Please send, FAX, or e-mail a letter of interest; curriculum vitae; copies of graduate transcripts; and the names, addresses, and telephone numbers of three references to: **Position Number 996132, Nova Southeastern University, Office of Human Resources, 3301 College Avenue, Ft. Lauderdale, FL 33314. FAX: 954-262-3813; e-mail (in MS Word or Word/Note Pad format): nsujobs@nova.edu; website: www.nova.edu**. *Affirmative Action/Equal Opportunity Employer.*

The Department of Pediatrics at the University of Louisville is seeking a **RESEARCH ASSISTANT PROFESSOR**. The faculty member will participate in a new basic science group using molecular biology approaches to understand mechanisms underlying neuronal vulnerability and tolerance to hypoxia. This group is well funded by the NIH and located in beautiful new laboratories. The applicant will be expected to carry out research and write grants. This position may be converted to tenure track if the individual is successful in obtaining extramural grant funding. Competitive salary and benefits are proposed in addition to a generous start-up package.

Send or e-mail curriculum vitae and names of three references to: **David Gozal, M.D., Children's Foundation Chair for Pediatric Research** and **Professor, Department of Pediatrics, University of Louisville School of Medicine, 570 South Preston Street, Suite 321, Louisville, KY 40202-1788. E-mail: d0goza01@gwise.louisville.edu**. *Affirmative Action/Equal Employment Opportunity.*

POSITIONS OPEN

FINFISH HEALTH/TOXICOLOGY
Southern Illinois University Carbondale

The Department of Zoology invites applications for a 12-month, tenure-track **ASSISTANT PROFESSOR** position in finfish health/toxicology with 75% research in the Fisheries and Illinois Aquaculture Center and 25% teaching. Possible research specialties may include (but are not limited to) fish toxicology, fish health related to environmental stressors, and fish immunobiology. Applicants should have demonstrated skills in experimental design and statistical analyses. The Department seeks a Researcher to complement strengths in aquaculture, aquatic ecology, ichthyology, fish genetics, and wildlife ecology. Modern research facilities and start-up funds are available. The successful candidate will be expected to develop an externally funded research program, supervise M.S. and Ph.D. students, and teach undergraduate and/or graduate courses in his/her specialty and/or others related to the Fisheries/Aquaculture Center and the Department of Zoology. Candidates must have a Ph.D. in an appropriate field with a record of peer-reviewed publications and scholarly accomplishments commensurate with experience and demonstrated grant success or strong evidence of funding potential. Preference will be given to applicants with postdoctoral experience and membership in the American Fisheries Society. Position begins 16 August 2001. Applicants should send curriculum vitae, statement of teaching and research interests and plans, copies of transcripts, representative reprints, and have three letters of reference sent to: **Dr. Christopher C. Kohler, Fisheries and Illinois Aquaculture Center, Southern Illinois University Carbondale, Carbondale, IL 62901-6511.** Review of applications will begin on 23 March 2001 and continue until the position is filled. Information about the Department, university, and center can be found at **websites: http://www.science.siu.edu/zoology** and **http://131.230.57.1/fishweb/coopfish.htm**. E-mail inquiries should be directed to the Search Committee Chair; **e-mail: ckohler@siu.edu.** *SIUC is an Affirmative Action/Equal Opportunity Employer.*

FACULTY POSITIONS
ELECTROPHYSIOLOGY/MOLECULAR CARDIOLOGY

The Molecular Cardiology Program of the Cardiology Division of Cornell University Medical College is seeking three outstanding full-time basic research-oriented faculty members for appointments in the tenure track at the **ASSISTANT** or **ASSOCIATE PROFESSOR** levels. Candidates must have M.D., Ph.D., or M.D./Ph.D. degree(s) and a track record of investigative excellence in areas related to cardiovascular biology. Successful candidates will receive attractive start-up packages and will join a multidisciplinary team devoted to molecular cardiology. Applicants should have substantial expertise in either ion channel electrophysiology, mouse genetics, or integrated physiology. Applicants should send a statement of research interests and curriculum vitae to: **Bruce B. Lerman, M.D., Chief, Division of Cardiology, Cornell University Medical Center, 525 East 68th Street, Starr 4, New York, NY 10021**. *Cornell is an Equal Opportunity Employer.*

ASSISTANT PROFESSOR of entomology, agroecosystem insect ecology. Full-time tenure-track position available September 1, 2001, to establish a nationally competitive research program in quantitative insect community ecology in an agroecosystem setting. Teaching expectations include graduate courses in insect population ecology and insect community ecology. Send curriculum vitae, copies of major publications, statement of research and teaching goals, transcripts, and have three letters of recommendation sent to: **Chair, Community Ecologist Search Committee, Plant Sciences Unit, 1-41 Agriculture Building, University of Missouri, Columbia, MO 65211**. Screening will begin May 1, 2001. See **website: CAFNR.missouri.edu/plantscience/entomology** for details. *Equal Employment Opportunity/Americans With Disabilities Act/Affirmative Action Employer.*

New Research Initiative-Endocrine Pancreas/Beta Cells-Tenure Track Positions

The Diabetes Branch of the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), National Institutes of Health (NIH) invites applications for tenure track positions for scientists in research involving the endocrine pancreas/beta cells of the islets of Langerhans. Specific areas of research interest includes: pancreatic islet stem/progenitor cells; beta cell development; regulation of beta cell gene expression; and beta cell signaling. Priority will be given to applicants at the Assistant Professor level at traditional universities or those finishing their post-doctoral positions. The applicant must have a proven record of accomplishments and will be expected to propose and pursue and independent research program in one of these fields. These positions offer unparalleled opportunities for interdisciplinary collaboration within NIDDK and throughout NIH.

The Diabetes Branch of NIDDK is located on the main intramural campus of the NIH in Bethesda, Maryland, a suburb of Washington, D.C.

Interested applicants should send a Curriculum Vitae and a list of publications, copies of three major publications, a summary of research accomplishments, a plan for future research and three letters of recommendation to:

Dr. Jumien Dean, Chair, Search Committee, Laboratory of Cellular and Developmental Biology, NIDDK, Building 6, Room B1-28, NIH, Bethesda, MD 20892. The closing date for all applications to be submitted is **March 30, 2001**.

NIH is an Equal Opportunity Employer

Postdoctoral Position

Postdoctoral Position at Memorial Sloan-Kettering Cancer Center available from April 1, 2001 to study histone deacetylase and inhibitors of the enzyme; control of gene expression; induction of transformed cell differentiation/apoptosis; and effects on tumor growth in animal models. Experience in molecular and cell biology is desirable. This is a lab based research program that has developed agents currently in clinical trials for cancer treatment. PhD and/or MD required. Applicants should submit curriculum vitae and names of three references to: **Dr. Paul Marks, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, New York, NY 10021; Fax 212-639-2861; E-mail: PaulA_Marks@mskcc.org.** EOE/AA.

Memorial Sloan-Kettering Cancer Center
The Best Cancer Care. Anywhere.

Myriad Genetics, Inc. is a biopharmaceutical company focused on the development of therapeutic and diagnostic products that are based on the use of genomics and proteomics technologies. Myriad has enjoyed many successes, including the discovery of the breast and ovarian cancer predisposition genes BRCA1 and BRCA2 and the establishment of ProNet™, the premier protein interaction database. In the area of proteomics, Myriad has established strategic alliances with Bayer, Hitachi, Pharmacia, Roche, and Schering AG.

Expansion of Myriad's Proteomics Facilities

Myriad recently launched ProSpec™, a mass spectrometry-based proteomics platform, as a complement to our existing ProNet™ program. These proteomics programs are focused on the application of protein interaction technologies on an industrial scale. Our goal is to understand, in great detail, the interactions that occur within the human proteome. Our efforts also include the analysis of plant proteomes. We are currently aggressively expanding both the ProNet™ and ProSpec™ programs and seek motivated research associates to lead a variety of efforts within these two proteomics groups.

1-209H-Research Associate - Plant Science

A great opportunity for plant biologists to enter the new field of agricultural proteomics! To complement our current programs in crop genomics, Myriad is initiating a new program to define protein-protein interactions that dictate important plant functions. The successful applicant will have a BS or MS degree and at least 2 years of laboratory experience, plus a background in plant biology. Molecular biology experience also is essential.

1-209I-Research Associate - Molecular Biology

Our proteomics group has developed the ProNet™ and ProSpec™ processes for the study of protein interactions. We are seeking several motivated individuals to participate in the development of new methodologies to study protein/protein interactions and to implement existing technologies. The successful applicant will have a BS or MS degree and at least 2 years of laboratory experience employing molecular biology techniques including, but not limited to, PCR, DNA/RNA isolation, cDNA synthesis, DNA cloning, and plasmid growth and isolation. Knowledge of the yeast two-hybrid system is advantageous.

1-209J-Research Associate - Protein Biochemistry

Myriad's newly created ProSpec™ proteomics program includes a protein biochemistry group. We are looking for individuals skilled in protein expression and purification. The successful applicant will have a BS or MS degree and at least 2 years of laboratory experience in protein expression, purification, and analysis. Molecular biology experience also is helpful.

1-209K-Research Associate - Cell Culture

Myriad's ProSpec™ proteomics program also includes a team specializing in cell culture techniques. We are currently looking for applicants with experience in protein expression using either mammalian or insect cell culture systems. In addition, individuals with expertise in conducting cell culture-based assays will be part of this team. The successful applicant will have a BS or MS degree and at least 2 years of laboratory experience in eukaryotic cell culture.

1-209L-Research Associate - Genetics

The ProNet™ program is searching for clever individuals with a background in the genetics of model organisms to participate in the development of new genetic strategies. Experience in the genetics of model systems such as yeast, Drosophila, or C. elegans is required. The successful applicant will have a BS or MS degree and at least 2 years of laboratory experience in a model genetic system as well as a thorough understanding of molecular biology techniques.

Our facilities are located in Salt Lake City at the foot of the Wasatch Mountains, close to a wide variety of cultural and recreational facilities. We offer an attractive compensation package and a stimulating, interactive environment. Please send, fax, or e-mail your letter of interest specifying the position, a complete resume, and the names of three professional references to:

Myriad Genetics, Inc. Attn: Human Resources, 320 Wakara Way, Salt Lake City, UT 84108;

Fax: (801) 584-1144; humanres@myriad.com

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MYRIAD

POSITIONS OPEN

ASSISTANT PROFESSOR
DEPARTMENT OF PHYSIOLOGY
University of Florida College of Medicine

The Department of Physiology invites outstanding applicants for a tenure-track faculty position at the Assistant Professor level. The successful candidate will be expected to develop a strong, extramurally supported, independent research program in cellular and molecular physiology and complement current departmental strengths. These strengths include gene therapy for cardiovascular and other metabolic diseases, neuroendocrinology, developmental physiology, membrane physiology, and signal transduction. The Department is ranked high nationally in research dollars/faculty and excels in teaching professional and graduate students. The college has a Mammalian Genetics Center, Hypertension and Gene Therapy Centers, and Brain Institute. Salary is negotiable based on qualifications and experience. An excellent start-up package includes initial support from the Howard Hughes Medical Institute Biomedical Research Support Program for Medical Schools grant to the College of Medicine. Applicants must have a Ph.D., M.D., or equivalent, postdoctoral experience, and an excellent record of research productivity and quality. Submit curriculum vitae including a statement of research plans and names of at least three references to: **Mohan K. Raizada, Ph.D., Professor of Physiology and Chair of Search Committee, P.O. Box 100274, University of Florida College of Medicine, Gainesville, FL 32610-0274**. Application deadline: March 31, 2001. Anticipated start date: October 1, 2001. *The University of Florida is an Equal Employment Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

DEVELOPMENTAL BIOLOGIST: The Biology Department at California State University, Dominguez Hills, invites applications for a tenure-track faculty position at the rank of **ASSISTANT** or **ASSOCIATE PROFESSOR** starting August 2001. The successful candidate will be expected to teach undergraduate and graduate courses in a field of expertise, to participate in teaching introductory biology courses for majors and nonmajors, and to develop an externally funded research program involving the training of undergraduate and M.S. students. A Ph.D. in biology is required, and preference will be given to candidates with postdoctoral training and teaching experience in developmental biology, molecular/cellular embryology, and/or endocrinology. CSU Dominguez Hills is an urban, comprehensive public university of 12,000 students, with the second most diverse student body in the country. Review of applications begins in March 2001 and will continue until the position is filled. Send letter stating teaching and research interests and curriculum vitae with names, addresses, e-mail addresses, and telephone numbers of three references to: **John Roberts, Chair, Search Committee, Biology Department, CSU Dominguez Hills, Carson, CA 90747**. *An Equal Opportunity/Affirmative Action/Section 504/Title IX Employer.*

ASSISTANT PROFESSOR
Department of Nutritional Sciences

Rutgers, the State University of New Jersey, invites applications for a tenure-track Assistant Professorship in the Department of Nutritional Sciences to begin fall 2001. The successful candidate will be expected to develop an externally funded research program that addresses nutrition and the prevention of chronic diseases such as obesity, cancer, or osteoporosis; a focus on behavioral aspects or intervention strategies will be given highest priority. For more information, see **website: aesop.rutgers.edu/~nutrition**. Ph.D. and at least two years of postdoctoral experience required. Send curriculum vitae, a statement of research and professional interests, and names of three references to: **Susan K. Fried, Ph.D., Chair, Search Committee, Department of Nutritional Sciences, Rutgers University, 96 Lipman Drive, New Brunswick, NJ 08901-8525**. *An Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

DEPUTY COMMISSIONER FOR ENVIRONMENTAL HEALTH

Westchester County, New York, seeks a forward-thinking leader to be Deputy Commissioner for Environmental Health, serving a population of 900,000 persons residing in urban, suburban, and rural communities in a 450-square-mile, geographically diverse region immediately north of New York City. Responsible for administrative and technical aspects of environmental health operations including quality sanitation and engineering standards, emergency response planning, implementing policy, enforcement and regulation. Management of approximately 80 professional, technical, and administrative staff; budget of $5.5 million. Candidates must demonstrate an understanding of and experience in establishing community-based partnerships with advocates and industry to work collaboratively towards a healthy environment.

Eligible candidates must be familiar with environmental health regulations and issues and principles of public health sanitation and protection. Interested candidates must be able to communicate and work effectively with public officials, professional organizations, and private agencies on complex public health issues. Master's degree and six years of relevant experience.

Interested individuals are requested to submit their statement of qualifications to:

Maria Palumbo
Personnel Administrator
Westchester County Department of Health
145 Huguenot Street
New Rochelle, NY 10801

Equal Opportunity Employer.

FACULTY POSITION
CANCER

Texas Tech University Health Sciences Center (HSC) School of Pharmacy invites applications for a tenure-track faculty position at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level in the Department of Pharmaceutical Sciences. The Department is composed of 18 full-time faculty members with interests in biomedical and pharmaceutical research. Applicants must have a Doctoral degree and postdoctoral training experience. Competitive start-up packages and space are available. The School of Pharmacy is located in a new, more than 102,000- square-foot building on the Harrington Regional Medical Center in close proximity to the Amarillo campus of the Texas Tech School of Medicine and the Harrington Cancer Center. Visit our **website: http://pharmacy.ama.ttuhsc.edu.**

Applicants should submit curriculum vitae, a brief summary of research and teaching interests, and names and addresses of at least three references to: **Dr. Girish Shah, Chair, Search Committee, Texas Tech University HSC, School of Pharmacy, 1300 Coulter Drive, Amarillo, TX 79106. FAX: 806-356-4034; e-mail: girish@cortex.ama.ttuhsc.edu**. *Texas Tech University Health Sciences Center is an Equal Opportunity/Affirmative Action Institution. Minorities and women are encouraged to apply.*

Applications are invited for a **RESEARCH INSTRUCTOR** faculty position in the Department of Pathology at the University of Alabama at Birmingham. The successful candidate will join an active research group that studies T cell biology. Minimum requirements include a Ph.D. degree and at least three years of postdoctoral research experience. A strong background in molecular and cellular immunology will be a distinct advantage. There will be an opportunity for advancement to a tenure-track position commensurate with productivity in this position. Salary is very competitive. Interested candidates should submit a letter of interest and detailed curriculum vitae to: **Dr. Casey Weaver, Department of Pathology, University of Alabama at Birmingham, 720 Kaul Genetics Building, 720 20th Street South, Birmingham, AL 35294-0021**. *The University of Alabama at Birmingham is an Affirmative Action/Equal Opportunity Employer and welcomes applications from qualified women and minorities.*

POSITIONS OPEN

FACULTY POSITIONS IN BIOLOGY

Southern Polytechnic State University, a unique unit of the University System of Georgia, invites applications for a tenure-track **ASSISTANT/ASSOCIATE PROFESSOR** and a one-academic-year appointment for a **TEMPORARY ASSISTANT PROFESSOR**. Positions will begin August 2001. Applicants should be broadly trained in molecular biology, cellular biology, genetics, bioinformatics, microbiology, or a related field. Applicants are required to have a Ph.D. in the biological sciences and must be committed to excellence in teaching, maintain active scholarship, and have excellent oral and written communication skills. Responsibilities may include teaching introductory biology and developing undergraduate courses related to areas of interest. Also desired is experience in course and/or program development, advising students, scholarship suitable for undergraduate research, extramural sponsored projects, and collaborative research/scholarship. Screening of applications will begin 25 March 2001. The search will continue until the positions are filled. Submit letter of application including teaching philosophy and scholarship interests, curriculum vitae, and the names of three references to: **Biology Search Committee, Department of Physics, Chemistry, and Biological Sciences, Southern Polytechnic State University, 1100 South Marietta Parkway, Marietta, GA 30060. Website: http://www.spsu.edu**. *SPSU is an Americans With Disabilities Act and Affirmative Action/Equal Employment Opportunity institution.*

PHYSICAL OCEANOGRAPHY
Nova Southeastern University

The Oceanographic Center of Nova Southeastern University invites applications for a **FACULTY POSITION** in either observational or theoretical physical oceanography. The successful applicant will have the Ph.D. degree in oceanography or a related science and is expected to develop an externally funded research program after the first year. Supplemental support from the University amounting to as much as four month's salary per year may be provided for faculty carrying out research. Limited teaching opportunities are available at the graduate and undergraduate levels. Review of résumés will commence on March 1, 2001, and will continue until the position is filled. Hiring is subject to the Board of Trustees.

We offer competitive compensation and outstanding benefits. Applicants should submit curriculum vitae and statement of research and teaching interests to the attention of: **Dr. Alexander Soloviev, Chairman of the Search Committee, Position Number 999024, Nova Southeastern University, Office of Human Resources, 3301 College Avenue, Fort Lauderdale, FL 33314. FAX: 954-262-3813; e-mail (in MS Word or Word/Note Pad format): nsujobs@nova.edu; website: www.nova.edu**. *Affirmative Action/Equal Opportunity Employer.*

ASSISTANT PROFESSOR, ENTOMOLOGY AND NEMATOLOGY. The Florida Medical Entomology Laboratory of the University of Florida invites applications for a tenure-track position at the Assistant Professor level. Responsibilities include extension services and applied research in mosquito control and other aspects of medical entomology and development of short courses and material for public education. Further details about the position (Number 935440) can be found at **website: www.ifas.ufl.edu/~veroweb/**. The position requires an earned Ph.D. in entomology or related field with research and extension experience and strong communication skills. Candidates should submit a formal letter of application; current curriculum vitae including publication list; and the names and addresses (including e-mail and telephone) of at least three references by July 15, 2001, to: **Dr. J. F. Day, Chair, Search and Screen Committee, FMEL, University of Florida, 200 Ninth Street S.E., Vero Beach, FL 32962. Telephone: 561-778-7200, Extension 132; FAX: 561-778-7205; e-mail: jfda@GNV.IFAS.UFL.EDU**. *The University of Florida is an Affirmative Action/Equal Opportunity Employer and encourages women and minorities to apply.*

THE UNIVERSITY OF HONG KONG

香 港 大 學

The University of Hong Kong is one of the leading international comprehensive research universities in the Asia-Pacific region, with more than 100 teaching departments and sub-divisions of studies and learning, and more than 60 research institutes and centres. There is currently an enrolment of more than 17,000 students (6,500 at postgraduate level). Research students are from more than 48 countries. The medium of instruction is English. The University is committed to its vision of globalisation, together with excellence in scholarship and research.

Research Assistant Professorships and Post-doctoral Fellowships

Applications are invited for a number of positions as Research Assistant Professor (RAP) (Ref: RF-2000/2001-294) and Post-doctoral Fellow (PDF) (Ref: RF-2000/2001-295), tenable on or before 1 October 2001. Appointments will be made for a period of 2 to 3 years.

RAP and PDF posts are created by the University with the aim of injecting fresh impetus and vigour to the University's research enterprise, in order to complement and broaden its existing research expertise. Appointees are expected to bring in new research ideas and cutting-edge technologies.

Research Assistant Professors

The main focus of an RAP's duty is research. They can however be assigned teaching duties, up to 50% of the normal teaching load. Applicants should be research active and have a proven publication record. Appointments will be made usually on the first point of the 4-point salary scale HK$43,060, HK$46,190, HK$49,280 and HK$52,405 per month (approx. US$5,521, US$5,922, US$6,319 and US$6,719; US dollar equivalents as at 29 January 2001). A (taxable) financial subsidy towards rented accommodation, leave, medical and dental benefits, and an allowance for children's education in Hong Kong will be offered.

Post-doctoral Fellows

PDFs are expected to focus on research. Applicants should be PhD degree holders. Appointments will be made usually on the first point of the 4-point salary scale HK$30,785, HK$33,705, HK$36,940 and HK$40,500 per month (approx. US$3,947, US$4,321, US$4,736 and US$5,193; US dollar equivalents as at 29 January 2001). Annual leave, medical and dental benefits and an allowance for children's education in Hong Kong will be provided.

Where posts are held

A full list of the research areas and the departments or academic units in which the posts are recruited will be shown on the University's homepage at: **http://www.hku.hk/apptunit**

Procedures

Interested applicants are strongly advised to contact, in the first instance and prior to making an application, the Head of the appropriate department or academic unit to ascertain the level of posts available and to obtain information about current research initiatives and activities.

Applicants must submit a completed University application form, which should clearly state which position they are applying for; and in which academic discipline. Applicants who are applying for both positions should fill in two sets of application forms. They should also provide further information such as details of their research experience, publications, research proposals, etc.

Further particulars and application forms can be obtained on WWW at http://www.hku.hk/apptunit or from the Appointments Unit (Senior), Registry, The University of Hong Kong, Hong Kong (Fax (852) 2540 6735 or 2559 2058; E-mail: apptunit@reg.hku.hk). **Closes 3 March 2001**. Candidates who are not contacted within 3 months of the closing date may consider their applications unsuccessful.

The University is an equal opportunity employer and enjoys a smoke-free environment

TEMPLE UNIVERSITY
School of Dentistry

THE DONALD AND CECELIA PLATNICK PROFESSORSHIP
IN RESTORATIVE DENTISTRY

The Department of Restorative Dentistry at Temple University School of Dentistry is pleased to announce the establishment of the Donald and Cecelia Platnick Professorship in Restorative Dentistry. An internationally based search is now open to qualified candidates. The Donald and Cecelia Platnick Professor of Restorative Dentistry will provide a new dimension of leadership in research and scholarship within the Department of Restorative Dentistry.

Candidates should possess a dental degree, and preferably advanced education in materials science, operative dentistry, general dentistry, or prosthodontics. An advanced research degree (MS, PhD) is desirable. Previous funded basic or clinical research in materials science, restorative dentistry, or implant prosthodontics is required, along with a substantial record of publication in the peer-reviewed dental scientific literature. Documented excellence in clinical and/or didactic teaching is expected. Salary and academic rank will be commensurate with experience and qualifications.

Temple University School of Dentistry offers:

- **Potential for tenure track appointment**
- **Ongoing multidisciplinary research activities with excellent school and university-based support**
- **Modern facilities for basic clinical research**
- **Generous university research incentive policy**
- **Diverse multidisciplinary Department of Restorative Dentistry with 20 full-time and 36 part-time faculty**
- **Recognized 1st and 2nd Year AEGD Program in Department of Restorative Dentistry**
- **Predoctoral DentSim educational program**
- **Active research thesis-based MS in Oral Biology degree program at school (PhD program proposed)**
- **Outstanding computer infrastructure support from the school's Department of Dental Informatics**
- **Large urban patient population and state-of-the-art clinical facilities**

Interested applicants should send a cover letter indicating date of availability and curriculum vitae to: **Dr. Sarah Gray, Associate Dean for Academic Affairs and Chair, Search Committee, Temple University School of Dentistry, 3223 North Broad Street, Philadelphia, PA 19140.** Minority and female applicants are encouraged to apply. An equal opportunity/affirmative action employer.

DIRECTOR
HISTOLOGY LABORATORY
COMPREHENSIVE CANCER CENTER

We are seeking a Laboratory Director for an academic research histology and pathology facility. Requires knowledge of cellular and systematic histology and anatomy, immunohistochemistry, and a comprehensive knowledge of laboratory functions. You will be responsible for overseeing daily operations, organization, equipment maintenance, problem solving, and quality control. Expertise and technical competence in all aspects of histology is essential. In this leadership role, you will also participate in research and the development and implementation of initiatives in immunohistochemistry and molecular pathology to support our research efforts. The position offers excellent opportunities for career growth in an expanding program. Applicants must have an M.S., a strong interest in biomedical research, and a publication record. Certification in HT/HTL is desirable. Faculty appointment will be an **ASSOCIATE** in the Department of Pathology. To apply, please send application, curriculum vitae, and names and addresses of three references to: **Dr. Robert G. Russell, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, Histotechnology and Comparative Pathology Facility, Ullman Building, Room 1005, 1300 Morris Park Avenue, Bronx, NY 10461. E-mail: russell@aecom.yu.edu**. *Equal Opportunity Employer.*

BIOLOGICAL CONTROL ENTOMOLOGIST

Biological Control Entomologist, **ASSISTANT PROFESSOR**, tenure-track, Department of Entomology, Oregon State University, Corvallis. Position available 1 July 2001. Twelve-month; 80% research, 20% teaching. Requires Ph.D. in entomology or a closely related field with graduate or postdoctoral experience in biological control. The appointee will conduct research on predator-prey, parasitoid-host, or three-trophic-level interactions that advances knowledge of their role in natural and managed ecosystems; develop and implement biological control programs benefiting Oregonians; teach at undergraduate and graduate levels in pest management, biological control, or related areas; and cooperate with appropriate clientele in research and development of biologically based methods of arthropod pest management. Applicants should send a letter of interest; curriculum vitae; brief statement of research/teaching interests and experiences; reprints of no more than five relevant publications; and names and addresses of three references by March 30, 2001, to: **Dr. Peter B. McEvoy, Search Committee Chair, 2046 Cordley Hall, Oregon State University, Corvallis, OR 97331-2907. E-mail: mcevoyp@bcc.orst.edu**. Information about the Entomology Department and a position description can be found at **website: http//www.ent.orst.edu/**. *OSU is an Affirmative Action/Equal Opportunity Employer with a policy of being responsive to dual-career needs.*

FACULTY POSITION: BIOPHYSICS
Princeton University

The Physics Department at Princeton University anticipates an opening for a **FACULTY MEMBER** with a research program in biophysics. The appointment may be made at either the tenured or the nontenured level. Applications are especially invited from Physicists whose research program will strengthen the Department's participation in Princeton's planned multidisciplinary genomics research center. Interested applicants should send curriculum vitae and a description of their proposed research plan to: **Curtis Callan, Chair, Physics Department, P.O. Box 708, Princeton University, Princeton, NJ 08544.** Applicants should also have three reference letters sent to the same address. All application materials must be received by March 23, 2001. We are sorry that we cannot accept applications submitted by electronic mail. *Princeton University is an Affirmative Action/Equal Opportunity Employer and particularly welcomes applications from women and members of minority groups.*

POSITIONS OPEN

THE UNIVERSITY OF ARIZONA HEALTH SCIENCES CENTER

RESEARCH ASSOCIATES

Two NIH-funded **POSTDOCTORAL POSITIONS** available immediately at the Children's Research Center in the Department of Pediatrics at the University of Arizona in the laboratory of **Fayez K. Ghishan, M.D.** The qualified applicants will have a Ph.D. or M.D. and experience in molecular biology, cell biology, biochemistry, or related area. Competitive salary is negotiable and dependent upon experience. See Job Number 994052 at **website: www.hr.arizona.edu** for further details. To apply, please submit curriculum vitae and the names of three references to: **James F. Collins, Ph.D., Pediatrics/P.O. Box 245073, 1501 North Campbell Avenue, Tucson, AZ 85724. E-mail: jcollins@peds.arizona.edu**. Application review begins March 2, 2001, and continues until positions are filled. *The University of Arizona is an Equal Employment Opportunity/Affirmative Action Employer; Minorities/Women/Disabled/Veterans.*

RESEARCH ENTOMOLOGIST

The U.S. Department of Agriculture, Agricultural Research Service, is seeking a permanent full-time Research Entomologist (GS–11/12/13) to develop a field-oriented research program on the biological control of arthropod pests of nursery and greenhouse crops grown in the Pacific Northwest of the United States. The successful candidate will be a member of the USDA/ARS Horticultural Crops Research Laboratory located on the campus of Oregon State University. Possible areas of research emphasis include (1) discovery of microbial biological control agents for the management of arthropod pests, (2) population dynamics of microbial biological control agents and their target anthropod hosts, (3) assessments of host specificity of insect pathogens and evaluation of their nontarget effects, (4) investigations of the etiology of diseases of insect pests, or (5) development of culturing and formulation methods for delivery of microbial biological control agents to greenhouse and nursery systems. *U.S. citizenship* and appropriate qualifying education in entomology or a related discipline are required. A Ph.D. is highly desirable. Salary will be commensurate with experience ($43,326 to $80,279 per annum). For research program information, contact: **Dr. James Fisher; Telephone: 541-752-9456; e-mail: fisherj@bcc.orst.edu**. For specific application procedures and requiements, please call: **Ms. Beth Harrington; Telephone: 541-750-8707; e-mail: beth.harrington@orst.edu**. You may also obtain a copy of the vacancy announcement from the ARS **website: http://www.ars.usda.gov/afm/hrd/resjobs/index.html** under announcement ARS–X1W–1163. Applications must be postmarked by March 30, 2000. *USDA/ARS is an Equal Opportunity Employer and Provider. Women and minorities are encouraged to apply.*

FACULTY POSITIONS
DEPARTMENT OF BIOTECHNOLOGY
YONSEI UNIVERSITY, SEOUL, KOREA

We invite applications for two tenure-track positions at any ranks in the field of bioinformatics/genomics beginning fall 2001. Successful candidates are expected to have Ph.D. and relevant postdoctoral experience in areas of bioinformatics, functional genomics, structural genomics, microarray technology, chemoinformatics, or computational (*in silico*) biology and develop an interdisciplinary genomics and bioinformatics group as a part of the rapidly expanding research community at Yonsei University. Please send curriculum vitae, research interest statement, and names of three references to: **Faculty Search Committee, c/o Dr. Chul-Soo Shin, Department of Biotechnology, Yonsei University, 134 Shinchon-dong, Seodaemun-ku, Seoul 120-749, Korea. Telephone: 02-2123-2885; FAX: 02-362-7265; e-mail: csshin@yonsei.ac.kr**. Review will begin in late March 2001 and will continue until the positions are filled.

POSITIONS OPEN

ASSISTANT PROFESSOR
DEPARTMENT OF NEUROBIOLOGY
Stanford University School of Medicine

The Department of Neurobiology invites applicants for the position of Assistant Professor. Preference will be given to applicants using innovative molecular, genetic, and/or cellular approaches to fundamental aspects of nervous system function or development. This tenure-track position offers outstanding scholarly and scientific resources and the opportunity to teach graduate and medical students with strong interest in neurobiology. The Department has a long tradition of excellence in neuroscience and is a focal point for interdisciplinary neuroscience research and teaching at Stanford. Applicants should submit curriculum vitae; bibliography; a brief (less than 500 words) description of research interests; and three letters of recommendation (electronically, if possible) no later than April 15, 2001, to:

Dr. Eric M. Shooter
Chair, Search Committee
Department of Neurobiology
Stanford University School of Medicine
299 Campus Drive
Stanford, CA 94305-5125
E-mail: skluge@Stanford.edu

Stanford University is committed to increasing representation of women and members of minority groups on its faculty and particularly encourages applications from such candidates.

ASSISTANT/ASSOCIATE PROFESSOR
DIABETIC OPHTHALMIC DISEASE
Columbia University

The Department of Ophthalmology and the Naomi Berrie Diabetes Center of the College of Physicians and Surgeons invite applications for a tenure-track **ASSISTANT** or **ASSOCIATE PROFESSORSHIP**. Ph.D. and/or M.D. required with an extensive background in research in one or more of the following areas: cell biology/signaling, molecular biology, genetics, structural biology, biochemistry. A strong publication record of research on the effects of diabetes on tissues of the eye is desirable. The selected candidate will be closely associated with a major medical school initiative in basic and clinical research in diabetes. Applicants should submit curriculum vitae, a description of research plans, copies of two key publications, and names and addresses of three references to: **Dr. Abraham Spector, Research Director, Department of Ophthalmology, College of Physicians and Surgeons, Columbia University, 630 West 168th Street, New York, NY 10032. FAX: 212-305-6205; e-mail: as42@columbia.edu**. Review of applications will begin in April 2001 and continue until the position is filled. *Columbia University takes Affirmative Action to ensure Equal Opportunity.*

Computer Science. Marlboro College, an undergraduate liberal arts institution of 300 students and 39 faculty, invites applications from broadly trained, dedicated teachers for full-time, **TENURE-TRACK COMPUTER SCIENCE POSITION**. Ph.D.; field open. Required: Develop computer science curriculum that includes directing upper-level, often cross-disciplinary student work; work cooperatively with faculty from all liberal arts areas, including coteaching courses; college teaching experience. Send letter that addresses teaching philosophy, computer science background, interdisciplinary experience, transcripts, curriculum vitae, names of references to: **Dean of Faculty, Marlboro College, Marlboro, VT 05344** by March 9, 2001. Starts September 1, 2001. *Equal Opportunity Employer.*

Tenure-track faculty position at **ASSISTANT** or **ASSOCIATE PROFESSOR** level for a Ph.D. Muscle Biologist to conduct and supervise research in regulation of muscle growth and differentiation. Experience in cloning receptors, studies of gene expression, or gene mapping a plus. Attractive salary and research support. Curriculum vitae to: **Shalender Bhasin, M.D.; e-mail: Sbhasin@ucla.edu.**

the future
happens here first

Roche Bioscience

Roche Bioscience is committed to innovation in human pharmaceutical research. Our Palo Alto-based research units are focused on innovative breakthroughs in small molecule drug discovery and with our established product line and a healthy pipeline of products, we are positioned to move into the future.

RESEARCH SCIENTISTS
Arthritis/Biology

To support our anti-inflammatory drug discovery efforts, you will conduct in vivo efficacy models, as well as develop and implement new animal models of human disease, for existing programs as well as to validate novel targets for arthritis. You will contribute to multidisciplinary project teams, communicating results and participating in decision-making. You may supervise research associates and submit manuscripts for publication. Requires a PhD or equivalent in Pharmacology, Immunology or related field and 2+ years of relevant experience. Experience with in vivo models of inflammation and strong communication skills are essential. Cell culture experience is preferred. Job Code: 0223AB-SCI

RESEARCH SCIENTISTS
Biochemistry/Cell Biology

Participating in our arthritis therapy area, you will initiate new research programs and provide biochemistry and biology support. You will actively participate in developing novel research ideas, design experiments, analyze complex biological data, participate on multidisciplinary teams, and communicate results to senior scientists/management.

You may be called upon to supervise technical staff and publish data. Requires a PhD in Biochemistry, Cell Biology or related field and 4+ years experience. Knowledge of generic techniques in biochemistry, enzymology, molecular and cellular biology including assay development, cloning, expression, and cell culture is required. Experience in inflammation, immunology or cell signaling pathways preferred. Job Code: 0223BCB-SCI

We reward results by offering competitive salaries, incentive compensation and a full benefits package, which includes 401(k), pension plan and an on-site fitness center. If you would like to explore our opportunities firsthand, apply today by sending your resume, indicating appropriate Job Code, to us at Roche Bioscience, 3401 Hillview Avenue, A2-HR, Palo Alto, CA 94304. Fax to (650) 424-8159 or email paloalto.hr_staffing@roche.com. As an equal opportunity employer, we are committed to workforce diversity.

Visit our website for more information at
www.roche.com/bioscience.

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mayo

Mayo Clinic Arizona
Two Postdoctoral Positions
Asthma/Allergic Disease

Our laboratory has two postdoctoral positions available immediately to study molecular mechanisms of eosinophil effector function (production, activation, recruitment and granule protein activities) in mouse models of allergic inflammation. Ongoing projects focus on transgenic and gene knock-out models (*J Exp Med* 1997 185:2143; *J Immunol* 1997 158:1332; *J Immunol* 2000 165: 5509-5517) that permit targeted enhancement and extinction of reactive molecules and cell lineages. The successful applicants will join an established, interactive team with the specific goal of understanding the role of eosinophil granulocytes and their unique relevance to human diseases. Applications are invited from individuals with a Ph.D., M.D. or D.V.M. and research experience in molecular biology, hematology, or immunology. Previous experience with mouse models is not required, but would be considered an asset. The Mayo Clinic Arizona offers competitive stipends commensurate with experience and an excellent benefits package. Please send curriculum vitae and names of three references to: **Dr. James (Jamie) J. Lee, Department of Biochemistry & Molecular Biology, S.C. Johnson Medical Research Building, Mayo Clinic Scottsdale, AZ 85259. Email jjlee@mayo.edu. Fax 480-301-7017.** Further information is available at **http://www.mayo.edu.**

Mayo Foundation is an affirmative action and equal opportunity educator and employer.

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mayo

Mayo Clinic
Research Associate Positions

Five positions are available at the Rational Molecular Design Lab to develop therapeutic agents using new techniques in computational chemistry and combinatorial chemistry: two Ph.D.-level computational biologists with experience in molecular mechanics and/or quantum mechanics calculations of biological systems; a synthetic chemist with at least an MS degree and experience in synthetic chemistry; a biochemist or pharmacologist with at least an MS degree and experience in *in vitro* and *in vivo* testing of therapeutic agents; and a computer programmer with at least a BS degree and knowledge of parallel computing and statistical mechanics. Salary will be determined by the successful candidate's experience. There is also an attractive benefits package. Mayo Clinic is a non-profit physician led clinical practice integrated with education and research in a unified multi-campus system. Mayo Clinic has an annual research budget of more than $100 million. Applications including CV and three recommendation letters should be sent to:

Yuan-Ping Pang, Ph.D.
Mayo Clinic
Guggenheim 711A
200 First St. SW
Rochester, MN 55905
pang@mayo.edu
See also http://www.mayo.edu/research/

Mayo Foundation is an affirmative action and equal opportunity employer and educator.

MEHARRY
MEDICAL COLLEGE

MEHARRY MEDICAL COLLEGE
Seeks a Chairperson of the Department of Pharmacology

Candidates with research programs and a vision for collaborative research activities in cardiovascular disease, cancer, neuroscience, toxicology, and environmental health are particularly encouraged to apply. The Chairperson has the responsibility for the administrative functions of the Department, maintaining an active graduate program, and the fostering of research and educational activities by faculty. Meharry is committed to providing the financial resources necessary to attract a Chair with an outstanding record of achievement and leadership. Requirements for this position include a Doctorate (or equivalent degree) in pharmacology or a related discipline and a distinguished record of academic professional accomplishments and a strong publication record that qualify for appointment at the rank of **PROFESSOR**. The position is available July 1, 2001. Applicants should submit a letter of application describing their research focus and vision for promotion of departmental excellence in research and teaching, curriculum vitae, and three references. Send nominations and applications to: **Chair of the Search Committee, Maria F. Lima, Ph.D., Dean, Meharry Medical College, 1005 Dr. D.B. Todd, Jr. Boulevard, Nashville, TN 37208-3599**. *Meharry Medical College is an Equal Employment Opportunity/Affirmative Action/Americans With Disabilities Act Employer.*

FACULTY POSITION
VIROLOGY/IMMUNOLOGY/ IMMUNOGENETICS
University of Pittsburgh

The Department of Infectious Diseases and Microbiology of the Graduate School of Public Health, University of Pittsburgh, is seeking outstanding applicants for two tenure-track positions of **ASSISTANT** or **ASSOCIATE PROFESSOR** in molecular virology, immunology, or immunogenetics of HIV or other viruses. The Department is committed to continued development of a strong multidisciplinary program wherein molecular biology, immunology, and the genetic basis of viral disease are integrated with ongoing clinical, natural history, and vaccine studies. Candidates should have a Ph.D., M.D., or equivalent and sufficient experience to establish a funded independent research program. Salary and starting date are negotiable. Send curriculum vitae and names of three references to: **Charles R. Rinaldo, Jr., Ph.D., Chairman, A427 Crabtree Hall, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA 15261. Telephone: 412-624-1637; FAX: 412-624-4953; e-mail: rinaldo+@pitt.edu**. To ensure full consideration of all applicants, applications will be reviewed until the position is filled. Applicants for this position should refer to Job Numbers 009610/02296. *The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer.*

EXECUTIVE DIRECTOR OF FIELD STATIONS
College of Sciences, San Diego State University

Executive Director sought for the SDSU Field Station Programs. Individual is expected to be a skilled communicator, ambitious, a strategic thinker, knowledgeable in the area of database and information management, engaged in local preservation and land management efforts, and involved in emerging national and international programs and networks of scientific and environmental research and education. For further information and full job description, see **website: http://www.sci.sdsu.edu/BFS/.** Position will remain open until filled. *San Diego State University is an Equal Opportunity Employer.*

POSITIONS OPEN

ASSISTANT PROFESSOR OF BIOLOGY. Fixed term. Salary is competitive. Date of appointment is August 29, 2001. Responsibilities: Teach major introductory zoology, freshwater invertebrates, and advanced projects in biology. Other teaching responsibilities could include nonmajors general biology, people and the environment, comparative invertebrate anatomy, entomology, parasitology, and limnology and wetlands biology. The faculty member will be expected to conduct research with undergraduate and possibly graduate students. Duties will also include advising students and participating in departmental and university committees. *All applicants must be able to lawfully accept employment in the United States at the time of an offer of employment.* Qualifications: A Ph.D. in biology is required by August 30, 2001. Evidence of effective teaching ability is required. Application information: Send letter of application, curriculum vitae, graduate and undergraduate transcripts (official transcripts required at the time of appointment), and the names and telephone numbers of three references. Apply to: **Dr. Ranae Womack, Dean, College of Social and Natural Sciences, Bemidji State University, Box 27, 1500 Birchmont Drive N.E., Bemidji, MN 56601-2699**. Postmarked deadline is March 16, 2001, or until filled. *Bemidji State University is an Equal Opportunity/Affirmative Action Employer.*

TENURE-TRACK FACULTY POSITIONS
Cellular and Molecular Biology Research Group
Division of Basic Biomedical Sciences
University of South Dakota School of Medicine

Two state-supported tenure-track positions are available at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level. Preference will be given to applicants whose research falls into the general category of cellular growth control mechanisms. Applicants must have a Ph.D. and/or M.D. degree, postdoctoral experience, and the ability to develop an independent research program. The successful candidate will participate in the teaching of medical and graduate students. Rank and salary commensurate with qualifications. Competitive salary and start-up funds. Send curriculum vitae, statement of research plans, and three letters of reference to: **Carleen McNeely, Search Committee, Division of Basic Biomedical Sciences, University of South Dakota School of Medicine, Vermillion, SD 57069.** Consideration of applications will begin March 23, 2001, and will continue until positions are filled. *USD is an Equal Opportunity/Affirmative Action Employer. Women and minorities are especially invited to apply*

The Ophthalmology Department of the University of Nebraska Medical Center invites applications for an **ASSISTANT/ASSOCIATE PROFESSOR.** We are interested in someone to complement current research interests in glaucoma, retina, ocular pharmacology, lens biochemistry, stem cells, neuroscience, and development. Expertise in molecular genetics is particularly desirable. Send a description of research interests, curriculum vitae, and names and addresses of three references to: **Dr. Wallace B. Thoreson, Search Committee, Department of Ophthalmology, 985540 Nebraska Medical Center, University of Nebraska Medical Center, Omaha, NE 68198-5540. E-mail: wbthores@unmc.edu**. Review of applications will begin March 15, 2001. *Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.*

MOUSE BIOLOGIST

Primal Inc., a biotechnology company focusing on behavioral disorders, is seeking a Mouse Biologist for a **SENIOR SCIENTIST** position. Qualified individuals should have a M.D. or Ph.D. degree, at least three years of postdoctoral training, and extensive experience with blastocyst injection, morula aggregation, and the generation of knockout mice. Experience in establishing embryonic stem cell lines and in nuclear transfer is desirable. Please forward your résumé to: **Mouse Biologist Search Committee, Primal Inc., 1124 Columbia Street, Seattle, WA 98104. E-mail: mousebio@primalinc.com.**

POSITIONS OPEN

Applications are invited for the position of Senior Biostatistician, University of British Columbia Centre for Disease Control (UBC CDC). This is a grant, tenure-track position with the Faculty of Medicine, Department of Health Care and Epidemiology, to be appointed at the level of **ASSISTANT PROFESSOR** or above.

Applicants should possess a Ph.D. in biostatistics with a minimum of two years of postdoctoral experience or in statistics with significant experience in medical applications. Experience with UNIX, DOS, Windows, and Macintosh environments; statistical packages; and database programming using S-plus, SPSS, SAS, and SOL. A minimum of one year of programming/analysis in a biomedical work environment is preferred. The applicant should have a strong background in some of the following areas: genetics, health services research, clinical trials, Bayesian modeling, analysis of disease distribution, disease mapping, spatio-temporal models, and developing modeling procedures and methods of inference. Sound communications skills, excellent writing skills, and the ability to work effectively as a member of a multidisciplinary team are required.

Salary is commensurate with qualifications and experience. Position is to start on or about July 1, 2001. Deadline for applications: March 30, 2001. Please forward curriculum vitae, the names and addresses of three references, and applications to:

Shannon Scott
University of British Columbia
Centre for Disease Control
655 West 12th Avenue
Vancouver, BC V5Z 4R4
Canada
E-mail: shannon.scott@bccdc.hnet.bc.ca

UBC hires on the basis of merit and is committed to Employment Equity. We encourage all qualified persons to apply. In accordance with Canadian immigration requirement, priority will be given to Canadian citizens and permanent residents of Canada.

ASSISTANT PROFESSOR BIOLOGY

College Misericordia, a Catholic, coeducational, liberal arts and professional studies institution sponsored by the Sisters of Mercy of Dallas, is currently accepting applications for a full-time (10-month) tenure-track appointment as an Assistant Professor of biology. A Ph.D. in biology at time of appointment and expertise in botany is required. Candidates with experience in current methodologies are especially encouraged to apply. The successful candidate will be required to teach courses in botany and introductory biology and will be expected to develop upper-level plant science courses. A strong commitment to excellence in undergraduate research and service is essential.

Inquiries should be directed to: **Dr. Frank DiPino, Division Chair of Mathematical and Natural Sciences. Telephone: 570-674-6457; e-mail: fdipino@miseri.edu**. For confidential consideration, please enclose in your application package a letter of application including your telephone number, e-mail address, curriculum vitae, statement of teaching philosophy, and three references to: **College Misericordia, Attention: Human Resources Department, 301 Lake Street, Dallas, PA 18612. E-mail: hr@miseri.edu**. Review of applications will begin immediately and will continue until position is filled. College Misericordia is located in the Pocono Northeast region of Pennsylvania approximately two-and-one-half hours from Philadelphia, Pennsylvania, and New York City.

Affirmative Action/Equal Opportunity Employer. College Misericordia is committed to excellence and actively supports cultural diversity. To promote this endeavor, we invite individuals who contribute to such diversity to apply, including minorities and women.

Seligson Clinical Fellowship in Molecular Oncology at Cold Spring Harbor Laboratory

The Cold Spring Harbor Laboratory Clinical Fellow Program provides an outstanding training experience for highly motivated physicians-in-training with an interest in molecular oncology. Successful applicants receive exceptional scientific training by working closely with a member of the CSHL faculty on problems related to the cause, diagnosis, and treatment of cancer.

The Clinical Fellows program is targeted towards gifted individuals who have received their M.D. or M.D/Ph.D. degrees, and are interested in pursuing a career as physician-scientists or in basic cancer research. Clinical Fellows receive a competitive salary and benefits package, and appointments are typically for a period of 2 years.

Cold Spring Harbor is an NCI-designated Cancer Center with many state-of-the-art facilities, including new microarray, bioinformatics, and animal facilities. It is known for its highly interactive and stimulating training environment, with research programs focusing on molecular biology, cancer, neurobiology, plant genetics, genomics and bioinformatics (http://www.cshl.org/). In addition, it hosts a variety of international conferences, including meetings on cancer genetics, tumor suppressors, cell-cycle control, signal transduction, apoptosis, telomere biology, and aging/senescence.

The Laboratory is currently searching for a Clinical Fellow to study the molecular genetics of drug sensitivity and resistance using mouse models. Interested applicants may apply by sending a letter of introduction, along with curriculum vitae and a list of four individuals who can support the candidacy to: Scott W. Lowe, Ph.D., Professor,

Cold Spring Harbor Laboratory
1 Bungtown Rd., Box 100
Cold Spring Harbor, NY 11724
www.cshl.org

Cold Spring Harbor Laboratory is an equal opportunity employer.

POSTDOCTORAL POSITIONS in the Center for Cardiovascular Sciences Albany Medical College

The CCS seeks applications for immediate postdoctoral positions in the following NIH funded laboratories:

Dr. Harold A. Singer, Professor and Director – structure/function of calcium-calmodulin dependent protein kinases, regulation of vascular smooth muscle contraction and cell migration. Candidates should have experience in one or more of the following areas: protein kinase biochemistry, signal transduction, cytoskeletal proteins, molecular biology.

Dr. John J. Schwarz, Associate Professor – transcriptional regulation of cardiovascular development and angiogenesis. The position will involve experiments in both cell culture and mouse embryos. Candidates should have experience in one or more of the following areas: molecular biology, transcriptional regulation, angiogenesis, embryology or transgenic mice.

Dr. Yong-Xiao Wang, Associate Professor – regulation of ion channels, cell calcium and contraction in smooth muscle. Patch clamp, calcium imaging, and molecular approaches are utilized in these studies. Candidates should have training in patch clamp techniques and/or experience in molecular biology.

The CCS provides interdisciplinary training to both pre- and postdoctoral students interested in basic cardiovascular science and pathophysiology. The Center is well supported by core molecular biology, imaging, protein chemistry, and transgenic mouse facilities at both AMC and neighboring research partners including the Wadsworth Center for Laboratories and Research, SUNY Albany Functional Genomics Center, and the Bioengineering Department at Rensselaer Polytechnic Institute. Albany and the greater Capital Region of New York offer exceptional cultural and recreational activities and are within easy driving distance of other major metropolitan areas including Boston, New York City and Montreal. For further information please visit our website at: **http://www.amc.edu/Academic/Research/ccs.htm.**

Interested applicants with a Ph.D. in an appropriate area should send their complete Curriculum Vitae and at least two letters of reference to the specific faculty listed above or to Jo Anne La Plante, Administrative Coordinator, Center for Cardiovascular Sciences (MC-8), Albany Medical College, 47 New Scotland Avenue, Albany, New York 12208. *AMC is an Equal Opportunity Employer*

MOUNT SINAI SCHOOL OF MEDICINE

The Imaging Science Laboratories at Mount Sinai School of Medicine in New York is searching for Staff Scientists for the following positions in Biomedical Imaging:

STAFF SCIENTIST OR POSTDOCTORAL POSITION IN MR MICROSCOPY FOR TRANSGENIC MOUSE IMAGING

The ideal candidate will have a PhD in Biomedical Engineering, Electrical Engineering, Biophysics, or a related discipline. The candidate should have experience in *ex vivo* MRM data acquisition, pulse programming, methods for motion reduction, and image processing. Working with animal models and hands-on experience in MR micro imaging are highly desirable. The focus of the research is the combination of novel MRM techniques to study morphologic, physiologic, and metabolic alteration produced in mouse models. Research areas will focus in multiple organ systems (i.e., cardiovascular and neurological).

STAFF SCIENTIST IN IMAGING ANALYSIS FOR MR

The ideal candidate will have a Master's degree or a PhD in Biomedical Engineering, Computer Science, Biophysics, Electrical Engineering, or a related discipline. The candidate should have experience in imaging analysis, as well as MR imaging (MRI) and MR microscopy (MRM) data acquisition and/or processing. The focus of the research is the combination of novel MRI and MRM with data analysis to provide quantitative evaluation of cardiovascular and neurological disease.

The Imaging Science Laboratories is equipped with state-of-the-art computer resources, MR scanners, RF coil fabrication facilities, electronics/mechanical resources, and animal facilities. Currently, two research-dedicated systems are available: a 1.5T GE CV/i system and a Bruker 9.4T 89mm vertical bore system. Two other dedicated systems will also be available full-time: a 1.5T Siemens Sonata system and a 3.0T Siemens Allegra system.

Please forward CV, indicating position of interest, to: **Zahi Adel Fayad, PhD, Advanced Imaging Program, Mount Sinai School of Medicine, One Gustave L. Levy Place, Box 1030, New York NY 10029-6574. Fax: 212-534-2683. E-mail: zahi.fayad@mssm.edu.** We are an equal opportunity employer fostering diversity in the workplace.

PHARMACEUTICAL

Bristol-Myers Squibb, a recognized leader in discovering and developing novel, cost-effective pharmaceutical therapies that improve health and quality of life, is seeking top scientific talent for our Syracuse, NY facility.

SCIENTIST/SENIOR SCIENTIST

As a fermentation process development scientist, you will evaluate new bacterial and fungal strains for the manufacture of therapeutics and to optimize fermentation parameters for large-scale fermentation. Responsibilities will encompass the maintenance and operation of small (10-40 liters) fermentors, strain evaluation, fermentation of secondary metabolites, biotransformation, optimization of fermentation media and processes in small fermentors. Duties also include design of experiments, supervising 2-4 scientists, data analysis, writing technical reports, oral presentation and interaction with other groups in Development and Manufacturing.

Candidates should have a Ph.D. in microbiology, biochemical engineering, or a closely related discipline with a minimum of 2-4 years post-graduate experience. Experience in microbial strain development, fermentation of secondary metabolites and biotransformation, fermentation development at both shake-flask and small (5-40L) fermentor scale, and operation of computer-controlled small fermentors is required. Experience in downstream recovery is a plus. A strong background in microbiology and excellent aseptic techniques is required. Relocation Assistance. **Ad code: 00-0005738.**

ASSISTANT/ ASSOCIATE SCIENTIST

As a strain improvement, media and fermentation development scientist, you will have the opportunity to work with a team of scientists to evaluate new bacterial and fungal strains for the manufacture of therapeutics, and to optimize media and inocula build-up processes for large-scale fermentation. Responsibilities will encompass the maintenance, propagation and scale-up of microorganisms in various culture systems; using classical mutation or genetic engineering approaches to improve the productivity of secondary metabolites; strain evaluation and optimization of fermentation media and processes in shake flasks and 14-liter fermentors. Duties also include data analysis, writing technical reports, oral presentation and interaction with other groups in Development and Production.

Candidates should have a B.S. or M.S. in microbiology or a related discipline with a minimum of 2-4 years post-graduate experience for B.S. level candidates. Experience in microbial strain improvement, molecular biology, and operation of computer-controlled bench-top fermentors is preferred. A strong background in microbiology and excellent aseptic techniques is required. Relocation Assistance. **Ad code: 00-0002145.**

Bristol-Myers Squibb offers a challenging and collegial working environment, competitive salaries and an excellent compensation package. Please reply to **Manager, Human Resources, Ad Code #_____, Bristol-Myers Squibb Company, P.O. Box 4755, Syracuse, NY 13221-4755. Fax: (315) 432-2640. Email: syracuse.jobs@ bms.com**
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UCSD

POSTDOCTORAL POSITION

An NIH-funded position is available immediately to study the short- and long-term effects of intermittent hypoxia on the microcirculatory system and the tissues. This study uses a variety of optical techniques to examine the effects of hypoxia on oxygen levels in the microcirculatory vessels and tissues, tissue oxidative stress, tissue redox state, apoptosis and mediators of smooth muscle activity in the microcirculation. There may also be an opportunity to study the flow properties of blood in microcirculatory vessels using fluorescence and high speed video microscopy. Candidates from a variety of scientific backgrounds with a Ph.D. or its equivalent will be considered. Please send curriculum vitae and two letters of reference to: **Paul C. Johnson, Ph.D., Microhemodynamics Laboratory, Dept. of Bioengineering, University of California, San Diego, 9500 Gilman Drive, La Jolla, CA 92093-0412, Fax 858-534-6896.**

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GROUP LEADERS • SENIOR SCIENTISTS
SCIENTISTS • RESEARCH ASSOCIATES

PTC Therapeutics Inc. is a biopharmaceutical company applying integrated RNA biology and chemistry platforms to develop orally active small molecule drugs that modulate post-transcriptional regulatory processes applicable to diverse infectious and genetic diseases. Ongoing drug discovery programs address nonsense and frameshift suppression, modulation of mRNA stability and translation, and catalytic RNA function. PTC is well funded by premier investors and occupies a 22,000 sq.ft. custom-built research facility in South Plainfield, NJ.

PTC has several positions available at multiple levels for highly motivated scientists with specialized skills who enjoy a multidisciplinary approach to drug discovery.

MICROBIAL GENETICS

Several openings at all levels for experienced Ph.D. and M.S. level applicants with a strong background in the molecular biology and genetics of bacterial or fungal pathogens. Candidates will be expected to work in a team environment, in addition to having the ability to work independently. Experience in drug discovery is beneficial, but not essential.

MOLECULAR BIOLOGY AND PROTEIN CHEMISTRY

A group leader (Ph.D.) and several research associate (M.S.,B.S.) positions are available for individuals with experience and expertise in the standard repertoire of current molecular biological procedures. Activities will be integrated with, and provide support to, all discovery and therapeutic efforts. Openings for experienced Ph.D. and M.S. level biochemists with experience in protein purification and enzymology are also available.

IMMUNOLOGISTS

Openings are available for experienced Ph.D. level applicants with a strong background in molecular and cellular immunology, particularly individuals with expertise in cytokine biology.

INFORMATICS AND STRUCTURAL BIOCHEMISTRY

A group leader (Ph.D.) and research associate (M.S., B.S.) positions are available for individuals with a strong background in structure-based design to lead a group supporting lead compound refinement efforts in therapeutic programs.

PTC Therapeutics Inc. is an equal opportunity employer offering competitive compensation, excellent employee benefits and the opportunity for personal and professional growth in an outstanding work environment. Qualified individuals should send a cover letter and resume indicating the position of interest to: ***PTC Therapeutics - Attention: Human Resources - Job Code SC2 - 100 Corporate Court - South Plainfield, NJ 07080. We strongly encourage electronic submissions, please address: careers@ptcbio.com***

PTC THERAPEUTICS

Two Post-Doctoral Fellow Positions Cancer Research

Our laboratory is NIH-funded and studies the molecular basis for human brain tumors and develops new therapeutic approaches for cancer. For related works of our laboratory see *Nature Genetics* **8**, 171 (1994), *PNAS* **92**, 1008 (1995), *J. Exp. Med.* **186**, 1201 (1997), *Oncogene* **18**, 5870 (1999), *Cancer Res.* **59**, 5479 (1999), *Oncogene* **16**, 3816 (2000), or *J. Exp. Med.* **191**, 1789 (2000).

Successful candidates will be highly motivated, hold a Ph.D. in molecular or cellular biology (or a related area) and possess excellent written and verbal English skills. Experience with recombinant DNA technology and cell culture is desired. Experience with models of angiogenesis, adenovirus gene therapy, p53, and microarrays is an advantage.

Competitive compensation and benefits available. Applicants should send an introductory letter indicating career objectives, curriculum vitae and three references by March 31, 2001 to: **Erwin G. Van Meir, Ph.D., Associate Professor, Director-Laboratory of Molecular Neuro-Oncology, Department of Neurosurgery and Winship Cancer Institute, Emory University School of Medicine, 1365-B Clifton Road, N.E., Atlanta, Georgia, USA 30322, (404) 778-5227, Fax (404) 778-5240. E-mail: evanmei@emory.edu. http://www.emory.edu/WHSC/neurosurgery/faculty/vanmeir/vanmeir.htm**

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Post-Doctoral Research Fellow in Chemistry
Develop new parallel synthetic methodologies for the construction of focused libraries relevant to ongoing therapeutic programs. Requires a recent Ph.D. in synthetic organic chemistry with an emphasis on parallel synthesis and/or combinatorial chemistry. Must be adept at solution-phase/solid-phase synthetic techniques, analytical instruments (LC-MS, NMR, HPLC), and chemistry-related software. **(PCN #50510043-SC)**

Post-Doctoral Research Fellow in Pharmacology
Erect animal models of neurodegenerative disorders with an emphasis on Parkinson's disease. Evaluations of transgenic and lesion-based animal models will include behavioral and histological biochemical endpoints. Requires a Ph.D. and experience en vivo models of CNS diseases. **(PCN #50520064-SC)**

Post-Doctoral Research Fellow in Pharmacology
Work within the Analgesia Project team to identify and evaluate new molecular targets for novel analgesic and anti-inflammatory therapeutics, develop en vivo models of pain and inflammation, and publish key findings. Requires a Ph.D. in neuroscience, physiology, pharmacology, or a related field and extensive expertise with animal surgery, physiology, pharmacology, and animal models of pain and inflammation. **(PCN #50520065-SC)**

Post-Doctoral Research Fellow in Biology
Expand current knowledge of the molecular mechanisms of neurotoxic signal transduction pathways in established in vitro models of Alzheimer's and Parkinson's diseases. Requires a Ph.D. and experience in signal transduction, biochemistry, immunofluorescence, cell biology, and molecular biology. **(PCN #50530065-SC)**

Post-Doctoral Research Fellow in Biology
Characterize animal models of Alzheimer's disease, make comparisons with AD tissues, and study the effects of therapeutic interventions on neuropathology. Requires a Ph.D. in biology or neuroscience and expertise in immunohistochemical methods and CNS anatomy. **(PCN #50530066-SC)**

Post-Doctoral Research Fellow in Biology
Analyze transgenic models of Alzheimer's disease. Duties range from setting up crosses to taking down animals and analyzing them for neuropathology, gene expression, and biochemical phenotype. Requires a Ph.D. in biology and experience with transgenics. A background in histopathy, biochemistry, and molecular biology is desirable. **(PCN #50530067-SC)**

Post-Doctoral Research Fellow in Cell Biology/Immunology
Be part of the development of a therapeutic for the treatment of Alzheimer's disease through characterization of a novel protein complex which cleavage of membrane proteins. Requires a Ph.D. in Cell Biology or Biochemistry and experience in cell culture, protein chemistry and molecular biology. **(PCN #50530043-SC)**

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BIOLOGY TEAM LEADER — ENTEROLOGY
(Spring House, PA, Research Facility)

The successful candidate will be responsible for leading a group of scientists in the development of strategy and vision to position projects from inception through completion.

The position requires a PhD in life sciences with ten or more years experience. Experience with gastrointestinal disorders with an emphasis on intestinal inflammatory disorders is a must. A strong background in physiology/cellular and molecular biology is desirable.

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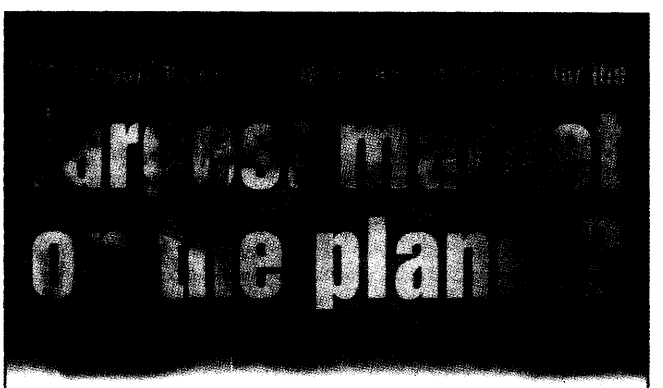

Celera Genomics, the leader of the revolution in genomics, has successfully sequenced the human genome, an accomplishment that will affect all aspects of biomedical research. We have also sequenced Drosophila, developed a reference database of more than 2.4 million SNPs, and have the world's largest civilian supercomputer facility.

Director of Marketing
Working with senior colleagues, you will establish short- and long-range marketing strategies for products for the pharmaceutical and biotechnology industries and the academic research market.

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1 *Science*, June 2000, BPA Publisher's Statement
2 *Science* Harvey Research Readership surveys: 14 January 2000, 4 February 2000, 4 June 1999, (Japan) as applied to *Science* June 2000 BPA Publisher's Statement, publisher's own data.

Together, we can do more... for the cause

VICE PRESIDENT RESEARCH PROGRAM

The **American Diabetes Association** supports research in diabetes by funding over 400 scientists throughout the United States through a competitive, peer-reviewed process. We are now seeking applicants for the position of Vice President, Research Program at our Alexandria, VA National Office. The successful candidate will oversee the administration of our research program to include managing all aspects of grant review and interacting with our volunteer leadership to establish the scope and direction of the research program. Secondary responsibilities include presentations to lay and scientific audiences, representing the Association at research conferences, and assisting other staff in promoting the financial growth of the program.

Requires: Ph.D, M.D., or the equivalent degree; supervisory experience; a record of productive research; and excellent written/verbal communication skills. An understanding of the science of diabetes is highly desirable, as well as familiarity with the not-for-profit voluntary health sector.

Please send letter of interest, CV, and salary requirements, to: **American Diabetes Association, Attn: HR/TA/SM, 1701 N. Beauregard St., Alexandria, VA 22311; Fax: (703) 299-5525; or E-mail: personnel@diabetes.org.**

The American Diabetes Association is a proud equal opportunity employer that holds inclusion as a core value.

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1 *Science*, June 2000, BPA Publisher's Statement
2 *Science* Harvey Research Readership surveys: 14 January 2000, 4 February 2000, 4 June 1999, (Japan) as applied to *Science* June 2000 BPA Publisher's Statement, publisher's own data.

For information call Daryl Anderson
Tel 202-326-6543
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Director, Environmental Health Sciences Center
Oregon State University

Oregon State University invites nominations and applications for the position of Director of the Environmental Health Sciences (EHS) Center. Funded by an NIEHS Center grant of approximately $1 million in annual direct costs, this 34-year-old Center is internationally recognized for expertise and research programs of 25 EHS Center faculty members. The EHS Center is a national resource for multidisciplinary approaches to problems in human environmental health. Details on this EHS Center's activities are available on its website at http://www.ehsc.orst.edu. The Director will hold a 1.00 FTE twelve-month appointment (0.60 FTE as director; 0.40 FTE in an academic department) with a nine-month tenure commitment at the rank of professor within an academic department and college that is appropriate to the appointee's background.

We are looking for a well-established scientist to provide scientific and administrative leadership for the EHS Center within the policies of NIEHS and Oregon State University. A distinguished record of scholarly accomplishment and leadership is required for continued program development and EHS Center support. The Director must hold an M.D. or Ph.D. degree in physical or life science and have research and teaching experience related to environmental health sciences.

Nominations should include name and address of the nominee and a letter addressing the qualifications of the individual. Applicants should submit a letter of interest, a resume, and request three letters of reference be sent to:

Dr. Lawrence R. Curtis, Chair
EHS Center Director Search Committee
Department of Environmental and Molecular Toxicology
Oregon State University
1007 ALS Building
Corvallis OR 97331-7301
E-mail: Larry.Curtis@orst.edu

Review of applicants will begin on April 16, 2001, and the position shall remain open until filled. The position is available July 1, 2001.

OSU is an AA/EEO employer and has a policy of being responsive to dual-career needs.

FELLOWSHIPS

Postdoctoral Fellowships

The UNC Lineberger Comprehensive Cancer Center of the University of North Carolina at Chapel Hill will have openings in 2001 in its training program, now in its 26th year, for persons completing graduate studies to train with excellent investigators in basic research in tumor virology, molecular carcinogenesis, molecular therapeutics, cancer cell biology, genetics, tumor immunology and research that interfaces with clinical and physical sciences.

Training is available in DNA repair, replication and mutagenesis; regulation of cellular proliferation and differentiation including growth factors, signal transduction pathways and intercellular communication; molecular immunology, tumor virology and pathogenesis; molecular genetics and epidemiology of cancer; and human disease models and gene therapy. Unique training resources and core facilities are supported by the NCI-designated UNC Lineberger Comprehensive Cancer Center.

Preceptors are: Steven Bachenheimer, Albert Baldwin, Victoria Bautch, David Brenner, Keith Burnage, Sharon Campbell, Stephen Chaney, David Clemmons, Edward Collins, Mania Cordeiro-Stone, Blossom Damania, Channing Der, Robert Durania, Shelton Earp, Beverly Emede, Jeffrey Fralinger, Frank French, Jack Griffin, Eng-Shang Huang, Clyde Hutchison III, Kenneth Jacobson, Rudolph Juliano, David Kaufman, William Kaufman, Shannon Kenney, Ryszard Kole, Steven Leadon, David Lee, Patricia Maness, William Marzluff, Beverly Mitchell, Joseph Pagano, Leslie Parise, Mark Peifer, Charles Perou, Tom Pates, Nancy Raab-Traub, James Raleigh, Dale Ramsden, Jude Samulski, Aziz Sanear, John Sondek, Ronald Swanstrom, Lisnan Su, Holden Thorp, Jenny Ting, Ronald Truman, Michael Topal, Terry Van Dyke, Kevin Weeks, Bernard Weissman, Elizabeth Wilson, Yue Zong and Yi Zhang.

Candidates must be U.S. citizens or permanent residents. For an informational brochure or to apply (include curriculum vitae, three letters of recommendation, a statement of research interests and graduate school records) write to:

Joseph S. Pagano, M.D.
CB 1295
UNC Lineberger Comprehensive Cancer Center
School of Medicine
University of North Carolina at Chapel Hill
Chapel Hill, NC 27599-7295
http://cancer.med.unc.edu

UNC's Comprehensive Cancer Center is an Affirmative Action/Equal Opportunity Employer. Minority applicants are encouraged voluntarily to identify themselves.

Mouse Genetics and Genomics Program
Senior Staff Vacancies

Scientists and engineers at ORNL conduct basic and applied research and development to create scientific knowledge and technological solutions that strengthen the nation's leadership in key areas of science; increase the availability of clean, abundant energy; restore and protect the environment; and contribute to national security.

ORNL also provides an environment that encourages collaborative research and development, and promotes access to the Laboratory's facilities by researchers from other research organizations, industry and academia.

To learn more about opportunities at ORNL, see our Web site at: http://www.ornl.gov/

The Mouse Genetics and Genomics Program (MGGP) at the Oak Ridge National Laboratory seeks to fill two full-time research positions with outstanding biologists whose focused biological questions can benefit from interaction with the MGGP and with ORNL's overall Life Sciences program. The MGGP covers a broad base of biology, but we are particularly interested in candidates with expertise in quantitative genetics/genomics, cancer biology, germ-cell biology/reproductive genetics and/or exposure biology who would like to conduct their research in a mouse genetics- and genomics-intensive environment. Applicants should have a doctoral degree (PhD, MD, DVM) in the biological sciences. Appointments are possible at all levels and will be based on experience and on a record of research achievements as documented by peer-reviewed publications, citations and/or successful research grant applications. Please visit: http://lsd.ornl.gov/htmgd/mammalian.html for additional information on the MGGP, whose current members include:

***E.M. Rinchik**, Scientific Director, mouse genetics and mutagenesis, genomics, gene discovery, genetic resource development*

***D.K. Johnson**, Section Head, regional genomics and mutagenesis, phenotype screening, gene discovery*

***E.J. Michaud**, genetics/genomics of skin biology and diabetes/obesity, gene function, genetic resource development*

***C.T. Culiat**, regional genomics and transcriptomics, genetic susceptibilities to inherited DNA damage*

***Y. You**, genetics of prenatal development, genetic resource development*

***L.B. Russell**, mouse genetics and mutagenesis, germ-cell biology, genetic risk*

***M.L. Klebig**, gene discovery, mutation scanning, genetic resource development*

***S.J. Kennel**, vascular targeted radioimmunotherapy*

While applicants are expected to pursue their research interests, staff are encouraged to interact with our cross-disciplinary team-research environment and to enrich this environment by their own expertise and scientific vision. Significant interactions are possible with other Life Sciences programs in: Computational Biology/Bioinformatics (*E.C. Uberbacher, F.W. Larimer, Y. Xu, P. LoCascio, J. Snoddy*); Biological Mass Spectrometry (*M.V. Buchanan, J. Stephenson, R. Hettich, G. Hurst*); and Structural Biology (*G.J. Bunick, M.V. Buchanan*).

ORNL offers a competitive salary and benefits package, and career development opportunities commensurate with excellence in research. Opportunities exist for collaborative appointments at various levels with the nearby University of Tennessee, including appointments with the UT/ORNL Graduate School for Genome Science and Technology (http://bioax1.bio.ornl.gov/gst/index.html), or participation in the Distinguished Scientist Program at both UT and ORNL (http://www.ra.utk.edu/scialli/). Also possible are extensive interactions with the Tennessee Mouse Genome Consortium (http://tnmouse.org).

For consideration, send a complete curriculum vitae, including three references and a statement of research interests, by March 31, 2001, to: Dr. Eugene M. Rinchik, Chair, Search Committee, Biology Research Positions, Life Sciences Division, Oak Ridge National Laboratory, PO Box 2008, Oak Ridge, TN 37831-6124; e-mail: masingosw@ornl.gov

ORNL, a multipurpose research facility managed by UT-Battelle for the U.S. Department of Energy, is an equal opportunity employer committed to building and maintaining a diverse workforce.

UT-BATTELLE

Smithsonian
National Museum of Natural History

MOLECULAR SYSTEMATICS

The National Museum of Natural History (NMNH) invites applications for the following positions in its Laboratory of Molecular Systematics (LMS):

Lab Head – The incumbent will lead the molecular systematics program at NMNH. We seek an outstanding scientist who will maintain an active, independent research program and provide vigorous leadership to the Laboratory and Museum community in the application of molecular tools to major problems in systematics and evolutionary biology. Responsibilities include administration of the Laboratory, supervision of its staff and coordination of program activities with other units. (Vacancy 01YH-2020; closes 4/16/01).

Lab Manager – The successful candidate will oversee day-to-day operations of a multi-user laboratory, including developing protocols, procurement activities, scheduling of laboratory access and operation of DNA sequencing facilities. The position requires knowledge and experience in molecular genetics laboratory administration and evolutionary biology. Responsibilities include assisting the Lab Head, NMNH researchers and the Molecular Advisory panel in establishing and implementing program goals. Participation in long-range planning and budgetary analysis is expected. Safety coordination and staff supervision is required. (Vacancy 01YH-2021; closes 4/9/01).

Computer Specialist (Customer Support) – Successful candidate will be responsible for computer support for NMNH molecular scientists. Oversees operation of computing facilities, including administration of file servers and multi-user Unix workstations, Macintosh and Windows/PC hardware and software maintenance, backups, and long-term data storage. Provides technical expertise and training in use of computer program packages for phylogenetic and molecular sequence analyses. Implements and oversees Web and FTP servers for dissemination of technical information, data and software. Interacts with other NMNH computer support personnel as necessary. (Vacancy 01YH-2009; closes 4/9/01).

Lab Technician – Successful candidate will be responsible for isolating and sequencing DNAs from diverse organisms, performing other measures of DNA divergence such as RFLP mapping, and transforming DNA data into phylogenetic and population genetic measures of evolutionary change. Technician will also participate in general lab maintenance as assigned. (Vacancies 01KW-2019 and 01KW-2018; closes 4/9/01).

The LMS is a unit of the NMNH which conducts independent research and provides access to molecular technology for NMNH researchers. More information on the LMS is available at **http://www.lms.si.edu**. Vacancy Announcements with application requirements are available from the **Office of Human Resources, Suite 6100, 750 Ninth St. NW, Washington, DC 20560, (202)275-1054**. The automated Jobline is accessible on (202)287-3102 or at **http://ohr.si.edu**. *The Smithsonian Institution is an Equal Opportunity Employer.*

mayo

Mayo Clinic
Postdoctoral Positions

Postdoctoral positions are available immediately to study the biochemical and molecular aspects of breast/ovarian cancer and the roles of tumor suppressor genes p53, Chk2, BRCA1 and BRCA2 and the DNA damage-signaling pathway in tumorigenesis. A strong background in molecular and cellular biology is essential. Please send curriculum vitae and the names of three references to:

Junjie Chen, Ph.D.
Department of Oncology
Guggenheim Building, Room 1342
Mayo Clinic
200 First St. SW
Rochester, MN 55905

See also: http://www.mayo.edu/research/

Mayo Foundation is an affirmative action and equal opportunity employer and educator.

Human Physiology or Human Anatomy
James Madison University
Department of Biology

One tenure-track position. A second tenure-track position contingent on funding. Assistant or Associate Professor. Start Fall, 2001. Ph.D. required. Experience teaching clinically related material preferred. **First position:** Teach Clinical Physiology-Pathophysiology for Physician Assistant students during Summer and Animal Physiology for biology majors and pre-professional students during Fall. **Second position:** Teach cadaver-based Clinical Anatomy for Physician Assistant and Occupational Therapy students during Summer and Human Anatomy for biology majors and pre-professional students during Fall. **Both Positions:** Must show evidence of excellent teaching and communication skills, including familiarity with classroom and instructional technologies. A continuing commitment to scholarly activity, involving undergraduate and master's students, is required. Area of scholarly expertise open. Optional part-time teaching during Spring. Submit curriculum vitae, statement of teaching philosophy and experiences, and summary of scholarly interests and goals. Arrange to have three letters of recommendation sent to **Chair of Physiology/Anatomy Search, Department of Biology — MSC 7801, James Madison University, Harrisonburg, VA 22807.** Applications received by March 23, 2001 will receive full consideration.

JMU is an Equal Opportunity/Affirmative Action/Equal Access Employer and especially encourages applications from minorities, women and persons with disabilities.

UIC University of Illinois at Chicago

Head
Biochemistry & Molecular Genetics

Applications and nominations are invited for the new position of Head of the Department of Biochemistry & Molecular Genetics at the University of Illinois at Chicago (UIC). This new position has arisen from the merging of the Department of Molecular Genetics and the Department of Biochemistry & Molecular Biology to form the Department of Biochemistry & Molecular Genetics, with a mission for the Department to develop in a way that takes advantage of the enormous new opportunities afforded by the genomics revolution.

The new Head will be charged with integrating the current faculties of the Departments of Biochemistry & Molecular Biology and of Molecular Genetics, which currently consist of 29 full-time members with well-funded research programs supported by extramural funding in excess of $11 million in the current year, including 30 NIH research and training grants. The constituent graduate programs are strong, with current combined enrollment of 78 graduate students. The new Head will be expected to play a key role in the establishment of a campus-wide Center for Genomic Sciences to develop genomics, proteomics and related disciplines.

The successful candidate should have a Ph.D. and/or M.D. degree, must be of national stature, have an active funded research program that fits well with the mission of the Department, have exceptional administrative skills, and have the vision and drive to ensure the successful integration of the constituent Departments and the development of genomic sciences at the college and institutional levels. The candidate should be eligible for professorship status with tenure.

For fullest consideration, nominations and/or letters of application, along with curriculum vitae and names of three references should be submitted by April 15, 2001 to:

Asrar B. Malik, PhD, Professor &
Head, Department of Pharmacology
Chair, Biochemistry & Molecular Genetics Head Search Committee
c/o Gregory S. Pittsley,
Dean's Office
UIC College of Medicine at Chicago
1853 W. Polk Street, Room 131 CMW (M/C 784)
Chicago, Illinois 60612

UIC is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

GRA/MCG Eminent Scholar in Molecular Medicine

The Medical College of Georgia (MCG), Georgia's Health Sciences University, seeks to recruit a senior physician-scientist of national and international stature to fill the vacant endowed chair in Molecular Medicine. The chair is endowed jointly by MCG and the Georgia Research Alliance (GRA) through the nationally acclaimed GRA Eminent Scholar program. The GRA invests in research infrastructure development at academic research campuses across the State of Georgia through endowed chairs and capital investment in core research facilities designed to stimulate translational research leading to biomedical and clinical opportunities for technology transfer to industry.

The individual appointed to this senior faculty position will be primarily committed to the MCG research mission but will also contribute to the clinical, teaching and service missions of MCG. The MCG research mission is organized into four broad research areas of cancer, cardiovascular, neurological and inflammation research, which encompass MCG research strengths in ten themed research programs. These programs can be reviewed on the MCG web page (http://www.mcg.edu/research.htm). The successful candidate will have a proven track record of funded research that complements one or more of these research programs. The person recruited will hold an appointment in the MCG Institute of Molecular Medicine and Genetics (IMMAG) and a primary academic appointment in an MCG clinical or basic science department.

Since inauguration in 1993 the IMMAG has become a nationally recognized center of research excellence at MCG. Currently, the 48 IMMAG faculty members attract over $12 million annually of extramural funds to the MCG campus, a success rate enhanced through long-term joint investment by MCG and the GRA in excellent state-of-the-art core research facilities. IMMAG is organized thematically into five research programs: Cell Signaling, Molecular Immunology, Gene Regulation, Developmental Biology and Neurobiology. IMMAG administers 10 MCG core research facilities (including the Electron Microscopy, Transgenic and Knockout Mouse, Transgenic Zebra Fish, DNA Microarray and Molecular Biology, Flow Cytometry, Proteomics/Mass Spectrometry and Cell Imaging facilities). In addition, IMMAG faculty teach upper level graduate courses to Ph.D. and M.D./Ph.D. students. Interested candidates can review faculty research interests and core research facilities on the MCG web site listed above.

Candidates for the Eminent Scholar chair in Molecular Medicine should have a proven track record of well-funded and productive research sustained over a number of years. Ideally, candidates should have research interests focused on topical clinical and related biomedical research issues and focus on molecular approaches to solving clinical problems. For this reason, we seek physician-scientists conducting research designed to solve clinical problems. The individual appointed will be invited to contribute to the administration of IMMAG by taking an active leadership role. Opportunities also exist for contributing to the teaching and mentoring of medical and graduate students. Applications for this position should be sent to **Ann Gambill, MCG, IMMAG, 1120 15th Street, CB-2803, Augusta, GA 30912.** Additional details about this position may be obtained from the chair of the search committee, Andrew Mellor Ph.D. at the following email address: **amellor@mail.mcg.edu.** The closing date for receiving applications is **March 31, 2001.** *The Medical College of Georgia is an equal opportunity employer. We invite applications or nominations from women, racial minorities, and the handicapped.* AC#41250. PO#E-01157370

GLOBAL OPPORTUNITIES

NATIONAL UNIVERSITY *of* SINGAPORE

APPOINTMENT AS HEAD OF DEPARTMENT
DEPARTMENT OF MICROBIOLOGY

The National University of Singapore (NUS) invites applications for a Faculty appointment as Head of the Department of Microbiology. The Department of Microbiology is committed to serving the nation's growing needs in research and development of professional services both in the Healthcare services and Biomedical Industry. The Department is one of the key drivers of Biomedical Science education, both at the undergraduate and graduate levels, and research in Singapore. The core disciplines in the Department are medical microbiology, cell and molecular biology, molecular genetics, immunology, molecular virology and oncology, as well as environmental biotechnology. The Department has 20 full-time faculty, who are actively involved in cross-disciplinary collaborations with local and international research institutes and agencies, as well as with industry.

The Faculty is looking for a strong leader with extensive research and administrative experience to serve as Head. The potential candidate should be able to drive the research programmes in the Department, so as to enhance the Faculty's research profile in the Biomedical Sciences, while maintaining and expanding the quality in teaching of the curriculum to both Medical and Science undergraduates, and as part of the General Education Requirements for all undergraduates. The candidate will also be expected to contribute to the further development of the graduate programmes, which aim at training competent biomedical scientists who will spearhead and drive the medical biotechnology efforts in the industry.

We are looking for an outstanding candidate with either a medical (MBBS or M.D.), or research degree (Ph.D.), with the appropriate higher research experience. Remuneration will be commensurate with qualifications and experience.

Interested applicants should contact the Chairman of the Search Committee **(Prof. HK Yap, E-mail: paeyaphk@nus.edu.sg)** if they require more details, or visit the website at: **http://www.nus.edu.sg/NUSinfo/Appoint/med-microb.htm** for links to information on the Department, the University, terms and conditions of service, and the application form.

Applicants should submit their applications, supported by a resume and the names of three referees to:

Professor Lee Eng Hin
Dean, Faculty of Medicine
National University of Singapore
10 Kent Ridge Crescent
Singapore 119260
Fax: +65 778 5743
E-mail: meddean@nus.edu.sg

Closing date: 31st March 2001

Only short-listed candidates will be notified.

SULTAN QABOOS UNIVERSITY

COLLEGE OF SCIENCE

Chair: Department of Earth Science

Sultan Qaboos University, the national university of Oman, is seeking an experienced geologist to lead its Earth Sciences Department into the new millennium. The Department has nine faculty, two research ofcers, three junior faculty and 10 support staff. It houses a SEM/X-Ray unit and a Virtual Reality Centre for Carbonate Studies and may serve as a base for a Seismic Monitoring Unit and a Centre for Remote Sensing and GIS. Superb facilities, coupled with Oman's spectacular geology, make this a prestigious position with considerable potential. We are looking for an experienced individual with vision, a strong research record, experience in graduate supervision, knowledge of computer applications in geosciences and a commitment to participative, collegial management.

The University is located near the capital area and close to excellent international schools and unique natural recreational areas. Apart from a very attractive tax free base salary, Sultan Qaboos University offers free furnished accommodation, excellent recreational facilities on campus, subsidized schooling for up to two children, 60 days annual leave with return air tickets, end of service gratuity, free medical treatment in Government Hospitals in the Sultanate.

Enquiries can be addressed to the Dean of Science, Prof. Anton McLachlan, at antonmcl@squ.edu.om Applications should include a statement of interest, a detailed curriculum vitae and names and addresses of three referees. The position will remain open until lled but applications received before 1st April, 2001 will receive strongest consideration. The University reserves the right not to make an appointment.

Please send applications, quoting our Ref: ADV/SCI/01/01, to:

The Director, Personnel Affairs,
Sultan Qaboos University,
P.O. Box 50, Al-Khod - 123, Sultanate of Oman
Email: personel@squ.edu.om
OR nair@squ.edu.om

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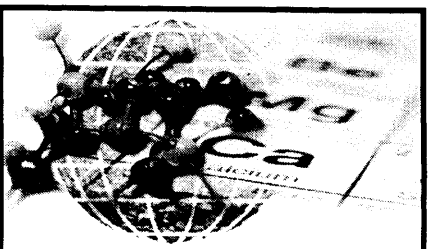

You Don't Have To Be In The LAB To Be On The *LEADING EDGE* of *SCIENCE...*

WE ARE LOOKING FOR CHEMISTRY PROFESSIONALS FOR THE FOLLOWING POSITIONS:

Biochemist - Bachelor's degree or higher with course work and/or research experience in general biochemistry, enzyme chemistry or molecular biology. Foreign-language skills a plus.

Pharmaceutical Chemist - Bachelor's degree or higher with course work and/or research experience in pharmaceutical chemistry. German language skills are highly desirable.

Endocrinologist - Master's degree or higher with a strong background in endocrinology course work and/or research experience.

Responsibilities include: analyzing, abstracting, and indexing chemistry journal articles and patents and/or identifying, analyzing, and drawing chemical structure diagrams for registration. Candidates will work individually and in a collaborative team environment.

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A Division of the American Chemical Society

DEPARTMENT OF MEDICINE
SECTION OF INFECTIOUS DISEASES
YALE UNIVERSITY

The Section of Infectious Diseases is seeking outstanding applicants to fill two tenure-track positions at the **ASSISTANT PROFESSOR** level. Candidates should hold an M.D. or M.D./Ph.D. degrees, have a background in clinical training, and have Board eligibility in infectious diseases; have demonstrated the potential to establish an independent and creative research program; and have a major commitment to basic research in infectious diseases. Individuals working in the areas of HIV pathogenesis or translational research in HIV therapeutics will also be considered.

Applicants should submit curriculum vitae, a statement of research interests, and the names of three references to:

Dr. Keith A. Joiner
Yale University School of Medicine
333 Cedar Street, LCI 808
P.O. Box 208022
New Haven, CT 06520-8022

Yale University is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION

Available immediately to study transcriptional regulation of hematopoietic stem cell self-renewal and differentiation. These studies will include isolation/characterization of enriched hematopoietic stem cell populations from mice and retroviral-mediated gene transfer. Applicants should have a strong background in molecular and cellular biology and a high level of motivation. Interested individuals should submit their curriculum vitae and the names of three references to: **American Red Cross Holland Laboratory, HR (HL-007), Attention: Kevin D. Bunting, Ph.D., Hematopoiesis Department, 15601 Crabbs Branch Way, Rockville, MD 20855. E-mail: MonicaH@usa.redcross.org**. *Equal Opportunity Employer; Minorities/Females/Disabled/Veterans.*

VIROLOGISTS
(B.S., M.S., or Ph.D.)

Requires a strong scientific background in virology and a minimum of three years of practical experience working with respiratory syncytial virus or other pneumoviruses. Candidates will be considered for positions at all levels (B.S., M.S., or Ph.D.). Accomplishments in one or more of the following areas preferred: (1) drug screening, (2) assay development, (3) protein expression, and/or (4) monoclonal antibody development. Panacos offers excellent compensation, benefits, and working environment. Please send cover letter, résumé, and salary requirements to: **Panacos Pharmaceuticals, Inc., Attention: Job Title Virologist, 217 Perry Parkway, Gaithersburg, MD 20877. FAX: 301-947-0795.**

POSTDOCTORAL ASSOCIATE in sensory neurobiology. Join an NIH-funded team studying cellular/molecular aspects of signal transduction in taste buds (e.g., **Caicedo and Roper**, *Science* February 23, 2001; **website: http://chroma.med.miami.edu/physiol/faculty/sr/html**). Requirements include experience with (1) immunostaining and *in situ* hybridization, or (2) voltage clamp electrophysiology. Must have publications in English-language journals. Send curriculum vitae and names of references to: **Dr. S. Roper, Physiology/Biophysics (R430), University of Miami Medical School, 1600 N.W. 10th Avenue, Miami, FL 33136. E-mail: roper@miami.edu.**

BIOLOGY INSTRUCTOR, Foothill College, San Francisco Bay area. Teach college biology courses including anatomy and physiology of plants and animals and ecology and evolutionary biology. Also teach marine biology, human biology, and general biology for nonmajors. Qualifications: M.S. in biological science. For application materials, contact: **Employment Services; Telephone: 650-949-6217; e-mail: employment@fhda.edu; website: wwwfh.fhda.edu/district/hr/employment.html.**

POSITIONS OPEN

DIRECTOR
INSTITUTE OF BIOSCIENCES AND TECHNOLOGY
The Texas A&M University System Health Science Center

The Institute of Biosciences and Technology (IBT) is a dedicated research component of the newly created Texas A&M University System Health Science Center (TAMUSHSC), the latter encompassing seven entities within the state of Texas. The IBT is housed within a recently constructed 11-floor research tower located in the Texas Medical Center (TMC), Houston, Texas, of which the IBT is also a component. The mission of the IBT is to project the research prowess of the Health Science Center of the world's largest land grant university into the world's largest medical center via basic research and applications at the interface of agriculture and medicine. Approximately 13 tenured or tenure-track faculty lead laboratory groups associated with centers for genome research, extracellular matrix biology, cancer biology and nutrition, structural biology, and bioinformatics. Via teaching and collaborative research, IBT faculty interact with other units within TAMUS and other TMC institutions such as the University of Texas Health Science Center, University of Texas M.D. Anderson Cancer Center, and Baylor College of Medicine.

The successful candidate will direct and administer the IBT, within which he/she will create and lead a new center with a highly visible research program that is consistent with the IBT mission and that attracts extramural support. Research themes will be favored that complement current IBT centers and facilities. The successful candidate will vigorously encourage and participate in graduate education and other teaching and service activities of the IBT.

The Director will provide oversight for the mission, direction, and future research themes of the IBT as a whole. He/she will be responsible for the hiring of new faculty, directors of new research centers and senior administrative personnel, the supervision of IBT Scientists and senior administrative personnel, and establishment and administration of the IBT budget. He/she will lead fundraising and development activities and will supervise public relations activities in support of the IBT and TAMUSHSC.

The successful candidate will have an M.D., D.D.S., or Ph.D. in a biological science; a demonstrated ability to lead a research team conducting independent research; and administrative experience beyond that associated with an individual research group, preferably in the development of an interdisciplinary research institute.

Formal review of applicants will commence March 1, 2001, and will continue until the position is filled.

Applicants should submit curriculum vitae, brief statement of research interests, and the names and addresses of three individuals who may be contacted for letters of reference to: **Paul D. Gershon, Ph.D. (Search Committee Chair), Institute of Biosciences and Technology, 2121 West Holcombe Boulevard, Houston, TX 77030-3303. Website: http://www.tamu.edu/ibt/ibt.htm**. *An Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITION

Postdoctoral position available on NIH-funded project to study cellular and pharmacological basis of oromotor coordination in the brain stem. Microinfusion, chronic recording, and experimental neuroanatomical approaches. *JCN* **427**:124–138, 2000; *Exp. Brain Res.* **130**:78–92, 2000. Send curriculum vitae and names of three references to: **Dr. Joseph Travers, College of Dentistry, Ohio State University, 305 West 12th Avenue, P.O. Box 182357, Columbus, OH 43218-2357. E-mail: Travers.1@osu.edu.**

POSITIONS OPEN

DUKE UNIVERSITY EYE CENTER

Duke University Eye Center seeks additional full-time Basic Scientist faculty to join the Department of Ophthalmology. Academic rank and compensation package are commensurate with qualifications and experience. Applicants must have or be competitive in obtaining independent peer-reviewed research funding to establish outstanding research programs related to diseases of the eye. The existing research programs focus on glaucoma as well as diseases of the cornea, retina, and lens. Research involves linkage studies, mutational analyses, pathobiological studies, experiments with transgenic animal models, ocular genomics, and the development of methods for cell/tissue transplantation and ocular gene therapy. Current research facilities are supported in part by a Core Grant for Vision Research from the National Eye Institute and by the Research to Prevent Blindness, Inc.

Successful candidates will be nominated for joint appointments in one of the excellent basic science departments at Duke University.

Applicants should submit complete curriculum vitae and a description of research interests and career development plans to: **Mrs. Cathy Cox, Office of the Research Director, Duke University Eye Center, Box 3802, Erwin Road, Durham, NC 27710**. The names of three references with their addresses, telephone numbers, and e-mail addresses should also be provided. The deadline for receipt of the applications is April 30, 2001. The Search Committee will continue reviewing applications until the positions are filled. *Duke University is an Equal Employment Opportunity/Affirmative Action Employer and encourages applications from underrepresented groups including minorities, women, and persons with disabilities.*

ASSISTANT PROFESSORSHIP
BIOLOGICAL SCIENCES
University of Tennessee at Martin

Tenure-track position effective August 1, 2001, to teach ichthyology, limnology, and introductory biology. Preference will be given to applicants also qualified to teach herpetology. Requirements: Ph.D. in biological sciences with appropriate training by hire date. Each specialty course involves field exercises in which the teacher is expected to actively participate. Other duties include activities as listed in the departmental bylaws. Send letter of application, current curriculum vitae, statement of teaching philosophy, official graduate transcripts, and three letters of reference from individuals who can comment on your teaching ability to: **Search Committee, Biological Sciences, University of Tennessee at Martin, Martin, TN 38238**. To be considered, an applicant's file must be complete. Review of applications will begin April 2, 2001, and will continue until a suitable candidate is identified. *UTM is an Equal Employment Opportunity/Affirmative Action/Title VI/Title IX/Section 504/Americans With Disabilities Act/Age Discrimination in Employment Act Employer.*

POSTDOCTORAL POSITION
TUMOR SUPPRESSOR BIOLOGY

Postdoctoral position available to analyze the mechanism by which conserved human tumor suppressor genes block oncogenesis in *Drosophila*. A highly motivated, energetic applicant with strong background in biochemistry and/or molecular and cell biology is preferred. Salary is negotiable depending on qualifications and experience of the candidate. Please send curriculum vitae, reprints of published research papers, and contact information for three references to: **Scott Goode, Ph.D., Department of Pathology, Baylor College of Medicine, Houston, TX 77030. Telephone: 713-798-8828; FAX: 713-798-5838; e-mail: sgoode@bcm.tmc.edu**. *Baylor College of Medicine is an Equal Opportunity/Affirmative Action/Equal Access Employer.*

NATIONAL CANCER INSTITUTE
Division of Basic Sciences

POSITIONS AVAILABLE:
Mouse Cancer Genetics

The Mouse Cancer Genetics Program (MCGP), Division of Basic Sciences, of the National Cancer Institute (NCI)-Frederick, National Institutes of Health invites applications from outstanding candidates for two full-time,TENURE-TRACK POSITIONS with interest in mouse cancer genetics. The goal is to create a large highly interactive group of independent investigators working in research areas relating to mouse cancer genetics. The successful applicants will have access to exceptional animal facilities as well as state-of-the-art genomics, transgenic and mouse knockout facilities, and will be provided with newly renovated research space at the NCI campus in Frederick, MD. Candidates must have a Ph.D. or M.D. or the equivalent and at least two years of postdoctoral training. Applicants with research experience in one or more of the following areas are particularly encouraged to apply: mouse cancer models, mouse cancer genetics, mouse modifier screens/cancer QTLs, mouse mutagenesis (insertional/chemical), or new genomic/genetic technologies applicable to mouse cancer genetics.

A two-page statement of research interests and goals in addition to three letters of recommendation and a curriculum vitae should be sent to:

Valerie Turnquist
Building 578, Room 24
NCI-Frederick
P.O. Box B,
Frederick, MD 21702
phone (301)846-5011
fax (301)846-6053.

NATIONAL CANCER INSTITUTE

Applications must be received by March 30, 2001.

The National Cancer Institute is an Equal Opportunity Employer

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Faculty Positions
Department of Pharmacology
The University of Michigan

The Department of Pharmacology is seeking applications for two tenure-track positions at the ASSISTANT or ASSOCIATE PROFESSOR level. Applicants should have a Ph.D. and/or M.D., significant postdoctoral experience, and a record of excellent research accomplishment. We are seeking outstanding individuals with research experience and interests which augment current departmental programs.

Applicants with research in the following areas are especially welcomed: 1) Gene expression in the cardiovascular system or cardiovascular disease, 2) Subcellular compartmentalization in signal transduction and/or ion channel regulation, and 3) Pharmacogenetics of drug metabolism or proteomic/genomic approaches to significant pharmacologic problems. Successful candidates will be expected to establish and maintain active, externally funded research programs and to participate in teaching medical students and other health professionals, as well as graduate and postdoctoral students. An attractive start-up package including excellent facilities and generous start-up funds will be available.

Send curriculum vitae, a brief description of current and future research directions, and information about teaching experience. Three letters of recommendation should be requested. Address correspondence to: **Dr. Richard Neubig, Chair, Pharmacology Search Committee, Department of Pharmacology, The University of Michigan Medical School, 1150 West Medical Center Dr., Ann Arbor, MI 48109-0632.**

Information about current faculty interests is available at
http://www.med.umich.edu/pharm/faculty.html

The University of Michigan is an Affirmative Action/Equal Opportunity Employer. Applications from qualified women, minorities and/or disabled individuals are encouraged.

Pharmacologist

Section for Psychosis and Cognition

We have a vacancy for a pharmacologist within the department of Psychopharmacology, Psychosis. The department constitutes part of the division of Psychopharmacology which is responsible for the in vivo characterisation of compounds with potential utility in the treatment of psychosis. The department currently has a staff of 10 employees.

Responsibilities
The candidate will be responsible for the use and setting up of behavioural models relevant for the characterisation of antipsychotics. Responsibilities include management and organisation of the daily work for technicians, planning and execution of experiments and communication of the results. You will participate in all stages of drug discovery projects through participation in interdisciplinary project groups.

Requirements
You have a background in biological sciences with a PhD in neuropharmacology and some post-doctoral experience, preferably with some experience in industry. Published expertise in the field of behavioural pharmacology would be an advantage. You must be initiative, be able to define your own research projects, work efficiently and be goal-oriented. Essential for all our future employees is their desire and ability to communicate and collaborate effectively with colleagues as members of a multidisciplinary project team. Fluency in English is essential.

We offer
The successful candidate will have a job with a great degree of independence in an expanding international company. In addition, the job carries an attractive remuneration and benefits package. The position is located at our head office in Copenhagen, Denmark.

Contact
For further information please contact head of department Michael Didriksen, extension 3111 or e-mail mdi@lundbeck.com. Please send your application and a full CV quoting reference "Pharmacologist – Psychosis and Cognition 808" to the Personal Department or to jobs@lundbeck.com. Applications should be received by 16 March 2001. Please state in your application where you have seen this advertisement.

H. Lundbeck A/S is an international pharmaceutical company. Our research is focused exclusively on drugs for the treatment of diseases in the central nervous system. We operate globally and exports account for more than 95% of the turnover, which exceeded 4,1 bn in 1999. We market and sell our products in 69 countries. The Lundbeck Group has 2,823 full-time employees whereof approximately half work in Denmark. We are working consciously at creating ideal working conditions for our employees, where all activities are based on respect for the individual.

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H. Lundbeck A/S
Specialists in psychiatry, pioneers in neurology

POSITIONS OPEN

Positions available: molecular parasitology and RNA transsplicing. Two NIH-funded positions available at the City University of New York Graduate Center (College of Staten Island) to study mRNA metabolism in parasitic nematodes. **POSTDOCTORAL FELLOW** position requires Ph.D. with experience in molecular biology/biochemistry and preferably mRNA metabolism (translation or stability). **TECHNICIAN** position requires B.S./M.S. degree with more than two years of laboratory experience in molecular biology. Successful candidates will use RNA transfection and reporter assays to study the role of spliced leader and variant cap structure on transspliced mRNA metabolism *in vivo* and characterize cap-binding proteins using *in vitro* systems. See **website: http://www.library.csi.cuny.edu/~davis/faculty_page/**. E-mail curriculum vitae/résumé including experience and contact information for three references to **e-mail: redavis@postbox.csi.cuny.edu**. *Research Foundation of CUNY is an Equal Opportunity/Affirmative Action/Americans With Disabilities Act Employer.*

The Center for Scientific Review, NIH, announces possible openings for a **SCIENTIFIC REVIEW ADMINISTRATOR** for a study section within the Division of Molecular and Cellular Mechanisms. The individual must have a broad knowledge of the area of bioinformatics with a strong background in any of the areas of biochemistry, biophysics, cell biology, genetics, immunology, microbiology, or neurosciences. The salary will be commensurate with experience. The applicant must have a Ph.D. or equivalent degree (or a combination of equivalent training and experience), postdoctoral independent research and administrative experience, and a record of research accomplishment. A recruitment/relocation bonus may be available. For further information, send **e-mail** to: **laingc@csr.nih.gov.**

NIH is an Equal Opportunity Employer. Selection for any position will be based on merit with no discrimination for nonmerit reasons such as race, color, sex, national origin, marital status, handicap, age, sexual orientation, or membership/nonmembership in an employee organization.

The Department of Biology, Manhattanville College, seeks broadly trained Biologist for a full-time tenure-track **ASSISTANT PROFESSOR** beginning in the fall 2001 semester. Applicants must have a Ph.D. in biology and the ability to teach microbiology, immunology, and biochemistry in addition to several introductory courses. Candidates must demonstrate excellence in teaching, scholarship, and professional development. Applications including cover letter; current curriculum vitae; and names and telephone numbers of three references must be postmarked no later than March 23, 2001, to: **Dr. Annemarie Betoica, Chair, Biology Department, Manhattanville College, 2900 Purchase Street, Purchase, NY 10577**. *Manhattanville College is an Affirmative Action/Equal Opportunity Employer.*

EXECUTIVE DIRECTOR, Humboldt State University Foundation: Humboldt State University Foundation, Arcata, California. Chief Operating Officer responsible for the day-to-day operation of the research foundation. Bachelor's degree and three years of experience in higher education administration required. Master's degree or higher preferred. Application review will begin March 14, 2001. For complete information on duties/minimum qualifications, campus location, and application procedures, visit **website: www.humboldt.edu/~joblist** or contact: Human Resources; Telephone: 707-826-3626. *Humboldt State University is an Equal Opportunity/Affirmative Action/Title IX Employer.*

RESEARCH ASSOCIATE. Conduct research on synthesis and characterization of bioconjugated polymers. Ph.D. degree and strong background in synthetic polymer chemistry required. Experiences in biochemistry a plus. Salary: $30,000 per annum. Send résumé and three recommendation letters to: **Professor Kalle Levon, Chair, Department of Chemistry and Chemical Engineering, Polytechnic University of New York, 6 Metrotech Center, Brooklyn, NY 11201.**

POSITIONS OPEN

VICE PRESIDENT
GLOBAL MARINE CONSERVATION
CONSERVATION INTERNATIONAL

Conservation International is seeking an experienced international leader to head its Global Marine Conservation Department. We are a nongovernmental organization working in 27 countries in the Americas, Asia, and Africa to conserve global biodiversity. This position reports to the Senior Vice President for Field Support and leads Conservation International's efforts to create a large-scale conservation strategy for marine biodiversity focusing on coral reefs and coastal system. The program will collaborate with the scientific biodiversity mapping and priority-setting program within the Center for Applied Conservation Science and apply cutting-edge conservation concepts and tools to protecting marine biodiversity priority areas. Additionally, policy and threats of relevance to marine conservation will be addressed at national and international scales. The Vice President will prepare the institutional global marine strategy for review by the organization as well as support the regional programs in the development of their regional marine conservation strategies. This position involves the supervision of programs within the Global Marine Conservation Department (Marine Protected Areas Design and Field Support and Marine Threats and Policy Assessments) and the coordination with CI's country and regional programs for strategy development and the support of CI's field programs' technical needs. The Vice President works with the field program staff to produce clear and focused strategies for marine biodiversity conservation in high-priority areas and set goals for the Department's activities and programs. The Vice President will also raise restricted program funds from foundations and other funding sources. The ideal candidate will have the following qualifications: (1) a Ph.D. degree in a relevant discipline plus seven to 10 years of experience in global marine biodiversity conservation at national and international levels; (2) working experience in Latin America, Asia, and/or Africa; (3) outstanding leadership and management abilities; (4) excellent writing and public speaking skills; and (5) knowledge of French, Spanish, and/or Portuguese desirable. Please send curriculum vitae and cover letter by March 15, 2001, to **e-mail: hr@conservation.org**, referencing **Vice President, Global Marine Conservation**. We are located at **1919 M Street, N.W., Washington, DC 20036 U.S.A.** For full job description, visit **website: www.conservation.org**. *An Equal Employment Opportunity Employer.*

INVERTEBRATE ZOOLOGIST

The Biology Department of Albion College seeks a full-time, tenure-track Invertebrate Zoologist at the rank of **ASSISTANT PROFESSOR** to begin in August 2001. A Ph.D. is required. College teaching experience is preferred. The successful candidate will be expected to teach majors courses in invertebrate zoology and ecology and to develop a course in the candidate's area of expertise. The candidate will share responsibilities in an introductory ecology, evolution, and biodiversity course and have the opportunity to interact with the College's Environmental Institute. A research program that incorporates undergraduate students is expected. Facilities include controlled environmental chambers, standard molecular biology equipment, TEM and SEM, and a 58-hectare nature center adjacent to campus. Albion College is a selective liberal arts college of approximately 1,500 students located in south central Michigan within an hour's drive of three major universities. See **website: http://www.albion.edu/biology/** for further information. Send letter of application including teaching philosophy and research interests, curriculum vitae, reprints, graduate and undergraduate transcripts, and three letters of reference to: **Dr. J. Dan Skean, Jr., Chair, Biology Department, Albion College, Albion, MI 49224**. The deadline for applications is March 30, 2001. *Albion College is an Equal Opportunity Employer committed to diversity as a core institutional value.*

POSITIONS OPEN

RESEARCH SCIENTIST to design and develop process for synthesis of pharmaceutically interesting molecules such as peptides, peptitide mimetics, oligonucleotides, unnatural amino acids analogues (including resolution using enzymatic approach), and small organic molecules using combinatorial approach, including solid-phase synthesis and multistep parallel synthesis, in order to accelerate drug discovery for various biological targets. To research and develop production process including development of linkers, protecting groups, and reagents for high-throughput synthesis using combinatorial approach. To purify, identify, and analyze pharmaceutical molecules using high-throughput techniques such as Bio Tage, preparative HPLC, analytical HPLC, NMR, and MS. Forty hours per week; Monday through Friday, 8:30 a.m. to 5 p.m. Salary: $75,500 per year. Must have a Ph.D. in organic chemistry and two years of experience as a Research Scientist in industrial process development of drugs. Apply by résumé to: **Colorado Department of Labor and Employment Programs, Attention: Jim Shimada, Tower 2, Suite 400, 1515 Arapahoe Street, Denver, CO 80202-2117**. Refer to Order Number JL1117193.

RESEARCH SCIENTISTS OR PHYSICIAN/SCIENTISTS
Pulmonary Inflammation
Pulmonary Development

The Department of Pediatrics, Rainbow Babies and Children's Hospital/Case Western Reserve University is soliciting applications for tenure-track faculty positions for **INSTRUCTORS** or **ASSISTANT PROFESSORS** within a well-developed research community studying the molecular regulation of pulmonary inflammation, pulmonary development, or leukocyte biology. Applicants should have a Ph.D. or M.D., excellent research training, and the goal of establishing an independent, extramurally funded research program. Submit curriculum vitae, statement of research interests, and names of three references to: **Claire M. Doerschuk, M.D., Rainbow Babies and Children's Hospital, Room 787, 11100 Euclid Avenue, Cleveland, OH 44106-6003. E-mail: cmd22@po.cwru.edu**. *CWRU is an Equal Opportunity/Affirmative Action Employer. Qualified women and minority candidates are encouraged to apply.*

RESEARCH ASSOCIATE

Position available immediately in the Department of Biochemistry and Molecular Biology at the Uniformed Services University of the Health Sciences (USUHS). The research will involve a study of the cellular and molecular regulation of isoprenoids and cholesterol production and signaling. A Ph.D. or M.D. degree and experience in molecular biology are essential. Please forward curriculum vitae, a cover letter with statement of research experience, and contact information (include e-mail addresses) of at least three references by 23 March 2001 to:

Ishaiahu Shechter, Ph.D.
Professor and Chair
Department of Biochemistry and Molecular Biology
4301 Jones Bridge Road
Bethesda, MD 20814-4799

USUHS is an Equal Employment Opportunity Employer.

POSTDOCTORAL POSITION available: To join a small laboratory focusing on the identification and characterization of genes involved in apoptosis and phagocytosis in *Drosophila* with emphasis on the regulation of these processes during development. Send curriculum vitae and references to: **Kristin White, CBRC, Massachusetts General Hospital, Harvard Medical School, Building 149, 13th Street, Charlestown, MA 02129**. For further information, please **e-mail: kristin.white@cbrc2.mgh.harvard.edu**. *The MGH/Harvard Cutaneous Biology Research Center is a committed Equal Opportunity/Affirmative Action Employer. Minorities, women, handicapped, and veterans are encouraged to apply.*

Magainin Pharmaceuticals Inc.

In the extraordinary biopharmaceutical world, we're innovators. We're proud to discover and develop products that improve the health of the world around us. In particular we focus our development efforts in anti-angiogenesis, obesity and respiratory genomics. Are you ready to venture into the genetic era with us?

RESEARCH SCIENTISTS

As part of our Research team, you'll find our environment to be a cut above the rest. You'll enjoy significant potential for career growth and the excitement of being a part of pharmaceutical development. Your B.S./M.S./ Ph.D. and Cellular and Molecular Biology academic or industry background should include tissue culture and/or animal disease model experience. Backgrounds in immunology or signal transduction are preferred.

Please submit resume to: **HR, Magainin Pharm., 5110 Campus Dr., Plymouth Meeting, PA 19462. Fax: 610-941-5399.** EOE. No phone calls please.

(www.magainin.com)

TENURE TRACK FACULTY POSITIONS

CARDIOVASCULAR SCIENCE & CELL SIGNALING

The Department of Pharmacology at the SUNY Upstate Medical University invites applications for 3 tenure-track faculty positions at the **ASSISTANT PROFESSOR** level. Candidates are expected to develop independent research programs and contribute to graduate and medical education.

We seek two outstanding individuals studying fundamental problems in the cardiovascular field. These candidates are expected to join our newly established **Institute of Cardiovascular Research.** One of these candidates should have an outstanding record of achievement in the area of cellular electrophysiology with emphasis in cardiac fibrillation and defibrillation. Expertise in optical mapping approaches using voltage and calcium sensitive dyes is essential. The second candidate should have a strong record of research in cardiac development, molecular cardiology, or vascular biology. Individuals with expertise in cell biology, molecular genetics, structural biology or genomics/proteomics are encouraged to apply.

The third candidate will be expected to study **signal transduction/intracellular signaling** in eukaryotic cells and complement existing strengths of the Department in these areas. Priority will be given to those individuals whose research involves molecular biology, single cell imaging or genomics/proteomics.

For details of current Department research programs see http://www.upstate.edu/pharm/.

Requirements for all positions are a Ph.D. degree or equivalent, postdoctoral experience and excellent record of research productivity. Salary, space and start-up funds are competitive with national levels. Send applications including a statement of research interests and goals, a curriculum vitae and three letters of reference to: **José Jalife, M.D., Chair, Department of Pharmacology, SUNY Upstate Medical University, 750 East Adams Street, Syracuse, NY 13210.** Review of applications will start January 3, 2001.

State University of New York

Upstate Medical University

Formerly known as SUNY Health Science Center

SUNY Upstate Medical University is an EOE/AA/ADA employer strongly committed to excellence through diversity.

St. Jude Children's Research Hospital

ALSAC · Danny Thomas, Founder

Postdoctoral position in Molecular Neurobiology

The focus of this laboratory is identification of important signaling events in neurodegeneration and neuronal apoptosis. Specifically, our work concerns the molecular events involved in neuronal apoptosis in response to genotoxic stress, and the molecular basis for neurodegeneration in the human syndrome of ataxia telangiectasia. Additionally, cDNA microarray analysis and subtractive hybridization methodology are being used to identify gene expression changes required for radiation-induced apoptosis. For a general description of work in this laboratory see: *Science* ***280****; 1089, PNAS* ***97****; 889 Trends in Neuroscience* ***23****; 417, Genes and Development* ***14****; 2576.* This position requires a recent Ph.D. and/or M.D., and will provide excellent training for someone interested in obtaining experience in current techniques in molecular neurobiology, with a particular emphasis on transgenic mouse technology and cDNA microarray analysis.

St Jude provides superb support facilities and a research environment that is highly interactive. Interested candidates should send a curriculum vitae and must arrange to have three letters of recommendation sent to:

Peter McKinnon, Ph.D.
Department of Genetics
(Job Code: 1835)
St. Jude Children's Research Hospital
332 North Lauderdale • Memphis, TN 38101

SJCRH is an Affirmative Action/Equal Opportunity Employer.

FACULTY SEARCH: REGULATORY BIOLOGY
The Salk Institute, La Jolla, CA

MEANINGFUL RESEARCH FOR A BRIGHTER FUTURE

If you want to make the most of your abilities and experience, you need the resources and support that can only be provided by a leading organization. Consider a move to the Salk Institute, one of the world's leading institutions that is dedicated to fundamental research in biology and its relation to health. We study such challenging problems as the organization and operation of the brain, the control of gene activity, and the molecular origins of cancer, AIDS and other diseases.

This tenure-track faculty position is available for an outstanding molecular biologist in the field of either chromatin or nuclear structure. We are particularly interested in the following areas: transcription; nuclear organization; subnuclear localization and imaging; imprinting; X-chromosome inactivation; cellular differentiation mechanisms, including those related to cancer and aging. You need to possess a strong record of research accomplishment and be able to develop an independent research program.

We offer an attractive salary with excellent benefits. Candidates must be legally employable in the United States. For prompt consideration, submit curriculum vitae, summary of current and proposed research programs, and arrange for three letters of recommendation to be sent to:

THE SALK INSTITUTE

www.salk.edu

E-mail: communications@salk.edu
Fax: 858-552-8285

Chair, Regulatory Biology Search Committee
Salk Institute for Biological Studies
10010 North Torrey Pines Road
La Jolla, CA 92037

EOE

POSITIONS OPEN

TWO POSITIONS
USDA/ARS
Applachian Fruit Research Station

RESEARCH GENETICIST/MOLECULAR BIOLOGIST to conduct research on the genetic transformation of peach and other commercially important *Prunus* species and to develop innovative and effective genetic-based virus control strategies for plum pox and other major *Prunus* viruses. An extensive knowledge of the genetic management of plant diseases through classical and molecular methods is required to develop both effective technologies and resistant germplasm. Application must be postmarked no later than March 19, 2001.

MOLECULAR BIOLOGIST/PLANT PATHOLOGIST to conduct research on stone fruit host/viral pathogen interactions on the molecular level that lead to resistance to plum pox and other important stone fruit viruses. An extensive knowledge of the molecular biology of plant/pathogen interactions is required to develop effective virus control strategies at the gene level. Application must be postmarked no later than April 9, 2001.

Both positions require U.S. citizenship and Ph.D. is desired. Salary range: $44,352 to $60,242 plus benefits. For application information, contact: **Maryanne Cage; Telephone: 304-725-3451, Extension 332; e-mail: Mcage@afrs.ars.usda.gov**. *USDA is an Equal Opportunity Employer. Women and minorities are encouraged to apply.*

MOLECULAR BIOLOGIST
(Plant Breeding)
GS–401–11/12/13
U.S. Department of Agriculture
Agriculture Research Service

The Plant Genetic Resources Unit located in Geneva, New York, is seeking to fill a permanent, full-time Molecular Biologist (Plant Breeding) GS–11/12/13 position to develop molecular approaches to the breeding, characterization, and evaluation of scion varieties for the northeastern United States for improved fruit, juice, and wine quality; abiotic stress tolerance; and disease and insect resistance. Collaboration with other U.S. Department of Agriculture and university Scientists across a wide range of scientific disciplines including horticulture, plant pathology, entomology, food science, and applied plant genomics is essential. For more information on the research program, contact: **Dr. Warren F. Lamboy; Telephone: 315-787-2359.** For a copy of the vacancy announcement/application forms, call **Tiffany Fisk; Telephone: 315-787-2307; website: http://www.ars.usda.gov/afm/hrd/resjobs/index.html**. Applications should be marked ARS–X1E–1135 and must be postmarked by March 19, 2001. *USDA is an Equal Opportunity Provider and Employer. Women and minorities are encouraged to apply.*

MOLECULAR IMMUNOLOGIST/ RHEUMATOLOGIST

The University of Iowa College of Medicine seeks to award the Kelting Chair in Rheumatology to a current and future research leader in academic medicine who will join a vigorous and highly interactive interdisciplinary community in immunologic research. The awardee must be a Physician Scientist who directs a highly successful research program in molecular immunology relevant to rheumatic disease. He or she must hold an M.D. or M.D./Ph.D. degree. Preference will be given to those candidates clinically qualified in rheumatology. The successful candidate will be given a primary appointment at the rank of **ASSOCIATE** or **FULL PROFESSOR** of internal medicine. Applicants should send curriculum vitae to: **Jill Kinnaird, Department of Internal Medicine, Division of Rheumatology C31–R GH, The University of Iowa, Iowa City, IA 52242-1081. Telephone: 319-356-2413; FAX 319-353-6290; e-mail: jill-kinnaird@uiowa.edu**. *The University of Iowa is an Equal Opportunity/Affirmative Action Employer. Women and minorities are strongly encouraged to apply.*

POSITIONS OPEN

RESEARCH MICROBIOLOGIST/VIROLOGIST. The United States Department of Agriculture, Agricultural Research Service (ARS), Food Safety and Health Research Unit, Western Regional Research Center, Albany, California (San Francisco Bay area), is accepting applications for the position of Microbiologist/Research Virologist (GS–12/13 depending upon training and experience; $56,411 to $87,212 per annum plus benefits). The incumbent will be a permanent Scientist in a unit working on the biology and control of human pathogens related to poultry and fresh produce. The incumbent defines approaches and plans experimental procedures on aspects of the project involving development of methods for (1) detecting and identifying multiple viruses related to contamination of food (e.g., Norwalk, Rota, and hepatitis A viruses); (2) growing and maintaining viruses that are currently difficult to grow; (3) identifying and characterizing viral genes and factors important for virus survival in host cells; and (4) viral genomics. General objectives of the research are to better understand the biology of human viral pathogens in food environments and to use this knowledge to develop new strategies for control. A Ph.D. or equivalent Doctoral degree or one year of specialized experience is required.

Candidate must be a U.S. citizen. A complete copy of the vacancy announcement and how and where to apply can be obtained at **website: http://www.afm.ars.usda.gov/divisions/hrd/index.html** and select announcement ARS–X1W–1190; or contact: **Personnel; Telephone: 510-559-6090**. Closing date for applications is April 16, 2001. For information, contact: **Robert Mandrell, USDA, ARS, WRRC, Albany, CA 94710. E-mail: mandrell@pw.usda.gov**. *USDA/ARS is an Equal Opportunity Provider and Employer. Women and minorities are encouraged to apply.*

PLANT PHYSIOLOGICAL ECOLOGIST/ ASSISTANT PROFESSOR, Department of Biological Sciences, Eastern Kentucky University. Tenure-track, nine-month appointment to begin August 15, 2001, to teach plant physiology and to join other faculty in teaching general botany and nonmajors biology for teachers; development of an advanced course in plant physiological ecology possible. A 12-hour/semester teaching load and an active research program involving undergraduate and M.S. graduate students are expected. Candidates with interests in science education and in working with local teachers to develop stronger biology curricula are especially encouraged to apply. For details of the position, qualifications of candidates, and mechanism for application, please see the departmental **website: www.biology.eku.edu**. Review of applications will begin on March 16, 2001, and continue until the position is filled. *Eastern Kentucky University is an Equal Opportunity/ Affirmative Action Employer. Minorities and women are strongly encouraged to apply.*

POSTDOCTORAL FELLOW
Columbia University
College of Physicians and Surgeons

NIH training grant position available for a Postdoctoral Fellow (M.D. or Ph.D.) interested in studies of transcriptional regulation and gene therapy in hematopoietic cells. *Must be a U.S. citizen or U.S. permanent resident.* Please send résumé and cover letter to:

Dr. Arthur Bank
Columbia University
HHSC 16-1604
701 West 168th Street
New York, NY 10032
E-mail: bank@cuccfa.ccc.columbia.edu

Columbia University takes Affirmative Action to ensure Equal Opportunity.

POSITIONS OPEN

TRANSPLANTATION IMMUNOBIOLOGIST

The Department of Pathology and the Cancer Center at the University of Illinois at Chicago jointly invite applications for a full-time tenure-track research faculty position at the level of **ASSISTANT, ASSOCIATE**, or **FULL PROFESSOR**. Candidates should have a Ph.D. and/or M.D. and a strong background in transplantation immunobiology as reflected by a track record of productivity and peer-reviewed publications as well as independent extramural funding in human and/or experimental animal transplantation immunology. The successful candidate will be expected to maintain extramural funding and to develop a dynamic research program that enlists the collaboration of other faculty members within the institution involving clinical stem cell transplantation and preclinical transplantation tolerance models. The candidate also will be expected to provide training opportunities for students and Postdoctoral Fellows and to participate in the education of graduate and medical students. There are state-of-the-art, institutionally supported core facilities including those for flow cytometry, confocal microscopy, fluorescence imaging, mouse transgenics, ES cell manipulation, peptide synthesis, protein and DNA sequencing and microarray production and analysis, and laser capture microdissection. Faculty rank and salary will be commensurate with experience. Position open until filled. Interested individuals should send a letter of interest, curriculum vitae, a summary of research interests, and names of three references to: **Dr. Robert Folberg, Professor and Head, Department of Pathology (M/C 847), 446 College of Medicine West Building, University of Illinois at Chicago, 1819 West Polk Street, Chicago, IL 60612. Robert Folberg, M.D., Frances B. Geever Professor and Head, Department of Pathology, University of Illinois at Chicago (M/C 847) 1819 West Polk Street, 446 CMW, Chicago, IL 60612-7335. Telephone: 312-996-4601; FAX: 312-996-7586; e-mail: rfolberg@uic.edu; website: http://eyepath.comd.uic.edu**. *University of Illinois at Chicago is an Affirmative Action/Equal Opportunity Employer.*

RESEARCH SCIENTIST
NEUROBIOLOGY OF
MOVEMENT DISORDERS

The Toronto Western Research Institute (TWRI) is a multidisciplinary research centre affiliated with the University of Toronto, located at the Toronto Western Hospital, University Health Network. It has strong basic research programs in neuroscience, vision, and immunology together with complementary clinical research programs. The TWRI seeks a Basic Scientist in the field of neurodegenerative diseases leading to movement disorders. The areas of study may include fundamental neurobiology of neurodegeneration and neuronal death, neuropharmacology, neurophysiology, and the development of animal models of disease. We seek a Scientist with a strong record of achievement and the ability to develop an independent, externally funded research program with a focus on neurodegeneration and/or movement disorders. The position offers strong interactions and collaborations with an existing multidisciplinary team of Investigators and with complementary clinical research programs. The successful candidate will be employed by the Institute at the Scientist level and will hold a university academic rank based on their career achievements.

Please send curriculum vitae, statement of research interests, and three letters of support to: **Dr. Andres Lozano, Head of Applied and Interventional Research, Toronto Western Research Institute, 399 Bathurst Street, Toronto, Ontario M5T 2S8 Canada, c/o Flora Maragoulas, MP 14-327. E-mail: floram@uhnres.utoronto.ca**. Deadline: June 29, 2001.

The Toronto Western Research Institute and the University of Toronto are Equal Opportunity Employers. This is an international search open to all nationalities; however, in accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents.

GLOBAL OPPORTUNITIES

Positions open
CFO, VP for business development, VP for R&D, Department Heads and Project Leaders

HealthDigit Ltd. located in Shanghai is seeking high-rank scientific leader/managers. The fast-growing company is moving to the United States. Current focuses of the company include R&D, production, and marketing of biochip technologies and products. Immediate goals of the company includes the development of diagnostic biochips for cancer and other diseases, the cDNA arrays representing the complete sets of the human and mouse genes, large-scale production of antibodies against each and every human protein, etc.

CFO and VP for business development will have related experiences and a successful record in Western countries. For R&D positions, successful candidates should have a good understanding of the current cDNA array/microarray/protein array technologies and potential markets, and/or strategic thinking on the development of the biochip companies. Doctoral degrees in molecular biology, immunology, protein biochemistry, proteomics, bioengineering or genomics, and at least 3-year post-doctoral training experience are preferred.

We offer generous stock options and incomparable opportunities to your personal development.

Please send CV and an application letter via e-mail to:

Mr. Shaoyou Zhang
Human Resource Department
Shanghai HealthDigit Ltd.
481 Gui-Ping Road, Building 18, East F2
Shanghai 200233, China
Tel: 86-21-64855245, 64951211
Fax: 86-21-64855246
Email: humanresource@health-digit.com

Scientist Protein Expression

The Biosciences Division at Argonne National Laboratory is seeking qualified applicants in biochemistry to fill a principal investigator position in a multidisciplinary program involving the development of new technologies for structural and functional genomics. We are seeking candidates with an interest in conducting basic research in novel systems for the expression of proteins in prokaryotic and eukarystic cells, novel methods for isolation and purification of proteins; and the development of high-throughput systems including the use of robotic systems. Work will include close interactions with biochemists, molecular and structural biologists in an integrated approach to functional and structural genomics. Candidates should have a Ph.D. in biochemistry, biophysics or a related field and significant experience in protein expression, purification and functional analysis.

The Biosciences Division is developing a highly interdisciplinary and collaborative environment for genome-scale analysis of protein structure and function with a focus on Structural Genomics and its use in developing a comprehensive understanding of the function of gene products and their contribution to cell function.

For further information, please contact **Lee Makowski, Director, Biosciences Division (lmakowski@anl.gov)**.

Interested candidates should submit curriculum vitae, at least three reference names and addresses, and a short statement of their qualifications with particular relevance to the knowledge, skill and experience requirements cited above to **Susan Walker, Box BIO-300997-43, Argonne National Laboratory, 9700 S. Cass Avenue, Argonne, IL 60439.**

For additional information or to submit your resume, please visit our website at **http://www.hr.anl.gov/employment.htm**. Argonne is an affirmative action/equal opportunity employer.

BECKMAN FELLOWS PROGRAM

The Beckman Research Institute of the City of Hope invites applications for the Arnold and Mabel Beckman Fellows Program. This new program offers unique opportunities for postdoctoral scientists to conduct independent, interdisciplinary research in a number of areas of scientific endeavor, including:

- Cancer cell biology
- Stem cell biology
- Gene transfer research
- DNA mutagenesis, recombination and repair
- Neurobiology
- Molecular medicine
- T-cell development
- Eukaryotic transcriptional regulation
- Molecular biology of HIV
- NMR analyses of protein-nucleic acid interactions
- Proteomics
- RNA processing and catalytic actions
- Signal transduction

Fellows will receive an annual compensation package of $50,000, as well as a research budget of $40,000 per year. Beckman fellowships are renewable for three years. These postdoctoral positions are available for immediate application. More details concerning the Beckman Research Institute of the City of Hope can be found at http://www.cityofhope.org. Qualified candidates should contact:

Arthur Riggs, Ph.D.
Beckman Fellows Program
Beckman Research Institute of the City of Hope
1450 East Duarte Road
Duarte, CA 91010
Email: researchrecruit@coh.org
FAX: (626) 930-5394

The City of Hope is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans, and disabled persons are encouraged to apply.

BTI Boyce Thompson Institute

NEW INITIATIVE IN PLANT MOLECULAR ECOLOGY

The Boyce Thompson Institute for Plant Research at Cornell University invites applications from scientists who will use molecular and/or genomic approaches to study mechanisms underlying ecological interactions or evolutionary diversification. Up to six new faculty will be recruited over the next five years to build and/or strengthen programs in plant molecular ecology, plant pathology and plant development. Research areas of interest include, but are not limited to, microbial communities that affect plant growth and development; the mechanistic basis of adaptive phenotypic variation; and natural genetic variation of defined signal transduction pathways.

The successful candidate will establish a vigorous, extramurally funded research program and have the opportunity to integrate ecological studies with existing research thrusts in plant pathology and plant development at the Boyce Thompson Institute. The successful candidate will also have an opportunity to develop close ties with one or more departments or programs at Cornell University. Junior level scientists are encouraged to apply but the position is also open at a more senior level. Excellent start-up funds and benefits are available. Review of applications will begin April 2 and continue until the position is filled.

Applicants should send a curriculum vitae, a three to five page statement of research interests, and the names of at least four references to **Dr. Robert R. Granados, Chair, Plant Molecular Ecology Search Committee, Boyce Thompson Institute, Ithaca, New York 14853; 607-254-1265; e-mail rg28@cornell.edu**.

Boyce Thompson Institute is an affirmative action, equal opportunity employer and is committed to increasing the diversity of its faculty and staff. Applications from women and minorities are encouraged.

POSITIONS OPEN

POSTDOCTORAL POSITIONS available at the National Institutes of Health in Phoenix, Arizona, to identify and characterize novel susceptibility genes for Type 2 diabetes. Experience in molecular biology required; gene expression, cell culture, and biochemistry desirable. Send curriculum vitae and summary of relevant experience to: **Dr. Paska Permana, Clinical Diabetes and Nutrition Section, Phoenix, AZ 85016. FAX: 602-200-5335.**

A **POSTDOCTORAL POSITION** is available in the laboratory of **Dr. Yiumo Michael Chan** to study the molecular mechanism of muscular dystrophy utilizing a combination of molecular genetics, biochemical, and cell biology techniques. Current projects include characterization of proteins (dystrophin and sarcoglycans) mutated in muscular dystrophy, their potential role in signal transduction, and their assembly on the muscle membrane. Applicants should have a strong background in biochemistry or cell biology. Experience in protein purification, signal transduction, or membrane cytoskeleton is desirable. The Weis Center for Research is part of the Geisinger Medical Center, a tertiary care teaching hospital. Please send curriculum vitae and the names of three references to: **Kristin Gaul (YMC), Weis Center for Research, Geisinger Clinic, 100 North Academy Avenue, Danville, PA 17822-2600.**

EPIDEMIOLOGIST/POPULATION BIOLOGIST

Crosby, Heafey, Roach & May has immediate openings for full-time Scientific Consultants to assist in pharmaceutical, medical device, and other litigation involving scientific issues in its Oakland and Los Angeles, California, offices. Candidates should have a Ph.D. in biological science with at least two years of postdoctoral training or an M.P.H. in epidemiology with extensive research experience. Applicants should have a good working knowledge of vertebrate population biology, experimental design, human physiology, anatomy, and both multivariate and nonparametric statistics. Cardiovascular, orthopedic, and/or neurological backgrounds are desirable, but broad scientific training and exceptional writing and analytical skills are essential. Send curriculum vitae and cover letter detailing qualifications to: **Roxanne G. Morris, Practice Support Supervisor, Crosby, Heafey, Roach & May, 1999 Harrison Street, Suite 2600, Oakland, CA 94612. FAX: 510-273-8832; e-mail: rmorris@chrm.com.**

POSTDOCTORAL POSITIONS
Fungal Molecular Biology

Two positions immediately available to study novel P450 monooxygenase genes for their role in xenobiotic metabolism in fungi. Studies will require gene induction/regulation, disruption and heterologous expression, and catalytic analysis. Apply to: **Jagjit S. Yadav, Ph.D., Department of Environmental Health, University of Cincinnati Medical Center, Cincinnati, OH 45267. Telephone: 513-558-4806; FAX: 513-558-4397; E-mail: yadavjs@email.uc.edu.**

POSTDOCTORAL RESEARCH SCIENTIST

position available in the Department of Pediatrics, Columbia University. Exciting opportunity in perinatal research laboratory applying molecular techniques to developmental drug metabolism. Candidates must have Ph.D. with experience in molecular biology and/or pharmacology. Send curriculum vitae to: **Dr. M. Garland, 622 West 168th Street (PH4W-465), New York, NY 10032.** *Columbia University is an Affirmative Action/Equal Opportunity Employer and is particularly interested in applications from women and minorities.*

POSITIONS OPEN

SEARCH REOPENED

The Nature Conservancy of the Florida Keys is seeking a qualified MARINE ECOLOGIST to serve as Marine Science and Stewardship Program Manager. Deadline is March 2, 2001. Please send curriculum vitae and names of three professional references to: **Jim Fryer, P.O. Box 4958, Key West, FL 33041 U.S.A.**

CARDIOVASCULAR RESEARCH FOR GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS
The University of Virginia

The University of Virginia offers a multidisciplinary training program in basic cardiovascular research. Our special strengths are in the broad area of vascular biology. Thirty-one faculty members are mentoring both graduate students and Postdoctoral Fellows. Our particular strengths are in the areas of vascular development, structural biology, cell signaling, vascular cell adhesion, and microvascular function. Laboratory investigations are underway in cell-cell communications in microvessels, cardiac and smooth muscle cell signal transduction, angiogenesis, and leukocyte-endothelial cell interactions. Positions are well supported and include stipend, health insurance, and travel to scientific meetings. A special accelerated program also exists for M.D.s wishing to pursue the Ph.D. Details of the interests of faculty, a description of the program, and application forms may be found on our **website: http://www.med.virginia.edu/medicine/inter-dis/cvrc/.** For further information, **e-mail: cimcon@virginia.edu.** Competitive applicants also may apply directly to: **Dr. Brian R. Duling, Department of Molecular Physiology and Biological Physics, P.O. Box 800736, University of Virginia Health System, Charlottesville, VA 22908-0736.** *These positions are restricted to permanent residents or citizens of the United States. The University of Virginia is an Equal Opportunity Employer.*

POSTDOCTORAL POSITION: opportunity for an NIH-funded project developing a technique for the microperfusion of the human placental villous tree. Fluorescence methodologies will be used to measure maternal-fetal movement of substances across the trophoblast layer and to monitor intracellular parameters including pH and [Ca2+]. Applicants must have a Doctoral degree in an appropriate field and a background in reproductive cell biology and physiology. Experience in microperfusion, placental function, or transport physiology highly advantageous. Position available immediately; salary appropriate to experience. For more details, please contact: **Dr. Nicholas Illsley; e-mail: illsleni@umdnj.edu.** To apply, send curriculum vitae and names of three references to: **Nicholas Illsley, D.Phil., Department of Obstetrics, Gynecology, and Women's Health, University of Medicine and Dentistry of New Jersey Medical School, 185 South Orange Avenue, Newark, NJ 07103 U.S.A.** *Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITION
Spinal Cord Injury Repair

NIH-funded Postdoctoral position available to develop preclinical radiation therapy strategies that promote repair (*PNAS* **93**:11179; **93**:11185, 1996) in transection and in contusion spinal cord injury models. Studies focus on the means and timing whereby wound repair can be facilitated in injured spinal cord by radiation therapy; combining analyses by neuroanatomy, electrophysiology and motor behavior; and *in vivo* MRI in collaboration with the MRI laboratory. Experience in neurosurgical, neuroanatomical, and/or electrophysiological procedures is preferred; excellent manual and intellectual dexterity are required. Mail/e-mail curriculum vitae and names/telephone numbers/e-mail addresses of three references to: **Nurit Kalderon, Ph.D., Sloan–Kettering Institute for Cancer Research, Box 280, 1275 York Avenue, New York, NY 10021. E-mail: kalderon@mskcc.org.**

POSITIONS OPEN

POSTDOCTORAL/RESEARCH ASSOCIATE POSITIONS
***C. elegans* Ion Channel Functional Genomics**

Postdoctoral/Research Associate positions are available to investigate the genetic basis of ion channel and transporter biology in *C. elegans*. Successful candidates will utilize molecular biology, reverse and forward genetics, cellular genomic/proteomic profiling, electrophysiology, quantitative cell imaging, and newly developed nematode cell culture systems to identify ClC anion channel regulatory pathways, identify genes encoding novel anion channels and associated regulatory proteins, characterize and identify ion channel signaling pathways responsible for cell-to-cell communication, and characterize functional properties of cultured nematode sensory neurons. See *Current Biol.* **11**:161–170, 2001. Send curriculum vitae and three letters of reference to: **Dr. Kevin Strange, Vanderbilt University Medical Center, T-4202 Medical Center North, 1161 21st Avenue South, Nashville, TN 37232-2520. E-mail: kevin.strange@mcmail.vanderbilt.edu; FAX: 615-343-3916.**

The Department of Pediatrics, Division of Gastroenterology, University of Pittsburgh School of Medicine, is seeking **RESEARCH ASSOCIATES.** The individuals recruited will work in a well-funded molecular/cellular biology laboratory using genetically altered mouse model and cell culture model systems to study the cellular response and the cytotoxic effect of aggregated mutant proteins associated with genetic and acquired human diseases. The individuals recruited will perform and complete DNA/RNA extraction, perform mammalian tissue culture experiments, handle transgenic mice, perform Southern and Northern blotting, and process SDS-PAGE analysis of recombinant proteins produced in bacteria. Interested individuals should submit curriculum vitae to: **Claudia Brazet, Office of the Chairman, Department of Pediatrics, University of Pittsburgh, School of Medicine, 3705 Fifth Avenue, Pittsburgh, PA 15213. E-mail: brazetc@chplink.chp.edu.** *The University of Pittsburgh is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION

Excellent well-rounded **SCIENTIST** needed for established project focused on Ras isoform-specific signaling events. Don't be deceived by the literature; Mother Nature would not have created different Ras isoforms to perform redundant functions. The most qualified candidates will have a Ph.D. in biochemistry or related discipline, excellent communication skills, and a solid background in cell and molecular biology.

Come join the vibrant new Lerner Research facility in affordable Cleveland, Ohio. Interested candidates should send curriculum vitae, list of three references, and summary of current research efforts to: **Dr. Alan Wolfman, Department of Cell Biology, NC10, Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44195. E-mail: wolfmaa@ccf.org.** Visit the Lerner Research Institute **website: http://www.lerner.ccf.org/** for additional opportunities.

POSTDOCTORAL POSITIONS
Yeast Molecular Genetics

The Wayne State University College of Science, Department of Biological Sciences, has a **RESEARCH ASSOCIATE** position available in an NIH-funded laboratory to identify and characterize molecular targets of the antimanic drugs lithium and valproate. Individuals who are highly motivated, interested in utilizing yeast as a model system, and have backgrounds in molecular biology are especially encouraged to apply. Send curriculum vitae (hard copy) and the names of three references to: **Dr. Miriam Greenberg, Department of Biological Sciences, Wayne State University, Detroit, MI 48202.**

ANNOUNCEMENTS

The University of Texas Health Science Center at San Antonio will host a symposium sponsored by Hamamatsu Photonics KK

on

FRET and FLIM:

Advanced Fluorescence Techniques for Biological Imaging

June 8-10, 2001

at

The Sheraton Gunter Hotel
205 E. Houston St.
San Antonio, TX

Registration:

Student: $175 ($200 after May 1st)
Acad/Corp: $225 ($250 after May 1st)

Meeting information may be found at:

usa.hamamatsu.com/fretflim

or contact frohlich@uthscsa.edu

Speakers:

Philippe Bastiaens (Germany), Christoph Biskup (Germany), Robert Clegg (USA), Michael Edidin (USA), Hans Gerritsen (Netherlands), Jesus Gonzalez (USA), Enrico Gratton (USA), Brian Herman (USA), Thomas Jovin (Germany), Steve Kay (USA), Karsten König (Germany), Wen-Hong Li (USA), Atsushi Miyawaki (Japan), Ammasi Periasamy (USA), Alexander Sorkin (USA), Roger Tsien (USA)

POSTDOCTORAL POSITIONS
University of Illinois at Chicago

Several Postdoctoral positions are available immediately in the laboratories of **Dr. Peter Gettins** and **Dr. Steven Olson** to work on structural and mechanistic aspects of serpins and their cognate proteinases and on their clearance and signaling receptor LRP. For more details of the laboratories and projects, see **websites: www.uic.edu/depts/mcbtp/gettins.htm** and **www.uic.edu/depts/mcbtp/olson.htm**. We have excellent facilities for NMR (600 and soon-to-be-acquired 800), X-ray crystallography (in-house and close proximity to APS), fluorescence, and rapid kinetic studies Applicants should have or soon expect to have a Ph.D. in biochemistry, chemistry, or a closely related discipline with a strong interest in protein structure/function studies. Experience with NMR, kinetic, or X-ray crystallography applied to proteins is an advantage. *For training grant support, applicants should be U.S. citizens or permanent residents.* Good salary commensurate with qualifications. For consideration, send curriculum vitae and three letters of recommendation by April 1, 2001, to either: **Dr. Gettins; Department of Biochemistry and Molecular Biology, M/C 536, College of Medicine, 1853 West Polk Street** or **Dr. Steven Olson; Center for Molecular Biology of Oral Disease, M/C 860, College of Dentistry, 910 South Paulina, Chicago, IL 60612**. *UIC is an Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITIONS, immunology. The Department of Pathology at the University of Massachusetts Medical School is recruiting for several qualified **POSTDOCTORAL FELLOWS** to study molecular and cellular mechanisms of antigen presentation, T cell responses against viruses, cytokine receptor signaling, NK and T cell development, T cell activation, costimulation, and homeostasis in the laboratories of **Leslie J. Berg, Cynthia A. Chambers, Joonsoo Kang, Kenneth L. Rock**, and **Raymond Welsh**. Applicants should have backgrounds in immunology, virology, and/or molecular biology. Send a letter of interest, curriculum vitae, and addresses of references to: **Joonsoo Kang, Department of Pathology, University of Massachusetts Medical School, 55 Lake Avenue North, Worcester, MA 01655. E-mail: joonsoo.kang@umassmed.edu**.

POSTDOCTORAL AND RESEARCH FELLOWS

The Department of Pediatrics, Rainbow Babies and Children's Hospital/Case Western Reserve University is soliciting applications for Postdoctoral Fellows within a well-developed research community studying (1) the molecular regulation of pulmonary inflammation, (2) pulmonary development, or (3) leukocyte biology. Applicants should have a Ph.D. or M.D. and prior research training. Submit curriculum vitae, statement of research interests, and names of three references to: **Claire M. Doerschuk, M.D., Rainbow Babies and Children's Hospital, Room 787, 11100 Euclid Avenue, Cleveland, OH 44106-6003. E-mail: cmd22@po.cwru.edu**. *CWRU is an Equal Opportunity/Affirmative Action Employer. Qualified women and minority candidates are encouraged to apply.*

POSTDOCTORAL POSITION MOLECULAR ENDOCRINOLOGY

An NIH-funded position is available to clone and characterize novel coregulatory proteins that function as transcriptional coactivators for nuclear hormone receptors. Applicants must have experience with (1) recombinant DNA and cloning, (2) mammalian cell culture and transfections, and (3) expression and purification of recombinant proteins. Applicants should send curriculum vitae and a list of three references to: **Dr. Joseph D. Fondell, Department of Physiology, University of Maryland School of Medicine, 660 West Redwood Street, Baltimore, MD 21201. FAX: 410-706-8341; e-mail: jfond001@umaryland.edu**.

POSITIONS OPEN

THE AGARINI–JOHNS HOPKINS CENTER FOR NEUROREGENERATION

The aim of this program is to support talented Italian Scientists, to contribute to the establishment of a neuroregeneration center in Italy, and to further collaborative relationships between Italian Scientists and Johns Hopkins University School of Medicine.

AGARINI–JOHNS HOPKINS POSTDOCTORAL FELLOWSHIPS

Italian applicants are sought for two to three Agarini–Johns Hopkins Postdoctoral Fellowships at John Hopkins University School of Medicine beginning in July 2001 for a three-year period. The Fellowships will center on basic and applied investigations relevant to the processes of neuroregeneration including axonal and dendritic targeting, cellular replacement, neuronal survival, cell death, and angiogenesis.

Candidates must (1) be an Italian citizen with a Ph.D., M.D., M.D./Ph.D., or an equivalent degree and in the early stages of their career; (2) provide curriculum vitae including professional degrees, institution and location, field of study, years of attendance and university grades, a list of publications, academic and professional honors and awards, three letters of reference, and a summary of the research area of interest written in English; and (3) show a promise of a creative scientific research career in Italy. Postdoctoral Fellows will receive a salary commensurate with experience, a $5,000 scholarly allowance per annum, and one-time cost for round-trip travel from Italy to Baltimore, Maryland.

Please send requested material by March 31, 2001, to:

Heather Rich
Department of Neurological Surgery
Johns Hopkins Medical Institutions
600 North Wolfe Street
Meyer 5-181
Baltimore, MD 21287-7881
E-mail: hrich@jhmi.edu

The Department of Pediatrics, Division of Gastroenterology, University of Pittsburgh School of Medicine, is seeking **POSTDOCTORAL FELLOWS**. The individuals recruited will work in a well-funded molecular/cellular biology laboratory using genetically altered mouse model and cell culture model systems to study the cellular response and the cytotoxic effect of aggregated mutant proteins associated with genetic and acquired human diseases. The individuals recruited will perform and complete DNA/RNA extraction, perform mammalian tissue culture experiments, handle transgenic mice, perform Southern and Northern blotting, and process SDS-PAGE analysis of recombinant proteins produced in bacteria. Interested individuals should submit curriculum vitae to: **Claudia Brazet, Office of the Chairman, Department of Pediatrics, University of Pittsburgh, School of Medicine, 3705 Fifth Avenue, Pittsburgh, PA 15213. E-mail: brazetc@chplink.chp.edu**. *The University of Pittsburgh is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL RESEARCH FELLOWSHIP

Department of Physiology and Pharmacology, CUNY Medical School/Sophie Davis School of Biomedical Education, offers Fellowship for an experienced Molecular Biologist/Biochemist for research involving cell culture, PCR, transfection, small animal surgery, membrane isolation, enzyme purification, HPLC, etc. $30,000 to $35,000 per annum plus benefits. Details at **website: www.ccny.cuny.edu/positions/**. Submit résumé (refer to PVN Number MP771) and names, addresses, and telephone numbers of three references to: **Dr. Kho Kashfi (Attention: Gail Farley), Department of Physiology and Pharmacology, The CUNY Medical School, 138th Street and Convent Avenue, New York, NY 10031**. *CUNY Medical School is an Equal Opportunity Employer.*

POSITIONS OPEN

POSTDOCTORAL POSITION
Division of Endocrinology and Metabolism
University of Pittsburgh

A Postdoctoral position is available to study the carnitine palmitoyltransferase (CPT) system of enzymes. The CPT system is the primary regulator of mitochondrial fatty acid oxidation and occupies a central position in control of fuel metabolism bodywide. Our research focuses on the role of CPT in the etiology and potential treatment of insulin resistance, Type II diabetes, ischemic heart disease, and obesity. Projects will use techniques of molecular biology and conventional enzymology to study the enzymes' function and regulation at a molecular level as well as the physiological role of CPT in regulating fatty acid metabolism in various tissues. The research encompasses the use of tissue culture and rodent models as well as structure/function studies using purified recombinant enzyme.

The Division of Endocrinology has undergone a substantial expansion in the past two years and provides excellent, well-equipped, modern facilities for biochemical research. Divisional interests focus particularly strongly on the metabolism of diabetes, insulin resistance, and insulin signaling and traverse the full spectrum of basic biochemical research and enzymology to the use of animal models and clinical studies.

Please send curriculum vitae, names and addresses of three references, and copies of recent publications to: **Dr. Nicholas Brown, Division of Endocrinology and Metabolism, University of Pittsburgh, E1140 BST, 200 Lothrop Street, Pittsburgh, PA 15261 U.S.A. E-mail: brownn@msx.dept-med.pitt.edu.** Ph.D. and/or M.D. required. *The University of Pittsburgh is an Equal Opportunity Employer.*

POSTDOCTORAL FELLOW RESEARCH ASSOCIATE

Osiris Therapeutics, Inc. has a current opening offering an exciting opportunity to assist in the development of novel therapeutic products for the regeneration of diseased or injured tissue using proprietary mesenchymal stem cell (MSC) technology.

This individual will perform laboratory experiments in a research group studying the differentiation of MSCs for the purpose of cardiac muscle regeneration and functional augmentation. Duties include acquiring, analyzing, and summarizing cardiac function data; performing surgery for the implantation of MSCs in healthy and infarcted myocardium; determining the degree of MSC engraftment and differentiation in cardiac tissue; and learning and performing MSC tissue culture techniques. Requirements include familiarity with cardiac anatomy and physiology; competence in sterile surgery, animal handling, and basic pharmacology; and experience in immunohistochemistry and histology as well as fluorescent and confocal microscopy. Previous experience with cell culture, cell labeling, and sterile technique desired. The ability to handle multiple tasks within a small group, basic computer skills, and excellent written and verbal communication skills required. Qualified candidates should forward their résumé, indicating position CM-01-01, to: **Osiris Therapeutics, Inc., Attention: Human Resources, 2001 Aliceanna Street, Baltimore, MD 21231-3043. FAX: 603-925-1221. E-mail: HR@osiristx.com**. *Equal Opportunity Employer.*

Two **POSTDOCTORAL POSITIONS** are available immediately at the Laboratory of Molecular Signaling and Apoptosis at University of Michigan. The areas of study include NF-κB, Wnt signaling, apoptosis, and oncogenesis (*Science* **274**:784; **281**:1680; *Nature Medicine* **5**:412; *J. Cell. Biol.* **152**:87). Highly motivated individuals with Ph.D. degree and training in cellular and molecular biology are encouraged to apply. Please send curriculum vitae and names of two references to: **Dr. Cun-Yu Wang, Department of Biologic and Materials Sciences, University of Michigan, 1011 North University, Ann Arbor, MI 48109-1078. FAX: 734-764-2425; e-mail: cunywang@umich.edu**.

A call for nominations...

The Rhoda and Bernard Sarnat Prize 2001

An International Award to Recognize Achievements in Mental Health

The Institute of Medicine (IOM) is accepting nominations for the International Rhoda and Bernard Sarnat Prize in Mental Health. The award, a medal and $20,000, recognizes individuals, groups, or organizations for outstanding achievement in improving mental health. The award is provided by Rhoda and Bernard Sarnat as a commitment to improve the science base and delivery of mental health services. The purpose of the Sarnat Prize is to recognize:

- contributions to improve understanding of or treatment for mental disorders (basic biomedical or clinical research);
- innovations in mental health services (counseling, clinical care, prevention, amelioration of symptoms, or promotion of mental health); or
- public policy change that fosters science or improves mental health services.

To encourage a broad range of candidates, there are no constraints on the education, profession, or specific discipline of individuals or organizations. The award may honor work in psychiatry, psychology, social work, nursing, public health, neuroscience, advocacy, or another relevant activity or field. The award will be made without regard to nationality.

Any individual or organization may submit nominations. Nominations should be accompanied by a detailed written description of the accomplishments of the nominee, and an explanation of why those accomplishments merit the Sarnat Prize. Nominations should not exceed 4 pages in length. A select bibliography (up to 10 publications) or other documentation of accomplishments will greatly aid the selection process. Only written material will be considered. Letters of endorsement in addition to the nomination are not necessary, and will not be considered. Nominations should be postmarked no later than March 30, 2001 and sent to: **Lora K. Taylor, Sarnat Award Nominations, Institute of Medicine (FO-3020B), 2101 Constitution Avenue, NW, Washington, DC 20418.** For additional information please contact Lora Taylor by telephone (202-334-3387), fax (202-334-1317) or email (ltaylor@nas.edu).

Rapid Access to NCI Discovery Resources (RAND) Program

The **National Cancer Institute** is requesting applications for the following new initiative: Rapid Access to NCI Discovery Resources (RAND) program. The RAND program will make available to academic investigators, on a competitive basis, the **discovery and early preclinical development** contract resources of NCI's Developmental Therapeutics Program. The goal of RAND is to remove the most common barriers between basic research findings and their exploitation for discovery of new molecular entities. RAND does not fund grants; applications to the program are requests for NCI drug discovery and development resources to conduct specific tasks the applicants themselves are unable to carry out in their efforts to translate basic research findings to the discovery of new drugs and biologics. Examples of tasks that may be requested include: production/characterization of molecular target proteins; high-throughput screening (HTS) assay development; natural product isolation/characterization; synthesis of combinatorial libraries; early pharmacology and in vivo efficacy studies. RAND Program tasks will be distinct from the Rapid Access to Intervention Development (RAID) initiative. RAND will focus on lead discovery and optimization, whereas, RAID will focus on later development after selection of a lead compound or construct.

The current deadline for receipt of applications is **April 1, 2001**; applications can be submitted April 1 and October 1 annually. A Letter of Interest (LOI) must be submitted via email to the Program Coordinator 30 days prior to the application deadline (March 1, 2001). Further information about this program, including detailed instructions for preparing proposals and LOIs can be found at http://dtp.nci.nih.gov/docs/rand.html. Telephone or email inquiries are encouraged and should be made to:

- RAND Program Coordinator -
Developmental Therapeutics Program
National Cancer Institute
Executive Plaza North Building, Suite 8000
6130 Executive Blvd. Rockville, MD 20852
Tel: 301-496-8720 Fax: 301-402-0831

GRANTS

NEUROSCIENCE

THE EJLB FOUNDATION

SCHOLAR RESEARCH PROGRAMME

The EJLB Foundation awards each year up to seven (7) grants for research projects in all areas of neuroscience that pertain directly or indirectly to schizophrenia and mental illness. Specific areas of support in the past have included: developmental neurobiology, synaptic mechanisms, systems and cognitive neuroscience, and clinical studies on the genetic and physiopathologic aspects of neurological and psychiatric disorders.

Eligibility for such grants is restricted to young scientists who are pursuing an independent research career and have given evidence of having significant potential. It is also a requirement that these scientists (i) have earned an MD and/or a Ph.D. degree; (ii) have completed their post-graduate training; and (iii) have been admitted after **June 15, 1996** as faculty members of a leading university, or an affiliated non-profit research centre, in Canada or elsewhere in the world.

Each grant is of CAN$300,000, is disbursed over three (3) years and is non-renewable.

The next closing date for receipt of letters of intent is **May 1, 2001**.

Full details regarding this programme and required letter of intent forms may be obtained from:

The EJLB Foundation
1350 Sherbrooke Street West Suite 1050
Montréal QC H3G1J1
Canada

Fax: (514) 843-4080
Website: www.ejlb.qc.ca

Qualified undergraduates can train and be mentored at the cutting edge of biomedical research while receiving scholarship support.

SCIENCE-RESEARCH SCHOLARSHIP AVAILABLE

Opportunities for Outstanding Students

NATIONAL INSTITUTES OF HEALTH
Undergraduate Scholarship Program

The UGSP is sponsored by the National Institutes of Health (NIH), the Federal Government's premier biomedical research and research training agency. NIH offers scholarships to qualified students who are committed to a career in biomedical research.

Scholarships of up to $20,000 per year support tuition, educational, and qualified living expenses (room, board, transportation) while students pursue an undergraduate degree.

For each award year, scholars work 10 weeks with salary/benefits in our research laboratories in Bethesda, Maryland. They are assigned mentors, participate in developmental and science enrichment seminars, and are provided with housing and transportation. After graduation, they work 1 year of full-time employment at NIH for each year of scholarship award.

THIS IS A SPECIAL OPPORTUNITY FOR SPECIAL STUDENTS!

Advise students to apply if they:

- Are committed to a career in biomedical research;
- Are from a disadvantaged background;
- Have a GPA of at least 3.5 or are in the top 5 percent of their class;
- Are a U.S. citizen, national, or permanent resident;
- Are enrolled or accepted for enrollment as a full-time student at a qualified accredited institution.

For more information, contact the UGSP at:
http://ugsp.info.nih.gov ▪ E-mail: ugsp@nih.gov
Phone: 1-800-528-7689 ▪ TTY: 1-888-352-3001

POSITIONS OPEN

GRADUATE AND POSTDOCTORAL TRAINING FELLOWSHIPS IN TOXICOLOGY
University of Michigan

Predoctoral and postdoctoral research training Fellowships are available through an NIEHS/NIH-sponsored training program in environmental *toxicology. Eligibility for NIH Fellowships includes U.S. citizenship or permanent resident status.* Postdoctoral candidates must have a Ph.D. or equivalent at the time of appointment and select a training mentor from among the program faculty before applying. Additional support is available through research grants of the program faculty. Research areas of the faculty include molecular, genetic, cell signaling, metabolic, and oxidative stress mechanisms of toxicity with respect to reproductive, developmental, and neural and immune systems as well as cancer research, micro- and nanosensor development, human exposure assessment, and environmental and occupational disease epidemiology. Details on the program faculty and Fellowships may be found on our **website: http://www.sph.umich.edu/etox/ETTG-WebSite.html/**. For further information, **e-mail: toxicology@umich.edu**; call the toxicology office at **Telephone: 734-764-5410**; or write to: **Toxicology Program, Department of Environmental Health Sciences, 1420 Washington Heights, Ann Arbor, MI 48109-2029**. *The University of Michigan offers a dynamic and diverse scholastic community committed to the inclusion of underrepresented minorities. Applicants of all ethnic and cultural backgrounds are strongly encouraged to apply.*

POSTDOCTORAL FELLOWSHIPS
The Sloan–Swartz Center for Theoretical Neurobiology
California Institute of Technology

Postdoctoral Fellowships are available from the Sloan–Swartz Center for Theoretical Neurobiology at Caltech, which promotes integration of theoretical and experimental work in neurobiology. Applicants must have a background in physics, mathematics, engineering, computer science, or similar theoretical disciplines and wish to do research in theoretical neurobiology by working in experimental neurobiology laboratories. Typically, a Sloan–Swartz Fellow works closely with two sponsors from the Caltech faculty participating in the Sloan–Swartz Center, one from a theory laboratory and one from an experimental laboratory. Theoretical faculty includes **Abu-Mostafa, Barr, Bruck, Goodman, Koch, Perona, and Psaltis**. Experimental faculty includes **Allman, Andersen, Bower, Fraser, Kennedy, Konishi, Laurent, Lester, Pine, and Shimojo**. Please submit curriculum vitae, two or three letters of recommendation, and a brief research proposal or description of research interest. Please send applications or requests for more information to: **Richard Andersen, Division of Biology, MC 216-76, California Institute of Technology, Pasadena, CA 91125 U.S.A. E-mail: cierina@vis.caltech.edu**. Application deadline is April 1, 2001. *Caltech is an Affirmative Action/Equal Opportunity Employer. Women, minorities, veterans, and disabled persons are encouraged to apply.*

POSTDOCTORAL POSITION

A Postdoctoral position is immediately available to investigate the role of phosphatase-encoding genes in tumor suppression. Ongoing studies include but are not limited to (1) dissecting the molecular pathways controlled by the PTEN tumor-suppressor gene and (2) developing mouse models for human endometrial and ovarian tumors. Applications are sought from highly motivated individuals with strong background in molecular biology/biochemistry. Prior experience with *in vitro* and/or *in vivo* tumor models or mouse genetics will be a plus. Please send curriculum vitae and the names of three referrences to: **Dr. Antonio Di Cristofano, c/o Fox Chase Cancer Center, Human Resources Department, 7701 Burholme Avenue, Philadelphia, PA 19111**. *We are an Equal Opportunity Employer.*

POSITIONS OPEN

POSITION AVAILABLE

POSTDOCTORAL SOIL SCIENTIST/AGRICULTURAL ENGINEER. GS–470/890-11/12. U.S. Department of Agriculture, Agricultural Research Service, has a temporary two-year position in Phoenix, Arizona, in theoretical and applied research on soil/water/phosphorus-nitrogen reactions during surface irrigation. Erosion processes (entrainment, transport, and deposition) are also to be considered. Qualifications: Ph.D. in soil science, agricultural engineering, or related field; knowledge of soil and water chemistry, soil erosion, and irrigation engineering. For details visit **website: www.uswcl.ars.ag.gov**. *Applicants must be U.S. citizens or hold an H1B visa/green card.* Salary range is $43,326 to $67,500. Applications will be accepted until the position is filled. Send detailed résumé of training and experience to: **Theodor Strelkoff, Research Hydraulic Engineer, U.S. Water Conservation Laboratory, USDA/ARS, 4331 East Broadway Road, Phoenix, AZ 85040. Telephone: 602-437-1702, Extension 267; e-mail: fstrelkoff@uswcl.ars.ag.gov.** *USDA/ARS is an Equal Opportunity Employer.*

A **POSTDOCTORAL POSITION** is available to study epithelial/mesenchymal signaling in the mouse urogenital tract (*Nat. Genet.* **1**:74–78, 2001). This three-year study is funded by NIH/NIDDK and involves (1) generating transgenic and knockout animal models to identify cell types and molecules important for formation of the lower urogenital tract and (2) using existing reporter animals (i.e., expressing GFP in the fetal urinary tract) to follow development *in vivo* using an automated photography system. The applicant should have significant experience in molecular biology and a strong interest in embryology. Salaries are based on NIH scales. Please mail or e-mail curriculum vitae and names of three references to: **Dr. Cathy Mendelsohn, College of Physicians and Surgeons, Columbia University, 630 West 168th Street, New York, NY 10032. E-mail: clm20@columbia.edu**. *Columbia University is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL STUDIES
GPCR BIOLOGY

Two positions are available in the laboratory of **Drs. Craig and Norma Gerard** at Children's Hospital and Harvard Medical School. Specific interests and skills in HIV coreceptor function, receptor pharmacology, and/or transgenic mice required. Studies with chemokine and complement receptors, including yeast two-hybrid assays, are also ongoing as regards innate immunity.

New Office Server mail from System Administrator. Contacts with the names of three references. **Craig Gerard, M.D., Ph.D., Norma Gerard, Ph.D., Perlmutter Laboratory, Enders 144, 300 Longwood Avenue, Boston, MA 02115.**

POSTDOCTORAL or **RESEARCH ASSOCIATE** position to investigate cell biological, electrophysiological, and behavioral correlates of axonal repair and regeneration. Help devise new strategies to induce rapid regeneration of CNS and PNS axons in mammals. Send résumé and three letters of recommendation to: **Dr. George D. Bittner, Neurobiology Section, School of Biological Sciences, The University of Texas, Austin, TX 78712. E-mail: bittner@mail.utexas.edu; FAX: 512-471-9651; Telephone: 512-471-5454.**

POSTDOCTORAL POSITION available immediately to investigate mechanism of chaperone-mediated protein folding. Recent Ph.D. with strong background in protein chemistry. Send curriculum vitae to: **Dr. David Chuang, Department of Biochemistry, University of Texas Southwestern, Dallas, TX 75390-9038. E-mail: david.chuang@utsouthwestern.edu**. *UT Southwestern is an Equal Opportunity Employer.*

POSITIONS OPEN

MOLECULAR AND CELLULAR IMAGING

The Laboratory of Diagnostic Radiology Research (LDRR) is now seeking qualified applicants for **POSTDOCTORAL POSITIONS** in LDRR's cellular and molecular imaging group. LDRR is developing novel technologies that allow MR tracking of transplanted stem cells, imaging of gene expression, and imaging of molecular and cellular MR contrast agent switches. LDRR's main research interest is in neurosciences and malignancy along with biology, cell receptor, or MR imaging or applicant can work on projects involving the synthesis and characterization of novel contrast agents for MRI and optical imaging. Previous experience or the desire to learn cell culture work, radiochemistry, clinical and experimental animal models, and MRI is highly desirable. The LDRR laboratory is equipped with biology, chemistry, and tissue culture laboratories, a 1.5 Tesla and 3 Tesla clinical scanners, 4.7T and 7T small animal imagers, and an 11.7 Tesla MR microscopic imaging system. Contact person:

Joseph Frank, M.D.
Laboratory of Diagnostic Radiology Research
Building 10, Room B1N256
10 Center Drive MSC 1074
Bethesda, MD 20892
Telephone: 301-402-3586
FAX: 301-402-3216

JOHNS HOPKINS BREAST CANCER RESEARCH PROGRAM

Postdoctoral fellowships are available with principal investigators of the NIH-funded Breast Cancer SPORE Program at Johns Hopkins. **Robert Casero, Jr., Ph.D.**: polyamine analogs for breast cancer treatment. **Nancy Davidson, M.D.**: epigenetic regulation of gene expression in breast cancer. **Edward Gabrielson, M.D.**: gene expression profiles in ductal breast cancers. **James Herman, M.D.**: molecular diagnostics for breast cancer. **Kathy Helzlsouer, M.D., M.H.S.**: molecular epidemiology of breast cancer. **Elizabeth Jaffee, M.D.**: vaccine and immune approaches to breast cancer. **Saraswati Sukumar, Ph.D.**: gene expression profiles and breast cancer progression. Send curriculum vitae, statement of research interests, and names of three references to: **Barbara Lee, Bunting/Blaustein Cancer Research Building, Room 406, 1650 Orleans Street, Baltimore, MD 21231-1000. FAX: 410-614-4073.**

POSTDOCTORAL POSITION

Positions are available immediately for Ph.D. or M.D. with a background in molecular biology or animal models of infection to study host-pathogen interactions using genomic and proteomic approaches. Other projects include DNA vaccine development and analysis of T cell responses against pulmonary pathogens. Applicants with background in prokaryotic molecular biology and/or analysis of animal infection models are preferred. Salary negotiable depending on qualifications and experience. Send curriculum vitae and names of three references to: **Rick Lyons, M.D., Ph.D., Associate Professor, 2325 Camino de Salud, Room 301, Albuquerque, NM 87131. Telephone: 505-272-4450; FAX: 505-272-9912; e-mail: Clyons@salud.unm.edu**. *UNM is an Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITION is available to study the causes of variation in life span among ants using biochemical and physiological approaches. The aim is to determine the proximate mechanisms responsible for naturally occurring extreme variation in life span (over tenfold) observed among castes in the same colony. An independent Ph.D. with experience in biochemistry/physiology will join and complement ongoing gene expression studies in our laboratory (**website: http://www.unil.ch/izea/research.html#ants1**). Candidates should send curriculum vitae and list of publications to: **Professor Laurent Keller, IE, Batiment de Biologie, UNIL, 1015 Lausanne, Switzerland. E-mail: Laurent.Keller@ie-zea.unil.ch** by March 30, 2001.

POSITIONS OPEN

POSTDOCTORAL POSITIONS
Molecular Biology, Biochemistry, Cellular Physiology, and Endocrinology

The University of New Hampshire College of Life Sciences and Agriculture is offering four Postdoctoral positions available March 3, 2001, in the following areas:

(1) Cyclic AMP efflux and extracellular metabolism of adipcytes **(Dr. G. B. Carey; website: http://www.anscandnutr.edu/faculty/gcarey.htm)**.

(2) Signal transduction pathways in photoreceptor cells **(Dr. R.H. Cote; website: www.cote.unh.edu)**.

(3) Cancer biology and p53 **(Dr. C.W. Walker; website: http://zoology.unh.edu/faculty/Walker/Walker.html)**.

(4) Cloning and transgenic expression of genes in plants **(Dr. S.C. Minocha; website: http://www.pbio.unh.edu/faculty/minocha/minocha.htm)**.

Detailed descriptions of these positions and contact information can be obtained at **website: http://colsa1.unh.edu/postdocs/**. Applicants should have a Ph.D. in one of the biological sciences. Appointments are for one to three years. Send résumé, description of research interests, and the names of three references directly to the Principal Investigator. *UNH is committed to excellence through diversity among its faculty and strongly encourages women and minorities to apply.*

Mayo Clinic **POSTDOCTORAL FELLOWSHIPS** in allergic diseases. Postdoctoral positions available immediately to study allergic diseases at Mayo Clinic Rochester and Mayo Clinic Scottsdale. Aspects include discovery of novel eosinophil granule proteins, mechanisms and regulation of eosinophil activation, role of IgE in the allergic response, generation/characterization of murine transgenic and gene knockout models of allergic disease, eosinophil-associated cutaneous disease, inflammatory mechanisms or allergic diseases in humans, and function of respiratory smooth muscle. Applicants can work either at Mayo Clinic Rochester or Mayo Clinic Scottsdale. *Grant agency requires that all candidates must be U.S. citizens of permanent residents.* Please send curriculum vitae, bibliography, and names and addresses of three references to: **Gerald J. Gleich, M.D., Department of Immunology, Mayo Clinic, 200 First Street S.W., Rochester, MN 55905. Telephone: 507-284-7166; FAX: 507-284-5045; e-mail: gleich@mayo.edu**; See also **website: http://www.mayo.edu/research/**. *Mayo Clinic is an Affirmative Action and Equal Opportunity Employer and Educator.*

THE UNIVERSITY OF MICHIGAN MEDICAL SCHOOL
Department of Pathology

POSTDOCTORAL POSITIONS available immediately to study signal transduction pathways of apoptosis, innate immunity, and inflammation in mammalian systems. Experimental approaches will include biochemical analysis, molecular biology, and gene targeting in mice. *NIH training requires U.S. citizenship or permanent resident status.* Send curriculum vitae and names/addresses of three references to: **Dr. Gabriel Nunez, Department of Pathology, The University of Michigan Medical School, 1500 East Medical Center Drive, 4219 CCGC, Ann Arbor, MI 48109. E-mail: bclx@umich.edu**.

The University of Michigan is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available to study presynaptic function and regulation of neurotransmitter release using synaptosomes and cultured neurons. Training in neuropharmacology/neuroscience/neurochemistry necessary; experience in subcellular fractionation, cell culture, spectrofluorimetry, confocal microscopy, HPLC, and superfusion desirable. Send statement of research interests and experience, curriculum vitae, and three references to: **H. C. Hemmings, Jr., M.D., Ph.D., Box 50, Cornell University Medical College, 525 East 68th Street, New York, NY 10021. E-mail: hchemmi@med.cornell.edu**.

POSITIONS OPEN

POSTDOCTORAL POSITIONS

Applications are invited from highly motivated and creative individuals for two Postdoctoral positions (Nucleic Acid Biochemist and Molecular Biologist) in the laboratory of **Rajesh Gaur, Ph.D.**, at the Beckman Research Institute of the City of Hope. (See **website: http://cityofhope.org**). We are interested in understanding the mechanisms involved in the regulation of premessenger RNA splicing. For further information, see *PNAS* **97**:115–120, 2000; *MCB* **19**:8263–8271, 1999; *RNA* **3**:861–869, 1997; *Science* **273**:1706–1709, 1996. Candidates with Ph.D. should have experience in the following: (1) RNA processing; (2) nucleic acid synthesis and designing of fluorescent and photoactive nucleotides; (3) gene cloning, protein expression, isolation, and purification. Applications including a cover letter and three letters of recommendation should be forwarded to: **Ileana Abich, Needleman Building, Room 209, City of Hope, 1500 East Duarte Road, Duarte, CA 91010. FAX: 626-930-5394; e-mail: iabich@coh.org.**

POSTDOCTORAL RESEARCH ASSOCIATE POSITION available immediately. We are applying cutting-edge proteomics methods to understand the signal transduction pathways critical to estrogen-dependent synaptogenesis in the adult female hippocampus. This project is a team effort of our neuroscience group and **Don Hunt's** laboratory in the Department of Chemistry. Ample opportunities exist in a strong multidisciplinary environment to gain experience with the latest proteomics methodologies for understanding cell function. A Ph.D. in biology or related discipline and a good command of the English language are required. Documented experience with cell/molecular biological or neurochemical methods preferred. Position is open until filled. Send curriculum vitae including names and telephone/FAX/e-mail information of three references to: **Dr. William B. Levy, University of Virginia Health System, Department of Neurosurgery, P.O. Box 800420, Charlottesville, VA 22908-0420**. *The University of Virginia is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITIONS available for NIH-funded research on the molecular basis of toxicity of the Ah receptor ligand dioxin. One position will involve microinjection techniques for retroviral gene transfer in the developing avian embryo. A second will investigate disruption of cardiac cell function and calcium processing by dioxin. Candidates should have a strong background in molecular biology or cell biology. *U.S. citizens or permanent residents only.* Send résumé, statement of interests, and three reference letters to: **Dr. Arleen Rifkind, Department of Pharmacology, Weill Medical College of Cornell University, 1300 York Avenue, New York, NY 10021. E-mail: arifkind@med.cornell.edu; FAX: 212-746-6236**. *Equal Opportunity Employer.*

FELLOWSHIPS

NEUROIMMUNOLOGY FELLOWSHIP

A two-year renewable position is available for an M.D. or Ph.D. who has experience in immunology. This is a flexible program that can be designed to include studies on the cellular and/or humoral immunology of experimental allergic encephalomyelitis and/or multiple sclerosis. There is a wealth of experience in our Section of Neuroimmunology and a wide variety of resources including a dedicated flow cytometer, immunocytochemistry facilities, and access to human material. Current interests include the role of free radicals and the role of B cells in demyelinating diseases, antigen presentation of lipids, and relevant encephalitogenic myelin proteins. Interested parties should contact: **Dr. John Trotter** or **Dr. Anne Cross, Washington University School of Medicine MS Center, St. Louis, MO. Telephone: 314-362-3293; FAX 314-747-1345; e-mail: trotterj@neuro.wustl.edu** or **crossa@neuro.wustl.edu**.

GLOBAL OPPORTUNITIES

TENURE-TRACK FACULTY POSITION
Institute of Biomedical Sciences (IBMS) Academia Sinica, Taiwan

IBMS is housed in new, well-equipped facilities in the Academia Sinica campus in Nankang, Taipei. Primary research aims in the Institute are to unravel the molecular mechanisms underlying human physiology and diseases and to develop novel therapeutic strategies. As a part of the new initiations of the Academia Sinica on the genomics research, we are seeking well-qualified applicants with strong backgrounds and interests in the following areas of research: gene mapping, mouse genetics, bioinformatics, genome technology, cancer genomics, proteomics, and stem cell biology.

Individuals with an advanced degree (Ph.D. or M.D. or M.D./Ph.D.) who have completed postdoctoral training and demonstrated productivity are encouraged to apply. Successful candidates will be expected to develop a vigorous, competitive, and interactive research program. In addition, we are seeking an individual with D.V.M. degree to direct the newly expanded small animal facility. Applications accompanied by curriculum vitae with bibliography, a statement of research interests, and three reference letters should be sent to: **Dr. S. T. Lee, Chairperson, Recruitment Committee, Institute of Biomedical Sciences, Academia Sinica, Taipei 11529, Taiwan, ROC**. For details, see our **website: http://www.sinica.edu.tw.**

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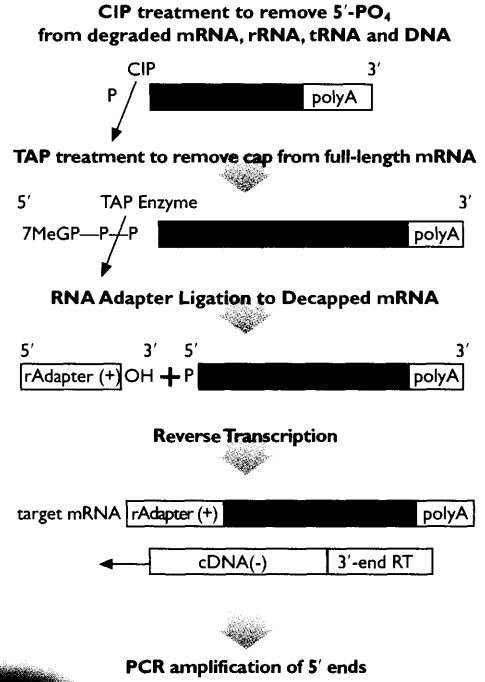

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Section One: Analogies

1) Film is to the KODAK MDS 290 as

A) Typewriter is to Word Processor
B) Magnifying Glass is to Microscope
C) Abacus is to Calculator
D) Pony Express is to E-Mail
E) All of the Above

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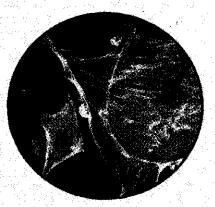

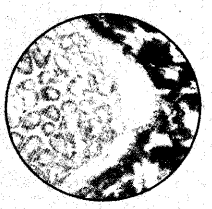

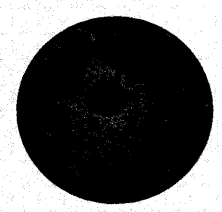

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