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In 2000, the CE.R.I.E.S. Award went to Michael Karin, Ph.D., Laboratory of Gene Regulation and Signal Transduction, School of Medicine, University of California, San Diego, USA, (study of the role of the IKKgamma/NEMO gene in regulating skin differentiation) and, in 1999, to Pr Jonathan Rees, University of Edinburgh, UK, (towards a quantitative genetic model of the interaction of ultraviolet radiation and skin).



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FIG. I Cells are not fixed

Actin filament labeling of human fibroblast (HS68) cells using anti-actin antibody delivered by CHARIOT. (65% transfection efficiency)



FIG. 2 Cells are fixed

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FIG.4 CHARIOT delivery of a 119 kDa β -galactosidase protein into COS cells. Cells are fixed and stained 2 hours post-transfection. (60% transfection efficiency)

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A C T I V E MOTIF

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Portland, OR www.cavuse.com Form preparation and budget calculations can be the most difficult parts of a National Institutes of Health (NIH) grant application. GrantSlam is a powerful tool designed to reduce this bur-

den. Version 4.0 of this program sports numerous meaningful enhancements including additional form sets, utilities (e.g., spell checking), and a native version for Macintosh users.

GrantSlam eliminates much of the frustration associated with printing information into form pages. Software templates limit the number and type of characters in each field in accordance with NIH requirements. Completed forms print without deviation from the NIH format. A key upgrade in this latest version is the variety of form sets available for Public Health Service proposals: SBIR-1 (PHS 6246-1) and SBIR-2 (PHS 6246-2) for phase I and phase II of small business grants; PHS-398 for all new, revised, competing renewal, supplemental, training, and cooperative applications; and PHS-2590 for noncompeting continuations. Form pages are included for Research Career Award and Institutional National Research Service Award applications. Users can purchase one or more of the PHS sets, cafeteria style, with a sliding price scale (\$280 for one, \$500 for all four).

GrantSlam excels at budget calculations. Both modular and traditional formats are supported. Although detailed budgets are no longer used by the NIH, many institutions continue to require such a budget for internal accounting purposes. Budget worksheets in GrantSlam provide excellent forms from which a modular budget can be prepared. A worksheet is available for the calculation of facilities and administrative costs on a category-bycategory basis. Most importantly, GrantSlam inserts calculated values in the appropriate places throughout the proposal to ensure accuracy and internal consistency.

For the body of the proposals, Word and WordPerfect templates with appropriate margins, headers, and footers are available. Thus, formatting of the proposal body can be completed in either of these widely used word processing environments.

Version 4.0 is a great improvement over previous versions, but additional enhancements could still be made. Most notably, text formatting is inconvenient. Menu-available point sizes are limited; custom sizes can be used, but doing so requires additional steps. Copy and paste functions can be used to bring text from other applications, but all formatting will be lost. However, this seems a small price compared with the quality of program output.

GrantSlam continues to serve well groups of researchers with a common administrative and intranet system, although individual researchers can effectively use this software package. With appropriate licensing, multiple users can simultaneously update a single proposal or can incorporate shared resources into multiple proposals. File-sharing privileges within groups are set by the primary author of a proposal, and security is good in such a multi-user environment.

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-Bruce D. Schultz

Assistant Professor, Department of Anatomy and Physiology, Kansas State University College of Veterinary Medicine, Manhattan, KS 66506, USA. E-mail: bschultz@vet.ksu.edu

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Chemists in academe, government, and industry have long taken responsibility for fundamental research and development that leads to new products. In recent years new career opportunities have emerged, particularly for chemists who feel comfortable straddling the discipline's traditional boundaries. **BY PETER GWYNNE**

According to U.S. Bureau of Labor statistics, chemists make up 34 percent of individuals with scientific training in industry. Close to half of all the scientists working in the pharmaceutical industry have chemistry degrees. Chemists today plainly have plenty of employment options. Opportunities for satisfying careers exist for chemists of virtually all types. Analytical chemists are in high demand. So are synthetic organic chemists. Perhaps the best career prospects belong to chemists who work at the interfaces between chemistry and other traditional fields, notably biology/medicine and materials science.

Scientific ability remains the crucial factor in obtaining good positions. However, most employers also seek chemists with good communication skills. Several employers expect candidates to give presentations about their work at job interviews. The ability to work in teams with scientists of other types is equally important. The day of the chemist who worked alone in industry has long passed.

Here we discuss opportunities for chemists with representatives of an academic department, a government laboratory, two chemical firms, and a pharmaceutical company. The consensus: Chemists should learn as much as they can about the type of job that they want to pursue, and should continue to refine their relevant scientific and nonscientific skills.

NEW YORK, New York: "Chemistry has two parts: discovery and creation," declares Ronald Breslow, professor of chemistry at Columbia University. "The core of discovery now happens at the interfaces of chemistry with biology and medicine and with materials science. It involves understanding how enzymes interact, determining how catalysts work in order to design better ones, and finding what relates chemical properties to materials' properties. Synthesis is also important for our field. It's the one critical thing that chemists can do, and it's very important in medicinal chemistry."

Breslow regards computational and theoretical chemistry as another hot area of the field. "As computers get better it's increasingly possible to do a convincing calculation of the properties of an unknown substance," he explains. "This promises to bring computerized design of drugs to the pharmaceutical industry. Students who come in with a very strong theoretical background can find jobs."

One other key factor: The traditional boundaries between subdisciplines are no longer solid. Inorganic and organic chemistry, for example,

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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COMBINATORIAL CHEMIST - BS/MS

We have immediate openings in our combinatorial chemistry group for individuals interested in contributing to the design and synthesis of libraries for the identification of therapeutic agents for the treatment of cancer, obesity, and diabetes. Successful applicants will have excellent technical and communication skills, and a thorough knowledge of modern chromatographic and analytical techniques. Experience in combinatorial chemistry or high-speed analoging methods is desirable, although not required. BS or MS degree in chemistry and 1-3 years experience in synthetic organic chemistry. **Reply to Job Code: ASMW1019.**

PROCESS CHEMIST - BS/MS

In our large-scale synthesis group, we are seeking self-motivated individuals with experience as a synthetic organic chemist to contribute to our efforts in the areas of process chemistry and large-scale synthesis. Candidates must have previous experience in synthetic organic chemistry and be familiar with various state-of-the-art synthetic methods, preparative chromatography systems and spectral methods, especially NMR. The successful candidate will be responsible for the development and optimization of large-scale synthetic routes to preclinical drug candidates and key intermediates. Practical experience in scaling up multistep syntheses and familiarity with the operation of 50-100 L reactors are highly desired. MS with 2+ years of experience or BS with 4+ years of experience. **Reply to Job Code: ASMW1016.**

PROCESS CHEMIST - Ph.D.

We are seeking a self-motivated, creative and independent thinking individual to conduct and manage early process development and large scale synthesis of preclinical drug substances. The position requires a Ph.D. in Synthetic Organic Chemistry and 6+ years of proven industrial experience. The candidate will develop and implement effective procedures for scale-up, supporting the production of bulk intermediates and development candidates for toxicological evaluation. The candidate will direct a laboratory of research associates and will represent the scale-up function on multidisciplinary drug discovery teams. **Reply to Job Code: ASMW1166.**

SYNTHETIC ORGANIC CHEMIST - Ph.D.

We are seeking a self-motivated, creative and independent thinking scientist to conduct medicinal chemistry research directed towards identifying new drug candidates. The position requires a Ph.D. in Chemistry and a thorough understanding of synthetic organic and medicinal chemistry. A proven track record of drug discovery, ideally in a pharmaceutical company environment, is required. A demonstrated ability to lead cross-functional discovery teams is desirable. The candidate will evaluate drug targets, develop project proposals, design new compounds and direct a laboratory of research associates. Ideal candidates will possess a minimum of 5 years relevant experience in the pharmaceutical industry. **Reply to Job Code: ASMW1606.**

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You will participate in research aimed at the discovery, evaluation, and development of novel therapeutic agents for infection-induced inflammation using *in vivo* and *in vitro* models of infection. You will also contribute to the profiling of compounds and study of their mechanism of action using virological, immunological, molecular, and biochemical skills as a member of a multi-discipline team. We require a detailed understanding of Molecular Biology, Pharmacology, Microbiology or Virology, and relevant literature equivalent to a BS/MS (PhD preferred) and 5 years of laboratory experience. (Job Code: 01-0193A)

Associate Scientist/Scientist/Sr. Scientist

You will employ molecular and cell biology techniques as part of multi-discipline drug discovery teams investigating novel therapeutic strategies for infectious diseases. We require a BS/MS with 1-5 years research experience in molecular biology techniques, immunology or cell biology. Expertise in tissue culture systems with primary cells and cell lines and experience with small animal models of respiratory viral infections, or pulmonary inflammation is also required.. (Job Code: 2K117TA)

Associate Scientist/Scientist/Sr. Scientist

You will develop and characterize animal models of infectious disease and evaluate anti-microbial agents. You will also characterize novel anti-bacterial agents. We require a BS and 3 years of research experience in animal models and small animal surgery. Knowledge and experience in Microbiology and/or Immunology is beneficial. (Job Code: 01-0017A)

Investigator/Sr. Investigator

You will be involved in developing and applying novel genetic technologies and services to address mode of action for novel antibacterial compounds. You will also generate and characterize bacterial strains with regulatable expression levels of specific gene products. We require a PhD in Microbiology, Biochemistry, or Biotechnology, with 3-5 years of relevant scientific experience. Demonstrated expertise in microbial genetics of both gram-positive and gram-negative bacteria with a strong record of scientific achievement is also required. (Job Code: 01-0221A)

Group Leader - Enzymology

You will be a recognized authority in enzymology, with expertise in transient and steady-state kinetics, enzyme-inhibitor characterization, structure-function studies, and the development and implementation of novel assay technologies. Preference will be given to candidates having experience with bacterial enzyme systems. We require a PhD in Biochemistry or a related field, a demonstrated record of scientific achievement, and 3-7 years of supervisory experience, preferably in an industrial setting. Flexibility, consideration of the input and perspectives of their colleagues, and ability to work effectively with others on several projects at a time, often to tight deadlines is also required. Excellent interpersonal and communication skills with demonstrated abilities in problem solving using innovative solutions are essential. (Job Code: 01-0232A)

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At least two years industrial experience that includes hands-on experience with high-throughput LC/MS techniques, and the ability to work independently in a team environment will enable you to assist combinatorial and medicinal chemists in compound characterization and purification. (Job code: BT01)

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A RANGE OF OPPORTUNITIES



have largely merged in organometallic chemistry, which examines, among other things, how enzymes use metals as catalysts. That has had an impact on academic departments of chemistry. "They have much more interest in hiring people with some range of knowledge so that they can work in different areas," Breslow says.

RONALD BRESLOW

Columbia's chemistry department follows that trend. "We have eight junior faculty," Breslow continues. "A couple are in a biological area making mutants of proteins. A couple are developing new synthetic methods. Two are working in materials science to help design molecular computers. Another inorganic chemist works on models for metalloenzymes. And one is developing new synthetic methods in the organometallic area."

When recruiting faculty members Breslow looks for chemists with postdoctoral experience in a field different from their Ph.D. research, along with confidence on their feet. "Candidates have to give two talks: about what they have done and what they will do," he says. "We're looking for people who can present ideas effectively. The most interesting candidates are bubbling with ideas and are willing to talk about new things." His advice for chemists interested in academic positions: "Read the current literature and go to talks. Don't simply be passive absorbers of information. Approach every piece of science from the point of view of what research idea you can develop out of it."



PHILLIPSBURG, New Jersey: The R&D laboratories of Mallinckrodt Baker, Inc. have more than 60 scientists and technicians with advanced degrees in chemistry and engineering. Among them, those scientists possess expertise in biochemistry, separation science, inorganic chemistry, organic chemistry, microelectronics, and surface and trace analysis.

PAUL BOUIS

The chemists and their colleagues increasingly work at the fuzzy borders between subdisciplines. "Ten years ago nobody had heard of bioprocessing, which mixes chemistry, engineering, and biology," says Paul Bouis, assistant director of R&D in laboratory products. "Today there are so many hybrid careers."

Finding recruits for hybrid work isn't easy. "You have generally to pick someone with qualifications in one of the fields and train them in the others," Bouis explains. One approach is recruiting across the Atlantic. "In Europe chemists take courses that involve some engineering," he continues. "We tend to hire non-American Ph.D.s who have a better industrial background than those trained in the United States."

Within the United States Mallinckrodt Baker looks mainly for scientists with strong analytical training. "Figures show that 30 percent of members of the American Chemical Society work in the pharmaceutical industry and about 30 percent of those are analytical chemists," explains Bouis. "We're looking for sound analytical chemists who are good problem

solvers." Finding them can sometimes prove as difficult as tracking down fully qualified Ph.D.s. "It's difficult to find B.S. chemists who want to do lab work," Bouis continues. "Most go into marketing and similar fields."

Chemists interested in lab work must also master communication skills. "They need to be able to communicate with nontechnical people," says Bouis. "Even inside companies, our business people need concepts explained. We like people who can communicate in 'newspaper reporter style' and who can understand back-of-the-envelope financial calculations."

Overall the company demands an array of talents. "I tell applicants that industry wants people with good communication skills, business knowledge, and the ability to work in teams," says Bouis. "However, most of all we want people with exceptional chemical skills because that is the basic job. When you get the first three skills but not the last, you get yourself in trouble."



RAHWAY, New Jersey: For drug company Merck, chemistry translates automatically into drug discovery. "If there are more targets to work on, which there are and will continue to be, we will need more chemists to turn those observations and discoveries into medicines that help people," says Tom Salzmann, senior vice president for basic research at the Merck Research Laboratories.

TOM SALZMANN

The need for chemists has increased in recent years. During much of the past decade pharmaceutical and biotechnology companies concentrated particularly on large molecule drugs, which demanded the expertise of molecular biologists. "Now," says Salzmann, "many have turned back to a focus on small molecule therapies. That means chemistry. At Merck we are trying to address some of the imbalances that have developed between biology and chemistry. We need more chemists."

Salzmann can use chemists of all varieties. "The largest percentage are those trained as synthetic organic chemists, the molecule builders who make up medicinal chemistry and process chemistry groups," he says. "We also want to hire biochemists, analytical chemists, and physical chemists. We're really running the gamut."

The company hires at all levels of training. "We go for the best and

the brightest at the Ph.D. and postdoc level," Salzmann says. "For every Ph.D. or postdoc, we're ultimately committing to one or two M.S. or B.S. scientists to work with them down the line." Finding enough candidates with nondoctoral degrees has also proved challenging. Not only is the company hiring Ph.D. chemists at a rapid CONTINUED >



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Business Development

An experienced professional to take significant responsibility in the business development area. Major initiatives include licensing our broad intellectual property portfolio to pharma and biotech companies, creating discovery alliances using our gene regulation technologies, and forging development and commercialization agreements for our products. Ph.D. in a biomedical field preferred with several years of business development experience in pharma or biotech. Job Code: SBD-FC

SENIOR SCIENTIFIC STAFF

Computational Chemistry/Modeling

An experienced scientist to lead our structure-based drug design efforts in support of our small-molecule programs. Candidates will have a Ph.D. in chemistry or a biophysical field and 5+ years of directly relevant experience in structure-based drug design. The successful candidate will participate in a project-based environment consisting of medicinal chemists, structural chemists and biologists. Job Code: CC-DD

Mass Spectrometry/ Bioanalytical Chemistry

A highly motivated scientist to lead our mass spectrometry and bioanalytical efforts. Candidates will have a Ph.D. in chemistry or similar field and 3+ years of directly relevant experience in mass spectrometry. Candidates should have a proven record in the quantitative analysis of drugs using electrospray liquid chromatography/quadrupole mass spectrometry. The successful candidate will participate in a project-based environment consisting of medicinal chemists, structural chemists, biologists and pharmacologists and provide key bioanalytical data for lead optimization and candidate selection. Job Code: MS-BC-DD

Regulated Cell Therapies

An exceptional scientist to lead optimization of our regulated apoptosis system (which is in clinical development) and to explore applications of our regulated cell proliferation technologies. The successful candidate will interact extensively with our academic, biotech and clinical collaborators. Requires a Ph.D. and 2+ years experience in cellular immunology or virology, and strong molecular biology skills. Experience with primary T cells, hemopoietic stem cells, retroviral vectors and cell separation technologies would be strong advantages. Job Code: RCT-TC

Gene Regulation Technologies/ Genomics

A highly motivated scientist to explore new applications of our proprietary regulated signaling and gene expression technologies. Candidutes should have a track record of creativity and accomplishment in cellular or molecular biology. Experience in application of molecular biology tools to functional genomics research, *in vitro* and/or in transgenic animals would be strong advantages. Requires a Ph.D. with 2+ years postdoctoral experience. Job Code: GRT-TC

Expression and Purification

An energetic scientist with expertise in expression and purification of protein targets for structure determination and drug discovery and a strong interest in developing new enabling technologies for increasing throughput from gene to structure. Candidates should have excellent interpersonal and communication skills to be effective in this multidisciplinary, interaction position. Requires a Ph.D. in molecular biology or a related discipline with 2+ years experience in protein engineering, protein expression and purification, including the use of eukaryotic expression systems. Job Code: EP-MV

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Organic Chemistry

Highly motivated chemists to contribute synthetic expertise to our multidisciplinary drug discovery team consisting of molecular/cell biology, pharmacology, X-ray crystallography and NMR spectroscopy, computational chemistry, and structure-based medicinal and combinatorial chemistry. Applicants should have a B.S. or M.S. degree in chemistry and 1+ years of experience in organic synthesis. Prior pharmaceutical experience in drug discovery is desirable. Job Code: RA-ST-WS

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Senior Assistant Scientist/Associate Scientist

You'll design and execute experiments aimed at identifying and characterizing new antibacterial agents for human use. This position requires a BS in Microbiology or a Biology-related field, 1+ years experience in a bacterial genetics research environment, and expertise in molecular biology (cell culture, susceptibility testing, DNA extraction, PCR, and bacterial transformation). Reg. #22Feb0102939

Senior Scientist/Research Associate

Joining our group in a leadership role, you'll implement new testing and robotic technology to advance the rapid evaluation of experimental antibacterial agents. We require a PhD in Microbiology, Medical Microbiology or Bacteriology and 2 years postdoctoral training with a focus on pathogenic bacteriology, physiology, taxonomy, contemporary antibiotic susceptibility and molecular diagnostic testing. Req. #27Feb0103100

Sr. Scientist (2 positions)

You'll help establish and execute approaches to identify and develop new antibacterial agents for human use, identify compounds that interact with molecular targets and determine their mechanism of action. We require a PhD in Biology, Microbiology or Biochemistry bolstered by 2 years relevant postdoctoral training and the ability to use genetic approaches to understand cellular processes in bacteria. Req. #22Feb0102944

Second position also requires experience in a Gram-positive bacterial system. Req. #22Feb0102941

Associate Scientist

You will plan, execute and analyze data from *in vivo* experiments that test new antibacterial agents and work to develop new animal efficacy models that mimic human infection. We require a BS/MS in Bacteriology, Microbiology or Pharmacology, 2 years research experience in small animal models, and basic molecular biology skills. Req. #22Feb0102954

Sr. Scientist/Research Associate

You'll support existing animal efficacy models and design and validate new animal efficacy models that mimic human infection, establish models of host-pathogen molecular interaction, and relate pharmacokinetics to dosing regimens. We require a PhD in Bacteriology, Medical Microbiology or Pharmacology, 2 years postdoctoral training with an emphasis on bacterial pathogenesis or virulence factors, and 3-5 years additional research experience in an academic or industrial laboratory. Req. #27Feb0103101

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A RANGE OF OPPORTUNITIES

pace. "We also tend to encourage our very good Bachelor's and Master's people to go back to earn their Ph.D.s," he says.

"Inherent in everything we do is the concept of the team," Salzmann adds. "We clearly look for people to show us some signal that they're ready, willing, and able to work in our drug discovery teams. And if scientists have aspirations to lead, leadership and communication skills become very important. A lot of that we pick up from letters of recommendation and conversations with academic mentors."

What can young chemists do to impress Merck and similar companies? "First and foremost," says Salzmann, "seek out the best possible academic group to work in. Shoot very high because we shoot very high. And take opportunities to do summer internships at Merck and other pharmas. You can hear a lot about working in an environment like this but there's nothing like actually doing it."



BELTSVILLE, Maryland: The United States Department of Agriculture's Agricultural Research Service (ARS) has over 2,000 scientists in more than 100 locations across the United States and elsewhere in the world. In recent years it has sought to increase the capacity of that cadre to carry out research. "Over the past year we have hired 42 new chemists nationwide," says David Love, branch chief

DAVID LOVE

with the ARS Human Resources Division. "Of those, roughly two-thirds were in research scientist positions. Essentially all our positions involve analytical chemistry."

The service seeks chemists trained in several subdisciplines. "We need chemists who have experience related to food, the environment, natural products, and the ability to convert renewable resources into industrial products," explains national program leader Frank Flora. "We also employ chemical engineers. They are involved in developing new processes that involve renewable agricultural resources."

Research positions typically require a Ph.D., comparable experience, or more. "ARS provides support for postdoctoral candidates, many of whom go on to become permanent research scientists in the agency," says Love. Those positions are particularly compelling for chemists who want to spend their entire time in research. "Our mission is research. The positions have no teaching component," Love points out. "That excites a lot of candidates." One recently advertised position attracted more than 70 applicants, many of them highly qualified. Between 20 and 25 candidates apply for most other jobs.

Last year ARS employed 255 chemists and 23 chemical engineers, mostly Ph.D.s, as research scientists. "We also employ a number of chemists with Bachelor's and Master's degrees in technical support positions; they represent about one-third of the total chemists in the agency," says Flora.

ARS emphasizes the need for communication skills. "They are necessary particularly in the research positions. An integral part of the work is to be able to report research in publications and presentations at professional meetings," says Love. To detect those skills in candidates, he continues, "we usually ask candidates to give a presentation or overview. We check references pretty extensively and we look at where candidates have published."

Flora suggests that would-be recruits should decide what area of agriculture-related chemistry interests them and then do some personal research into the agency and its laboratories that specialize in such research. Once hired, research recruits have a three-year probationary period. "That works well for both us and the research scientists, who don't immediately face a publish-or-perish situation," says Love.



ST. LOUIS, Missouri: From the viewpoint of Larry Hummel, president of Sigma Chemical Company, the hot jobs for chemists occur in genomics and proteomics. "Now that we have the databases from genome sequencing, we'll need to know what the genes and proteins are coding for, what they do, how they change in healthy and diseased states, and what we can do to increase or decrease those

LARRY HUMMEL

changes," he says. "For that, crossing disciplines is very important. You can't be good at just one particular technique because the need for specific methods can change over time. You also need to be good at interpreting the information you receive."

Sigma hires chemists of several types with various levels of education. "For every 10 that we hire we're probably looking for one Ph.D., two to three with Master's degrees, and six holders of B.S. degrees," Hummel says. "We're looking for Ph.D.s in almost every discipline: chemists with strong analytical backgrounds, strong organic backgrounds, and — most of all — training in molecular biology and protein chemistry. At the lower levels we're looking for smart kids who have good communication skills."

The ability to work effectively in teams is key to any scientific job at Sigma. "For all our chemists, particularly those at the entry level, we need scientists who can communicate well, learn rapidly, and work well in teams. The days of a chemist who worked alone are gone in our company," Hummel says. "If you're in a production lab or an R&D laboratory, it's important to be able to work with the people next door. In R&D particularly you have to be able to communicate backward and forward with other scientists. You must also communicate with the marketing and technical services people who will be selling your products and telling customers how to use them."

What advice does Hummel have for chemists interested in working for Sigma or similar companies? "While they're still in school they should, of course, do their very best at their own discipline, but they should not ignore other disciplines," he urges. "Many chemists who begin work in one discipline change their field. Most of our management people have come through the ranks from the chemical labs. And most of our marketing and technical service people have chemical backgrounds."





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Chair of Immunology

St. Jude Children's Research Hospital (SJCRH) invites applications and nominations for the position of Chair of the Department of Immunology. The new Chair will head an expanded department housed in a new research building scheduled to open in late 2001. Current areas of expertise in the Department and the Institution include T cell response to viral infection, antigen recognition and lymphocyte activation, lymphocyte development, cell cycle control, regulation of apoptosis, and cytokine signal transduction.

SJCRH has outstanding and affordable core facilities including a transgenic/knockout center, state-of-the-art flow cytometric and cell sorting facility, an MHC tetramer laboratory, a microinjection facility, bioinformatics/ DNA chemistry/protein chemistry center and new animal quarters including pathogen-free rooms and biologic containment space. A good manufacturing practices (GMP) facility, also under construction, will provide capabilities for on site production of vectors, vaccines, antibodies, and other protein therapeutics.

SJCRH is a hospital and basic research institute with a focus on fundamental areas of biology that apply to catastrophic diseases of childhood including cancer, infectious diseases and genetic disorders. It has a faculty of over 150 basic and clinical investigators organized into traditional academic departments. These include Biochemistry, Genetics, Developmental Neurobiology, Molecular Pharmacology, Biostatistics, Radiation Oncology, Pathology, Structural Biology, Virology and Molecular Biology, Tumor Cell Biology, Diagnostic Imaging, Radiation Oncology, Infectious Diseases, and Hematology/Oncology. The Institution is currently recruiting additional expertise in chemical and computational biology. Within the Institution, there is strong support for collaborative interdepartmental research that combines both basic and clinical investigation.

Candidates should have a Ph.D. and/or MD degree, an active and competitive research program, an international reputation and a distinguished record of scholarly achievement. Applicants should send a curriculum vitae and the names of three references to Chairman, Immunology Search Committee, Attn: Ms. Barbara Rhoads, St. Jude Children's Research Hospital, 332 N. Lauderdale, Memphis TN 38105.

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- Background in tissue culture work, including eukaryotic expression systems
- Proven ability in independent research and communicating research efforts within a team context

Research Scientist, Molecular Genetics Screen Design - Job Code: OPSCI-P10927

- Utilize yeast as a model genetic organism to clone drug target genes, determine gene function and design yeast-based high throughput screens, and help discover compounds acting on targets of interest
- MS in Molecular Biology, Microbiology or a related discipline and 5+ years' experience in yeast genetics research; experience in developing and validating screens and high throughput bioassays is a plus
- Familiarity with a wide variety of general and yeast molecular biology techniques (gene knockouts, heterologous gene expression, molecular cloning, PCR, RT-PCR, Southern, northern and western blotting, etc.)
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Combinatorial Chemistry Ph.D. Scientist

You will play an integral role in various combinatorial synthesis projects to help build up S*BIO's chemical compound libraries. Candidates should possess a degree in Organic Chemistry, with experience in medicinal chemistry and strong organic synthesis skills. You should have knowledge of MS Excel and general Web-based applications. Experience in instrumentation repair, mechanical aptitude, use of HPLC, proficiency in mass spec analysis and solid phase synthesis are distinct advantages.

D-CCS

D-HTSS

High Throughput Screening Ph.D. Scientist

You will be involved in developing screening assays for S*BIO targets and performing these assays against our compound libraries in a high throughput manner. You should possess an advanced degree in Biochemistry or Molecular Pharmacology and have experience with biochemical and/or cellular assays. Knowledge of basic programming, MS Excel and MS Excel-based macros is essential. Familiarity with HTS instrumentation and robotics is a distinct advantage. You should have excellent communication skills and be available for an initial 12-18 month training opportunity at Chiron.

Expression Library Ph.D. Scientist DNA Microarrays Ph.D. Scientist Target Validation Ph.D. Scientist

G-TVS

You will be a team member in developing S*BIO's gene discovery, profiling and validation capability. You should have a strong background in molecular biology and molecular genetic techniques (cloning, library-screening, sequencing, gene amplification/quantitation). Knowledge of software programmes for sequence analysis (Vector NTI, Sequencher), sequence databases (GenBank, TIGR, Protein), database mining and MS Excel is essential. Additionally, familiarity with robotic assay systems, imaging and a strong background in statistical analysis will be required. Prior experience in relevant areas is a distinct advantage.

Gene Function Ph.D. Scientist

You will be involved in functional studies of genes validated through the in-house genomics programme. You will work closely with S*BIO's High Throughput Screening scientists to develop efficient screening assays. You should have a strong background in cell biology, in vitro cell-based techniques, molecular biology and biochemistry (cloning, sequence analysis, blotting techniques, primer design and gene amplification/quantitation, vectorology). Knowledge of software programmes for sequence analysis (Vector NTI, Sequencher), and sequence databases (GenBank, TIGR, Protein) is essential.

G-GFS

Bioinformatics Ph.D. Scientist G-BS

You will support the gene discovery and expression programme with tools to process, analyse, track and archive data. You should have a strong background in UNIX, Oracle database development, Visual Basic and MS ASP. Knowledge of molecular or cell biology with familiarity in heuristics for conducting BLAST searches against public sequence database for nucleic acid and protein is essential.

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Email: hr@s-bio.com







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The R.W. Johnson Pharmaceutical Research Institute conducts pharmaceutical research and development in therapeutic areas including anti-infectives, central nervous system (CNS), diabetes, hematology/oncology, immunology/inflammation, women's health, and wound healing.

Molecular Toxicology

Raritan, NJ (Req Code: 0032345CI)

Join a highly interactive team that is using gene transcriptional profiling for toxicity evaluation. Participate in the use of DNA microarray technology including experimental design, sample preparation, data collection and bioinformatics.

Neuroscience

Spring House, PA (Req Code: 010171SCI) Work closely with the CNS Research Team applying a broad-based multidisciplinary strategy utilizing both in vitro and in vivo techniques. Must have experience with molecular mechanisms associated with neuroprotection and neuroregeneration.

Both positions demand effective communicators with a Ph.D. in Molecular Biology, Biochemistry, Cell Biology or a related discipline. Strong computer skills are also required.

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University of California Lawrence Livermore National Laboratory Science in the National Interest

POSTDOCTORAL RESEARCH STAFF MEMBER

The Center for Accelerator Mass Spectrometry (CAMS) at Lawrence Livermore National Laboratory (LLNL) is seeking a postdoctoral research scientist in terrestrial paleoclimate and paleoecology. The overall CAMS mission is the utilization of a wide range of isotopic and ion beam analytical methods to solve problems in basic science research and technology development. The natural radiocarbon research group is engaged in modern process studies of the terrestrial and oceanic realms to document and understand the spatial and temporally varying sinks and sources of CO2 to the atmosphere. Studies of natural climate variability are also of interest, specifically development of paleoclimate records with sufficient resolution and timecontrol to understand the processes governing seasonal to millennial to glacial-interglacial climate change. Our research group works closely with various modeling groups both in-house at LLNL and the broader external scientific community, but the principal focus is the acquisition and interpretation of real-world data. The successful applicant will work within the geosciences radiocarbon group as part of an interdisciplinary team of LLNL researchers and external collaborators. The primary responsibility of this position is to develop experimental programs to explore natural climate variability under different boundary conditions. The main focus will be to use 14C AMS measurements in conjunction with paleoclimate archives and proxy data to document climate variability in the terrestrial environment. Duties include conducting original and independent research as part of a multi-disciplinary team, publishing results in peer reviewed literature, presenting research at professional meetings, and assisting in overall research and measurement programs of the natural-14C research group.

This position requires a recent Ph.D in ecology, biology, geology, biogeochemistry or related field. Experience in sample preparation and interpretation of stable isotope and 14C analyses is desired.

LLNL offers a challenging environment and competitive salary/benefits package. To be considered, reference Dept. **AJSC3N1EZ**. E-mail resume and cover letter to **camspostdocsc@linl.gov** or mail resume to Linda McMullen, L-725, Lawrence Livermore National Laboratory, PO. Box 5510, Livermore, CA 94551-5510. We are proud to be an equal opportunity employer with a commitment to workforce diversity.

For more information about this position and others, visit us on the web at:

www.llnl.gov/jobs



Executive Officer

The American Association for the Advancement of Science (AAAS) is conducting a search to fill the position of Executive Officer. This position reports to the Chairman of the elected Board of Directors.

The Association, founded in 1848, is a 501C(3) not-for-profit organization. It has an individual international membership of 138,000 and is affiliated with nearly 300 scientific, engineering, and learned societies. The principal publication of AAAS is *Science*. The Executive Officer serves as publisher of this weekly international journal. A staff of about 400 people, headquartered in Washington, DC, handles the Association's publishing activities, as well as the planning and support of annual meetings and symposia, a range of special programs in science education, international cooperation, science and public policy, opportunities in science, and science communication.

The Board of Directors is seeking a person of substantial experience and accomplishment. Appropriate background may be in scientific or engineering research, education, academic administration, scientific or technical society management, industry, publishing, development, or public administration of research and development policy. Initiative, management skill, and knowledge of the interactions of science and technology with public policy are salient requirements. Successful candidate must have 15 years relevant experience in one or more of the above areas including 10 years of experience in planning, budgeting, and management. Demonstrable interest in the goals of AAAS is essential. Salary is negotiable.

Letters of application, accompanied by curriculum vitae, should be addressed to:

Executive Officer Search Committee Chairman Mary Good c/o Gretchen Seiler AAAS 1200 New York Avenue, NW Washington, DC 20005 Telephone: 202.326.6633

The closing date for receipt of applications is 1 June 2001.

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Postdoctorial Fellowship - Microbial Biochemists/Molecular Scientists

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The successful candidates will work with gram-positive genetic systems, evaluating their utility in a variety of target projects, and the development of biochemical assays for novel enzymes, in addition to the evaluation of their inhibitors. Qualified candidates must possess theoretical and practical knowledge in Molecular Biology, Microbiology or Biochemistry typical of a PhD with postdoctorial experience. Expertise in microbial genetics and biochemistry is essential, along with a good working knowledge of microbial gene modulation, biochemical assay development, and inhibitor analysis. Publication is strongly encouraged.

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: 01-0233A, P.O. Box 40047, Philadelphia, PA 19106 or visit our website: www.gsk.com Indicating Job Code is essential. Principals only, no agencies please.

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Distinguished scientists from major universities sit on our advisory board, and we've licensed chemosensory technologies developed at some of those same institutions. In our pre-IPO, entrepreneurial environment, you'll participate in building our technologies and our company, and have the satisfaction of knowing that you played an important role in Senomyx's growth.

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- Biochemist Assay Development
- Cell Biologist Receptor Expression
- Cell Biologist Assay Development
- Head, High-Throughput Screening
- Engineer, High-Throughput Screening
- Research Associate Baculovirus Expression
- Research Assistants & Associates

CHEMISTRY

- Chemistry Group Leader
- Molecular Design Scientist
- Synthetic Chemists
- Analytical Chemist

INFORMATICS & INFORMATION TECHNOLOGY

- Senior Programmer/Analyst
- Bioinformatics Scientist
- Chemoinformatics Scientist
- Assay Data Management

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In Senomyx's open, start-up culture, we'll keep you informed of the latest company developments. We've created a fun, energized workplace with great company events. You'll have specific and measurable goals to achieve, and will be rewarded with a competitive salary/benefits package, including medical, dental, vision, 401(k), stock options, and the week between Christmas and New Year's off!

We invite you to forward your resume to: Senomyx, Inc., Attn: Human Resources, 11099 N. Torrey Pines Rd., La Jolla, CA 92037; E-mail: human.resources@senomyx.com. EOE





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Vice Dean for Research

Case Western Reserve University School of Medicine seeks candidates for the position of Vice Dean for Research. This newly created position will report directly to the Dean, School of Medicine. Duties include providing leadership for research planning activities, coordination and leadership for development, operation, and evaluation of core facilities and stimulation of interdisciplinary, interdepartmental, trans-university, and interinstitutional research programs.

Excellent candidates will be active investigators with experience in cross-cutting, integrative research programs that extend beyond their own laboratories and will have strong administrative skills. In addition, excellent candidates will have superb interpersonal skills to facilitate the research agenda among department chairs, research center directors, administrators at CWRU, and research leaders at other institutions, as well as the Development Office and the faculty. Please direct inquiries, nominations, and applications to:

P.B. Davis, M.D., Ph.D. CASE WESTERN RESERVE UNIVERSITY

Department of Pediatrics, BRB 8th floor, 2109 Adelbert Road, Cleveland, OH 44106-4948.

Applications may also be submitted electronically to **pbd@po.cwru.edu.**



In employment as in education, CWRU is committed to affirmative action and equal opportunity. Qualified women and minority group members are encouraged to apply. ETH

Eidgenössische Technische Hochschule Zürich Swiss Federal Institute of Technology Zurich

Professor for Biologically-Oriented Materials Science Assistant Professor for Biologically-Oriented Materials Science

The Department of Materials at the ETH Zurich seeks applications at the rank of both Professor and Assistant Professor at the intersection of the fields of materials science and biology or medicine or both. The research of the successful candidates should focus on materials science, meaning the chemistry and physics of materials, as applied to any aspect of biology, including biomaterials (e.g., materials issues in biosensing and bioanalysis, drug delivery, medical devices and tissue engineering), biotechnology (e.g., materials issues in protein or DNA analysis, delivery and processing), and study of the structure and function of biological materials in nature. In collaboration with other colleagues in the Department, the successful candidates will contribute to developing a complete curriculum in biological and biomedical materials science.

Please submit your application together with a curriculum vitae and a list of publications to the President of ETH Zurich, Prof. Dr. O. Kübler, ETH Zentrum, CH-8092 Zurich, no later than May 31, 2001. The ETHZ specifically encourages female candidates to apply with a view towards increasing the proportion of female professors.



In addition to a highly competitive salary, St. Jude offers postdoctoral research fellows an outstanding benefits package, including yearly professional travel funds. For consideration, interested candidates should send a curriculum vitae and arrange to have three letters of recommendation sent to: Jie Zheng, Ph.D., Department of Structural Biology, 332 N. Lauderdale, Memphis, TN 38105.

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Scientist, Molecular Biology (GPCR)

Conduct independent research while working with a multidisciplinary drug discovery team. Ph.D. plus a minimum of 2 years experience, postdoctoral or industry, in G-protein coupled receptor biology.

Senior Scientist, Exploratory Discovery (GPCR)

Work with Chemistry teams to advance emerging drug discovery projects. Ph.D. in Receptor Pharmacology, Endocrinology, Cell Biology or related field, and 5 years experience, including a strong background in GPCR biology and assay development.

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HIV Molecular Virologists, PhD and RA positions --- Job code 43022801-KW

Experienced researchers are being recruited to join a product development program focused on the testing of candidate AIDS vaccines. Primary responsibilities will involve: molecular and genetic characterization of viruses from clinical trial cohorts, development of novel envelope based vaccine antigens, and immunological evaluation of antisera raised against candidate vaccine antigens. Expertise in molecular biology, virology, or immunology is required. Experience with automated sequencing, sequence analysis, virus culture, in vitro mutagenesis, RT-PCR, bioinformatics, mammalian cell transfections. immunoprecipitation and immunoblotting is required. The successful candidates must be self-motivated with leadership and team building skills. The individual will be responsible for generating high quality data required to support regulatory submissions, and must be able to trouble-shoot technical problems. Familiarity with Excel, Sequencher, and other sequence analysis software is essential. An undergraduate science degree and 4 years of post-graduate laboratory work experience is required.

Cell Culture Process Development (Fermentation) — Job code 431116002-CK

Ph.D., Postdoc, Senior RA level position involving the development and scale-up of a new fermentation process for mammalian cell lines expressing recombinant proteins. Duties: maintaining a cell culture lab, carrying seed trains in spinner flask, perform scale- up and optimizing cell growth for large-scale fermentation process, pre-run preparations of 2L-10L reactors, washing and setting up reactors, operating controllers, harvesting of reactors and performing data analysis. Requirements: B.S. and 4 years experience minimum with Cell Culture Process Development (fermentation), aseptic technique, experience in operating 2L-10L reactors, mammalian cell culture experience preferred.

Please indicate the job code and mail, e-mail (include job code in subject line) or fax your resume to:

VaxGen, Inc. Attn: Human Resources 1000 Marina Blvd., Suite 200 Brisbane, CA 94005-1841 e-mail: jobs@vaxgen.com (text only) Fax: 650.624.1001 No phone calls please

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Research Associate

Assist the Research Scientist and other team members in the aforementioned activities. Aid in the installation, validation, and supervision of HTS and assay development automation equipment, as well as the preparation of buffer and reagents for the HTS lab.

A BS/MS and 1-2 years' experience in high throughput screening, assay development & validation, automated workstation, and robotics. Knowledge of assay technologies, cell culture, and general molecular biology. Familiarity with HTS data management software and MS Office. (Job Code SBF1-160)

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Staff Scientist (Clinical) Neuropsychologist Position

Mood and Anxiety Disorder Research Program National Institute of Mental Health Bethesda, MD

Candidate must have a Ph.D. in neuropsychology or a related discipline and experience in the administration, scoring, interpretation of clinical neuropsychological test instruments, and prior research experience within a multidisciplinary team. Research protocols will include investigations involving functional neuroimaging, neurochemical evaluation, and the testing of novel therapeutic agents. In addition, both the Mood and Anxiety Disorder Research Program and the Laboratory of Brain and Cognition, Section on Cognitive Neuropsychology, plan to conduct studies, which involve recruitment of patients with specific brain lesions to identify the neuroanatomical correlates of abnormalities in mood and cognition. Applicants should send curriculum vitae, statement of research interests, and have three letters of recommendation sent by March 25, 2001 to:

Dr. Dennis Charney Director, Mood and Anxiety Disorders Research Program DIRP, NIMH Building 10, Room 4N-222 9000 Rockville Pike Bethesda, MD 20892-1381



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> Dr. Vinay K. Pathak HIV Drug Resistance Program NCI-Frederick, P.O. Box B Frederick, MD 21702 Fax: 301-846-6013, E-mail: vpathak@ncifcrf.gov Website: www.ncifcrf.gov/hivdrp/Pathak.html



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2001 CRC SENIOR CANCER RESEARCH FELLOWSHIPS

The Cancer Research Campaign is the largest supporter of cancer research in British universities and medical schools and is committed to developing the next generation of leaders in the field of cancer research.

The Campaign is pleased to invite preliminary applications for its Senior Cancer Research Fellowships. The aim of this fellowship scheme is to support outstanding young investigators who have shown special promise in their initial studies in a cancer relevant research field and to provide them with an opportunity to establish an independent research group.

Candidates should have a PhD, have at least three years' postdoctoral experience and should not normally be over 35 years of age. However, equal consideration will be given to those over this age where their career has been affected either by a late start, or by interruption for personal or family reasons. Applicants should not currently hold a tenured position at the proposed host institution.

The CRC Senior Cancer Research Fellowships may be held in any CRC-funded research institute, laboratory or research group, or alternatively in an appropriate UK university department, subject to the usual CRC funding restrictions.

The fellowship will provide personal support for the CRC Senior Cancer Research Fellow, research assistance, consumable costs and a set-up equipment grant in the first year. The Fellows will also have the opportunity to apply for additional support (running costs for externally funded postdoctoral scientists, studentships and equipment) from the Campaign during the course of the fellowship. The award will be tenable for six years in the first instance. The fellowship will be potentially renewable in open competition, through the CRC programme grant application process, for a further six years and the potential exists for negotiations with the host institution to secure a tenured appointment. The Campaign hopes to appoint five Senior Cancer Research Fellows to commence in the year 2002.

Applicants are invited to submit a two page preliminary proposal outlining their proposed programme of research, an indication of the likely host institution should be included, plus a full CV. Successful applicants will then be invited to submit a full application.



For further information please contact Dr Lynn Turner on 020 7317 5178, e-mail: lturner@crc.org.uk, or write to: The Cancer Research Campaign, 10 Cambridge Terrace, London NW1 4JL. Closing date for preliminary applications: Friday 4 May 2001.

the cancer, research campaign

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Responsible for the investigation of signaling pathways and structure function analyses of the recently cloned platelet Gi-coupled ADP (P2Y12) receptor (Nature, Jan 11, 2001), and the analysis of P2Y12 in vivo thrombosis models. Must have a Ph.D., at least 3 years' relevant postdoctoral experience and excellent communication skills. Requires experience in molecular pharmacology/biochemistry of 6 protein caupled receptors, a proven record of accomplishment and a strong publication record. Molecular & cell biology experience preferred. (Job # A086-SQ)

Scientist/Senior Scientist, TGF-B Signaling

You will be a member of a team focused on understanding the mechanisms by which the TGF-B family of growth factors signal, and the utilization of this information to develop inhibitors of these pathways. Previous experience in TGF-B biology, signal transduction, and drug development will be viewed favorably. Requires a Ph.D. (or equivalent) in biochemistry, molecular biology or related discipline and at least 3 years of relevant post doctoral training. (Jab# A093-SCI)

Research Associate, Integrin Signaling

You will conduct a broad range of research focusing in the areas of Integrin Signaling and inflammation utilizing mouse models for cardiovascular diseases. Qualified candidates will possess a BS/MS in Biochemistry or Cell Biology with 2 years of lab experience. Experience in basic molecular biology techniques, protein expression and purification, tissue culture and Facs analysis is preferred. (Job# A065-SCI)

We will be conducting an-site interviews at the ACS National Meeting in San Diego, CA, April 1-5.

COR Therapeutics, Inc. offers competitive salaries, excellent benefits and attractive equity positions. To apply, please send resume to: COR Therapeutics, Inc., Attn: (Job#), 256 East Grand Avenue, South San Francisca, CA 94080; Fax (658) 615-9639; Email: hr@corr.com. (OR is an equal opportunity employer.





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The University offers a competitive salary commensurate with experience and an outstanding benefits package. Please send your resume, cover letter and evidence of your past record of deal formulating/closing to: IW, Job #B-10312A, University of Pittsburgh, Human Resources, 100 Craig Hall, Pittsburgh, PA 15260. FAX: (412) 624-8720, E-mail: resume@exchange.hr.pitt.edu. The University of Pittsburgh is an Affirmative Action, Equal Opportunity Employer.

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www.sciencecareers.org



The University of South Florida invites nominations and applications for the position of:

Vice President for Research

The University of South Florida invites nominations and applications for the position of Vice President for Research. The chief research officer of the University, the Vice President reports directly to the President and is responsible for the administration, service, and promotion of the USF research program, including the protection of intellectual property and the enhancement of productive relationships among industry, government, the community, and the University.

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For additional information about USF Research and this position, see http://www.research.usf.edu. Please direct applications and nominations to: Dr. Barry Bercu, Chairperson, Search Committee for Vice President for Research, University of South Florida, 4202 E. Fowler Avenue, ADM 200, Tampa, Florida 33620.

Applications should include a current curriculum vitae and a detailed letter describing the candidate's relevant experience and qualifications. Applicant screening will begin on April 23, 2001 and will continue until the position is filled.

The State of Florida has a Public Meeting Law and a Public Records Law and all university searches are conducted under the terms thereof. All meetings of the search committee are publicly announced and conducted. All documents submitted to the committee are treated as open material with the exception of evaluative documents specific to the performance of the faculty of the State University System of Florida concerning health or disabilities.

The University of South Florida is an equal opportunity, affirmative action, equal access institution. For disability accommodations, contact Lorraine Diecidue at (813) 974-5481 at least five working days in advance of need.

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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/

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seeks a **PUBLISHER**

Nature Publishing Group is looking for a publisher to manage the Nature-branded monthly research journals, primarily based in New York. This is an exciting and challenging role and demands a first class candidate to support the development of the journals and to launch new titles. Titles currently published include Nature Medicine, Nature Genetics and Nature Biotechnology.

The key task of a Nature publisher is to develop the best research journals in the biomedical market. Our journals are at the top of the quality standards for STM publishing and the Publisher will ensure that the journals continue to meet the needs of their scientific communities and reach their full editorial potential. It is the Publisher's responsibility to lead the development of new business opportunities in print and online. It will be important to have a sound grasp of finances to ensure that the journals meet their financial goals and the successful candidate will have the ability to manage and motivate excellent editorial staff teams.

The successful candidate will be able to demonstrate a strong commercial drive and an aptitude for figures. They will be educated to at least first degree level. We are looking for a highly creative individual who is excited by the opportunities offered by the web. They will have an analytical approach to problem solving, with a keen understanding of project management. Excellent interpersonal skills are a must.

Nature Publishing Group, publishers of *Nature*, is a leading international scientific publishing group. With publishing offices in New York, London, Tokyo and San Francisco, the company is truly global with a creative and innovative approach to publishing and a highly visible presence in the scientific community.

If you can demonstrate that you have the qualities we need and wish to apply please send a CV **by 30th March 2001** to: Attn: PUBJM, Nature Publishing Group, 345 Park Avenue South, New York, N.Y. 10010. Email: admin@natureny.com; Fax: (212) 696-9594. Please contact Noemi Velazquez at (212) 696-9200 for a job description and an informal discussion about the job.

Science Writer

The National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) is seeking applications from individuals who are currently in post-doctoral positions, but who wish to leave laboratory research for a career as a science writer. Particularly encouraged to apply are individuals with post-doctoral experience in molecular biology, coupled with demonstrated writing and other communication skills. Incumbent will develop a wide range of documents that analyze and present the scientific accomplishments and plans of the NIDDK to the Congress, voluntary health organizations, and other lav audiences and must thus be able to convey in global, understandable terms the contributions of biomedical research to human health. Total salary is competitive and will be commensurate with the experience of the selectee.

Please submit current curriculum vitae to the attention of:

Ms. Deidre Davis

Office of Human Resource Management National Institute of Diabetes and Digestive and Kidney Diseases National Institutes of Health Building 31, Room 9A30 31 Center Dr., MSC 2560 Bethesda, Maryland 20892-2560

Applications must be postmarked by April 20, 2001, and received by close of business April 25, 2001.



Postdoctoral Position



The National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS) of the National Institutes of Health is seeking a highly motivated candidate to fill a postdoctoral position in an interactive microarray laboratory, to study the genetics and molecular biology of human population variation and disease. The successful candidate should have a Ph.D in human genetics or molecular biology or M.D. and an interest in gene expression profiling.

For more information on the principal technology utilized, refer to: Nature Genetics 1999;21:10:14 (http://www.nature.com/ng/chips_interstitial.html)

Send a curriculum vitae and research summary, and have three letters of recommendation sent to:

> David J. Duggan, Ph.D., Associate Investigator,NIAMS, National Institutes of Health, Building 9, Room 1N124G, 9000 Rockville Pike MSC 0975, Bethesda, MD 20892-0975. Email: David_Duggan@nih.gov

Applications must be submitted by April 23, 2001 NIH is an Equal Opportunity Employer GPC Biotech AG is an international genomics-driven drug discovery company headquartered in Munich, Germany. GPC Biotech Inc., our US subsidiary, has facilities in Cambridge, MA and Princeton, NJ. GPC Biotech is applying its proprietary genomics, proteomics and drug discovery technologies to accelerate the process of developing mechanism-based drugs for oncology, infectious disease and immunology indications.

We are seeking Bioinformatics staff in the following areas:

Programming (Ref. PRG)

This position will perform data analysis and software development for various biological projects.

Requires a BS or comparable degree (FH/Uni) in a science-related field and one to two years experience with Perl, HTML, CGI, and Unix shell scripting. Familiarity with C/C++ or Java is desirable. Knowledge of basic biological and statistical concepts is a plus. Location: Munich.

Computational Biology (Ref. CPBIO)

This position develops computational approaches to support research efforts in functional genomics, proteomics, structure-activity relationships and drug design, cell signaling or modeling of complex biological processes, systems and networks.

Requires Ph.D. or equivalent experience in computer science or molecular biology. Knowledge of bioinformatics tools and public proteomics, pathway and genomic data sources is required. Helpful skills include Unix shell scripting, Perl, CGI, C/C++, or Java. Location: Munich or Cambridge/USA

Data Integration (Ref. DINT)

This position supports target discovery and other genomic research through the integration of diverse biological databases and the development of tools and interfaces.

Significant experience with Unix shell scripting, Perl, and HTML/CGI is required; additional programming skills (such as SQL and Java) would be helpful. Familiarity with sequence analysis concepts and large-scale analysis tools and with public sequence databases is preferable. BS (FH/Uni) in Biology, Computer Science or similar field required. Advanced degree in Molecular Biology is preferred. The position offers an opportunity to work with SRS, Oracle, or similar databases and to acquire proficiency with SQL and database access tools. Location: Munich, Cambridge/USA or Princeton/USA

Bioinformatics Scientist/Statistician (Ref. BSTAT)

This position will develop new algorithms and statistical methods for the analysis of gene expression and other scientific data, and will incorporate them in a user-friendly software package. Working with biologists, support experimental design, quality control and analysis of results.

Advanced degree or Ph.D. in appropriate field or equivalent experience required. Experience required with standard statistical methods; ideally including modern methods such as Bayesian analysis. Experience in an object-oriented programming language, ideally Java, is desirable. Additional experience with UNIX, scripting languages like JavaScript and Perl, database programming, and standard mathematical software such as SPSS and Matlab would be helpful. Experience in analysis of gene expression data is a plus. Location: Munich or Cambridge/USA

All positions require fluency in English.

GPC Biotech AG rewards its team members not only by providing a stimulating and demanding working environment, but also through a stock option program by which every employee can share in GPC's success. If you wish to form part of a premier biotechnology company, then please send your application in English including a full CV.



GPC Biotech AG • Human Resources Dept. Fraunhoferstraße 20 • D-82152 Martinsried Tel.: +49 89 85 65 26 48 • Fax: +49 89 85 65 26 61 e-mail: human.resources@gpc-biotech.com http://www.gpc-biotech.com



Pharmacology & The University of Toxicology

Texas Medical Branch at Galveston

PREDOCTORAL AND POSTDOCTORAL SCIENTISTS

Research opportunities range from molecular and cellular pharmacology and toxicology to systems pharmacology (<u>http://www2.utmb.edu/phtox/</u>). Positions are available through the NIEHS Environmental Toxicology Training Program and the NIDA Training Grant (Pharmacological and Neural Mechanisms of Action of Drugs of Abuse) as well as through research grants held by individual faculty. Detailed descriptions of positions are available (<u>http://www2.utmb.edu/phtox/department/employ/index.htm</u>). Fellows will be mentored to facilitate transition to independent research careers by emphasizing the acquisition of suitable laboratory, writing, public speaking, teaching and interpersonal skills. Fellows will have access to the resources of a variety of research centers and programs with which the Department is closely affiliated. These include the Sealy Center for Cancer Cell Biology, Sealy Center for Environmental Health and Medicine, Sealy Center for Structural Biology, HHMI Program on Membrane Proteins, and the Program in Neuroscience. All training grant positions are restricted to US citizens or permanent residents.

MOLECULAR TOXICOLOGY	NEUROPHARMACOLOGY
James R. Halpert – substrate specificity and cooperativity of P450 3A enzymes; molecular modeling and structural biology of P450s; P450 engineering	<u>Kathryn A. Cunningham</u> - neuroscience of drug dependence; mechanisms and neural sites of action of stimulants and hallucinogens; serotonin neuropsychopharmacology
Irina A. Pikuleva - substrate specificity, membrane topology and crystallization of cholesterol metabolizing cytochromes P450	<u>Joel P. Gallagher</u> - electrophysiological analyses of chronically abused drugs - looking for a pharmacotherapy
CANCER PHARMACOLOGY	Gilbert R. Hillman - quantitative image analysis of stroke and stroke models; development of image analysis techniques for MRI and
Xiaodong Cheng - cAMP signaling; involvement of PKA isoforms in cell growth and cancer; structure/function of cAMP- GEF <u>Cary Cooper</u> - parathyroid hormone-related peptide biology,	cytochemistry <u>Kenneth M. Johnson</u> – glutamate receptor pharmacology; neurodegeneration; drugs of abuse as models of schizophrenia; cocaine medication development
actions on the gut <u>Miriam Falzon</u> - parathyroid hormone related peptide biology; mechanisms of cancer proliferation and metastasis	<u>Patricia Shinnick-Gallagher</u> - mechanisms of synaptic modification in fear conditioning, epilepsy and chronic cocaine <u>Geoffrey T. Swanson</u> - kainate receptors in neurotransmission and
<u>Alan Fields</u> - protein kinase C isozyme function in colon cancer and leukemia using transgenic mouse models	synaptic plasticity; characterization of novel glutamate receptor agonists
<u>Jingwu Xie</u> - signal transduction of the hedgehog pathway and cancer cell signaling	<u>Mary L. Thomas</u> – steroid interactions with central serotonin and dopamine neurotransmission

Competitive salary and benefit packages are available. To apply, send CV, statement of research interests, and names of three references to: Faculty member(s) of interest, Department of Pharmacology and Toxicology, University of Texas Medical Branch, 301 University Blvd., Galveston, TX 77555-1031. UTMB is an equal opportunity/affirmative action employer, M/F/D/V.

Professor and Head Department of Food Science and Human Nutrition College of Agricultural, Consumer and Environmental Sciences University of Illinois at Urbana-Champaign

The Department of Food Science and Human Nutrition (FSHN) includes 28 faculty involved in teaching, research and extension, with expertise in food chemistry, food microbiology, food processing/engineering, nutrition/dietetics, hospitality management and sensory science. For more information and a detailed position description see http://w3.aces.uiuc.edu/fshn

The candidate should have an earned doctorate in food science, nutrition or closely related field. The person in this position is responsible for:

- providing leadership to the faculty and staff, establishing goals, developing policy guidelines, planning and supervising teaching and extension programs,
- · recruiting, supervising, evaluating and counseling faculty,
- administering budgetary and financial matters, including accounting, budget preparation, allocation of funds among programs and personnel, and assisting in generating outside support,
- planning and implementing programs to improve teaching and research facilities,
- maintaining liaison with industry, government, other universities, public and professional groups.

Salary is commensurate with experience and qualifications. The proposed starting date is August 21, 2001. To ensure full consideration, candidates should apply by June 1, 2001, sending a letter indicating the basis for their interest in the position, a full curriculum vitae, and the names, addresses, and phone numbers of five persons familiar with the candidate's qualifications and experience to: Dr. Bryan A. White, Search Committee, UI College of ACES, 122 Mumford Hall, 1301 W. Gregory Dr., Urbana, IL 61801 Phone: (217) 333-2091; Fax: (217) 333-8804 E-mail: b-white2@uiuc.edu

The University of Illinois is an Affirmative Action/Equal Opportunity Employer.

RADIOCHEMISTS NEEDED

Memorial Sloan-Kettering Cancer Center is seeking radiochemists to work in laboratories within the center, from post-doctoral, entry to Associate Professor faculty level. We are expanding our programs, based on the perceived value of radiotracers for molecular imaging and targeted therapy in oncology. There is a need for synthetic radiotracer and cyclotron radiochemists, as well as radiochemists with special interest in targeted therapy. Salary and Benefits are competitive. Please send most current CV and cover letter addressed to:

Steven M. Larson, M.D. Chief, Nuclear Medicine Service Director, Laurent and Albert Gerschel PET Center Head Nuclear Medicine Research Laboratory

> c/o Noila Johnson, Office of the Chairman Department of Radiology, C278 Memorial Sloan Kettering Cancer Center 1275 York Avenue New York New York 10021

> > larsons@mskcc.org 212-639-7373 212-717-3263 (FAX)

Memorial Sloan-Kettering is an equal opportunity employer



Chief, Unit on Anxiety Disorders

Mood and Anxiety Disorders Research Program National Institute of Mental Health Bethesda, MD

The Mood and Anxiety Disorders Research Program, in the Intramural Research Program of the National Institute of Mental Health, invites applications for a tenure track investigator position to establish a research unit on anxiety disorders. The candidate is expected to have demonstrated ability to develop an outstanding independent research program that focus on identifying the neurological basis of anxiety disorders and the discovery of new therapeutic approaches. The successful candidate should have a PH. D. or M. D. degree. Salary is very competitive and consistent with the level of experience the candidate. The position includes an attractive start-up package and operating budget in an exciting multidisciplinary research environment. Applicants should send a curriculum vitae, statement of research interests, and have six letters of recommendation sent by May 31, 2001 to:

Dr. David Rubinow Chair, Search Committee for Anxiety Disorders NIMH, Bldg.10, Rm. 4N-222 9000 Rockville Pike Bethesda, MD 20892

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of Mental Health

The National Institutes of Health is an equal opportunity employer

POSITIONS AVAILABLE IMMEDIATELY

The Department of Neurology at St. Luke's-Roosevelt Hospital Center, a university hospital of Columbia University College of Physicians & Surgeons, is launching a major research initiative into the biology of demyelinating diseases. The Department currently seeks applications for the following positions:

RESEARCH ASSOCIATE in Glial Biology

Seeking MD or PhD with experience in glial cell biology. Applicant will have previous experience with growth factors and stem cell differentiation. The laboratory is currently developing growth factors that will induce cell regeneration and remyelination. Candidate must have two years of postdoctoral experience. Minimum \$55,000 plus benefits.

RESEARCH ASSOCIATE in Molecular Biology/Immunology

Seeking postdoctoral scientist with experience in immunology of demyelinating diseases or related fields. Applicant will be expected to investigate the antibody response in multiple sclerosis. Candidate should have two years postdoctoral experience in molecular immunology. Minimum \$55,000 plus benefits.

RESEARCH ASSOCIATE in Pathology

Seeking an MD or PhD with experience in immunopathology or neuropathology. Applicant should be familiar with all routine pathological techniques. Previous experience with animal work or in situ hybridization preferred. Minimum \$55,000 plus benefits.

POSTDOCTORAL POSITION

Two postdoctoral positions are available in immunology and molecular biology. Applicants must have extensive experience in molecular and cell biology. Candidate will be encouraged to develop independent research project related to demyelinating disease. \$40,000 plus benefits.

All positions are funded for a two year period.

Please send CV and three letters of reference to:

Saud A. Sadiq, MD Chairman Department of Neurology St. Luke's-Roosevelt Hospital Center 425 West 59th Street, Suite 7C New York, NY 10019 e-mail: sas@asan.com

TENURE-TRACK FACULTY POSITION DEPARTMENT OF HUMAN GENETICS UNIVERSITY OF UTAH

The Department of Human Genetics at the University of Utah welcomes applications for a tenure-track faculty position for the upcoming academic year. Our faculty has made significant contributions to both human and developmental genetics in the areas of genomics, identification of disease genes, developmental genetics in model organisms, neurogenetics, and population and evolutionary biology. The Department maintains close collaborations with basic science and clinical departments within the School of Medicine.

The Department seeks to hire an individual with Ph.D. or M.D. qualifications at the Assistant Professor level who can develop an outstanding independent research program. We will expect this individual to be active in graduate level teaching. The Department will consider applicants with research interests in all aspects of human genetics, including, but not limited to: comparative genomics, proteomics, bioinformatics and computational biology, complex disease genetics, model systems of human diseases, and epigenetic mechanisms. The Department will provide the successful applicant with startup funds and research space in the new Eccles Institute of Human Genetics building.

The University of Utah is an Affirmative Action/Equal Opportunity Employer and seeks to provide equal access to its programs, services, and activities for people with disabilities. TDD accessible (801) 581-6789. Applicants are encouraged to submit materials electronically. Please include Curriculum Vitae, statement of

research interests, three references, and resume and submit to: Human Genetics Search Committee, wanda.smith@genetics.utah.edu, or mail to: Human Genetics Search Committee, ATTN: Ms. Wanda Smith, University of Utah, Department of Human Genetics, 15 North 2030 East Room 2100, Salt Lake City, Utah 84112-5330.





Faculty Position in Cellular Neuroscience/ Cellular Neurosurgery

The Department of Neurosurgery at Massachusetts General Hospital, Harvard Medical School is seeking a candidate with experience in the general area of stem cell. neuroprogenitor cell and neuroregeneration research in the central nervous system. The ideal candidate will have an interest in pursuing basic research as well as collaborations leading to potential translational neurosurgical applications. The applicant should have an M.D. or Ph.D. and a demonstrated record of peer-reviewed funding. The candidate will join the faculty at the Assistant, Associate, or Professor level. Salary and academic appointment will be commensurate with level of experience.

The laboratory of the applicant will be adjacent to other neuroscientists and researchoriented neurosurgeons with related interests. We offer a competitive start-up package and opportunities for graduate and medical student teaching. Applications from women and representatives of minority groups are encouraged.

Interested applicants should submit curriculum vitae to:

Robert L. Martuza, M.D. Chief, Department of Neurosurgery Massachusetts General Hospital 55 Fruit Street, White 502 Boston, MA 02114-2696 The Massachusetts General Hospital is an equal opportunity employer.

ACADEMICIAN

The Department of Anatomy, Cell Biology and Injury Sciences of UMDNJ- New Jersey Medical School seeks an Academician with an established research program whose interests lie in the study of control or genetic mechanisms of mammalian developmental biology and embryology. This person will also be involved in the medical and graduate student teaching programs in Gross and Developmental Anatomy.

UMDNJ offers an excellent salary & comprehensive benefits including on-site fitness center & child care.

For information contact: Dr. John H. Siegel, Chairman Department of Anatomy, Cell Biology and Injury Sciences 185 South Orange Ave., MSB Rm. G609 Newark, NJ 07103

UMDNJ is an Affirmative Action/Equal Opportunity Employer M/F/D/V, and a member of the University Health System of NJ.





Idun Pharmaceuticals, Inc. creates innovative human therapeutics with a primary focus on controlling apoptosis. We have recently expanded operations in a new state-of-the-art building and have the following positions open:

Research Scientist - Cellular Pharmacology - We are currently seeking a Ph.D. level scientist to apply their proven ability and creativity in studying the molecular and cellular mechanism of apoptosis in the discovery and characterization of small molecule drugs directed to apoptosis targets. Primary responsibilities will be to experimentally address the function of specific drug targets in different cell types and to elucidate the mechanism(s) of action of drug leads at the molecular level. Requires experience in the identification, characterization and validation of intracellular drug targets and proven ability to contribute to multiple pharmaceutical projects in a team environment. Must have demonstrated creativity and determination in taking a multifaceted experimental approach to studying cellular physiology, including FACS analysis, light microscopy (confocal, fluorescence, phase contrast), immunocytochemistry, cell microinjection, cell fractionation and molecular biological and biochemical techniques. Primary mammalian cell culture experience desirable. Typically requires Ph.D. in cell bio. or related field with a focus on intracellular signal transduction, trafficking, metabolism, cell cycle or apoptosis and 2-5 yrs. postdoc experience, industry experience preferable. Reference: CPH-082200SCI

Associate Research Scientist – Cell Biology - Will apply demonstrated skills in cell/ molecular biology to discovery and characterization of small molecule drugs directed to apoptosis targets. Requires extensive experience with methods in cell biology, including the establishment of primary cultures, production and maintenance of clonal cell lines, flow cytometry, fluorescence/ confocal microscopy, and immunocytochemistry. Must have knowledge of basic biochem. and molecular biological techniques needed for functional studies in cells such as enzyme assays, cell fractionation, Westerns, ELISA, cloning, transfection, PCR and/or Northerns. Typically requires BS/MS in Molecular/Cellular Bio. or Biochem. with 6-10 yrs. industry exp. or equivalent. Reference: CB-030601SCI

In addition to our new state-of-the-art facility which includes an on-site gym, Idun Pharmaceuticals offers an attractive compensation and benefits package including equity participation and a bonus program. To apply for a position, please send your resume with reference code to: HR Dept., 9380 Judicial Drive, San Diego, CA 92121, FAX: (858) 623-2765, or hr@idun.com.

Please see www.idun.com for additional openings and information. EOE.

Bipolar Disorder Research

Tenure Track Investigator

Mood and Anxiety Disorders Research Program National Institute of Mental Health Bethesda, MD

The Mood and Anxiety Disorder Program, in the Intramural Research Program of the National Institute Mental Health, invites applications for a tenure track investigator position to establish a research program on Bipolar Disorder. The candidate is expected to have demonstrated ability to develop an outstanding independent research program that is focused on identifying the neurobiological basis of Bipolar Disorder and the discovery of new therapeutic approaches. The successful candidate should have a PH. D. or M. D. Degree. Salary is very competitive and consistent with the level of experience of the candidate. The position includes an attractive start-up package and operating budget in an exciting multidisciplinary research environment. Applicants should send a curriculum vitae, statement of research interest, and have six letters of recommendation sent by May 31, 2001 to:

Dr. David Rubinow Chair, Search Committee for Bipolar Disorder Investigator NIMH Bldg. 10, Rm.4N-222 9000 Rockville Pike Bethesda, MD 20892



National Institute of Mental Health

The National Institutes of Health is an equal opportunity employer



Faculty Position Department of Biochemistry and Molecular Biology

Medical College of Ohio

Applications are invited for a tenure-track faculty position at the Assistant or Associate Professor level. This appointment is part of a continuing expansion of the department. Candidates working in all areas of biochemistry, genetics, molecular biology or cell biology will be considered. Applications are particularly encouraged from individuals using genetic and molecular approaches to study cell growth or differentiation, mechanisms of signal transduction, regulation of gene expression, protein structure/function, control of the cell cycle and apoptosis. Excellent research facilities and start-up funds are available. Requirements include a Ph.D. or M.D. with postdoctoral experience and demonstrated research accomplishments. The successful candidate will be expected to establish a vigorous externally funded research program and participate in the teaching of medical and graduate students. Candidates at the Associate Professor level should have current grant support Applicants should submit a curriculum vitae, description of research plans, selected publications and names and addresses of three references to:

William A. Maltese, Ph.D. Chairman, Department of Biochemistry and Molecular Biology Medical College of Ohio 3035 Arlington Ave. Toledo, OH 43614-5804 EO/AA employer, M/F/D/V

Cornell University Department of Molecular Biology and Genetics

The newly formed Department of Molecular Biology and Genetics at Cornell University in Ithaca, NY (http://www.mbg.cornell.edu/) intends to hire two new faculty members into the positions described below. The Department, formed by a merger of the previous Section of Biochemistry, Molecular & Cell Biology and the Section of Genetics and Development, comprises a very wide variety of disciplines, ranging from molecular biophysics to population genetics. Ithaca and Cornell provide a pastoral yet exciting college town environment that is nurturing and productive for scientific and personal development. The positions are for:

1) An established scientist of clear distinction to enrich the intellectual offerings of the department and to provide distinct and visible leadership in the future. Both the precise discipline and the level of the appointment are unspecified, although the eminence sought likely requires a senior appointment. The position, available immediately, will be generously supported by university resources, and will provide an opportunity to join and influence Cornell at a time of rapid campus-wide growth and restructuring of biological sciences. Besides the current rapid expansion of resources and personnel in such areas as mammalian molecular genetics, development, computational biology, and neurobiology, the very strong university resources in computing, bioengineering, and macromolecular crystallography should provide important advantages to many research programs. An interested candidate could apply to the Search Committee, or make an informal personal inquiry to a member of the Department.

2) **Professor of Genetics**, level open, position to commence in the Spring 2002. In the case of a junior appointment, the successful candidate will be expected to establish a vigorous externally funded research program that either focuses in an important area of modern Genetics or Genomics, or that uses genetic approaches to study other biological questions. A successful established scientist appointed with tenure will bring such a program to the Department. In either case, our new colleague will be expected to make a significant contribution to the Genetics curriculum. Applications should include a curriculum vitae, reprints of recent publications and a brief statement of present and future research interests. Applicants at the Assistant Professor level should solicit three letters of recommendation to be sent to the search committee.

Search Committee, Department of Molecular Biology and Genetics, Biotechnology Building, Cornell University, Ithaca, NY 14853-2703. Applications for both positions will be reviewed as they are received. We strongly encourage applications from women and members of underrepresented minority groups.



Cornell University is an Affirmative Action/Equal Opportunity Employer and Educator

http://www.cornell.edu http://chronicle.com/jobs/profiles/002711.htm


FACULTY POSITIONS VASCULAR BIOLOGY CENTER

Applications are invited from highly qualified individuals with a Ph.D. and/or M.D. degree in a biomedical science for two tenure-track positions at the level of ASSISTANT or ASSOCIATE PROFES-SOR in the Vascular Biology Center of the Medical College of Georgia. The Vascular Biology Center (website: http://www.mcg.edu/centers/VBC/ index.html) is a unit of the School of Medicine consisting of 10 full-time faculty members with active, funded interests in the areas of nitric oxide, endothelin, renin angiotensin systems, and growth factors. The successful applicants will establish an active, extramurally funded research program that will complement the current interests of the Center faculty and/or expand into new areas of research in vascular biology. The applicant will also participate in teaching of medical, graduate, and/or allied health students and in the training of Postdoctoral Fellows. Excellent opportunities exist for collaborations with other interdisciplinary groups on campus including the Georgia Prevention Institute and the Sickle Cell Center, as well as faculty in basic and clinical science departments. Competitive salaries, excellent start-up funds, and newly renovated laboratory space will be provided. Applications including curriculum vitae; statement of research interests; and names, addresses and telephone numbers of three references should be sent to: Chair of the Search Committee, Dr. Leslie C. Fuchs, Associate Professor, Vascular Biology Center, Medical College of Georgia, Augusta, GA 30912-2500. Telephone: 706-721-9800; FAX: 706-721-9799; e-mail: Ifuchs@mail.mcg.edu. The deadline for receipt of applications is April 13, 2001. The Medical College of Georgia is an Equal Opportunity Employer/Affirmative Action Employer. Applications from women and underrepresented minorities are particularly encouraged.

MOLECULAR, CELLULAR, OR DEVELOPMENTAL BIOLOGIST

The Department of Biological Sciences at Northern Illinois University seeks to hire a tenure-track ASSIST-ANT PROFESSOR using the tools of molecular genetics to address fundamental questions in biology. A Ph.D. in biology and postdoctoral research experience are required. Preference will be given to individuals using a eukaryotic model system such as Arabidopsis, yeast, C. elegans, Drosophila, or zebrafish. The successful candidate will be expected to contribute to the Department's biotechnology/bioinformatics program; to establish a strong, externally funded research program; supervise M.S. and Ph.D. students; and contribute to departmental teaching at the undergraduate and graduate levels. Send letter of interest, curriculum vitae, brief statement of research and teaching goals, and three letters of reference to: Dr. Michael Parrish, Chair, Department of Biological Sciences, Northern Illinois University, DeKalb, IL 60115-2861. Website: http://www.bios. niu.edu; Telephone: 815-753-1753; FAX: 815-753-0461; e-mail: biosjobs@niu.edu. The position will remain open until filled, but we will begin reviewing applications on May 1, 2001. Northern Illinois University is an Affirmative Action/Equal Employment Opportunity Institution.

Applications are invited for a tenure-track position in pharmacology at the ASSISTANT/ASOCIATE PROFESSOR level. Position requires a D.V.M., Ph.D., or Ph.D. in pharmacology. Postdoctoral experience is preferred. Successful candidate is expected to teach pharmacology to veterinary/graduate students and develop independent research program. Send curriculum vitae and names of three references to: Dr. Ramesh Dalvi, Department of Biomedical Sciences, CVMNAH, Tuskegee University, Tuskegee, AL 36088.

POSITIONS OPEN

DEVELOPMENTAL OR CELL BIOLOGIST

The Department of Biological Sciences invites applications for a tenure-track faculty position at the ASSISTANT PROFESSOR level effective September 1, 2001. Applicants should have a strong back-ground in developmental or cellular biology (Ph.D., some postdoctoral experience, and a record of quality research). Individuals using genetic or molecular approaches to analyze an important problem in developmental or cellular biology are particularly encouraged to apply. The successful candidate will be expect-ed to establish an active, externally funded research program and to participate in teaching at the undergraduate and graduate levels. Potential applicants are invited to visit the Departmental website: www.ucalgary.ca/UofC/faculties/SC/BI/. Calgary is a dynamic Canadian city (population 800,000) with a lively cultural life and many recreational opportunities. It is located only an hour from the Rocky Mountains and 80 minutes from Banff.

A complete application should include curriculum vitae with e-mail address, a concise outline of research plans including copies of up to five publications, and a statement of teaching interests and philosophy. Candidates should arrange to have three letters of reference sent under separate cover. The deadline for receipt of a complete application package is April 30, 2001. Send to: Dr. D. M. Reid, Head, Department of Biological Sciences, University of Calgary, 2500 University Drive N.W., Calgary, Alberta T2N IN4 Canada. FAX: 403-289-9311; e-mail: dmreid@ucalgary.ca.

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens or permanent residents of Canada. The University of Calgary respects, appreciates, and encourages diversity.

ENVIRONMENTAL POLICY POSITION Carl Vinson Institute of Government The University of Georgia

The Carl Vinson Institute of Government at The University of Georgia invites applications and nominations for an environmental policy faculty position within the Environmental Policy Program, Applied Research Division, at the Vinson Institute. The position will be available July 1, 2001, but will not be filled until and/or unless a qualified person is identified. Salary competitive; year-round contract. Ph.D. required in environmental policy, environmental science, or related field (formal training in both environmental science and public policy desired); knowledge and experience in environmental policy at the state and/or local government level preferred. For a complete job description, please e-mail: edavis@ cviog.uga.edu. Nominations and applications should include curriculum vitae and a list of references and should be sent by April 9, 2001, to: Emily Davis, Administrative Assistant, Office of the Director, Carl Vinson Institute of Government, The University of Georgia, 201 North Milledge Avenue, Athens, GA 30602-5482. The University of Georgia is an Equal Opportunity/Affirmative Action Institution.

Luther College invites applications for a three-year appointment in biology (emphasis on developmen-tal/cell biology) at ASSISTANT PROFESSOR rank beginning late August 2001. Doctorate strongly preferred. Postdoctoral and/or teaching experience desirable. Teaching responsibilities for 2001–2002 include developmental and/or cell biology and participation in a team-taught principles of biology course. We seek candidates with enthusiasm for undergraduate teaching and research within a selective Lutheran liberal arts college community. Applicants are encouraged to visit the departmental website: www.luther.edu/~biodept. Review of applications will begin May 1, 2001. Send letter of application, curriculum vitae, the names of three persons as references, and transcripts of undergraduate and graduate studies to: Dr. Marian Kaehler, Head, Department of Biology, Luther College, Decorah, IA 52101. FAX: 319-387-1080; e-mail: kaehlerm@luther.edu. An Equal Employment Opportunity Employer; women and members of ethnic minority groups are encouraged to apply.

POSITIONS OPEN



ASSISTANT PROFESSOR Pharmaceutical Sciences (Pharmacology)

The Western University of Health Sciences College of Pharmacy invives applications for a tenure-track faculty position in pharmacology at the rank of Assistant Professor. Candidates should possess a Doctorallevel degree in pharmacology. The candidate will participate in teaching by integrating concepts of phar-macology into the Pharm.D. curriculum. The College is committed to excellence in teaching, and teaching experience/interest in cancer and/or endocrine pharmacology is desirable. Preference will be given to those individuals with a pharmacy background and postdoctoral experience. The successful candidate will be expected to establish an extramurally funded research program in any area of pharmacology. Salary is negotiable and commensurate with qualifications and experience. Applicants should submit a letter of interest describing teaching and research activities/goals, curriculum vitae, and the names and contact information of three references. Review of application materials will continue until the position is filled. Completed applications (electronic submission encouraged) should be sent to:

Dion Brocks, Ph.D., Chair, Search Committee Western University of Health Sciences College of Pharmacy College Plaza, 309 East Second Street Pomona, CA 91766-1854 Telephone: 909-469-5597 FAX: 909-469-5539 E-mail: dbrocks@westernu.edu

Western University of Health Sciences is an Affirmative Action/Equal Opportunity Employer and actively seeks applications from women and minorities.

INVESTIGATOR, ENZYMOLOGY

GlaxoSmithKline, an international producer of pharmaccuticals and consumer health care products, is seeking an individual with a background in enzymological and biochemical antibacterial research to serve as Investigator at its research and development facility in Collegeville, Pennsylvania. Principal duties include conceiving, planning, initiating, and directing enzymological and biochemical antibacterial research, particularly in the area of bacterial fatty acid biosynthesis and nucleotide phosphorylation with the aim of determining the kinetic mechanisms of component enzymes and identifying novel compounds that inhibit bacterial targets.

Minimum requirements are a Ph.D. in biochemistry or microbiology and three years of experience in the job offered or three years of experience in biochemical and enzymological research, which shall include experience in (1) analyzing kinetic and catalytic mechanisms using steady-state and presteady-state kinetic techniques and inhibition studies; (2) using rapid-quenche and stopped-flow techniques and spectroscopic techniques including NMR and CD spectroscopy; (3) preparing enzymatic assays employing fluo-rescence, luminescence, and radio-labelled assay formats; (4) characterizing proteins, protein-ligand, and protein-protein interactions using biochemical methods and techniques including gel electrophore-sis, FPLC and HPLC chromatography, and UV/Vis and fluorescence spectroscopy techniques; and (5) analyzing protein structure/function relationships using mutagenesis and computer modeling software programs such as GCG, InsightII, and Quanta.

GlaxoSmithKline offers a competitive compensation/benefits package. For confidential consideration, please forward your résumé and salary requirements to: GlaxoSmithKline Pharmaceuticals, Attention JO-IE, Mail Code UP1345, 1250 South Collegeville Road, Collegeville, PA 19426-0989. We are an Equal Opportunity Employer; Minority/Female/ Disabled/Veteran.

2470

Team up with IDEC!

IDEC Pharmaceuticals Corporation is a leader in the development of manaclanal antibodies and other biologics for therapeutic application to cancer and autoimmune disorders. We pride ourselves on the excellence of our team members and invite you to join us. We currently seek a scientist to strategically lead IDEC's gene discovery efforts.

ASSOCIATE DIRECTOR

Use your proven track record in novel gene discovery and drug development as you lead current internal efforts and external collaborations to find novel gene targets in cancer. You will collaborate with the Cell Biology group for target validation and propose new strategic directions for drug development, feasibility studies, and in-licensing opportunities. You will be expected to keep abreast of medical needs and be capable of leading target searches in other sources besides tumors that have strategic value.

The ideal candidate will have a PhD in a scientific discipline or equivalent combination of education and experience and at least 8 years relevant postdoctoral experience, including research and scientific management experience in novel gene isolation and drug development, Excellent managerial, communication and technical skills and a broad knowledge of molecular biology, cell biology, and immunology are needed.

At IDEC Pharmaceuticals, you will find a highly stimulating environment where you will have the opportunity to develop and expand your skills. We offer a comprehensive, competitive benefits package. For immediate consideration, please send your resume and salary history to IDEC Pharmaceuticals Corporation, Attn: HR, Job Code 60447, 3030 Collan Rd., San Diego, CA 92121. Fax to (858) 505-0445. Email to hr info@idecpharm.com. EOE. NASDAQ/IDPH.

> For more information on this position, please visit our website at

www.idecpharm.com.



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BAXTER HEMOGLOBIN THERAPEUTICS a part of the Hyland Immuno Division of Baxter Healthcare Corporation, is passionate about success - for the patients who depend upon our outstanding therapies, and for our dedicated professionals who make it all possible. We accomplish both by allowing the most talented, ambitious individuals in every area to pursue their dreams with a highly supportive atmosphere fostering creativity and personal empowerment. As they realize their objectives, we recognize and reward them accordingly. Their professional growth mirrors our growth as a corporation, which enables financial stability and furthers coreer advancement. If you're passionate about your work, spend your career with others who feel the same.

Sr. Research Associate

Conduct stability studies on protein pharmaceuticals, including formulation development and analytical method development & validation. A Ph.D. in Biochemistry with a minimum of 2 years experience in conducting stability studies of proteins is required. Technical expertise should include analytical and protein characterization methods. Knowledge of GMP/GLP is a plus. Postdoctoral experience and/or additional relevant work experience is also a plus.

Sr. Research Scientist

Manage the Protein Core Facility at our Boulder site by providing scientific expertise and research results to assist in the protein characterization of recombinant proteins developed and manufactured in conjunction with Baxter projects. Protein characterization includes all types of analytical methods that might be used to determine the chemical nature of the proteins under evaluation. Overseeing the maintenance of equipment in the facility, including mass spectrometers, HPLC, protein sequencer, and amino acid analyzers, and supervising the personnel are a must. A demonstrated knowledge and experience in protein characterization, personne management and strong written and verbal communication skills are required. Creative problem solving and interpretation of scientific results are expected. Leadership skills and familiarity with biopharmaceuti-cal development and GMP systems are

highly desired.

As a global leader dedicated to unprecedented success - for every patient and every professional - Baxter offers competitive compensation and full benefits. For consideration, please send your resume to: BAXTER HEMÓGLOBIN THERAPEUTICS, 2545 Central Ave., Ste. FD-1, Boulder, CO 80301. Fax: 303-541-3260. E-mail: jill_farson@baxter.com Baster is committed to a diverse workforce. EOE M/F/D/V

Baxter

To learn more about Baxter, or to apply online, visit us at: www.baxter.com



ASSISTANT PROFESSOR (POSTDOCTORAL POSITION) Department of Biology Ball State University Muncie, Indiana

The Department of Biology at Ball State University invites applications for a full-time, 12-month Instructor/Coordinator position in a new biotechnology program anticipated to commence fall 2001. This program will involve the training of undergraduate and graduate students in modern methodology through intensive laboratory and lecture courses. The successful candidate will take an active role in building this program by providing instruction, aiding in the design of laboratory exercises, providing support to faculty, maintaining contacts with industry, establishing internships, ordering needed supplies and equipment, and overseeing graduate teaching assistants.

Minimum qualifications: earned Doctorate in a biological science and effective written and oral communication skills. Preferred qualification: demonstrated teaching ability and competency in current approaches used in the areas of cell and molecular biology (experience in recombinant DNA and RNA techniques, PCR technology, protein isolation and analysis, cell culture, and bioinformatics).

This position can begin as soon as June 1, 2001, and starting salary including benefits will be commensurate with experience. Send letter of application, curriculum vitae, documentation of scholarly activity, and three letters of reference to: Chair of Biotechnology Search Committee, Department of Biology, Ball State University, Muncie, IN 47306. FAX: 765-285-8804; e-mail: evann@bsu.edu; website: www.bsu.edu. Deadline for applications is April 6, 2001.

Ball State University is an Equal Opportunity/Affirmative Action Employer and is strongly and actively committed to diversity within its community.

FACULTY ANATOMY

The Department of Anatomy of the University of Puerto Rico School of Medicine seeks to fill one or two of the following positions depending on availability of funds: (1) ASSISTANT PROFESSOR, tenure track; teaching responsibility in gross anatomy for dental or medical students; (2) ASSISTANT PRO-FESSOR, tenure track; teaching responsibility in neuroscience for dental students; (3) TENURE TRACK or contract, depending on qualifications, to teach gross anatomy and neuroscience to dental students. All applicants should have a Ph.D. Successful applicants for the first two positions will be expected to develop and conduct productive research programs with high potential for attracting external funding support. Area of research interest is open. Teaching can be in either English or Spanish. Appointments for Positions One and Three would begin July 1, 2001; Two would begin November 1, 2001. Review of applications will begin immediately and continue until the positions are filled. Send curriculum vitae, statement of research plans, and names of three references to: Dr. John G. H. Cant, Director, Department of Anatomy, School of Medicine, University of Puerto Rico, GPO Box 365067, San Juan, PR 00936-5067. Telephone: 787-751-0710; FAX: 787-767 0788. For inquiries but not for applications, e-mail: jcant@rcm.upr.edu. The University of Puerto Rico is an Equal Opportunity/Affirmative Action Employer.

BIOLOGY: Full-time position; August 2001. A.B.D./Ph.D. required. Emphases/teaching areas: human anatomy, physiology, histology, toxicology. College teaching experience required. Graduate admission rate in health professions over 90%. Strong nursing and athletic training programs. Full information at website: www.cmc.edu. Send letter; résumé; and names, addresses, and telephone numbers for five references to: Dr. Dan Elliott, Central Methodist College, Fayette, MO 65248. FAX: 660-248-1634; e-mail: delliott@cmc.edu. Equal Opportunity Employer.

RESEARCH ASSISTANT PROFESSOR The University of North Carolina at Chapel Hill Department of Anesthesiology

UNCCH Department of Anesthesiology is offering a Research Assistant Professor faculty position. Applicants should have a Ph.D. and/or M.D. equivalent. Postdoctoral training is desirable (not required). Qualified person will work with senior Investigators on molecular mechanism of cardioprotection produced by preconditioning and various anesthetic agents in both in vitro and in vivo models of myocardial ischemia/reperfusion injury. In addition, qualified candidate will be involved in designing and performing experiments, analyzing and writing manuscripts, and applying for AHA and NIH research grants. This position will also involve supervising graduate students, residents, Fellows, and technicians in the laboratory. The Department has a full-time faculty of 38 Anesthesiologists and provides a complete spectrum of anesthesiology, surgical services, and research. Fringe benefits including vacation and meeting time are liberal. Applicants should send curriculum vitae and a short statement of research goals to: Philip G. Boysen, M.D., Professor and Chair, Department of Anesthesiology, CB Number 7010, 223 Burnett-Womack, University of North Carolina at Chapel Hill, Chapel Hill, NC 27599-7010. UNCCH is an Equal Opportunity Employer/Americans With Disabilities Act Employer. Women and minorities are encouraged to voluntarily identify themselves.

ASSISTANT PROFESSOR/ASSOCI-ATE PROFESSOR. The Hormel Institute, a biomedical research center of the University of Minneso ta, invites applications for a faculty appointment at the level of Assistant or Associate Professor. Qualifications: Candidates must demonstrate the ability to establish an independent, extramurally funded research program of biomedical relevance that will complement ongoing programs. Preference will be given to applicants with a strong background in molecular/ cell biology and a successful research record in one of the following areas: signal transduction, gene expression, functional genomics, molecular carcinogenesis, chemoprevention, or the regulation of membranedependent cellular processes. A Ph.D. (or equivalent) degree and two to three years of postdoctoral experience are required. Individuals with additional research experience and with excellent organizational, supervisory, and communication skills are desired. Please submit curriculum vitae, a research plan, and the names of three references no later than May 15, 2001 (or until the position is filled), to: Dr. Zigang Dong, The Hormel Institute, 801 16th Avenue N.E., Austin, MN 55912. E-mail: ZigangDong@ smig.net. The University of Minnesota is committed to the policy that all persons shall have Equal Access to its programs, facilities, and employment without regard to race, color, creed, religion, national origin, sex, age, marital status, disability, public assistance, status, veteran status, or sexual orientation.

NEUROSCIENCE RESEARCH POSITIONS

The Parkinson's Institute is an internationally recognized nonprofit research organization aimed at finding the cause and cure of Parkinson's disease and other movement disorders. The Institute is expanding and two positions are currently available at the AS-SISTANT/ASSOCIATE PROFESSOR level. Qualified applicants are expected to develop a solid, independently funded research program with a particular emphasis on molecular aspects of neurodegenerative processes. Positions will include competitive salary and benefits; start-up packages; and access to the Institute's core facilities (e.g., tissue culture, histolo-gy, and patient's tissue bank). Applicants should sub-mit curriculum vitae, a statement of research interest and plans, and the names and telephone numbers of three references to: Dr. Donato A. Di Monte, Director of Basic Research, The Parkinson's Insti-tute, 1170 Morse Avenue, Sunnyvale, CA 94089 U.S.A. E-mail: ddimonte@parkinsonsinstitute. org

POSITIONS OPEN

PROTEIN BIOLOGY/PROTEOMICS

The Department of Botany at the University of Toronto invites applications for a tenure-track faculty position at the ASSISTANT PROFESSOR level in the areas of protein biology/proteomics. Areas for recruitment include but are not restricted to protein structure/function, protein-protein interaction, protein-DNA interactions, protein design and evolution, and bioinfomatics. Candidates from all fields who have an interest in plant or microbial biology will be considered. The successful candidate will be expected to participate in undergraduate and graduate teaching of plant biochemistry and to interact with faculty members across campus working in proteomics, genomics, and bioinfomatics. Applicants should arrange to have four reference letters sent directly to the address below. In addition, applicants should forward curriculum vitae; copies of significant publications; and statements of research and teaching interests to: Chair, Protein Biology Search Committee, De-partment of Botany, University of Toronto, 25 Willcocks Street, Toronto, Ontario M5S 3B2 Canada before May 1, 2001. The University of Toronto is strongly committed to diversity within its community. The University especially welcomes applications from visible minority group members, women, aboriginal persons, persons with disabilities, and others who may contribute to further diversification of ideas.

TENURE-TRACK FACULTY POSITIONS Immunology

The newly created Division of Immunology at the University of Connecticut Health Center seeks highly qualified Researchers at the ASSISTANT/ASSO-CIATE PROFESSOR levels. This recruitment is part of an ongoing strategic plan that includes intiatives in immunotherapy, microbial pathogenesis, genetics and developmental biology, and neuroscience. Although all areas of immunology will be considered, of particular interest are Scientists using molecular and cellular approaches to study immune response to infection or immune system development. Salary and start-up funds are highly competitive. Outstanding core facilities include flow cytometry, transgenics, imaging, molecular biology, and mass spectroscopy. Applicants must have a Ph.D. and/or an M.D. and a quality publication record. For the Associate Professor level, applicants should have a record of substantial productivity and extramural funding. Please submit curriculum vitae, two-page summary of research interests, and the names of three references to: Leo Lefrançois, Ph.D., Chief, Division of Immunology, Department of Medicine MC1319, University of Connecticut Health Center, 263 Farmington Avenue, Farmington, CT 06030-1319. E-mail: llefranc@neuron.uchc.edu. For further information on UCHC, please visit website: www.uchc.edu.

ASSOCIATE IN SCIENCE INSTRUCTION Environmental Science

The Program in Environmental Studies at Middlebury College is accepting applications for a three-year position as an ASSOCIATE IN SCIENCE IN-STRUCTION in environmental science to begin July 16, 2001. The position involves developing and teaching laboratory/field exercises for the laboratory portion of an introductory environmental science course offered in both fall and spring semesters. Emphasis is on investigative, interdisciplinary laboratory/ field experiences. We seek candidates with a strong background in the natural sciences, experience in teaching environmental science with an interdisciplinary perspective, and a Ph.D. or extensive teaching experience in laboratory settings. Applicants should submit a letter of application; curriculum vitae; statement of teaching interest; transcripts; and three letters of recommendation by April 16, 2001, to: Chair, Environmental Science Search Committee, Program in Environmental Studies, Farrell House, Middlebury College, Middlebury, VT 05753. Middlebury College is an Equal Opportunity Employer, and it encourages applications from women and members of minority oroups



TheraSense, a privately held pre-IPO medical device company with an FDA cleared and launched product, is located in the San Francisco Bay area. We specialize in the field of diagnostics for diabetes care. Check our web site for additional information; www.therasense.com.

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TheraSense Inc. has immediate exciting career opportunities for senior level scientists to develop novel electrochemical diagnostic products.

Requires an advanced degree in Chemistry/Biochemistry in the related discipline (below) or a Bachelors degree with significant pertinent product development experience in any of the following areas:

Materials Science

- Electrochemistry
- Analytical Chemistry Implanted Medical Devices
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Postdoctoral Position Integrative Medicine Service Memorial Sloan-Kettering Cancer Center

Collaborate with Senior Research Staff to design, plan, and implement experiments to study the anticancer effects of botanicals in a well established program with trials currently underway. Responsibilities will include ongoing interactions with clinical groups and research labs, conducting in vitro and ex vivo cytotoxicity studies using botanicals and chemotherapy agents, as well as immune cells harvested from animals treated with botanicals to treat cultured cancer cells. You will also perform in vitro metabolism studies using liver microsome assays, evaluate and measure tumor responses to treatment.

This position requires an MD or MD/PhD with an interest in botanicals. One position requires experience working with animals.

Please forward your resume and salary to Dr. Barrie Cassileth, Chief, Integrative Medicine Service, Department of Medicine, MSKCC, 1275 York Avenue, Room H1315, New York, NY 10021, or email to: cassileth@mskcc.org. EOE/AA



Let Our Products Become Your Tools

Join ATCC's Expanding Bioinformatics Team!

The American Type Culture Collection, a global bioresource center, located just outside Washington, D.C., has several open positions in its rapidly expanding Bioinformatics Program. Take advantage of our huge gene pool encompassed in the world's most diverse culture collection to pursue post-genomic bioinformatics research. Our research staff and on-site collaborators at the School of Computational Sciences, George Mason University, provide an extremely rich environment for development of new computational tools and techniques. Qualified applicants are invited to apply for the following positions:

- **Director, Bioinformatics—Job # BIF014** Ph.D. in biological sciences or equivalent and training in computational biology; five years experience in bioinformatics research with well developed program and hands-on management of a biological computing staff; strong managerial, interpersonal, and communication skills required.
- **Research Scientist**—**Job** # **BIFOO3** Ph.D. in the natural sciences or equivalent and training in computational biology/bioinformatics; four years research experience with demonstrated skills in computational biology/bioinformatics required. Must be able to work independently and proficiently with technical information and software tools; good interpersonal skills and ability to lead a group and interact with key scientific staff; excellent verbal and written communication skills essential.
- **Programmer/Analysts—Job # BIFO17** BS degree in computer science/information science or equivalent and coursework in the natural sciences with three years hands-on experience in the following programming languages: HTML/XML, Java, C, C++, PERL; must have knowledge of relational database management systems and/ or object-oriented database management systems; expertise in UNIX and Windows operating systems; experience in biological computing/bioinformatics highly desirable; excellent interpersonal skills.

ATCC offers exceptional benefits and an opportunity to work in a state-of-the-art facility with unique core resources. Qualified candidates must reference the job number and submit a CV with salary history to: ATCC, Attn: HR, 10801 University Boulevard, Manassas, VA 20110; Fax 703-365-2735; or e-mail: employment@atcc.org Visit our Web site at www.atcc.org

EOE M/F/D/V



FACULTY POSITION Basic Research in Infectious Diseases

The Division of Infectious Diseases of the Children's Hospital, Boston, announces a search for a faculty member to join a vigorous and expanding division. Candidates may be new or established IN-VESTIGATORS (M.D. or Ph.D.) with a research interest broadly related to microbial pathogenesis or host response. Investigators with expertise in the cell biology of infection are particularly encouraged to apply. Areas of research within the Division include molecular pathogenesis of viral, bacterial, mycobacterial, and fungal infections as well as clinical research on HIV and medical decision making. There are ample opportunities for collaboration with Investigators within the Division and in the Harvard medical community. The successful applicant will hold a faculty appointment at Harvard Medical School. Please respond with a description of research and goals, curriculum vitae, and contact information for three references to: Michael Wessels, M.D., Chief, Division of Infectious Diseases, Children's Hospital, Enders 609, 300 Longwood Avenue, Boston, MA 02115. E-mail: michael.wessels@tch.harvard.edu. Children's Hospital and Harvard Medical School are Equal Opportunity Employers; women and minority candidates are encouraged to apply.

RESEARCH ASSISTANT PROFESSOR POSITION

The Division of Pulmonary and Critical Care Medicine at the University of Cincinnati has an immediate opening for a position at the Research Assistant Professor level. We are developing an integrated, multidisciplinary, and interactive program in pulmonary innate immunity that will examine lung/pathogen interactions from the perspective of both the host and the microbe. We seek a colleague with expertise in microbial physiology or genetic responses to innate immune cells and antimicrobial proteins. Candidates should have a Ph.D. or an M.D. degree, at least two years of postdoctoral experience, and be fluent in written and spoken English. Please contact: Dr. Frank McCormack, University of Cincinnati, P.O. Box 670564, Cincinnati, OH 45267-0564. Telephone: 513-558-4831; e-mail: frank.mccormack@ uc.edu

POSTDOCTORAL POSITIONS: immunology. Positions available to highly motivated individuals interested in studying T cell immune responses, memory, and development in vivo using genetic manipulation and other techniques. Specific areas of interest include cytokine and chemokine control of antimicrobial responses and memory, tissue-specific homing, γC cytokine regulation of T cell development, and tolerance and autoimmunity in the intestinal mucosa. Ph.D. and/or M.D. and experience and publications in relevant areas are required. Submit curriculum vitae and names of three references to: Leo Lefrançois, Ph.D., Chief, Division of Immunology, MC1319, University of Connecticut Health Center, 263 Farmington Avenue, Farmington, CT 06030-1319. E-mail: llefranc@neuron.uchc.edu. For further information on UCHC, visit: website www. uchc.edu.

The Renal-Electrolyte Division of the University of Pittsburgh has immediate openings for Physician-Scientists seeking tenure-track appointments at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level. Applicants with interests in cell or developmental biology, cell signaling, epithelial physiology, genetics, or transplant immunology are encouraged to apply. Academic appointment and salary are dependent upon qualifications and experience. Applicants should be Board certified/Board eligible in nephrology. Please send curriculum vitae and three letters of reference to: Thomas Kleyman, M.D., Professor and Chief, Renal-Electrolyte Division, University of Pittsburgh, A919 Scaife Hall, 3550 Terrace Street, Pittsburgh, PA 15213. The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

FACULTY POSITION IN ANATOMY

The Department of Anatomy at Philadelphia College of Osteopathic Medicine invites applications for a tenure-track position at the level of ASSISTANT PROFESSOR. Candidates should demonstrate a sound knowledge of gross anatomy and histology and a strong commitment to teaching. Participation in medical and graduate school courses as well as other departmental programs will be required. Candidates are expected to establish and maintain an active research program in which graduate and medical students can participate. A Ph.D. is required along with prior teaching experience. Postdoctoral research is recommended. Salary and benefits are competitive and commensurate with experience. Please submit your curriculum vitae and three names and addresses of individuals for potential letters of reference to: Tage N. Kvist, Ph.D., Department of Anatomy, Philadelphia College of Osteopathic Medicine, 4170 City Avenue, Philadelphia, PA 19131-1693. FAX: 215-871-6540.

Starting date can be as early as July 1, 2001. PCOM is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION

The Department of Microbiology and Immunology of the University of California, San Francisco, School of Medicine is seeking outstanding candidates to fill a tenure-track position in the area of microbial pathogenesis at the level of ASSISTANT PROFES-**SOR**. In addition to departmental affiliation, the position includes membership in the Program in Biolog-ical Sciences and/or the Biomedical Sciences Program, the excellent campuswide graduate programs. The search will consider candidates with demonstrated creativity and research productivity in microbial pathogenesis. Interested candidates should send curriculum vitae; a statement of future research plans; and names of three references by April 15, 2001, to: Search Committee, c/o Patti O'Leary, Department of Microbiology and Immunology, Box 0414, University of California, San Francisco, San Francisco, CA 94143-0414. E-mail: poleary@ itsa.ucsf.edu. UC is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

The U.S. Army Engineer Research and Development Center, Environmental Laboratory, is seeking applicants for SUPERVISORY POSITIONS in the areas of environmental processes and risk assessment. The incumbent is responsible for directing, developing, planning, and executing a broad program of multidisciplinary environmental research relative to Corps of Engineers civil works and military projects. Work is conducted in order to understand, predict and, to the degree possible, control changes in the environment attributable to all types of civil and military activities. Technical areas of responsibility include water quality processes, chemical control of vegetation, geochemical processes, microbiology, toxicology, and effects of contaminants on aquatic and terrestrial organisms. Candidates may send résumé to e-mail: Pamela.K.Corulla@erdc.usace.army.mil or contact: Ms. Corulla; Telephone: 601-634-3861. The Engineer Research and Development Center is an Equal Opportunity Employer. Applicants must be U.S. citizens.

The George Washington University invites applications for a tenure-track **ASSISTANT PROFESSOR** position in hominid paleobiology in the Department of Anthropology. He/she must have been awarded a Ph.D. and have a research reputation in human evolutionary studies, preferably focusing on either functional analysis or on the evolution of human growth and development. Applicants should send curriculum vitae, a 1,000-word summary statement of their research agenda, and the names of three references to: **Bernard Wood, Department of Anthropology, 2110 G Street, N.W., Washington, DC 20052**. Review will begin April 20, 2001, and continue until the position is filled. Salary will be commensurate with experience. *The George Washington University is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

ANATOMIC VETERINARY PATHOLO-GIST. The Department of Veterinary Pathobiology, College of Veterinary Medicine, at the University of Missouri–Columbia seeks an ACVP-cetified or ACVP-eligible Anatomic Pathologist for a tenuretrack position at the ASSISTANT or ASSOCIATE PROFESSOR level in the Veterinary Medical Diagnostic Laboratory. Academic rank, salary, and tenure status will be commensurate with experience, qualifications, and career aspirations.

Candidates must have a D.V.M. or equivalent, Board certification or eligibility in anatomic pathology, and a commitment to the threefold academic missions of service, research, and teaching. Preference will be given to candidates with a Ph.D. and ACVP certification. The successful applicant will join five other Anatomic Pathologists in an AAVLDaccredited laboratory.

Selection criteria are the following: experience and certification, communication skills, ability to interact with clients and collaborators, demonstrated or potential research capabilities, and potential to complement existing faculty research expertise. Departmental strengths include infectious disease, neoplastic discase, diagnostic medicine and laboratory animal medicine/pathology. The deadline for application is June 1, 2001, or until a suitable candidate is found.

Interested persons should send curriculum vitae, letter summarizing career aspirations, and names of three references to: Dr. Gayle Johnson, Veterinary Medical Diagnostic Laboratory, University of Missouri, P.O. Box 6023, Columbia, MO 65205. Nominations may also be submitted to: Dr. Johnson by letter, by Telephone: 573-882-6811 or by email: johnsongc@missouri.edu. The University of Missouri is an Equal Opportunity/Affinative Action Employer. To request ADA accommodations, please contact our ADA coordinator at Telephone: 573-884-7278; e-mail: hensonl@missouri.edu.

LABORATORY DIRECTOR

Positions are available at the Guthrie Research Institute for creative, productive, and independent Scientists to establish research laboratories. We are particularly interested in candidates addressing significant questions in signal transduction at the molecu-lar/cellular level. Positions are available at levels equivalent to the ASSISTANT/ASSOCIATE PROFESSOR rank. The Guthrie Research Institute is a private, nonprofit organization associated with a large regional health care system. The Institute offers a dynamic, collegial, and productive research environment in the rural setting of the Endless Mountains of northern Pennsylvania. There are no teaching responsibilities or traffic jams. The Institute will provide a competitive salary, excellent facilities, and strong commitment to your success. Additional information regarding the Guthrie Research Institute may be obtained at website: www.guthrie.org/research. Applicants with a Doctoral degree and postdoctoral experience should send a statement of research interests, curriculum vitae, and names of three references to the following address: Dr. Carol Williams, Guthrie Research Institute, One Guthrie Square, Sayre, PA 18840. The Guthrie Research Institute is an Equal Opportunity Employer.

ASSISTANT PROFESSOR, botany: Biology Department emphasizing teaching seeks Botanist; tenure-track position, Ph.D. required. Preferred candidate able to teach general biology, general botany, plant structure and function, plant systematics, and plant physiological ecology. Direction of graduate students, research program, and university service expected. Position starts August 2001. Send curriculum vitae, transcripts, statements of research interests and teaching philosophy, and three reference letters to: Botany Search Committee, Personnel Department, Station Number 21, Eastern New Mexico University, Portales, NM 88130. Screening begins April 20, 2001, but applications accepted until position is filled. For more information, Telephone: 505-562-2753; website: www.enuu.edu. Affinantire Action/Equal Opportunity/Title IX Employer.



MAYO CLINIC Postdoctoral Position

A postdoctoral fellowship position is available immediately in the laboratory of Dr. Richard Vile, a faculty member within the Molecular Medicine Program. The position involves the construction of targeted vector systems to express a highly potent class of cytotoxic and immunostimulatory genes known as the Fusogenic Membrane Glycoproteins (*Cancer Res.* (2000) **60**:1492; **60**:6396; *Gene Ther.* (2000) **19**:1656).

Expertise in any or all of molecular biology, virology, immunology and cell biology would be required. Salary will be determined by the successful candidate's experience. There is also an attractive benefit package. Mayo Foundation is a non-profit physician led clinical practice integrated with education and research in a unified multi-campus system.

Application including a CV, summary of past accomplishments, and the names of three referees should be sent to:

Dr. Richard G. Vile, PhD Mayo Clinic Rochester Molecular Medicine Program Guggenheim 18 200 First ST SW Rochester, MN 55905 Email: vile.richard@mayo.edu

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

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

Pharmaceutical PhD Staff Positions

Dynamic biopharmaceutical company applying innovative technology to immunotherapeutic products for cancer treatment seeks two PhD-Level Scientists to join our expanding organization.

Group Leader, Drug Delivery

The successful applicant will be responsible for leading a group of 5 scientists in the formulation, development and biophysical characterization of drug delivery systems, especially liposomal systems. Requires a PhD in Chemistry, Biophysics, Pharmacy or related fields and a minimum 8-10 years of academic or industrial work experience as an independent investigator. Must have experience studying lipid-protein interactions and developing liposome-based drug products. Additional experience with electron microscopy, protein chemistry and spectroscopic techniques preferred. Must possess excellent oral, written and interpersonal skills. Previous leadership and project management experience helpful.

Scientist II/III, Vaccine Biology/Immunotherapy

The successful applicant will be responsible for mechanistic studies of vaccine action and cellular immune responses and the development of cell-based immunotherapy products. Requires a PhD in Immunology, Tumor Biology or related fields and minimum 2-4 years of academic or industrial work experience beyond postdoctoral training. Must possess expertise in a broad range of cellular immunology methodology, with emphasis on dendritic cells and antigen presentation, as well as experience with immunochemical and immunofluorescent techniques. Must possess excellent oral, written and interpersonal skills and be able to work in a dynamic, team-oriented environment.

For those who qualify, we offer a competitive salary & excellent benefits. We regret being unable to respond to each resume; only candidates selected for an interview will be notified. Please send resume with salary requirements to:

Biomira USA Inc.





Send curriculum vitae and three references to: Dr. Katsumi Kitagawa, Dept. Molecular Pharmacology, St. Jude Children's Research Hospital, 332 N. Lauderdale St., Memphis, TN 38105-2794 USA. E-mail: <u>Katsumi.Kitagawa@stjude.org</u>

An Equal Opportunity/Affirmative Action Employer.

Elitra Canada

Ultra Rapid Antimicrobial Drug Discovery and Development

Elitra Pharmaceuticals, headquartered in San Diego, California, is an emerging and dynamic biotechnology company employing ultrarapid proprietary methods for gene analysis and antimicrobial drug discovery. We recently completed a significant round of financing and are currently seeking a scientist to work in the antifungal drug discovery program at the antifungal Research and Development division of Elitra located in the heart of Montreal, Canada.

Scientist, Molecular Biology, Fungal Genetics, Functional Genomic

We are currently seeking a highly motivated scientist capable of growing with the company into positions of increasing responsibility. The candidate is expected to work as part of a multidisplinary team to pursue research directed at the identification and evaluation of new antifungal drug targets. Preferred candidate will have a Ph.D. degree and postdoctoral experience in molecular biology and microbial genetics of filamentous fungi. Expertise in the areas of clinical microbiology, antifungal drug development, high-throughput assay development, and data evaluation are also desirable. The successful candidate will develop and apply functional genomic approaches for drug target discovery and evaluation. (Job Code: IB0301S)

Elitra Canada offers competitive salaries, stock options, and excellent benefits including medical, dental, and pension plan. If you have a desire to deliver promising therapeutics to the people who need them most, submit your resume referencing code IB0301S to Human Resources Department at: 225 President Kennedy W. Suite 2550, Montreal, Quebec H2X 3Y8 CANADA. EOE

ANIMAL PHYSIOLOGIST

Lyon College secks qualified candidates for a tenure-track position in biology at the **ASSISTANT PROFESSOR** level beginning August 2001. A Ph.D. or A.B.D. in a relevant area of biology is required. Teaching responsibilities will include comparative animal physiology, cell biology, and other major and general education courses. A research program that involves undergraduate students is expected. Research interests in a nonmammalian system preferred. Additional responsibilities will include participation in advising and college service. Salary and appointment will be commensurate with experience.

Lyon College is an independent, selective, residential liberal arts college affiliated with the Presbyterian Church (U.S.A.). U.S. News and World Report has regularly ranked Lyon among the best liberal arts colleges in the South and as a best educational value. Located in the Ozark foothill community of Batesville, the picturesque campus is 90 miles north of Little Rock, Arkansas, and 125 miles west of Memphis, Tennessee Review of applications will begin immediately and will continue until the position is filled. Interested candidates should send a cover letter; curriculum vitae; statements of teaching philosophy and research interests; copies of graduate transcripts; and the names, addresses, telephone numbers, and e-mail addresses of three references to: Dr. Bob Gregerson, Chair, Biology Search Committee, Lyon College, 2300 Highland Road, Batesville, AR 72501. Applications may also be submitted as e-mail attachments to: rgregerson@lyon.edu. The address of the Lyon website is: www.lyon.edu. Lyon College is an Equal Opportunity Employer.

ASSISTANT PROFESSOR DEPARTMENT OF BIOMEDICAL SCIENCES

The Department of BioMedical Sciences at Philadelphia College of Osteopathic Medicine, which consists of Divisions of Neuroscience, Pharmacology, and Physiology, invites applications for a tenure-track position at the level of Assistant Professor for July start or earliest availability of best candidate. Faculty participate in teaching an interdisciplinary integrated medical curriculum. A Ph.D. with postdoctoral experience required. Successful candidates will be expected to establish an independent and extramurally funded research program and foster collaborative interactions with other faculty. Areas of research currently represented within the Department include cardiovascular regulation, degenerative disease of CNS, and pain mechanisms and management; preference given to candidates whose research complements these areas. Candidates will participate in teaching medical and graduate students. Teaching duties will include cellular and systems physiology and neurosciences. Send curriculum vitae with e-mail address, statement of research interest, and the names and addresses of three references to: Richard M. Kriebel, Ph.D., Department of BioMedical Sciences, Divisions of Neuroscience, Pharmacology, and Physiology, Philadelphia College of Osteopathic Medicine, 4170 City Avenue, Philadelphia, PA 19131.

Philadelphia College of Osteopathic Medicine is an Equal Opportunity/Affirmative Action Employer.

PLANT BIOLOGIST

The Department of Biology at Marquette University seeks to fill a tenure-track ASSISTANT PRO-FESSOR position in plant biology available January 16, 2002. Candidates must have postdoctoral experience and must develop an extramurally funded research program. Applications are invited from all areas of plant biology that involve molecular approaches. Teaching responsibilities include an annual one-semester undergraduate lecture in plant biology and a graduate course or seminar each year. Send curricu-lum vitae, statements of research plans and teaching, and three letters of recommendation to: Dr. Brian Unsworth, Marquette University, Department of Biology, WLS 112A, P.O. Box 1881, Milwaukee, WI 53201-1881. Website: http://biology.marquette.edu. To ensure consideration, applications should be received by April 23, 2001.

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR, PATHOLOGY

The Department of Pathology and Laboratory Medicine, Texas A&M University Health Science Center in College Station, Texas, invites applications for a tenure-track position at the Assistant or Associate Professor level. Level of appointment will be determined by experience and record of accomplishment. Applicants should have an M.D. or M.D./ Ph.D. degree(s), postgraduate training in pathology and research, and a commitment to laboratory investigation. Major responsibilities for the successful applicant will be the development of a successful independent research program, teaching in our core medical student pathology course, and participation in our graduate student program.

Applicants should send their curriculum vitae, a statement of future research plans, and the names of three references to: Faculty Search Committee, c/o Mary Payne, Department of Pathology and Laboratory Medicine, TAMUS-HSC, 208 Reynolds Medical Building, TAMU, College Station, TX 77843-1114. FAX: 979-862-1299; e-mail: payne@medicine.tamu.edu.

BIOLOGICAL SCIENCES

The Biology Department of the University of Puerto Rico, Cayey Campus, seeks applicants for full-time, tenure- and nontenure-track ASSISTANT PRO-FESSOR positions to begin August 2001. Responsibilities include teaching undergraduate introductory and advanced courses in the areas of plant physiology and evolutionary/vertebrate zoology. Ph.D. and a strong commitment to excellence in teaching and involvement of students in research are required. Applicants must be bilingual, fluent in Spanish and English. Submit curriculum vitae, official transcripts (undergraduate and graduate), statement of teaching philosophy and research interests, and three letters of recommendation to: Chairperson, Biology Department, University of Puerto Rico at Cayey, Cayey, PR 00736. Telephone: 787-738-2161, Extension 2036; FAX: 787-263-6426; e-mail: e_diaz@cayeyl.upr.clu.edu. Deadline: last week of March 2001 (or until both positions are filled). UPR is an Equal Opportunity Employer.

RESEARCH INSTRUCTOR POSITION

Applications are invited for a Research Instructor position in the Department of Pathology, The University of Alabama at Birmingham. This is an experimental pathology position in the laboratory of Pro-fessor William E. Grizzle, M.D., Ph.D., where research is focused on evaluation biomarker expression in prostate, breast, and colorectal neoplasia. Minimum requirements are a Ph.D. in the biological sciences and a minimum of four years of postdoctoral experience in the area of biomarker evaluation in neoplastic processes. Demonstrated ability to independently prepare and present data in the form of oral presentations, publications, and grant proposals is also required. Applicants should send curriculum vitae and names of references to: William E. Grizzle, M.D., Ph.D., Professor, Department of Pathology, University of Alabama at Birmingham, 521A Kracke Building, Birmingham, AL 35233-7331. The University of Alabama at Birmingham is an Affirmative Action/Equal Opportunity Employer and welcomes applications from women and minorities

RESEARCH ASSOCIATE Telomerase and Stem Cell Biology

A position is available June 2001 for a recent Ph.D. to work on a novel system for regulating telomerase in human cells with stem cell applications. Experience in mammalian cell gene expression, DNA transfection, cell cloning and selection, and RNA analysis is ideal. Applicants with telomerase and/or stem cell expertise will be fast-tracked. Send curriculum vitae and the names and contact information of two to three references by e-mail to: thoru.pederson@umassmed. edu or by postal mail to: Thoru.Pederson, University of Massachusetts Medical School, 377 Plantation Street, Worcester, MA 01605.

POSITIONS OPEN

DUKE UNIVERSITY EYE CENTER

Duke University Eye Center seeks additional fulltime 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 May 11, 2001. The Search Committee will continue reviewing applications until the positions are filled. Duke University is an Equal Employment Opportunity/Affinnative Action Employer and encourages applications from underepresented groups including minorities, women, and persons with disabilities.

PHARMACOLOGIST NEURONAL SIGNAL TRANSDUCTION

The Department of Pharmacology of the University of Tennessee Health Science Center seeks to fill a tenure-track faculty position at the ASSOCIATE or ASSISTANT PROFESSOR level. The Department is emphasizing the growth of neuropharmacological research in a large, well-funded, multidepartmental environment of Neuroscientists. Applicants must have a Ph.D. or M.D.-Ph.D. and demonstrated capability to support and direct a highly competitive research program focused on signaling mechanisms involved in the regulation of biological events in the central nervous system. These may range from the basic mechanisms underlying physiological processes like learning and memory to the pathogenesis of functional and neurodegenerative diseases, such as drug addiction and Alzheimer's or Parkinson's diseases This is a 12-month appointment that includes teaching responsibilities in both the professional and graduate colleges. Generous start-up funds and research space will be provided to the successful applicant. Applicants should submit curriculum vitae, a detailed statement of research interests, and three reference letters. Mark correspondence with "Signal Transduction Position" and send to: Dr. Burt Sharp, Van Vleet Professor and Chair, Department of Pharmacology, University of Tennessee Health Science Center, 874 Union Avenue, Memphis, TN 38163. UTHSC is an Equal Employment Opportunity/Affirmative Action/Title VII/Title IX/Section 504/Americans With Disabilities Act Employer.

POSTDOCTORAL POSITION: to investigate signal transduction mechanisms that modulate the endoplasmic reticulum during differentiation of Blymphocytes into plasma cells. Our laboratory is located within a strong department providing an excellent environment for individual scientific development. Please e-mail: (jbrewer@lumc.edu) or mail curriculum vitae and three references to: J.W. Brewer, Ph.D., Department of Microbiology/Immunology, Loyola University Medical Center, 2160 South First Avenue, Building 105, Maywood, IL 60153.



Are you challenged by the possibilities of changing the world with great care? Inspired by the opportunities of this challenge? Desire to be part of an innovative premier healthcare company that celebrates your successes as well as our own? Then, you have found it at Bayer. Right now, we have the following exceptional opportunities at The Bayer Center for Biotechnology in Berkeley, CA:

Principal Staff Scientist/Sr. Staff Scientist

You will oversee the Analytical Development section within BioAnalytics for Biologic Products. You will champion the development of new analytical methods and analytical investigations into product-related issues. Collaboration with QA/QC and strategic alignment with the BT Analytical Group, plus coordination with development and characterization activities at our North Carolina sites, will be essential. Requires a PhD or equivalent plus post-doctoral experience in bioanalytical science, with extensive industrial experience in personnel and project management in a pharmaceutical setting. Experience in hematological assays, structural protein and carbohydrate analysis is a plus. **Job Code ASFB1168**

Staff Scientist/Sr. Research Scientist

Lead the Troubleshooting group within Berkeley BioAnalytics in addressing problems associated with the production of recombinant rFVIII products. Collaborate with other departments in R&T and your network of analytical experts. Requires a PhD or equivalent plus postdoctoral with broad experience in analytical chemistry, along with 4+ years' industrial experience in personnel and project management in a pharmaceutical setting. A background in recombinant protein technologies would be a plus. Broad instrument analytical experience required. Job Code ASFB1302

Principal/Sr. Research Scientist

Design, execute, interpret and report on studies to determine the toxicologic profile of biotechnology-derived thereapeutic agents in discovery and development. Collaborate with internal departments and external consultants to complete preclinical safety evaluation of protein therapeutics in support of regulatory submissions and clinical trials, while meeting US, European and Japanese regulatory requirements. Requires a PhD and 6+ years' applicable pharmaceutical industry experience. Must have thorough knowledge of GLP regulations and international regulatory requirements. Background with protein and peptide therapeutics and certification by American Board of Toxicology highly desirable. Some domestic and international travel required. Job Code ASFB1142

Principal/Sr. Research Scientist

Design, execute, interpret and report on pharmacokinetics, toxicokinetics, and ADME studies for evaluation of biotechnology therapeutic agents in discovery and development. You will collaborate with internal department and external consultants to complete preclinical safety assessment of potential products. Requires a PhD in Pharmacokinetics (PK) or related field and a 2+ years' pharmaceutical industrial experience. Must have experience with pharmacokinetic and pharmacodynamic modeling of protein therapeutics, biostatistics, and standard PK software. Experience with population approaches to PK modeling desired. Job Code ASFB1313

For more information on these positions, visit our website at www.founditatbayer.com

Please forward your resume or CV with applicable Job Code to: Bayer Corporation, Pharmaceutical Division, P.O. Box 3238, Scranton, PA 18505-0238; Fax: 1-888-805-7474; or E-mail: bayerpharma@alexus.com. In addition, for confidential consideration, please e-mail your resume to sandra.wassermann.b@bayer.com. Please also attach your resume as a Word or Text file for quicker processing. No agencies nor phone calls please. Bayer offers a competitive salary plus comprehensive benefits package which take effect day one of employment. We also pay 100% of tuition reimbursement. We are part of the Bayer Corporation, a \$32 billion international diversified organization & one of the most broadly based healthcare companies in the US and a leading manufacturer of plasma derived therapies in the world. We are an equal opportunity employer committed to diversity in the workplace.

Join us in changing the world with great care.



Pharmaceutical Division

RESEARCH CHEMIST/BIOANALYTICAL CHEMIST: The U.S. Department of Agriculture, Agricultural Research Service, Western Regional Research Center, Albany, California (San Francisco Bay area), seeks a Research Chemist, GS-12/13/14 (\$56,411 to \$103,055 per annum; salary commensurate with experience) to join an ongoing research program examining biochemical/chemical factors affecting fruit quality and the nutritional value of fruit and processed fruit products. The candidate will examine the biosynthesis, enzymology, metabolism, bioregulation, and biotransformation of natural components important to fruit quality and will provide biochemical/bioanalytical expertise to establish the role of bi-ologically active fruit components to human health and nutrition and as potential ecofriendly insect/ plant pest bioagents. The candidate will work directly with a Natural Product Chemist and participate in an existing collaborative program with Human Nutrition Scientists. Applicants must have a Ph.D. with emphasis in biochemistry and/or bioanalytical chemistry; knowledge in nutrition and molecular biology is highly desirable. This is a competitive, permanent appointment and U.S. citizenship is required. A complete copy of the vacancy announcement and where to apply can be found at website: http://www.ars. usda.gov/afm2/divisions/htd/index.html; select Announcement ARS-X1W-1231 or contact: Per-sonnel; Telephone: 510-559-6090. Closing date for applications is May 7, 2001. For more detailed information on the position responsibilities, please contact: Dr. Gary Manners; Telephone: 510-559-5813. The USDA is an Equal Opportunity Provider and Employer.

RESEARCH SPECIALIST I POSITION in cryoelectron microscopy (cryo-EM) with the Howard Hughes Medical Institute located at the Wadsworth Center in Albany, New York. Responsibilities include managing cryo-EM operations, coordinating instrument use, and ensuring optimum instrument performance. Maintain ancillary equipment; generate highquality resolution data for a variety of projects (3-D imaging of macromolecular complexes). Train all levels of users in cryo-EM techniques; coordinate projects where automation or instrumentation the staff needs to be utilized. Advise and arrange new equipment purchases. Keep apprised of latest techniques by reading publications and keeping in contact with the 3-D EM community. Help with technical input in grant applications and publications. Required qualifications: B.S. in biology or physics; two years of experience in an EM laboratory. Preferred qualifications: laboratory management experience; experience with cryo-EM; effective communication skills for training and presentations; familiarity with computers and ancillary equipment; time management skills for scheduling use of equipment and performing experiments. Please send your curriculum vitae and the names of three references to: Dr. Joachim Frank, Wadsworth Center, P.O. Box 509, Albany, NY 12201-0509. FAX: 518-486-2191; e-mail: joachim@wadsworth.org. Affirmative Action/Equal Opportunity Employer.

NEUROBIOLOGIST JOBID NUMBER 11182 University of Illinois at Chicago

The Department of Biological Sciences at the University of Illinois at Chicago invites applications for a nontenure-track position at the **RESEARCH ASSISTANT PROFESSOR** level. Applicant must possess a Ph.D. and several years of postdoctoral experience. We seek applications from individuals experienced in *C. elegans* neurobiology and skilled in molecular biology approaches. Position will run until an adequate amount of applications are received. For fullest consideration, send curriculum vitae and three letters of recommendation to:

Search Committee for Neurobiologist JOBID #11182, c/o Mary Wais Laboratory of Integrative Neuroscience 4068 SEL-MC 067 840 West Taylor Street Chicago, IL 60607

UIC is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

CORNELL UNIVERSITY Weill Medical College

TENURE-TRACK POSITIONS IN GENETIC MEDICINE

As part of a significant enhancement of its basic biomedical science research programs and laboratory facilities, Weill Medical College of Cornell University (formerly known as Cornell University Medical College) is undertaking a major program initiative in the area of genetic medicine and is seeking to recruit tenure-track faculty at all levels. We are especially interested in candidates with research interests related to pharmacogenetics, the study of polygenic disease, and the functional analysis of genes. Exceptional candidates in other related/appropriate fields will also be considered. Candidates for junior positions should demonstrate the potential for establishing a vigorous, independent research program; candidates for senior positions should have an outstanding record of productivity. Candidates should have Ph.D. or M.D. degrees.

Recruited faculty will receive generous start-up support. Candidates may participate in the Graduate School of Medical Sciences program, which includes faculty from the Weill Medical College and the Sloan-Kettering Institute. Applications should include curriculum vitae, statement of research interests, and three letters of recommendation. Applications should be sent to: Jennifer J. Cameron, Genetic Medicine Recruitment Committee, Box Number 27, Weill Medical College of Cornell University, 1300 York Avenue, New York, NY 10021. Equal Employment Opportunity/Affimative Action/Minorities/Pisabled/Veterans.

ASSISTANT PROFESSOR ARBOVIROLOGY

The Florida Medical Entomology Laboratory, University of Florida, invites applications for a 12-month tenure-track position at the Assistant Professor level. This position is 80% research and 20% teaching. We are seeking an individual able to conduct a strong research program with emphasis on arboviruses that are important to Florida. Preference will be given to candidates with experience and research goals in the areas of arboviral epidemiology, arbovirus molecular biology, and arbovirus host-vector interactions and that entail work in BL-3 biocontainment. Candidates must have a Ph.D., and postdoctoral experience in a relevant area is preferred. The FMEL offers modern facilities in a highly desirable location for research on arboviruses and insect vectors. Candidates will be expected to participate in FMEL initiatives to offer courses in medical entomology using long-distance education technology at the University of Florida. Additional information on the FMEL and the position (Number 935440) may be obtained at website: http://gnv.ifas.ufl.edu/~VEROWEB/. Appli cants should submit a letter detailing interest, complete curriculum vitae, official transcripts, and three letters of reference to: Dr. Jonathan Day, Search and Screen Committee Chair, Florida Medical Entomology Laboratory, University of Florida, 200 Ninth Street, S.E., Vero Beach, FL 32962. Email: jfd@gnv.ifas.ufl.edu. The deadline is July 15, 2001. The University of Florida is an Equal Opportunity/ Affirmative Action Employer.

POSTDOCTORAL POSITION is available to study lipid-dependent signals in the pathogen *Trypanosoma brucei*. The NIH-funded position examines key regulatory enzymes of the signal process. Experience with molecular cloning and/or biochemistry is required. Send curriculum vitae and names of three references to: Dr. Larry Ruben, Department of Biological Sciences, Southern Methodist University, Dallas, TX 75275. E-mail: LRUBEN@ MAIL.SMU.EDU. An Equal Opportunity Employer.

POSITIONS OPEN

FULL-TIME TEMPORARY ASSISTANT PROFESSOR

CHEMISTRY INSTRUCTOR: Kutztown University of Pennsylvania invites applications for a oneyear temporary faculty position commencing August 2001. Minimum requirements are A.B.D. or M.S. with teaching experience; Ph.D. desired. Required is a commitment to excellence in undergraduate teaching. Primary responsibilities will include lecture and laboratory in general chemistry or nursing chemistry (taught at an off-campus school of nursing). The teaching load consists of 24 contact hours per academic year. Successful interview and demonstration of teaching ability are required qualifications.

Kutztown University enrolls approximately 8,200 students in graduate and undergraduate programs. The University is located in the borough of Kutztown in a charming rural setting but is within 20 minutes' driving time of the diverse metropolitan areas of Allentown/Bethlehem and Reading, Pennsylvania, and within 60 minutes of the Philadelphia metropolitan area. The University is very interested in hiring employees who have had extensive experience with diverse populations, especially African American and Latino populations represented in these adjoining metropolitan areas.

Submit a letter of application describing experience with diverse populations, curriculum vitae, transcripts, a brief statement of teaching philosophy, and three current letters of recommendation to: Chemistry Search, Department of Physical Sciences, P.O. Box 730, Kutztown University of Pennsylvania, Kutztown, PA 19530. Review of applications will begin on April 16, 2001, and will continue until the position is filled.

Kutztown University of Pennsylvania is an Affirmative Action/Equal Opportunity Employer and actively solicits applications from women and minority candidates. A member of Pennsylvania's State System of Higher Education.

UNIVERSITY OF FLORIDA

Outstanding opportunity in transplant nephrology. The Department of Medicine, Division of Nephrology, Hypertension, and Transplantation, seeks applicants for an ASSISTANT/ASSOCIATE PROFESSOR/PROFESSOR (tenure-track) or a CLINICAL ASSISTANT/CLINICAL ASSO-CIATE PROFESSOR/CLINICAL PROFES-**SOR** (nontenure-track) position. M.D. degree; Board certified/Board eligible in internal medicine and nephrology. Preferably will have training and qualifications that satisfy UNOS requirements for renal and pancreas transplant physician. A strong interest in clinical transplant research is required. This position will work with the Director of Transplant Nephrology to provide inpatient care for kidney transplant and kidney-pancreas transplant recipients and participate in pretransplant evaluations, posttransplant outpatient care, and outreach programs. Salary and benefits are commensurate with experience. Recruiting deadline: April 6, 2001. An-ticipated starting date: July 1, 2001. Please submit curriculum vitae to: Stephen L. Gluck, M.D., Professor and Chief, Department of Medicine, Box 100224 JHMHC, Gainesville, FL 32610. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS are available in microfluidics, microreactors, and/or fuel cells after May 1, 2001. A Ph.D. in chemistry, chemical engineering, or related field is required. Send résumé to: Paul Kenis or Rich Masel, University of Illinois, Urbana-Champaign, Chemical Engineering, 600 South Mathews Avenue, Urbana, IL 61801. Email: kenis@uiuc.edu/r-masel@uiuc.edu. The University of Illinois is an Equal Opportunity Employer.

Shape the future of AIDS therapy

Team Leader - HIV Drug Discovery

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Our committment to the discovery of new medicines is shown in the creative way we approach research, and in the massive investment which supports this innovation. There's no better place to expand the horizons of both your research, and your career, than with a world leader.

Building on our experience and success in anti-infectives, we are opening £multi-million state-of-the-art research facilities in Kent. We've built a high-calibre team there too, and are now looking for the person to lead and develop our category 3 containment research operations.

In our purpose-built laboratory, you'll provide in-depth expertise to identify and characterise pre-clinical anti-HIV molecules, and drive internal and external collaborations for new target identification. You'll combine technical ability with considerable motivation and leadership qualities that will help you and your team bring the next generation of AIDS drugs to the clinic. It's a high-profile role and you'll http://www.pfizer.co.uk/recruit

need to call on all of your 4+ years' post-doctoral experience in molecular or cellular virology. Your background in assay development, validation and assessment of investigational inhibitors will also prove crucial.

We'll provide you with a scale of resources that matches your passion for drug discovery. This ground-breaking environment will give you a one-off opportunity to bring your ideas to life.

To apply, please send your CV, quoting ref T168/2000/SC, to Joanna Short, Resourcing Adviser, Pfizer Global Research and Development (IPC 077), Ramsgate Road, Sandwich, Kent CT13 9NJ.

Closing date: 13th April 2001.



Pfizer Global Research and Development



POSTDACTARA OPPORTIINITIFS

Postdoctoral positions (2) are available at Weill Medical College of Cornell University (New York City) for terms of up to 3 years to study the interaction of Pseudomonas aeruginosa with antigen-presenting cell using microarray technology

The incumbents will work to generate and analyze gene expression profiles of P. aerug-inosa and human cells in the context of conditions relevant to cystic fibrosis. The goal is to understand mechanisms of biofilm formation and define targets for novel therapeutic strategies against infections with P aeruginosa in patients with cystic fibrosis.

One position will be based in the Dept. of Microbiology and Immunology; the other will be based in the Institute of Genetic Medicine.

Candidates should have a doctoral degree in microbiology, molecular genetics, immunology or a related discipline. Interested candidates should send their curriculum vitae and the names and contact information for 3 references to:





Wadsworth Center Lorraine Flaherty, Ph.D., Directo Genome Database Managers/ **Bioinformatics** Positions

Scientists wanted who will be part of a genomics effort to organize and evaluate biological data for the purpose of data mining including the implementation of software for microarray analyses. All levels of education/experience wanted including B.S. M.S. and Ph.D.

Responsibility and salary will be dependent on levels of education/experience. An understanding of biological processes and genomics preferred. Excellent communication and interpersonal skills are esssential These positions are part of the growing Genomics Institute, a joint venture between Albany Medical College and the Wadsworth Center. The Institute is dedicated to building an internationally recognized program that melds basic science and medical disciplines with genomic approaches to understanding mammalian development and disease. Individuals will interact with the Center for Bioinformatics (a joint venture with Rensselear Polytechnic Institute).

Interested individuals should submit a C.V. and three references to: Dr. Lorraine Flaherty, Director Genomics Institute Wadsworth Center P.O. Box 22002, Albany, NY 12201-2002 flaherty@wadsworth.org.

SENIOR PLANT BREEDER/ PLANT SCIENTIST

Large Scale Biology Corporation, a biotech research and development company with locations in Vacaville, California, Rockville, Maryland, and Owensboro, Kentucky, is seeking a senior Plant Breeder/Scientist to develop and manage plant research programs at our Owensboro, Kentucky, bioprocessing facility. The successful applicant will have an advanced degree (Ph.D. preferred) and five or more years of relevant experience. Should possess a broad set of protein analytical skills and experience in plant biology including plant breeding, plant physiology, and agronomy and will work at a state-of-the-art biopharmaceutical facility that includes a newly completed greenhouse complex.

This individual will interact with Research Scientists in California and Kentucky as well as contract farmers in Kentucky. Responsibilities will include traditional breeding of host plant species, development of interspecific hybrid species, and the integration of transgenic components into the breeding program. Person will facilitate the transition from laboratory strain plants to production hosts including analysis of plants grown under both greenhouse and field conditions. Another key responsibility will be to provide additional expertise to the agronomics research program in the greenhouse and field.

Please send résumés to: Large Scale Biology Corporation, 3333 Vaca Valley Parkway, Suite 1000, Vacaville, CA 95688. FAX: 707-455-1648; email: careers@lsbc.com. Please refer to Job Code WF-PB. Visit our website: www.lsbc.com.

Note: Due to our plant research environment, candidate must be a nonsmoker. Only those candidates under consideration will be contacted. No telephone calls, please. *Equal Opportunity Employer*.

UNIVERSITY OF FLORIDA

Outstanding opportunity in clinical academic ne-phrology at a CLINICAL ASSISTANT/CLINI-CAL ASSOCIATE PROFESSOR/CLINICAL PROFESSOR position (nontenure track) and/or an ASSISTANT/ASSOCIATE PROFESSOR/ PROFESSOR position (tenure track) for the Department of Medicine, Division of Nephrology, Hypertension, and Transplantation. M.D. degree; Board certified in internal medicine/Board eligible in nephrology. Responsibilities will include attending on inpatient and outpatient dialysis and general nephrology services and a commitment to training of physicians and physician-scholars. Participate in the design and implementation of clinical research and clinical trials. Salary and benefits are commensurate with experience. Recruiting deadline: April 6, 2001. Antici-pated starting date: July 1, 2001. Please submit curriculum vitae to: Stephen L. Gluck, M.D., Professor and Chief, Department of Medicine, Box 100224 JHMHC, Gainesville, FL 32610. An Equal Opportunity/Affirmative Action Employer.

UNIVERSITY OF FLORIDA

Seeks three ASSISTANT/ASSOCIATE PRO-FESSOR/PROFESSORS (tenure track) or three CLINICAL ASSISTANT/CLINICAL ASSOCI-ATE PROFESSOR/CLINICAL PROFESSORS (nontenure track) in the Department of Medicine, Division of Internal Medicine. M.D. degree; Board certified/Board eligible in internal medicine. The responsibilities will consist of treating patients on an outpatient and inpatient basis and teaching medical students and residents coinciding with the care of those patients. No research responsibilities. Salary and benefits commensurate with experience. Recruiting deadline: April 6, 2001. Anticipated starting date: July 1, 2001. Please reply with curriculum vitae to: Richard Davidson, M.D., Associate Professor, Department of Medicine, Box 100277 JHMHC, Gainesville, FL 32610. An Equal Opportunity/Affirmative Action Employer.

UNIVERSITY OF FLORIDA

Outstanding opportunity for Director of Dialysis and Clinical Nephrology. The Department of Medicine, Division of Nephrology, Hypertension, and Transplantation seeks applicants for an ASSIST-ANT/ASSOCIATE PROFESSOR/PROFES-SOR and PROGRAM DIRECTOR (tenure-track) or a CLINICAL ASSISTANT/CLINICAL AS-SOCIATE/CLINICAL PROFESSOR and PRO-GRAM DIRECTOR (nontenure-track) position. M.D. degree; Board certified/Board eligible in internal medicine and nephrology. Extensive experience in clinical and administrative homodialysis and peritoneal dialysis; must be able to establish strong clinical research program. This position will serve as the Medical Director of the Shands Hospital at the University of Florida outpatient dialysis unit and inpatient dialysis. Director of the ESRD program and will be responsible for supervising and coordinating the outpatient general nephrology clinics. Ample opportunity will be provided to participate in the design and implementation of clinical research and clinical trials. Salary and benefits commensurate with experience. Recruiting deadline: April 6, 2001. Anticipated starting date: July 1, 2001. Please submit curriculum vitae to: Stephen L. Gluck, Professor and Chief, Department of Medicine, Box 100224 JHMHC, Gainesville, FL 32610. An Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION UNIVERSITY OF FLORIDA

The Department of Medicine, Division of Hematology/Oncology, seeks applicants for two tenure-track ASSISTANT/ASSOCIATE PROFESSOR/ PROFESSOR positions or two nontenure-track CLINICAL ASSISTANT/CLINICAL ASSO-CIATE PROFESSOR/CLINICAL PROFES-SOR positions. M.D. degree; Board certified/ Board eligible in internal medicine and medical oncology with interests in breast, GU, GI, lungs, or CNS solid tumor malignancies. The individuals will be expected to establish a program of clinical or translational research and participate in the active clinical services and teaching activities of the Division. The individual will be expected to interact with laboratory Investigators in the Cancer Center and to collaborate in multidisciplinary, disease-focused working groups. Salary and benefits commensurate with experience. Candidates should send curriculum vitae to: John R. Wingard, M.D., Division of Hematology/Oncology, Box 100277 JHMHC, Gainesville, FL 32610. Recruiting deadline: April 6, 2001. Anticipated starting date: July 1, 2001. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION to study the function of Egr transcription factors in the developing and adult mammalian nervous system (Trends Neurosci. 22:167, 1999). Current investigations employ transgenic approaches in mice (*Nat. Genet.* **20**:87, 1998; *Devel.* **126**:5061, 1999, *MCB* **20**:5261, 2000) to address (1) the role of Egr transcription factors in regulating nerve and muscle interactions, (2) their role in synaptic plasticity, and (3) their role in neuropeptide regulation in basal ganglia. Modern molecular approaches to understanding the pathways regulated by these transcription factors include the use of recombinant viral gene expression vectors, differential subtractive gene expression analysis, real-time quantitative PCR, and custom cDNA microarray construction. Highly motivated Ph.D. or M.D./Ph.D. candidates with substantial experience in developmental neurobiology and/or molecular biology are encouraged to apply. Send curriculum vitae and statement of interest to: Warren G. Tourtellotte, M.D., Ph.D., Northwestern University Institute for Neuroscience and Department of Pathology, 303 East Chicago Avenue, Chicago, IL 60611. E-mail: warren@northwestern.edu.

POSITIONS OPEN

TENURE-TRACK PEDIATRIC ONCOLOGIST LABORATORY RESEARCHER University of Wisconsin-Madison Pediatric Hematology/Oncology

The University of Wisconsin–Madison is recruiting a full-time Physician-Scientist (Pediatric Oncologist) with strong laboratory interests and experience. A research emphasis in immunology is preferred.

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Clinical responsibilities may include one half-day clinic each week and approximately one month of inpatient attending yearly on our pediatric hematology gy/oncology/bone marrow transplant ward as an active member of the six-member Division of Pediatric Hematology/Oncology. Madison is a wonderful, environmentally oriented university town and state capitol, ranked number one in "livability" by *Money Magactine* in 1996 and 1998.

Send curriculum vitae to: Paul Sondel, M.D., Ph.D., Division Head, Pediatric Hematology/ Oncology, Room K4/448 UWCCC, 600 Highland Avenue, Madison, WI 53792. FAX: 608-263-4226; e-mail: pmsondel@facstaff.wisc.edu. The University of Wisconsin is an Equal Opportunity/Affirmative Action Employer. Unless confidentiality is requested in writing, information regarding the applicant must be released upon request. Finalists cannot be guaranteed confidentiality.

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Indiana University School of Medicine Department of Medicine, Division of Nephrology

Several career opportunities are available in our expanding epithelial cell biology group. A programmatic research effort is being conducted that studies effects on actin cytoskeleton, tight junction, adherens junction and protein sorting during renal ischemia and recovery from renal injury (Laboratories of Drs. Bruce Molitoris, Simon Atkinson, James Marrs and Robert Bacallao) utilizing a state-of-the-art optical imaging core facility directed by Dr. Kenneth Dunn. Positions involve close collaboration with various investigators and present excellent growth opportunities for creative researchers.

Optical Microscopist / Assistant Professor- Experienced microscopist sought for tenure-track position in Optical Microscopy Facility. PhD (or equiv.) required. Candidate will be expected to develop an active research program in advanced techniques of optical microscopy, digital image processing and live cell microscopy. The facility is equipped with two confocal microscopes, one capable of multi-photon operation and a dedicated image deconvolution microscope. Competitive salary and start-up funds commensurate with experience.

Renal Physiologist / Research Associate or Assistant Scientist- to study cell biology of renal ischemia *in vivo* and *in vitro* models. PhD (or equiv.) required. Experience using animal models or isolated renal tubules to study renal physiology preferred. Opportunities exist to develop physiological imaging techniques using live animals and two-photon microscopy. Salary and rank commensurate with experience.

Postdoctoral Fellow- positions available within research group. Projects include study of effects on actin cytoskeleton, tight junction, adherens junction and protein sorting during renal ischemia and recovery from renal injury.

Interested candidates should send CV, description of research interests and references to:



Amanda Propes IU Division of Nephrology 1120 South Drive, FH 115 Indianapolis, IN 46202-5116 Phone: (317) 278-0440 Fax: (317) 274-8575 Email: hrneph@iupui.edu (preferred)

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University of California, Davis Department of Entomology

Faculty position as Director, Mosquito Research Program

The Departments of Entomology (College of Agricultural & Environmental Sciences) and Population, Health, and Reproduction (School of Veterinary Medicine) at the University of California, Davis invite applications for the Director, Mosquito Research Program. This faculty position is an Administrator/Cooperative Extension/Agricultural Experiment Station position at the University of California Division of Agriculture and Natural Resources.

Qualifications: Candidates must have a Ph.D., D.Sc., DVM or MD degree with a research background in the biology of mosquitoes or the management of mosquitoes and/or the pathogens they transmit.

To Apply: To be considered, applicants must submit a curriculum vitae, reprints of five relevant publications, names and addresses of five referees, and a brief statement of research and career goals: Robert K. Washino, Mosquito Research Program Search Committee Chair, Department of Entomology, University of California, Davis, One Shields Avenue, CA 95616-8584, attn: Janet Brown-Simmons. For full consideration applications must be postmarked no later than 15 April 2001; however, the search will continue until a suitable candidate is identified. For more detailed information, please visit our website at: http://entomology.ucdavis.edu/

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Please send resume and cover letter referencing job code to Leslie Allen, Human Resources, CURIS, Inc., 21 Erie Street, Cambridge, MA 02139; Fax (617) 499-2927; e-mail: jobs@curis.com



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National Institutes of Health Vaccine Research Center

We are seeking an individual for the immunological assay development program for the Vaccine Research Center at the NIH. This individual will be responsible for all aspects of assay development, from requisition of reagents, design and optimization of individual components, QA/QC, and scaling up for use with large sample numbers for clinical trials. In addition, this individual must keep detailed documentation along the lines of Good Laboratory Practice guidelines. Finally, this individual is expected to work with basic and clinical researchers in the Vaccine Research Center, to aid in the development of new assays as well as in the application of existing assays.

The successful applicant should have a Ph.D., M.D., or equivalent, plus 2 or more years experience in immune assays such as flow cytometry, ELISA, proliferation assays; experience with PCR and molecular biology is highly desirable. Experience with GLP and QA/QC is required. Salary will be commensurate with experience.

The Vaccine Research Center is a newly created center that brings together a diverse group of scientists with the goal of advancing vaccine-related research as well as initiating and advancing vaccine candidates through clinical trials. The VRC is equipped with stateof-the-art instrumentation, from unique high-speed flow cytometers and fluorescence imaging systems to high-throughput real-time PCR technologies. See http://vrc.nih.gov/ for more information.

Qualified applicants for this position are eligible to participate in the NIH's AIDS Research Loan Repayment Program. This program will pay up to \$35,000 per year on student and/or medical loans. See http://lrp.info.nih.gov/ or call 1-800-528-7869 for details.

Please send CV or resume, statement of experience, and names and full contact information of 3 references to: Dr. Richard Koup, Vaccine Research Center/NIH, 40 Convent Dr. - Room 3504, Bethesda, MD 20892. The NIH is an equal opportunity employer.

National Cancer Institute

POSTDOCTORAL POSITIONS

The Human Retrovirus Section, Basic Research Laboratory, Center for Cancer Research, National Cancer Institute-Frederick, National Institutes of Health under the direction of George N. Pavlakis, M.D., Ph.D., is seeking highly qualified postdoctoral fellows with expertise in molecular biology, virology and/or immunology.

Current lab projects relate to the role of viral and cellular factors for HIV regulation and pathogenesis, the development of DNAbased vaccines, and exciting new directions on the cellular reservoirs for HIV and virus persistence.

Appointment duration is for up to 5 years, renewed on a yearly basis. Stipend is based on education and experience, with a range of \$31,500 - \$42,910.

Interested applicants must possess a Ph.D. or an M.D. and have no more than five years of postdoctoral experience. Submit a cover letter, CV, bibliography, and three letters of reference to Dr. George Pavlakis, Basic Research Laboratory, CCR, NCI-Frederick, P.O. Box B, Building 535, Room 210, Frederick, MD 21702-1201 or via email to jonest@mail.ncifcrf.gov. For further information about the Human Retrovirus Section, visit our web site at http://pavlakislab.ncifcrf.gov.



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For proposal guidelines, contact the A-T Children's Project or visit our web site.

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Phone: (954) 481-6611 Fax: (954) 725-1153 Email: grants@atcp.org

FACULTY POSITION

Harvard University-Massachusetts Institute of Technology Division of Health Sciences and Technology

The new Harvard University-Massachusetts Institute of Technology Division of Health Sciences and Technology (HST) Cardiovascular Genomics Center (CVGC) seeks a Director, at the Associate or Professor level, to build a program on inherited factors related to heart diseases.

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The successful candidate will have a HST appointment and a joint appointment in another department at MIT or Harvard Medical School. M.D. and/or Ph.D. and appropriate experience is essential. Location in Kendall Square, Combridge, adjacent to MIT. Send letter stating previous research achievements, current interests, full curriculum vitae and bibliography, and at least 3 references to: Joseph V. Bonventre, M.D., Ph.D., Harvard-MIT Division of Health Sciences and Technology, 139 Main Street, Cambridge, MA 02142.

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Research positions are available for highly motivated individuals. Projects focus on the development of skin-targeted noninvasive vaccines (Nature 388:729-730, 1997). Strong immunological background and molecular biology techniques are required. The successful candidate will receive a joint appointment at the level of an INSTRUCTOR or RESEARCH AS-SOCIATE at Vaxin, Inc., as well as a FACULTY MEMBER or a POSTDOCTORAL FELLOW in the Department of Dermatology at the University of Alabama at Birmingham. For further information, please send inquiries to:

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ACADEMIC NEUROLOGISTS with basic neuroscience research interests in movement disorders, neurodegenerative diseases, and demyelinating diseases are sought to join the Department of Neurology at the University of Cincinnati. Rank and track commensurate with experience. Applicants should be Board eligible or Board certified in neurology. They must have completed or be in the process of completing a laboratory-based Fellowship and should be in the process of applying for independent research funding at the time of application. The applicants will be joining a rapidly growing neurology department based in a new basic science research building that will house the neuroscience graduate program at UC. More senior faculty and nonphysician faculty with research interests that complement existing strengths at UC will also be considered. Positions will be filled as rapidly as space allows. Applicants should submit a letter of interest, curriculum vitae and three letters of reference to: Joseph P. Broderick, M.D., Professor and Chairman, Department of Neurology, University of Cincinnati Medical Center, P.O. Box 670525, 231 Albert B. Sabin Way, Cincinnati, OH 45267-0525.

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POSITIONS OPEN

POSITION AVAILABLE DIRECTOR OF COMPUTATIONAL BIOLOGY

The Program in Biomolecular Structure at the University of Colorado Health Sciences Center invites applications for the position of Director of Computational Biology at the rank of ASSISTANT PROFES-SOR, ASSOCIATE PROFESSOR, or PROFES-SOR in one of the biomedical departments associated with our program depending on qualifications and

The program is seeking candidates who will actively pursue an independent, externally funded research program to complement and support active departmental research interests with an emphasis on nucleic acid structure or protein structure/proteomics. The successful candidate will have medical school and graduate teaching responsibilities and will be responsible for directing the computational infrastructure of the Program in Biomolecular Structure and the establishment of a molecular modeling facility. The Pro-gram in Biomolecular Structure will provide the salary for a System Administrator who reports to the Director of Computational Biology.

The ideal candidate should have a Ph.D. in biophysics, computational biology, biochemistry, pharmacology or a related field; a strong background in scientific computation; and at least three years of postdoctoral or equivalent experience in the field of structural biology or computational biology.

Applicants should send a letter of application, curriculum vitae, publication list, two-page summary of research interests, and have three letters of reference sent to: Dr. Robert Hodges, Director of the Program in Biomolecular Structure, Box B-121, University of Colorado Health Sciences Center, 4200 East Ninth Avenue, Denver, CO 80262

Applications will be reviewed beginning April 30, 2001, for an anticipated starting date of July 2001. Additional departmental information can be obtained via website: http://biomol.uchsc.edu. The Universi-ty of Colorado Health Sciences Center is committed to Equal Opportunity and Affirmative Action.

TWO POSITIONS AVAILABLE IMMEDIATELY

Study morphogens in colorectal cancer. Molecular Biology experience essential; knowledge of protein purification very helpful. Successful candidate will perform laser capture microdissection and study the mechanisms regulating tumor cell expression of the gastrin-releasing peptide receptor.

Study the role of galanin-1 receptor in enteric pathogen infections. Experience with yeast 2 and 3 hybrid systems important. Positions require experience with small animals and cell culture. Please reply with curriculum vitae and career goals to:

University of Florida Attention: Dr. Richard Benya Department of Medicine P.O. Box 100214 Gainesville, FL 32610 An Equal Opportunity/Affirmative Action Employer.

CHAIR, BIOLOGY DEPARTMENT. Texas Woman's University invites applications and nominations for Chair of the Biology Department to begin fall 2001. Must have a Ph.D. with a specialization in molecular biology preferred and bring funded research to TWU. The Department has 14 faculty, 300 undergraduate majors, 30 M.S., and 12 Ph.D. students in molecular biology and participates in an NIH-funded Multiethnic Biomedical Research Support program (MBRS)

Submit letter of application, curriculum vitae, research agenda, statement of leadership philosophy, and three letters of recommendation to: Dr. Joyce Williams, Chair, Biology Search Committee, P.O. Box 425887, Denton, TX 76204. E-mail: jwilliams@twu.edu. See detailed job description at website: www.hr@twu.edu. Screening will begin April 20, 2001. Texas Woman's University is an Equal Opportunity Institution.

POSITIONS OPEN

PROFESSOR Structural Biology/Proteins

As part of the School of Biological Science's expansion of its capabilities in structural biology, a senior faculty member with expertise in protein science is being sought. The school is searching for an individual with expertise in protein science, struc-ture, imaging, assembly, etc. This person must have a demonstrated academic record deserving this rank with evidence of an independent research career supported through the competitive peer-review system. The school has a strong infrastructure and facilities for structural biology (website: http://sgi. bls.umkc.edu) and has targeted this aspect of research along with the complementary field of molecular genetics/genomics as one of the twin prongs for expansion of scholarly activity. A teaching commitment is expected. The school is a fundamental component of the basic science needs of a comprehensive life sciences initiative in the Kansas City region and is nationally competitive in its capabilities in recruiting faculty.

Please submit a complete application or nomination with letter of interest, names of references, curriculum vitae, and general research plans to:

> Dean, School of Biological Sciences Attention: SB/P University of Missouri Kansas City 5007 Rockhill Road Kansas City, MO 64110-2499

Evaluation of applications will begin May 1, 2001; applications are welcome until the position is filled. University of Missouri Kansas City is an Affirmative Action/Equal Opportunity Employer.

The University of New England seeks applications for two positions in the biological sciences for September 2001

MARINE BIOLOGY: One-year visiting appointment to teach marine biology, introductory biology for majors, and possibly a course on the candidate's area of expertise. Ph.D. required; teaching experience preferred

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Send applications including curriculum vitae, three letters of reference, and a statement of teaching philosophy by April 15, 2001, to: Chair of Search Committee, Department of Life Sciences, University of New England, 11 Hills Beach Road, Biddeford, ME 04005. For more information on these positions, see website: www.une.edu/admin/hr/ jobops/vacancylist.html. UNE is an Equal Opportunity Employer that strongly encourages candidates of diverse backgrounds.

DEPARTMENT OF PHYSIOLOGY AND BIOPHYSICS Case Western Reserve University

The Department of Physiology and Biophysics invites applications for TENURE-TRACK FACUL-TY at the junior level. The Department is presently recruiting in the area of papillomavirus biology with an emphasis on molecular, cellular, or whole animal investigation. This individual will join a growing team of Investigators that are presently working in this area. We offer a highly competitive compensation package, ample start-up funds, and state-of-the-art research fa cilities. Submit curriculum vitae; a brief statement of research interest(s); three representative reprints; and the names, addresses, and telephone numbers of four references to: Committee on Appointments, Promotions, and Tenure, Department of Physiology and Biophysics, 10900 Euclid Avenue, Cleveland, OH 44106-4970. Case Western Reserve University is an Equal Opportunity/Affirmative Action Employer.



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The Danforth Center announces positions for faculty at Full, Associate and Assistant Member levels to direct fundamental research programs. Seeking scientists with broad interests/training in at least two scientific disciplines and well formed research programs that will benefit from interactions with scientists of other disciplines. Demonstration of prior/current support and of interdisciplinary research beneficial. Up to 10 faculty appointments will be considered in structural biology, biochemistry, phytochemistry/nutriceuticals, cell biology, gene regulation, root-soil interactions, molecular plant pathology, physiology, and abiotic stress biology. Successful candidates are expected to develop collaborative research programs within the Danforth Center and/or with scientists at partner institutions. Visit our website, www.danforthcenter.org, for more information about the Danforth Center.

Send a curriculum vitae, reprints and four letters of reference to: Ms. Billie Broeker, Human Resources, Donald Danforth Plant Science Center, 7425 Forsyth Boulevard, Campus Box 1098, St. Louis, MO 63105.

The Donald Danforth Plant Science Center is an equal opportunity/affirmative action employer and encourages applications from underrepresented groups, including minorities, women and people with disabilities.



• Mechanisms of cell interaction in the nervous system with an emphasis on neural stem cells and control of gene expression and intracellular signaling (Apply to: Kathryn L. Crossin, Email: kcrossin@scripps.edu)

• Structure and function of cell adhesion molecules, as well as proteins that interact with CAMs (Apply to: Bruce A. Cunningham, Email: bcunning@scripps.edu)

• Mechanisms of translational regulation with a focus on the direct interactions of mRNAs with ribosomes, and on the effects of these interactions on gene expression (Apply to: Vincent P. Mauro, Email: vmauro@scripps.edu)

• Mechanisms that regulate gene expression during neural development with a focus on identification of gene regulatory elements that regulate cell adhesion molecules (CAMs) and applications of a new synthetic promoter construction method (Apply to: Frederick S. Jones, Email: fjones@scripps.edu)

• Mechanisms that modulate synaptic activity including regulation of gene expression and translation by neural activity (Apply to: Gerald M. Edelman, Email: michelle@scripps.edu)

To apply, please submit your CV and statement of research experience/interest via Email, and arrange for letters of reference to be sent to one of the above individuals at: The Scripps Research Institute, Dept. of Neurobiology, 10550 N. Torrey Pines Road, SBR14, La Jolla, CA 92037.

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Innovation That Holds Your Future.

ATCC, a preeminent global biological resource center, located just outside our nation's capital, seeks two candidates to support the Malaria Research and Reference Reagent Resource Center (MR4) contract, which was established to support researchers in the fight against this pernicious disease. Join an experienced staff of scientists to manage this comprehensive set of malaria-related materials and provide related information and training services.

• Scientist: MR4 Reagent Authentication/Development Job # PRO08

Recent Ph.D. in microbiology or an MS degree with proven laboratory experience in microbiology or a related field required. Experience in malaria research is highly desired. Must possess sound knowledge of laboratory procedures and protocol. Ability to use independent judgement and discretion in performance of duties needed. Demonstrated ability to perform new laboratory techniques and use specialized instruments required.

• Biologist: MR4 Reagent Preservation/Production Job # PRO07

BS or MS degree in a biological science or a related field with pertinent experience in cell biology and molecular biology techniques required. Ability to work under general supervision and maintain accurate records needed. Must possess sound knowledge of laboratory procedures and protocol. Demonstrated ability to perform new laboratory techniques and use specialized instruments required.

ATCC offers exceptional benefits and an opportunity to work in a state-of-the-art facility with unique core resources. Qualified candidates must reference the job number and submit a CV with salary history to: ATCC, Attn: HR, 10801 University Boulevard, Manassas, VA 20110; Fax 703-365-2735; or e-mail: employment@atcc.org Visit our Web site at www.atcc.org

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DEVELOPMENTAL BIOLOGIST

The Department of Biology at Hendrix College is seeking broadly trained applicants for a one-year position beginning in September 2001. The successful applicant will teach developmental biology, comparative vertebrate anatomy, and introductory biology courses for majors and nonmajors. Ph.D. or A.B.D. required. The occupant of this position will be eligible to apply in an anticipated tenure-track search for a position to be filled in fall 2002. Review of applicants will begin on April 15, 2001. Please send curriculum vitae, a description of your teaching philosophy and research interests, names of three references with telephone numbers and e-mail addresses, and all transcripts to: Dr. Joseph Lombardi, Chair, Department of Biology, Hendrix College, 1600 Wash-ington Avenue, Conway, AR 72032. Hendrix is a distinguished liberal arts college with an endowment of \$130 million and sheltering a chapter of Phi Beta Kappa; it is located in Conway, Arkansas, thirty miles from Little Rock at the foothills of the Ozark Mountains. The College, related to the United Methodist Church, has a strong commitment to excellence in teaching liberal arts. Please visit our website: www.hendrix.edu. Hendrix is an Equal Opportunity Employer. Women and members of minority groups are expecially encouraged to apply.

INSTRUCTOR OF BIOLOGY DANVILLE COMMUNITY COLLEGE

Danville Community College seeks a strong GEN-ERALIST to teach primarily anatomy and physiology courses as well as general biology courses. This is a nine-month, full-time position. Summer teaching is availble. Minimum of a Master's in biology with a strong background in vertebrate anatomy and physiology. Prior teaching experience at the college level preferred. To apply, send letter of application, résumé, unofficial college transcripts, three written professional recommendations, and State of Virginia Application for Employment to: Brenda Gibson, Danville Community College, 1008 South Main Street, Danville, VA 24541. The Search Committee will begin reviewing applications March 26, 2001, but applications will be accepted until the position is filled. Employment date: August 16, 2001. Salary: commensurate with education and experience. Affirmative Action/Equal Employment Opportunity

POSTDOCTORAL POSITION: anticancer and antiviral drug development. A Postdoctoral position in the field of anticancer and antiviral drug development is immediately available in the Department of Pharmacology of the University of Medicine and Dentistry of New Jersey in Piscataway, New Jersey. Applicants should have a Ph.D. and experience in biochemical and molecular biology techniques. Experience with biophysical techniques (e.g., UV, CD, fluorescence, or calorimetry) is desirable but not necessary. Please send curriculum vitae and three letters of reference to: Dr. Daniel S. Pilch, UMDNJ-RWJ Medical School, Department of Pharmacology, 675 Hoes Lane, Piscataway, NJ 08854-5635. E-mail: pilchds@umdnj.edu. To learn more about us, visit our website: http://www.umdnj.edu/ hrweb/. UMDNJ is an Affirmative Action/Equal Opportunity Employer, Minorities/Females/Disabled/Veterans, and a member of the University Health System of New Jersey. Regrettably, we can respond only to those candidates chosen for an interview

POSTDOCTORAL POSITION immediately available to study the molecular mechanisms of bacterial adhesion to host epithelial cells (*PNAS* 93:9630-9635, 1996: *PNAS* 95:8922-8926, 1998; Pak, J., et al., *JBC*, in press, 2001). Self-motivated individuals with strong background in biochemistry and molecular biology are encouraged to apply. Please e-mail or FAX curriculum vitae and three reference letters to: Dr. Xue-Ru Wu, Department of Urology, New York University School of Medicine, New York, NY 10016. E-mail: xueru.wu@med.nyu.edu; FAX: 212-951-5424.

POSITIONS OPEN

OREGON HEALTH SCIENCES UNIVERSITY Vaccine and Gene Therapy Institute

Oregon Health Sciences University, located in Portland, Oregon, has recently established the Vaccine and Gene Therapy Institute. Our mission is to understand the fundamental biology of the pathogenic immune response and develop protective mechanisms for a variety of diseases.

The Institute resides in a state-of-the-art, 25,000square-foot facility located on the OHSU West Campus approximately 10 miles from Portland. Core facilities include animal housing (small animal and nonhuman primates), flow cytometry, monoclonal antibody production, virology, molecular biology, DNA microarray, and imaging. The West Campus also houses the Oregon Regional Primate Research Center.

POSTDOCTORAL, GRADUATE STUDENT, and **RESEARCH ASSOCIATE POSITIONS** are available under the following Investigators:

(1) Klaus Früh: functional genomics approaches to viral infection and evasion of host immune responses; (2) Ashlee Moses: bone marrow involvement in HIV disease and mechanisms of viral carcinogenesis in HHV8/KS and AIDS-related lymphoma; (3) Jay Nelson: molecular mechanisms involved in viral pathogenesis of chronic diseases; (4) Janko Nikolich-Zugich: T cell development, antigen recognition, homeostasis, and antiviral function; (5) Louis Picker: human and nonhuman primate T cell biology, immunologic memory, immunity to and vaccine development for persistent viruses (HIV/ SIV, CMV); (6) Mark Slifka: regulation of antiviral T cell-mediated cytokine production; and (7) Scott Wong: elucidation of mechanisms associated with viral-mediated pathogenesis.

Send curriculum vitae and referrences to: Paul Woloshin, Ph.D. Administrative Director OHSU Vaccine and Gene Therapy Institute 505 N.W. 185th Avenue Beaverton, OR 97006

POSTDOCTORAL POSITION The University of Pennsylvania Health System Department of Dermatology

A Postdoctoral position is available to study the roles of WNT signaling in the development of hair follicles, teeth and mammary glands, and the regulation of hair growth. A Ph.D. or M.D. degree and U.S. citizenship or permanent residence status (green card) are required. Experience in molecular and/or developmental biology is preferred. Salary range is \$28,260 to \$44,412 based on experience. Please send curriculum vitae, statement of research interests, and the names and addresses of three references to: Sarah E. Millar, Ph.D., Department of Dermatology and Cell and Developmental Biology, University of Pennsylvania, M8d Stellar-Chance Laboratory, 422 Curie Boulevard, Philadelphia, PA 19104-6100. FAX: 215-573-9102; e-mail: millars@mail.med.upenn. edu. An Equal Opportunity/Affinative Action Employer.

POSTDOCTORAL RESEARCH ASSOCI-ATE POSITION available immediately to study estrogen-dependent changes in synaptic transmission and synaptic plasticity (LTP/LTD) in the adult female hippocampus. This project is part of a multidisciplinary effort focused on estrogen-dependent synaptogenesis in the adult female hippocampus. Opportunities exist to participate in cellular/molecular aspects of our mul-tidisciplinary project (**W. Levy** and **D. Hunt**, collab-orators). A Ph.D. in neuroscience or related discipline and excellent verbal and written communication skills required. Publications documenting electrophysiological experience preferred. Position is open until filled. Send curriculum vitae including names and tele-phone/FAX/e-mail numbers and addresses of three references to: Dr. Nancy L. Desmond, University of Virginia Health System, Department of Neurosurgery, P.O. Box 800420, Charlottesville, VA 22908-0420 or submit electronically to e-mail: jmv3c@virginia.edu. The University of Virginia is an Equal Opportunity/Affirmative Action Employer

POSITIONS OPEN

POSTDOCTORAL POSITIONS NEUROSCIENCE

Two NIH-funded Postdoctoral positions are available to study neuronal-glial interactions in situ. One individual is being recruited to use electrophysiology, confocal microscopy, caged compounds, and molecular methods to investigate glial-neuronal signaling within hippocampal brain slices. The second individual is being recruited to generate and analyze transgenic and conditional-knockout mice designed to perturb astrocytic-neuronal interactions in vivo. Applicants interested in the first position should have a strong background in either electrophysiology or imaging microscopy. Applicants interested in the second position should have a strong background in molecular biology. For more information about our program, visit our website: http://www.med.unc.edu/wrkunits/ 2depts/pharm/mccarthy.htm. Send curriculum vitae and names, telephone numbers, and e-mail ad-dresses of three references to: Ken McCarthy, Ph.D., Department of Pharmacology, CB Number 7365, University of North Carolina at Chapel Hill, Chapel Hill, NC 27599-7365. FAX: 919-966-5640; e-mail: kdmc@med.unc.edu.

POSTDOCTORAL POSITIONS Mobile Self-Splicing Introns

Mobile introns can reconfigure genomes. We study intron dynamics at the RNA, DNA, and protein levels. Projects include analysis of catalytic RNAs, DNAbased intron mobility, and intron evolution using genetic, biochemical, and structural approaches. Broad choice of projects. Experience in genetics, DNA recombination, RNA splicing, protein structure, and/ or nucleic acid chemistry desirable. Competitive, federally funded salary (through Health Research, Inc.).

Candidates forward curriculum vitae and three letters of reference to: Dr. Marlene Belfort, Wadsworth Center, New York State Department of Health and Department of Biomedical Sciences, State University of New York, Box 22002, Albany, NY 12201-2002. FAX: 518-474-3181; e-mail: carl@wadsworth.org; website: http:// www.wadsworth.org/resnres/molframe.htm. Alfinnative Action/Equal Opportunity Employer.

BIOLOGIST III

Independent neurobiology/neuroimmunology research. Study promoter region of human prepronocipceptin gene. Apply molecular biology techniques to study transcriptional regulation of nociceptin. Design and perform experiments to investigate role of nitric oxide in susceptibility/resistance to toxoplasma gondii. Study mechanism of reduced resistance to listeria monocytogenes in mice treated with pyrimethamine. Requires Ph.D. in pharmacology, toxicology, immunology, or related field with research background in nitric oxide production and toxoplasma gondii. Requires Ph.D., laboratory experience in cell culture, sterile techniques, microdissection, and molecular biology techniques. **SRI International, Menlo Park**. **CA 94026. FAX: 650-859-4222; e-mail: victoria. johnson@sri.com**. Equal Opportunity Employer.

POSTDOCTORAL POSITIONS available immediately to study cytoskeletal protein 4.1R. Multiple 4.1R isoforms are generated from a single genomic locus by several alternatively splicing events. We have documented the possible involvement of 4.1R isoforms in cell division (*JCB* 145:29), tight-junction biogenesis (*JBC* 275:30573), and the contractile apparatus in skeletal myofibers (*Mol. Bio. Cell* 11:3805). Studies will focus on the structure-function relationships of 4.1R isoforms and the molecular mechanisms regulating the alternative splicing of 4.1R. The projects are collaborations between **Drs. Edward J. Benz Jr.** and **Shu Huang.** Please send curriculum vitae to: **Shu Huang, Ph.D., Dana-Farber Cancer Institute, D1420B, 44 Binney Street, Boston, MA 02115. E-mail: Shu-Ching_Huang@dfci.harvard. edu; Telephone: 617-632-6965; FAX: 617-632-2662.** Dana-Farber is an Equal Opportunity/Affirmative Action Employer.



Publisher

Nature Publishing Group is looking for a Publisher to manage the Nature-branded monthly research journals, primarily based in New York. This is an exciting and challenging role and demands a firstclass candidate to support the development of the journals and to launch new titles. Titles currently published include Nature Medicine, Nature Genetics and Nature Biotechnology.

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Closing date: 6th April 2001

Houndmills, Basingstoke Hampshire, RG21 6XS E-mail: d.westlake@macmillan.co.uk



POSTDOCTORAL Opportunities I

Issue Date 27 April 2001 Reserve space by 10 April 2001

This special ad supplement includes advice from recruiters in both academia and government on the viability of PhD candidates' pursuing postdoctoral fellowships.

For those that do, is it better to concentrate on specific disciplines or broaden their experience with a related subdiscipline?

Don't forget to place your ad in our follow-up supplement in *Science*'s 7 September issue.
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Nature Publishing Group

POSTDOCTORAL FELLOWSHIP POSITION Emory University

The laboratory of **Dr. Grant MacGregor** in the Center for Molecular Medicine at Emory University is searching for a Postdoctoral Fellow to study the function of Bc12 family genes in development of the mammalian reproductive system.

Requisites: Applicants should have a Doctoral-level degree and experience in genetics, cell biology, and molecular biology. Experience in mouse breeding, postimplantation embryo manipulation, and histology is advantageous. Salary range will depend on previous experience and seniority.

Interested applicants should submit curriculum vitae and three letters of reference to:

> Dr. Grant MacGregor Center for Molecular Medicine 1462 Clifton Road Atlanta, GA 30322 E-mail: gmacgrc@emory.edu

Emory University is an Equal Employment Opportunity/ Affirmative Action Employer.

POSTDOCTORAL FELLOW Primate Lipoprotein Cholesterol Metabolism Laboratory

A Postdoctoral position in the Arteriosclerosis Research Program of the Wake Forest University School of Medicine is available in the laboratory of Dr. Larry Rudel. Hepatic cholesterol metabolism is studied with the central focus on determining the role of acylcoenzyme A:cholesterol acyltransferase 2 in this regulation. The position requires a person with an M.D., Ph.D., or D.V.M. degree, preferably with experience in molecular biology, biochemistry, and lipid biochemistry. The program is part of a large multidisciplinary effort in atherosclerosis research. Send curriculum vitae and names of three references to: Larry Rudel, Ph.D., Department of Pathology, Wake Forest University School of Medicine, Medical Center Boulevard, Winston-Salem, NC 27157. E-mail: lrudel@wfubmc.edu. An Affirmative Action/ Equal Opportunity Employer.

POSTDOCTORAL POSITIONS to study the regulation of herpes virus gene expression *in vitw* and *in vivw*. The studies may include structure/function analysis of the viral regulatory proteins, the biochemistry of virus/host interactions, or the development of viral vectors. Applicants should send current curriculum vitae and list of references to: Neal DeLuca, Ph.D., Professor, Department of Molecular Genetics and Biochemistry, E1257 Biomedical Science Tower, University of Pittsburgh School of Medicine, Pittsburgh, PA 15261. E-mail: ndeluca@pitt.edu.

POSTDOCTORAL POSITIONS are available immediately to study gene expression in striatal neurons in response to pharmacological manipulations. Applicants must have expertise in cell signaling and transcriptional regulation of gene expression. Experience in any one of the methods, such as *in situ* hybridization, gel shift assay, and microarray, is preferred. Send curriculum vitae and names/addresses of three references to: Dr. John Wang, Division of Pharmacology, School of Pharmacy, University of Missouri-Kansas City, 2411 Holmes Street, Kansas City, MO 64108. E-mail: wangjq@umkc.edu. *Equal Opportunity Employer.*

A POSTDOCTORAL POSITION is available in the Department of Ophthalmology at the University of Washington to study visual signal transduction and retinoid metabolism. Experience in biochemistry, molecular biology, or chemistry required. Please send curriculum vitae and names of references to: Dr. K. Palczewski, University of Washington, Department of Ophthalmology, Box 356485, 1959 N.E. Pacific Street, Seattle, WA 98195-6485. E-mail: palczews@u.washington.edu. The University is an Equal Opportunity/Affimative Action Employer.

POSITIONS OPEN

AGRICULTURAL RESEARCH SERVICE Two POSTDOCTORAL RESEARCH ASSO-CIATE POSITIONS are available immediately in the Mycotoxin Research Unit at the U.S. Department of Agriculture, Agricultural Research Service, Peoria, Illinois. The Associate will join an interdisciplinary team conducting research on Fusarium head blight (in wheat) and corn ear rot by the mycotoxin-producing pathogen Fusarium graminearum (Position A) and infection of corn by the fumonisin-producing fungus Fusarium verticillioides (Position B). Specific objectives will include identification and characterization of fungal genes that can synthesize, regulate, or modify toxins and characterization of fungal genes involved in the fungal-plant interactions. Salary is commensurate with experience (\$43,326 to \$56,322 per annum) plus benefits. U.S. citizenship is not necessary but there are certain citizenship requirements. Qualified Ph.D. candidates should send a letter of interest and curriculum vitae by e-mail or FAX to: Dr. Daren Brown for A; FAX: 309-681-6665; e-mail: Position browndw@ncaur.usda.gov) or Dr. Robert Proctor for Position B; FAX: 309-681-6665; e-mail: proctorh@ncaur.usda.gov.

POSTDOCTORAL POSITION Solid-State NMR Studies of Viral Fusion Peptides

This is an NIH-funded project to investigate the structure and motion of membrane-bound viral fusion peptides. These studies will provide insight into the mechanism of peptide-induced liposome fusion and, ultimately, viral/host cell membrane fusion. We have two 400 MHz solid-state NMR spectrometers available for these studies. The ideal candidate would have some experience in solid-state NMR, biochemistry, peptide synthesis, and/or protein expression. Please send curriculum vitae and names and contact information of two references to: Dr. David Weliky, Department of Chemistry, Michigan State University, East Lansing, MI 48824. E-mail: weliky@ cem.msu.edu; website: http://poohbah.cem. msu.edu/Faculty/Welikygrp/index.html. MSU is an Affinnative Action/Equal Opportunity Institution.

POSTDOCTORAL POSITIONS

Positions available immediately for suitably qualified individuals with experience in studies with isolated perfused organs (preferably murine hearts) as well as biochemical analysis of energetic intermediates and assessing associated changes in gene expression. The applicants should have experience in studies with rodents (including physiology) and standard techniques in biochemistry and molecular and cell biology.

Please send curriculum vitae and the names and addresses of two academic references to: Ms. Claudia W. Edwards, College of Physicians and Surgeons of Columbia University, P and S 17-401, 630 West 168th Street, New York, NY 10032. Columbia University is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS available immediately for projects involving DNA-protein interactions that govern basic mechanisms of *in vitro* DNA replication and repair and studies of telomere structure. Work involves combined biochemical and electron microscopic approaches. More details and how to apply can be found on our website: http://www. unc.edu/~jdglab/main.htm or write to: Dr. Jack Griffith, Professor, Lineberger Cancer Center, University of North Carolina, Chapel Hill, NC 27599-7295.

POSTDOCTORAL POSITION available at Vanderbilt University Cancer Center to study the role of phosphorylation in mammalian apoptosis and the regulation of apoptosis by the BCL2 family. Candidates with a Ph.D. or M.D. and motivated to work in a competitive molecular biology field are encouraged to contact: Dr. Elizabeth Yang, M.D., Ph.D., 518 PRB II, Vanderbilt Cancer Center, Nashville, TN 37232. Telephone: 615-936-3585; FAX: 615-936-1767; e-mail: elizabeth.yang@mcmail.vanderbilt.edu.

POSITIONS OPEN

POSTDOCTORAL POSITIONS IN GENETIC AND MOLECULAR DIAGNOSIS OF CANCER

Postdoctoral positions available for motivated individuals to study the genetics and molecular diagnostics of prostate, bladder, breast, and ovarian cancers. The work will involve identification of cancer genes, evaluation and timing of genetic alterations in precursor and neoplastic stages, construction of molecular progression models, and detection of neoplastic cells in clinical samples for molecular diagnosis and staging. Background in molecular biology is required. Please send curriculum vitae and names of references to: Dr. Paul Cairns, c/o Human Resources, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111 U.S.A. FAX: 215-728-2741; e-mail: P_Cairns@fccc.edu. Equal Opportunity Employer.

POSTDOCTORAL POSITION Harvard Medical School/MEEI

A Postdoctoral position is available to study eye development through classical, molecular, and microarray-based genetic approaches (website: http:// www.howelaboratory.harvard.edu/fphomepage/ index.htm). Please send curriculum vitae and arrange to have three letters of reference sent to: Dr. Francesca Pignoni, Department of Ophthalmology, Harvard Medical School, 243 Charles Street Number 507, Boston, MA 02114. E-mail: Francesca_Pignoni@meei.harvard.edu. Affirmative Action/Equal Opportunity Employer.

A POSTDOCTORAL POSITION is available to study tumor angiogenesis focusing on the modulation of angiogenic stimuli by heparan sulfate proteoglycans. Candidates with a Ph.D. degree and experience in molecular biology, cell culture techniques, and/or rodent genetics are encouraged to apply to: Dr. Andreas Friedl, Department of Pathology and Laboratory Medicine, University of Wisconsin, 600 Highland Avenue, Madison, WI 53792-8550. Email: afriedl@facstaff.wisc.edu. The University of Wisconsin-Madison is an Equal Opportunity/Affirmative Action Employer.

A POSTDOCTORAL POSITION in neuroscience is now available to study the effects of melatonin on plasticity and physiology of the optic tectum in *Xenopus*. Experience in patch clamp or calcium imaging techniques is desired. Please send a brief letter or e-mail describing your research interests, curriculum vitae, and names of three references to: Dr. Susan Udin, Department of Physiology and Biophysics, University at Buffalo, Buffalo, NY 14214. E-mail: sudin@buffalo.edu. University at Buffalo is an Equal Opportunity Employer/Recruiter.

POSTDOCTORAL POSITIONS available for cellular and molecular biomechanics to study functions of extracellular matrix and interaction cells and extracellular matrix. Candidates should have a Ph.D. and experience in protein chemistry, cell biology, biophysics, bioengineering, or molecular biology. Please send curriculum vitae to: Dr. Zong-Ping Luo, Department of Orthopedics, Baylor College of Medicine, 6560 Fannin, Suite 400, Houston, TX 77030. E-mail: luo@bcm.tmc.edu.

POSTDOCTORAL POSITION available to study novel innate immunity genes in transgenic mice, humans, and mammalian cells *in wino*. Send curriculum vitae and names and telephone numbers of references to: Dr. Roman Dziarski, Indiana University School of Medicine, 3400 Broadway, Gary, IN 46408. Website: http://www.medlib. iupui.edu/nwcme/smpledsk.html.E-mail:rdziar@ iun.edu.

POSTDOCTORAL POSITION: to study the role of G proteins in epithelial cell model systems. Applicants should have experience in molecular biology and cell biology and *must be U.S. citizen or primaneut resident*. Please send curriculum vitae to: **Dr. Bradley Denker, Brigham and Women's Hospital**, 77 Avenue Louis Pasteur, Boston, MA 02115. Telephone: 617-525-5830; FAX: 617-525-5830; e-mail: bdenker@rics.bwh.harvard.edu.

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POSTDOCTORAL POSITIONS Beth Israel Deaconess Medical Center Harvard Medical School

RESEARCH FELLOW positions are available immediately to study stem cell transplantation in cardiovascular diseases. Areas of interest include animal models, cell differentiation, cardiogenesis, and angiogenesis. Our laboratory uses embryonic stem cells to study tissue repair of injured myocardium. Applicants should have a Ph.D. or M.D./Ph.D. with experience in certain areas of cell biology, pathology or immunocytochemistry, and molecular biology. Knowledge of nuclear transfer technique is greatly desirable. We offer a competitive salary and full benefits. Please email or send a letter of interest, curriculum vitae, and the names of three references to: James P. Morgan, M.D., Ph.D., Chief, Cardiovascular Division, Beth Israel Deaconess Medical Center, Harvard Medical School, 330 Brookline Avenue, Boston, MA 02215. E-mail: jmorgan@caregroup. harvard.edu. The BIDMC/Harvard Medical School is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOW OR RESEARCH SCIENTIST POSITION

Multiple positions are available for highly motivated Ph.D. or M.D./Ph.D. holders to work on G protein-mediated signaling pathways that control cell growth and differentiation. These pathways will be studied in embryonic stem cell cultures and animal models. Level of appointment and salary will be commensurate with years of research experience. Special consideration will be given to applicants with experience in gene regulation, gene knockout strategy, ES cell differentiation, or microarray analysis. The Weis Center for Research is located in a safe, family-oriented setting within a three-hours' drive of Philadelphia, Pennsylvania, Baltimore, Maryland, and New York City. Send a description of your research interests, curriculum vitae, and three references to: Dr. Janet Robishaw, c/o Ms. Kristin Gaul, Weis Center for Research, Geisinger Clinic, Danville, PA 17822-2600. E-mail: jrobishaw@geisinger.edu

POSTDOCTORAL POSITIONS STRUCTURAL BIOLOGY

Positions are available for enthusiastic Biochemists or Structural Biologists to join a dynamic program in drug design. The current focus of the group is to use structural information to aid in the development of novel prodrug/enzyme combinations for the treatment of cancer and viral infections. These are ideal positions for Macromolecular Crystallographers with protein chemistry experience or for Biochemists interested in learning X-ray crystallography; see website: www.uic.edu/labs/lavie for more information. Send curriculum vitae and names of three references to: Arnon Lavie, Ph.D., University of Illinois at Chicago, Department of Biochemistry and Molecular Biology (MC536), 1819 West Polk Street, Chicago, IL 60612. FÁX: 312-355-4535; e-mail: Lavie@uic.edu. UIC is an Affirmative Action/Équal Opportunity Employer

POSTDOCTORAL FELLOWSHIP PULMONARY INNATE IMMUNITY The University of Cincinnati

A Postdoctoral position is available to study the role of cells and proteins in the pulmonary alveolar lining fluid including macrophages, surfactant proteins, lysozyme, C-reactive protein, and defensins in pulmonary innate immunity. This line of investigation will examine the interaction between the pathogen and lung from the perspective of both the microorganism and the host. Candidates with experience in molecular biology, microbial physiology and genetics, and/or innate host defense are invited to send curriculum vitae, statement of research interests, and the names of three references to: Dr. Frank McCormack, Pulmonary and Critical Care Division, the University of Cincinnati School of Medicine, P.O. Box 670564, Cincinnati, OH 45267-0564. Telephone: 513-558-4831; e-mail: frank.mccormack@uc.edu.

POSITIONS OPEN



POSTDOCTORAL POSITION

NIH-funded Postdoctoral position is available at The Salk Institute for Biological Studies to study a novel neural pathway that controls gonadal function. The project involves immunohistochemical and tracing techniques to identify the circuitry of interest, as well as brain microinfusion and lesion. Candidates should have a recent Ph.D., a strong background in neuroanatomy, and be familiar with brain surgical techniques in rodents. Send curriculum vitae and three letters of recommendation to: Dr. C. Rivier, The Salk Institute, Peptide Biology Laboratory, 10010 North Torrey Pines Road, La Jolla, CA 92037. FAX: 858-552-1546; e-mail: crivier@salk.edu. The Salk Institute is an Equal Opportunity Employer.

TWO POSTDOCTORAL POSITIONS AVAILABLE NATIONAL CANCER INSTITUTE Chemistry of Carcinogenesis Laboratory Carcinogen-Modified Nucleic Acid Chemistry Section

Projects include (1) synthesis of drugs for use as chemotherapy adjuvants and (2) synthesis of modified oligonucleotides for studies of DNA repair and mutagenesis.

Applicants must possess or expect appropriate degrees, e.g., Ph.D. and/or M.D. Appointment duration is up to five years, renewed on a yearly basis. Stipends are commensurate with education and experience, with a range of \$31,500 to \$49,430. Applications should include a cover letter, curriculum vitae, and list of references sent to: Sheryl Rudden, Chemistry of Carcinogenesis Laboratory, National Cancer Institute at Frederick, P.O. Box B, Building 538, Frederick, MD 21702. Applications must be received no later than April 30, 2001. The National Cancer Institute is an Equal Opportunity Employer.

NIH-NRSA POSTDOCTORAL TRAINEE **POSITIONS** in marine biomedical sciences. Positions are available immediately and are renewable for up to three years based on satisfactory performance and NRSA eligibility. Applicants must be U.S. citizens or permanent residents. Stipend is set by NIH depending on number of years since the Ph.D., starting at \$26,916. Priority given to applicants just finishing or recently receiving their Ph.D. All applicants whose research interests match center research themes will be considered (see website: http:// www.niehs.nih.gov/centers/center/mia-ctr. htm), but we particularly seek applicants in the areas of aquatic toxin effects on ion channels, biosynthesis of natural products, and epidemiology of marine toxin-related diseases. Send curriculum vitae, transcripts (unofficial okay) of undergraduate and graduate education, and three letters of recommendation using the form available at website: http:// www.as.miami.edu/rgawley/NRSA-Ref-T32. of Chemistry, University of Miami, P.O. Box 249118, Coral Gables, FL 33124. The University of Miami is an Equal Employment Opportunity Employer.

RESEARCH FELLOW/POSTDOCTORAL POSITION available to study the neural and behavioral mechanisms of cross-modality (i.e., multisensory) integration. Interest with either electrophysiological, behavioral, anatomical, or psychophysical techniques preferred. Send curriculum vitae and three letters of recommendation to: **Barry E. Stein, Ph.D., Department of Neurobiology and Anatomy, Wake Forest University School of Medicine, Winston– Salem, NC 27157-1010**. Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIP Rush-Presbyterian-St. Luke's Medical Center

A Postdoctoral Fellowship is available at the Department of Immunology/Microbiology at Rush University/Rush-Presbyterian-St. Luke's Medical Center in Chicago, Illinois. The fellowship is in the laboratory of **Dr. Lena Al-Harthi**, which is focused on the immunology/virology of HIV disease. Experience in HIV research, immunology, or molecular biology is desirable. Salary is highly competitive.

If you are interested, please **e-mail** curriculum vitae to: **lalharth@rush.edu** or mail to:

> Dr. Lena Al-Harthi Rush–Presbyterian–St. Luke's Medical Center Rush University, Department of Immunology/Microbiology 1653 West Congress Parkway Chicago, IL 60612

Equal Opportunity Employer; Minorities/Females/Disabled/Veterans.

POSTDOCTORAL FELLOWS/RESEARCH ASSOCIATES: Three Postdoctoral positions are immediately available to investigate the molecular and preclinical pharmacology of nonsteroidal androgens. Ph.D. applicants with backgrounds in biochemistry, molecular biology, or chemistry are encouraged to apply. The goal of this NIH- and industry-funded research program is to identify the molecular, cellular, and physiologic determinants of androgen action. Specific interests include coactivator recruitment by the human androgen receptor, pharmacogenomics and tissue selectivity of nonsteroidal androgen action, pharmacokinetics and metabolism, and mass spectrometric characterization of these exciting new drugs and their receptor. Competitive salaries are available and negotiable depending on qualifications and experience. Candidates should send their curriculum vitae and names for three references to: Jim Dalton, Ph.D., Associate Professor, The Ohio State University, College of Pharmacy, 500 West 12th Avenue, Co-lumbus, OH 43210. E-mail: dalton.1@osu.edu.

VANDERBILT UNIVERSITY SCHOOL OF MEDICINE

POSTDOCTORAL POSITION available in the Department of Radiation Oncology Radiation Biology Laboratory concerning development of novel strategies for tumor-targeted drug delivery and antagonists of tumor angiogenesis. Candidates will be expected to complement departmental strengths in tumor biology, peptide expression libraries, signal transduction, MALDI mass spectrometry, and radiation biology. A strong background in cell biology techniques is required. Send curriculum vitae and names/ telephone number of of three references to: Dennis Hallahan, M.D., Professor and Chairman, 1301 22nd Avenue South, B–902, The Vanderbilt Clinic, Nashville, TN 37232-5671. FAX: 615-343-3075; e-mail: dennis.hallahan@mcmail.vanderbilt.employer and encourages applications from all individuals independent of gender, race, nationality, age, or disability.

POSTDOCTORAL FELLOW

A Postdoctoral position is immediately available for participation in a project on the behavioral pharmacology of acute opioid dependence in rodents and small primates. Applicants should have a recent Ph.D. degree in pharmacology, neuroscience, psychology, or a related discipline. Please send curriculum vitae, the names and contact numbers of three references, and a brief description of career goals to: **Stephen G. Holtzman, Ph.D., Department of Pharmacology, Emory University School of Medicine, 1510 Clifton Road, 5001 Rollins Research Center, Atlanta, GA 30322.** *Equal Opportunity Employer/Affirmative Action.*

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Scientists specializing in Oncology must have a Bachelor's or Master's degree and significant industry experience, while PhD level scientists must have post-doctoral experience. A broad background in cell biology techniques including mammalian tissue culture, protein biochemistry, and molecular biology is required. Using assays of tumor cell signal transduction, gene regulation, and growth factor biology is desirable.

Scientists specializing in immunology must have a PhD with post-doctoral experience, including cellular assays of immune signals and activation. Mammalian tissue culture techniques including lymphocyte experience are highly desired, as is experience in FACS analysis, plus cytotoxicity and cytokine production assays.

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Opportunities in Microbiology

The **Pacific Northwest National Laboratory** is seeking outstanding scientists to contribute to new programs in microbiology. The new programs combine experimental microbiology with state of the art instrumentation and technologies including mass spectrometry-based proteomics, cell visualization-based analyses, array-based genome analyses, and computational modeling of biological structures and processes. The objective of these programs is to provide a systems-level understanding of metabolic pathways and networks including how microorganisms sense and respond to their environment.

We are interested in researchers who apply molecular microbiology and genomics, microbial physiology and ecology, and macromolecule structure/ function to investigate metabolic pathways and pathway networks. Researchers will be expected to focus on processes such as methanogenesis, photosynthesis, and cellulose degradation; microbial interactions with metals and radionuclides; carbon fixation, life under extreme conditions (extremophiles); or national security issues regarding biowarfare agents. Particular emphasis will be on cellular pathways and networks and the resulting physiological response and behavior of single organisms, populations of organisms, consortia, and microbial communities. These positions offer unparalleled opportunities to participate in the early stages of a major initiative in post-genomic sciences at the interface of experimental biology and the physical and computational sciences.

Interested parties should submit curriculum vitae, statement of professional goals and research interests, and three letters of recommendation to:

Search Committee K9-21 c/o Dr. Dave Springer Pacific Northwest National Laboratory P.O. Box 999 Richland, WA 99352

Pacific Northwest National Laboratory Operated by Battelle for the U.S. Department of Energy

PNNL is an EEO/AA employer and values diversity in the workplace. F/M/D/V are encouraged to apply.

Endowed Programs for

Fellows, Faculty and Visiting Professors in STEM CELL RESEARCH

The Tulane Center for Gene Therapy offers a series of endowed programs for research in stem cell biology and use of stem cells in gene therapy. The Center is supported by a five-year program funded by Tulane University, HCA-the Healthcare Company, and the Louisiana Gene Therapy Research Consortium, Inc. The Center provides a series of core facilities that include DNA sequencing, microarray assays, deconvolution microscopy, laser assisted microdissection, protein mass spectrometry, biosensor assays of ligand binding, CD spectropolarimetry, and FACS. In addition, a core laboratory is available at the affiliated Tulane University Primate Research Center and there is access to an NIH-funded General Clinical Research Center. A microPET core for imaging of small animals will be available within the year.

Postdoctoral Fellowships: Highly competitive stipends are offered for up to 3 years. Successful candidates should be graduates of well-recognized institutions and have an excellent command of English.

Faculty Positions: Tenure-track appointments are available at the level of assistant professor. The program is fully funded to provide salary, laboratory space, access to graduate students and up to four years of support for a postdoctoral fellow, a technician and research supplies for each faculty member.

Sabbatical Year Program for Visiting Professors: Positions provide up to one year of full support for salary and resarch expenses for highly qualified scientists.

For details, visit web site: http://www.som.tulane.edu/gene therapy/

Send (1) curriculum vitae, (2) brief summary of research interests, and (3) two or more letters of recommendation to Dr. Darwin J. Prockop, Director, Center for Gene Therapy, Tulane University Health Sciences Center, 1430 Tulane Avenue, SL-99, New Orleans, LA 70112; Fax (504) 988-7710; E-mail: dprocko@tulane.edu

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UCDAVIS Opportunities in genomics

The University of California, Davis, is establishing the UC Davis Genome Center through a major campuswide initiative in genomics. The new center is part of a broader campus commitment to build on existing strengths in the life sciences and to establish an internationally recognized program in genomics research. The center will:

- involve faculty scientists from the School of Medicine, School of Veterinary Medicine, College of Agricultural and Environmental Sciences, Division of Biological Sciences, Division of Mathematics and Physical Sciences, and College of Engineering
- be co-located with programs in molecular medicine, pharmacology, and biomedical engineering in a new 200,000-sq.-ft. building that includes a modern mouse vivarium, small-animal imaging facility, and genomics research core facility
- provide research space and administrative support for 25 new state-funded faculty positions in genomics (10), pharmacology (6), veterinary medicine (2), and bioinformatics and computational biology (7). Additional recruitments in these areas are expected in departments throughout the campus.

Director, UC Davis Genome Center

UC Davis invites applications and nominations for the founding director of the UC Davis Genome Center. The director will provide leadership in faculty recruitments in genomics as well as in development of academic research and teaching programs in genomics across the entire campus. We seek a director with a vigorous research program and sufficient breadth of experience and interests to provide intellectual leadership for genomics programs in medicine, veterinary medicine, agriculture, and fundamental life sciences. The director's research could be in any area of genomics, but a focus in functional or comparative genomics is desired. The director will be appointed at the professorial level in an appropriate academic department in one of six schools, colleges, or divisions. The position will remain open until filled. Applicants should send a letter of interest, a curriculum vitae, and the names and addresses of at least five references by May 1, 2001, to: Dr. Craig Benham, Chair, UC Davis Genome Center Director Search Committee, c/o Dean's Office, Division of Biological Sciences, University of California, One Shields Avenue, Davis, CA 95616.

Chair, Medical Pharmacology and Toxicology

The UC Davis School of Medicine seeks a chair of medical pharmacology and toxicology. The chair will provide prominent leadership in the development and enhancement of research and educational programs. He or she will be responsible for strengthening the Department of Pharmacology and Toxicology with five additional new state-funded faculty positions and new research space in close association with the UC Davis Genome Center and the Department of Biomedical Engineering. Preference will be given to candidates who investigate the genomic, genetic or proteomic basis of therapeutics in cancer, infectious diseases, or neurological disorders, emphasizing mouse, primaté or human systems. The successful candidates must posses an M.D., Ph.D., M.D./Ph.D., or equivalent. The position will remain open until filled. For full consideration, each applicant should send a letter describing his or her administrative, research and teaching background; a curriculum vitae; and the names and addresses of five references by May 1, 2001, to: Dr. Larry Hjelmeland, Chair, Search Committee for Chair of Pharmacology and Toxicology, c/o Dean's Office, School of Medicine, Medical Sciences 1-C, University of California, One Shields Avenue, Davis, CA 95616.

Further information about genomics at UC Davis is available at http://genomics.ucdavis.edu

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	United Negro College Fund
	ited Negro College Fund and Pfizer Global Research and Development, have established an initiative to support er development of under-represented minority post-graduates in the biomedical research fields.
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Applica	unts must be:
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•	Appointed as a postdoctoral fellow currently or by the end of the 2001 calendar year at an academic or non- academic research institution in the USA, including Pfizer (other private industrial labs are excluded)
•	A member of a minority group that is under-represented in the biomedical research fields
	Submitted applications must be postmarked by May 15, 2001 For application forms and more information, please contact:
	Jerry L. Bryant, Ph.D., Director, Science Education Initiatives
	United Negro College Fund, 8260 Willow Oaks Corporate Drive, Suite 110, Fairfax, VA 22031-4511
	Phone (703) 205-3503 East (703) 205-3574 E-Mail: uncfosizer@uncf.org Internet: www.uncf.org

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> Application found on www.faseb.org/meetings/src



Symposia



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



direct inquiries to: Nancy Blankenstein Pittsburgh Supercomputing Center 4400 Fifth Avenue, Room 230C Pittsburgh, PA 15213 biomed@psc.edu or 412-268-4960





OPPORTUNITY FOR OBTAINING DNA SEQUENCE OF REGIONS OF HIGH BIOMEDICAL INTEREST FROM MODEL ORGANISM GENOMES

The National Institutes of Health has expanded the list of organisms eligible for sequencing under the current NIH Mouse BAC Sequencing Program to include all animals, fungi, and eukaryotic protists. This program change is intended to address the interest of the larger biomedical research community in obtaining sequence information about specific regions of genomic DNA of biomedical or biological significance.

Several of the sequencing centers in the National Human Genome Research Institute's Genome Sequencing Network will dedicate a fraction of their sequencing capacity to this initiative. Investigators may submit requests to have one or more BAC clones sequenced from one or more eligible organisms (plants and prokaryotes are excluded). Requests may be for 4-fold coverage, 6-10-fold coverage, or finished sequence. Any BAC sequenced from the mouse RPCI-23 library or the rat BAC library designated for genomic sequencing will be finished so that the sequence will be maximally useful to the centers generating the sequence of the entire genome. Requestors whose projects have been approved must also provide the BAC clone(s) to the participating sequencing centers.

An Investigator interested in obtaining the sequence of a specific region of genomic DNA that has been cloned in a BAC may submit a short, Web-based request describing the region, its importance, and its readiness to be sequenced. A panel of peer reviewers will consider the requests and advise the NHGRI on the priority of the regions requested. Those judged to be sufficiently important to warrant priority sequencing will be listed for the centers engaged in mouse genomic sequencing to choose and sequence, up to the maximum capacity available for this activity.

There will be no cost to investigators seeking this sequencing service; the sequencing will be done by centers that have already been funded through the Network. However, as with all sequence data generated by the Human Genome Project, unfinished data will be submitted to GenBank within 24 hours of generation of 2kb assemblies, and finished data as soon as completed. No sequence data will be made available to the requestor prior to public release. All publications using this data must acknowledge the publicly funded sequencing effort. If BAC clones that are approved for sequencing are not available commercially, the requestor must agree to make the clone(s) available for distribution in an expeditious manner upon publication using any or all of the data generated by the public effort.

For a more complete description of the program and to access the request form, please visit our website: http://mouse.info.nih.gov.

Submission Dates for 2001: April 1, July 1, and October 1

To discuss programmatic issues contact: Bettie J. Graham, Ph.D. National Institutes of Health; Bethesda, MD 20892-2033 Email: bettie_graham@nih.gov; TEL: (301) 496-7531 To discuss review issues contact: Jerry Roberts, Ph.D. National Institutes of Health; Bethesda, MD 20892-2032 E-mail: jerry_roberts@nhgri.nih.gov; TEL: (301) 402-0838



Stuttgart, Germany · 24 April 2001

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For further information contact Deborah Cummings on +44 (0)1223 326 500 or email ScienceCareers@science-int.co.uk

POSTDOCTORAL FELLOWSHIP OPPORTUNITIES The Roles of Higher-Order Chromatin Remodeling in Cancer and Aging

The Laboratory of Molecular Growth Regulation, National Institutes of Child Health and Human Development (NICHD), National Institutes of Health (NIH), is seeking applications for a Postdoctoral position to work on the roles of higher-order chromatin remodeling in cancer and aging. Applicants must have a Ph.D. or M.D. and less than five years of postdoctoral experience, as well as demonstrated experience in molecular biology and a strong interest in epigenetic silencing, heterochromatin, and related areas of study. Fluency in English is essential.

The positions are available October 1, 2001. Interested applicants should submit curriculum vitae, bibliography, a cover letter with a brief description of research experience and interests, and the names of three references with telephone numbers and e-mail addresses to:

Dr. Bruce Howard Laboratory of Molecular Growth Regulation National Institute of Child Health and Human Development National Institutes of Health 6 Center Drive MSC-2753 Building 6, Room 416 Bethesda, MD 20892-2753 Telephone: 301-496-9038; FAX: 301-480-9353 E-mail: howard@helix.nih.gov.

NIH is an Equal Opportunity Employer.

POSTDOCTORAL POSITIONS Laboratory of Neurosciences Synaptic Plasticity Section and Stem Cell Biology Section National Institute on Aging

The Laboratory of Neurosciences within the Intramural Research Program of the National Institute on Aging (NIA) in Baltimore, Maryland, invites applications for Postdoctoral positions. The Fellow will work on projects aimed at understanding the cellular and molecular mechanisms responsible for synaptic dysfunction and degeneration in Alzheimer's disease and related disorders. Analyses of synaptic function will be performed in brain slice preparations from various mouse models of neurodegenerative disorders. Experience with slice physiology methods including extracellular and intracellular recording is required. Experience using imaging, immunohistological, and/or molecular biology methods would be a plus.

Applicants must have a Doctoral degree with no more than five years of postdoctoral experience and should send curriculum vitae along with three letters of recommendation to: Mark Mattson, Chief, c/o Human Resources Staff Office, Box 26, National Institute of Aging, 5600 Nathan Shock Drive, Baltimore, MD 21224-6823, Attention: NIH01-005. Deadline: March 30, 2001. Website: www.grc. nia.nih.gov/Branches/Ins/httl/httl/htdocs/ index.html.

NIH is an Equal Opportunity Employer.

POSTDOCTORAL POSITION in biochemistry to study molecular mechanisms of cataract induction by inhibitors of the cholesterol biosynthesis pathway. We are interested in candidates with a broad biochemical background. The position will involve investigations in lipid biochemistry, cell biology, and some molecular biology. Ph.D. required. The position is available starting September 2001 and will provide a salary of \$28,000 to \$32,000 (depending on experience) plus benefits. Send curriculum vitae, statement of research experience, and names and addresses (city and e-mail) of three references to: Dr. Richard Cenedella, Department of Biochemistry, Kirksville College of Osteopathic Medicine, Kirksville, Mo 63501. Telephone: 660-626-2347; FAX: 660-626-2981; e-mail: rcenedella@kcom.edu. Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

FACULTY POSITION IN NEUROPHYSIOLOGY Yale University School of Medicine Department of Cellular and Molecular Physiology

Applicants are solicited for a faculty position at the junior or senior level in the Department of Cellular and Molecular Physiology, Yale University School of Medicine. Candidates must hold a Ph.D., M.D., or equivalent degree. The candidate's research interest should be in the general area of cellular and molecular physiology. Our search will emphasize cellular or systems neurophysiology. Excellent opportunities are available for collaborative research as well as for graduate and medical student teaching.

Complete curriculum vitae, a statement of research interests and goals, and three letters of reference should be sent by May 1, 2001, to:

Dr. Steven C. Hebert, Chair Department of Cellular and Molecular Physiology Yale University School of Medicine 333 Cedar Street P.O. Box 3333 New Haven, CT 06510

Yale University is an Affirmative Action/Equal Opportunity Employer. Qualified women and minority group members are encouraged to apply.

POSTDOCTORAL POSITION Innate Immune Mechanisms in Syphilis and Lyme Disease

A Postdoctoral position is available to study human and mouse immune responses to Borrelia burgdorferi and *Treponema pallidum*, the agents of Lyme disease and syphilis. The focus of the project shall be to use molecular and cellular approaches to study the interactions between innate immunity and spirochetal lipoproteins. Examining the interactions between spirochetes/spirochetal lipoproteins and Toll-like receptors is a major focus of the project. Proficiency with tissue culture, flow cytometry, and both prokaryotic and eukarytotic recombinant DNA techniques is extremely desirable. Position includes salary (negotiable), fringe benefits, and the opportunity to work in a rapidly expanding microbial pathogenesis center located deep in the heart of Lyme disease country. Send two copies of curriculum vitae and the names, addresses, telephone numbers, and e-mail addresses of three references to: Dr. Justin Radolf, Center for Microbial Pathogenesis, School of Medicine, University of Connecticut Health Center, 263 Farmington Avenue, MC 3710, Farmington, CT 06030.

POSTDOCTORAL POSITION available to study transcriptional regulation in mammalian cells and their associated viruses. Our goal is to define the roles of human general cofactors (TFIID, PC4, and Mediator) and RNA polymerase II holoenzyme in transcribing naked DNA and chromatin (see EMBOJ. 17:4478; JBC 274:23480). We are also interested in hormone receptor functions and transcriptional control in human papillomaviruses (see MCB 20:113). Interested candidates should submit applications including curriculum vitae, copies of publications, statement of research interests, and names of three references to: Dr. Cheng-Ming Chiang, Department of Biochemistry, Case Western Reserve University, 10900 Euclid Avenue, Cleveland, OH 44106-4935. E-mail: c-chiang@biochemistry.cwru.edu; website: http://www.cwru.edu/med/biochem-sitry/faculty/chiang.html.

POSTDOCTORAL POSITION. Areas of study are aminergic modulation of pain behavior and *in vivo* and *in vivo* studies of the cellular and molecular mechanisms of Schwann cell entry and survival in the CNS. Experience in techniques such as immunohistochemistry, *in situ* hybridization, Western blot, tissue culture, and behavioral studies is desirable. Applicants should send curriculum vitae and names of three references to: Dr. Luc Jasmin, Neurological Surgery, University of California San Francisco, San Francisco, CA 94143-0112. E-mail: ucpain@itsa.ucsf.edu.

POSITIONS OPEN

UNIVERSITY OF FLORIDA

Outstanding opportunity for a Director of Transplant Nephrology at the rank of ASSISTANT/AS-SOCIATE PROFESSOR/PROFESSOR (tenure track) or a CLINICAL ASSISTANT/CLINICAL ASSOCIATE PROFESSOR/CLINICAL PRO-FESSOR (nontenure) for the Department of Medi-Transplantation. The Shands at the University of Florida Medical Center performs 120 renal transplants per year. The successful applicant will work with a team of transplant Nephrologists and transplantation Surgeons to coordinate the hospital care of kidney transplant and kidney-pancreas transplant patients, pretransplant evaluation, posttransplant outpatient and inpatient medical care, and outreach programs as well as research and clinical trials. Board certified in internal medicine; Board eligible in nephrology; have training and qualifications that satisfy UNOS requirements for renal and pancreas transplant physician.A strong interest in developing clinical transplant research is required. Salary and benefits are commensurate with experience. Recruiting deadline: April 6, 2001. Anticipating starting date: July 1, 2001. Please submit curriculum vitae to: **Stephen L**. Gluck, M.D., Professor and Chief, Department of Medicine, Box 100224 JHMHC, Gainesville, FL 32610. An Equal Opportunity/Affirmative Action Employer.

ANNOUNCEMENTS

BIOINFORMATICS TOOLS FOR COMPARATIVE GENOMICS LBNL/NHLBI: June 11–15, 2001

Designed for Postdoctorals, Medical, and especially Cardiovascular Researchers interested in applying bioinformatics tools to their research. Techniques include database searches, annotation, microarray analysis. No tuition. Room and board provided. For further information, call **Telephone: 510-486-4162**; e-mail: pgaworkshop@lbl.gov. Register before April 20, 2001; website: pga.lbl.gov/workshop.

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