

PRODUCTS & MATERIALS

Gas-Blast Cleaner

Blow-hard O.S. provides strong, sharp blasts of triple-filtered gas to remove dust and dirt particles for fast cleaning of laboratory, computer, and optical equipment including balances, microscopes, cameras, computers, printers, and centrifuge heads. It is available in two ozone-safe formulas. Blow-hard O.S. (difluoroethane) is the economical choice



when complete nonflammability is not required. Blow-hard O.S. extra (tetrafluoroethane) can be used when complete nonflammability is required. Both are supplied with an extension tube for hard-to-reach dust. **Bel-Art Products.** For information call 201-694-0500 or circle 143 on the reader service card.

Imaging, Photometry, and Electrophysiology

CONCORD is an integrated microscope-based system combining platforms for high-speed detection of ion-sensitive optical probes using high-resolution ratiometric imaging and sensitive photon counting, with the potential for complete electrophysiology data acquisition and experiment control. This workstation allows simultaneous or sequential acquisition and analysis of spatial and temporal data from optical probes reporting biological activity of single living cells or tissues. It also facilitates integrated, time-

locked electrophysiological studies from the same cells, which can be recorded simultaneously using patch-clamp techniques. For these studies, CONCORD can also be used to generate voltage or current command protocols for complete experimental control. Comprehensive optical engineering for imaging and photometry allows modular integration around a single epifluorescence microscope. **Olympus.** For information call 800-446-5967 or circle 144 on the reader service card.

Illumination System

The C-75 Chromato-Vue cabinet provides darkroom conditions for viewing and photographing thin-layer chromatography plates and DNA sequencing and fluorescing materials. The cabinet features a wide area of uniform ultraviolet radiation provided by 15-watt shortwave and longwave tubes mounted internally on two sides of the cabinet. An overhead white light illuminates the cabinet interior. A soft rubber viewport offers ample space to accommodate eyeglasses. A special contrast control filter absorbs ultraviolet to allow samples to be viewed with no "blue haze." The C-75 can be used with an optional camera mount and DS-34 Polaroid Instant Camera for photodocumentation. **UVP.** For information call 800-452-6788 or circle 145 on the reader service card.

Freeze Dryer

The FreeZone 4.5 Liter Benchtop Freeze Dryer is for small to moderate sample loads and can be placed on any countertop, bench, or cart. It does not contain any environmentally harmful chlorofluorocarbons or hydrochlorofluorocarbons. A redesigned control panel has touch pad switches for controlling refrigeration, vacuum, and liquid crystal display menu selection. Automatic one-button start-up can be used to initiate the collector cool down and vacuum pull down sequence. The built-in, 10-port drying chamber features

Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and government organizations are featured in this space. Emphasis is given to purpose, chief characteristics, and availability of products and materials. Endorsement by *Science* or AAAS is not implied. Additional information may be obtained from the manufacturers or suppliers named by circling the appropriate number on the Readers' Service Card and placing it in a mailbox. Postage is free.

improved sample valves. **Labconco.** For information call 816-333-8811 or circle 146 on the reader service card.

Red Protein Gel Stain

SYPRO Red protein gel stain is a faster, easier, and more sensitive alternative to Coomassie blue stain for protein detection in electrophoresis gels. Staining can be completed in less than an hour without fixing or destaining. Gels cannot be overstained. Less than 5 ng of protein per band can be detected. **FMC BioProducts.** For information call 800-341-1574 or circle 147 on the reader service card.

Plasmid Prep Kit

The UltraClean Mini Plasmid Prep Kit is based on alkaline lysis with a specially developed neutralizer that turns the sodium dodecyl sulfate precipitate into a tight pellet that does not need to be filtered. The plasmid DNA is then bound directly to a unique silica membrane spin-filter and washed once. Then pure plasmid DNA is recovered in water or tris. No messy silica matrix is used. All reagents are ready to use and all necessary tubes are provided so the user does not need to search for tubes to match the spin-filter. **Mo Bio Laboratories.** For information call 800-606-6246 or circle 148 on the reader service card.

Literature

Glycosylation Analysis of Human Serum Transferrin Glycoforms Using Pellicular Anion-Exchange Chromatography is an application note. **Dionex.** For information call 408-737-0700 or circle 149 on the reader service card.

Antisense Therapeutics focuses on the latest advances in the control and modulation of disease-associated proteins and enzymes at the genetic level using antisense oligonucleotides. The 304-page book discusses the selection of gene targets, synthesis of oligonucleotides, routes of administration, and issues of pharmacokinetics. Current research on anti-viral drugs, cancer treatment, and therapies for genetic disorders are also summarized. **Sigma Chemical.** For information call 800-325-3010 or circle 150 on the reader service card.

1997 INFORMATION FOR CONTRIBUTORS

Science is a weekly, peer-reviewed journal with offices in Washington, DC, and Cambridge, UK, that publishes research in every field of science. Manuscripts should be intelligible to readers in various disciplines and must be brief and clearly written. Competition for space in *Science* is keen, and most papers are returned without in-depth review. Priority is given to papers that reveal novel concepts of interdisciplinary interest. Manuscripts are evaluated and, if accepted, published as promptly as possible.

Some authors choose to fax or e-mail presubmission inquiries, but this is not required.

CATEGORIES OF SIGNED PAPERS

General Articles (five journal pages, on average) review new developments of interdisciplinary significance. They impart what has been firmly established and what are unresolved questions or future directions. Both solicited and unsolicited articles undergo review. They include an abstract, an introduction that outlines the main point, and brief subheadings to indicate the main ideas. A maximum of 50 references is suggested.

Research Articles (five journal pages, on average) are expected to present a major breakthrough. Research articles include an abstract, an introduction, and sections with brief subheadings. A maximum of 40 references is suggested.

Reports (three journal pages) are expected to present important new research results. Reports should include an abstract and an introductory paragraph. A maximum of 30 references is suggested.

Policy Forums (up to two printed pages) present discussions of science policy issues.

Perspectives (up to 1000 words) recent research and the impact of new developments on future investigations and should not primarily discuss the author's own work.

Letters (300 words) discuss material published in *Science* or problems of general interest. All communications to *Science* should include the corresponding author's postal and e-mail addresses and telephone and fax numbers. Letters are not routinely acknowledged and may be edited for reasons of clarity or space. Letter writers are generally not consulted before publication.

Technical Comments (up to 500 words) discuss papers published in *Science* within the previous 6 months. The authors of an original paper are given an opportunity to reply. Comments and replies are reviewed and edited as needed.

Book Reviews are arranged by the editors. Instructions accompany books to be reviewed.

MANUSCRIPT PREPARATION

One page in the journal contains approximately 1000 words and one small figure. Use double-spacing throughout the text, tables, figure legends, and references and notes, and leave margins of at least 2.5 centimeters. Put your name on each page and number the pages, starting with the title page.

Titles and subheadings should be descriptive clauses, not full sentences. The maximum length is 90 characters and spaces for general articles and research articles, and 80 characters and spaces for reports.

Abstracts explain to the general reader why the research was done and why the results should be viewed as important. The abstract should be 50 to 100 words, convey the paper's main point, and outline the results or conclusions.

Text. A brief introduction describing the paper's significance should be intelligible to readers in various disciplines. Technical terms should be defined. All tables and figures should be cited in numerical order.

Figures and tables should be submitted on separate pages from the text. For each figure, submit five high-quality prints, laser prints, or original drawings no larger than 22 by 28 centimeters. On the back of every figure, write the first author's name and the figure number and indicate the correct orientation. Authors are charged \$650 for the first color figure and \$450 for each additional figure. There is an additional charge for color figures in the reprints. Cover illustration suggestions may be included with the manuscript.

Informed consent. Investigations on humans must include a statement indicating that informed consent was obtained after the nature and possible consequences of the studies were explained.

Animal welfare. Authors using experimental animals must include a statement that their care was in accordance with institutional guidelines.

Reproducibility. Evidence that the results are reproducible and the conditions under which

this reproducibility was obtained should be stated.

Permission to reprint illustrations or tables from other publications must be obtained in writing by the author and must include complete citation from the copyright owner (usually the publisher).

Copyright transfer is required from authors of each paper published in *Science*. U.S. government employees sign the section of the form stating exemption from copyright laws.

MANUSCRIPT SELECTION

Papers are assigned by subject to an editor in our offices in Washington, DC, or Cambridge, UK. Most papers are evaluated for their interest and overall suitability by members of the Board of Reviewing Editors (see the Table of Contents for listing). The editors at *Science* use this advice in selecting papers for in-depth review. Authors of papers that are not highly rated are notified promptly; in most cases, we will return only two copies of the figures and no manuscript copies.

Papers are reviewed in-depth by two or more outside referees. It is the policy of *Science* that reviewers are kept anonymous. Manuscripts are evaluated in terms of their technical merit as well as their merit in relation to other papers that are or have been considered. In selecting papers for publication, the editors give preference to those of novelty and general significance. Accepted papers are edited to improve accuracy and clarity and to shorten, if necessary.

Papers cannot be resubmitted over a disagreement on interest or relative merit. If a paper was rejected on the basis of serious reviewer error, resubmission will be considered.

CONDITIONS OF ACCEPTANCE

When a paper is accepted for publication in *Science*, it is understood that

- Any materials and methods necessary to verify the conclusions of the experiments reported must be made available to other investigators under appropriate conditions.
- Archival data sets (such as sequence and structural data) should be deposited with the appropriate data bank and the identifier code should be sent to *Science* for inclusion in the published manuscript (coordinates should be released no later than 1 year after publication).
- Authors agree to transfer copyright of the paper (including electronic rights) to *Science*.
- The paper will remain a privileged document and will not be released to the press or the public before publication. If there is a need in exceptional cases to publicize data in advance of publication, the AAAS Office of Communications (202-326-6440) must be consulted.

PRINTING AND PUBLICATION

Proofs and reprints. Proofs and an order blank for reprints are sent to the authors. All corrections should be marked on the proof.

Scheduling. Papers are scheduled for publication after *Science* has received corrected proofs. Papers that present problems in layout or with cover pictures, or that exceed the length limits, may be subject to delay or further editing.

Contact Information

PHONE: (1)-202-326-6501 (USA); (44)-1223-302067 (UK)

FAXES: (1)-202-289-7562 (USA); (44)-1223-302068 (UK)

INTERNET:

science_editors@aaas.org for general editorial queries

science_letters@aaas.org for letters to the editor

science_reviews@aaas.org to return manuscript reviews

science@science-int.co.uk for the Europe office

Science Online can be found at <http://www.sciencemag.org> on the World Wide Web, where a summary of this information is available in different languages.

SCIENCE STYLE SHEET

Acknowledgments, including funding information, should be gathered into a brief statement at the end of the references and notes and will be edited to conform to *Science* style.

Equations and formulas should be typed with quadruple-spacing if they are to be set off from the text. Define all symbols and number all equations.

Figures. Most figures will be printed at a width of 5.9 cm (2.3 inches or 1 column) or 12.2 cm (4.8 inches or 2 columns). Some illustrations (for example, bar graphs, simple line graphs, and gels) may be reduced to a smaller width. Symbols and lettering should be large enough to be legible after reduction. Recommended symbols and their sizes after reduction:

● ○ □ ▲ △

Composite figures should be labeled **A, B, C, ...**. If mounting is necessary, use cardboard.

Legends should be double-spaced in numerical order on a separate page. No single legend should be longer than one page. Nomenclature, abbreviations, symbols, and units used in a figure should match those used in the text. The figure

title should be given as the first line of the legend.

Line drawings should be labeled on the ordinate and abscissa with the parameter or variable being measured, the units of measure, and the scale. Scales with large or small numbers should be presented as powers of 10. Definitions of symbols should usually appear in the figure legend and not in the figure. Simple symbols (circles, squares, triangles, and diamonds, solid or open) reduce well.

Avoid the use of light lines and screen shading. Instead, use black-and-white, hatched and cross-hatched designs for emphasis. Use heavy lines or boxes for emphasizing or marking off areas of the figure. Authors who prefer to submit their figures electronically may supply images in the following formats: TIFF, GIF, PICT, or PICT2. (After acceptance of a paper, the author will receive more specific information about electronic artwork.)

Halftones, such as electron micrographs, should be submitted as high-quality prints or originals (do not send irreplaceable artwork). If possible, use scale bars in place of, or in addition to, magni-

fications. In gels, the lanes should be numbered and identified by number in the figure legend.

For **color art**, please provide a positive slide, if possible, and a print or laser proof. Indicate positioning, lettering, and cropping limits on the print. For composite figures, send the original composite board rather than a print if the quality of the original is much better than that of the print. Do not send irreplaceable artwork.

Lettering in Helvetica font is preferable for figures. Use boldface type for axis labels and for the labels **A, B, C, ...** in composite figures; use italic type only as it would be used in the text (for example, for variables and genes). The first letter of each entry should be uppercase; otherwise, use uppercase letters as they would be used in the text (for example, for acronyms). Avoid wide variation in type size within a single figure. In the printed version of the figure, letters should be about 7 points (2 mm) high.

Sequences may be reduced considerably, so the typeface in the original should be clear. There should be about 130 characters and spaces per line for a sequence occupying the full width of the printed page and about 84 characters and spaces per line for a sequence occupying two columns.

References and notes are numbered in the order in which they are cited, first through the text and then through the table and figure legends. List a reference only one time. References that are always cited together may be grouped under a single number. Any references to unpublished data should be given a number in the text and placed, in correct sequence, in the references and notes. Use conventional abbreviations for well-known journals; provide complete titles for other journals. Do not use *op. cit.* See our web site for examples of reference style.

Symbols, abbreviations, and acronyms should be defined the first time they are used.

Tables should supplement, not duplicate, the text. They should be numbered in the order of their citation in the text. Each table should be generated on a separate page with its legend double-spaced above the table. The first sentence of the legend should be a brief descriptive title. Three horizontal lines are used in tables: at the top and bottom of the table and between the column headings and the table body. Vertical lines are not used between the columns.

Every vertical column should have a heading consisting of a title with the unit of measure in parentheses. Units should not change within a column. Centered headings of the body of the table can be used to break the entries into groups. (See the section on lettering for use of italic type and uppercase letters.)

Footnotes should contain information relevant to specific entries or parts of the table. The sequence of symbols for footnotes is

^{*}, [†], [‡], [§], ^{||}, ¶, #, **, ^{††}, ^{‡‡},

Units of measure are given in metric. If measurements were made in English units, give metric equivalents.

Important Submission Information

Manuscripts should be addressed to the Editor-in-Chief, *Science*, 1200 New York Ave., NW, Washington, DC 20005, USA, or to the Senior Editor, Europe Office, at Thomas House, 14 George IV St., Cambridge CB2 1HH, UK.

Submit five copies and a letter giving:

- names, telephone and fax numbers, postal and e-mail addresses of all authors, title of the paper, and a statement of its main point.
- a statement that none of the material has been published or is under consideration for publication elsewhere. Any paper or component of a paper that has been publicly distributed on the Internet may be considered previously published material. We reserve the right to determine if such an Internet posting compromises the originality of the paper as a submission to *Science*.
- names, postal and e-mail addresses, telephone and fax numbers, and fields of interest of four to six persons outside your institution who are qualified to referee the paper.
- any information needed to ensure a fair review process and to avoid potential conflicts of interest.
- names of colleagues who have reviewed the paper.
- number of words (including text, references, figure and table legends) in the manuscript.

Also include with your manuscript:

- five copies of any paper of yours that is in press or under consideration elsewhere and includes information that would be helpful in evaluating the work submitted to *Science*.
- written permission from any author whose work is cited as a personal communication, unpublished work, or work in press but is not an author of your manuscript.
- for manuscripts based on crystallographic data, two disk copies of the coordinates.
- information about the authors' professional and financial affiliations that may be perceived to have biased the presentation.

By submitting a manuscript, the corresponding author accepts the responsibility that all authors have agreed to be so listed and have seen and approved the manuscript, its content, and its submission to *Science*. Any changes in author names or in their order of listing that arise during the revision of a manuscript must also be approved in writing by all the original authors.

In most cases, *Science* will consider a manuscript for publication only if its main findings have not been reported elsewhere, including in the mass media. However, authors are permitted to present their data at open meetings but are asked to refrain from overtly seeking media attention. Specifically, authors are asked to decline participation in news briefings or coverage in press releases and to refrain from giving interviews or copies of their data or paper to reporters unless the reporters agree to abide by our press embargo. If a reporter attends the author's session at a meeting and writes a story based on the presentation, such coverage will not affect *Science's* consideration of the author's paper.

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Call for rate and deadline information on display classified advertisements.

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Telephone: (202) 326-6541
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For **GLOBAL CAREER OPPORTUNITY** display advertisements, see pages 119 and 121.

LINE CLASSIFIED ADVERTISEMENTS

How to Submit a Line Classified Ad:

Submit double-spaced typewritten copy. Do not include any abbreviations. SCIENCE will edit and typeset ads according to SCIENCE guidelines. Include billing information and desired publication date. Available categories: Positions Open, Meetings, Announcements, Courses and Training, Services. SCIENCE cannot provide proofs of typeset line ads. Line advertisements are not commissionable.

Estimates: SCIENCE will provide a cost estimate for line ads. This is an approximate cost only. Allow for variation between estimated lines and actual typeset lines and resulting final cost. Purchase orders must allow for some degree of flexibility and/or adjustment.

For line advertising deadlines, call Eric Banks. Telephone: (202) 326-6555; FAX: (202) 289-6742. Email: science_classifieds@aaas.org

Credit Cards: SCIENCE accepts American Express, MasterCard and VISA. Discount does not apply to credit cards.

Cancellations: Deadline for cancellation is Tuesday, 10 days prior to issue date.

Discounts: A 3% cash discount is granted to all prepaid ads.

Ads from Outside the U.S.: A discount of \$30 will be offered to advertisers making payment in U.S. dollars by checks drawn on U.S. banks. Contact Debbie Cummings. Telephone: +44(0) 1223 302067; FAX: +44(0) 1223 576208.

SCIENCE Professional Network: Unless otherwise instructed, every classified advertisement submitted for publication in SCIENCE is automatically posted on SCIENCE's on-line classified advertising service, SCIENCE Professional Network, at no additional charge.

<http://www.sciencemag.org>

Mail, FAX or Email materials to:

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1200 New York Avenue, N.W., Room 911
Washington, DC 20005
FAX: 202-289-6742

Email: science_classifieds@aaas.org (please include your telephone number in Email)

SCIENCE reserves the right, at its discretion, to edit or decline to publish advertisements submitted to it.

POSITIONS OPEN

SUPERVISORY RESEARCH BIOLOGIST OR MICROBIOLOGIST

The Scientific Resources Program, National Center for Infectious Diseases, Centers for Disease Control and Prevention (CDC) invites applications for the position of **CHIEF, Biological Products Branch**. This branch is responsible for 1) preparing, procuring, and distributing cell cultures, cell culture media, microbiological media, buffers, stains, and various other biological products to CDC scientists for research and reference/diagnostic activities; 2) maintaining a bank of cell lines; 3) collaborating with CDC laboratory personnel in the development of new and improved biological products; 4) maintaining a Quality Control and Assurance program; 5) conducting collaborative research with infectious disease laboratories and independent research on problems that involve mammalian cell cultures and reference and diagnostic reagent production; and 6) providing consultation to CDC programs and extramural organizations. Basic requirements include a degree in biology and/or microbiology, with an emphasis in cell biology. An advanced degree and experience as a principal investigator in cell biology, immunology, and/or microbiology is desirable. *Candidates must be U.S. citizens.* Civil Service salary range for the position is \$61,943 to \$80,528 per annum. Salary and benefits are commensurate with education and experience. Interested individuals are invited to send a curriculum vitae with publications to: **Ms. Janie Oddy, CDC-HRMO, 4770 Buford Highway, Mailstop K15, Atlanta, GA 30341-3724.** CDC is an Equal Opportunity Employer and provides a smoke-free environment.

J. C. BOILEAU GRANT CHAIR IN ONCOLOGIC PATHOLOGY University of Toronto at the Ontario Cancer Institute/Princess Margaret Hospital

Applications are requested for a position of a clinician-scientist in the Department of Pathology, University of Toronto, to provide academic leadership in oncologic pathology at the Ontario Cancer Institute/Princess Margaret Hospital. The incumbent will occupy the J. C. Boileau Grant Chair in Oncologic Pathology.

The incumbent will have an active research program in oncologic pathology and be involved in teaching undergraduate, graduate, and postgraduate students at the University of Toronto. The incumbent is expected to have a well-funded, independent research program as well as to interact with other investigators and groups in joint projects. The individual will qualify for **SENIOR SCIENTIST** status at the Ontario Cancer Institute. The incumbent will also spend time in clinical diagnostic oncologic pathology. The successful candidate should be at least at the level of Associate Professor or equivalent. Deadline for applications is March 31, 1997. Applications should be sent to: **Dr. Gerald J. Goldenberg, Director, Interdepartmental Division of Oncology, University of Toronto, Room 2113, Medical Sciences Building, 1 King's College Circle, Toronto, Ontario M5S 1A8 Canada.**

The University of Toronto encourages applications from qualified women and men, members of visible minorities, aboriginal peoples and persons with disabilities. In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens or permanent residents.

DEPARTMENT OF PATHOLOGY The Hebrew University—Hadassah Medical School Jerusalem, Israel

The Department of Pathology calls for applications for a **TENURE-TRACK** position that will be available from the academic year 1997-98.

Ph.D. and/or M.D. degrees and postdoctoral training are required. Excellence in research and teaching experience will be of prime importance for decisions of the search committee. Candidates are expected to develop independent research and to take part in teaching commitments of the Department of Pathology.

Applications including curriculum vitae, list of publications, three to five selected reprints, a research plan, and three letters of recommendation should arrive at the **Dean's Office, P.O.B. 12272, Jerusalem 91120, Israel** no later than March 31, 1997.

POSITIONS OPEN

DEPARTMENT OF PEDIATRICS Stanford University School of Medicine

FACULTY APPOINTMENT (Molecular Genetics)—The Department of Pediatrics at Stanford University School of Medicine seeks applicants or nominations of candidates for a faculty appointment. The appointment will be in the University Line Professoriate of the School of Medicine at the Assistant or Associate Professor level.

The candidate should have a basic research interest in molecular genetics relevant to human disease, including areas such as the molecular basis of inherited disorders, gene therapies, or genetic aspects of malignancy. Candidates should have Board certification in Pediatrics and further training in any of the pediatric subspecialties. It is our strategy to recruit the most qualified investigator in molecular genetics to be part of this academic program, independent of clinical expertise. Candidates should be well-trained in basic science with the potential to compete for NIH level grant support.

This faculty member will join an active program in basic science and translational research in Pediatrics and become a member of our NIH-funded Child Health Research Center. The goal of the Child Health Research Center is the application of cellular, molecular, and genetic methods to unsolved problems in child health. This program is highly interactive with other clinical and basic science programs at Stanford University.

Interested candidates should send a curriculum vitae to: **Ann Arvin, M.D., Associate Chair for Academic Affairs, Department of Pediatrics, Room G-312, Stanford University School of Medicine, Stanford, CA 94305-5119.** Stanford University is committed to increasing representation of women and members of minority groups on its faculty and particularly encourages applications from such candidates.

TWO TEMPORARY POSITIONS

Two full-time temporary one-year positions in the Wildlife Department for the 1997-98 academic year: a) **TERRESTRIAL WILDLIFE ECOLOGIST/CONSERVATION BIOLOGIST**, and b) **QUANTITATIVE WILDLIFE BIOLOGIST** with expertise in population dynamics. Both require Ph.D. or near completion with demonstrated expertise in wildlife biology and management, and/or principles and techniques of wildlife management. Terrestrial/Conservation Biologist position also requires demonstrated expertise in terrestrial vertebrate ecology and conservation biology; courses taught may include upland habitats, management of upland game, conservation biology, or other assigned courses. Quantitative Biologist position requires additional demonstrated expertise in wildlife population dynamics, with expertise in experimental design and ANOVA desirable; courses taught may include wildlife population ecology, experimental design and ANOVA, wildlife techniques, or other assigned courses. Successful college teaching preferred. Salary is \$33,108 to \$36,300. Submit curriculum vitae, transcripts of academic work, three letters of recommendation, and any other pertinent materials to: **Richard G. Botzler, Department of Wildlife, Humboldt State University, Arcata, CA 95521-8299. Telephone: 707-826-3953.** Closing date is 28 February 1997, or until position is filled. *Humboldt State is an Equal Opportunity/Affirmative Action/Title IX Employer.*

PLANT POPULATION BIOLOGIST

The Department of Biology of Pomona College anticipates a **TENURE-TRACK PROFESSORSHIP** at the entry assistant or advanced assistant level to begin in fall 1997. Applicants should have broad backgrounds in biology and postdoctoral experience. The appointee will teach an introductory lab course in ecology and evolution each year and, in alternate years, an upper-level lab course in evolution and another advanced course to complement our curriculum. The appointee will also establish an active research program involving undergraduates for which space and start-up funds are available. The successful candidate will demonstrate a commitment to teaching an ethnically diverse student body in a liberal arts and sciences setting. Send curriculum vitae, statement of research interests, statement of teaching philosophy and interests, and three letters of recommendation to: **Plant Population Biology Search, Department of Biology, Pomona College, Claremont, CA 91711. Telephone: 909-607-2993.** For full consideration, applications should be received by February 7, 1997, but will be accepted until the positions are filled.

Pomona College is an Affirmative Action/Equal Opportunity Employer. We particularly encourage applications from members of groups under-represented in the sciences.



Yale UNIVERSITY

Announces the creation of a
**DEPARTMENT OF
ECOLOGY &
EVOLUTIONARY
BIOLOGY**

in its Faculty of Arts & Sciences

The new department, expected to grow substantially in the years to come, augments Yale's long-standing institutional strengths in the:

**PEABODY MUSEUM OF
NATURAL HISTORY**

A major research museum housing over 11 million specimens

**SCHOOL OF FORESTRY &
ENVIRONMENTAL STUDIES**

The nation's oldest forestry school which, while retaining its original mission, serves today as a meeting ground for environmental sciences and policy and a training ground for environmental managers

**FAS DEPARTMENTS OF
ANTHROPOLOGY,
GEOLOGY & GEOPHYSICS,
and BIOLOGY**

With groups in primatology; global climate change and paleontology; and molecular, cellular, developmental, neuro-biology and genetics, respectively

**INSTITUTE FOR
BIOSPHERIC STUDIES**

An interdisciplinary research and education unit, sponsoring centers for Computational Ecology, Earth Observation, Ecosave and Global Change and administering the newly endowed Dorothy and Gaylord Donnelly Postdoctoral Fellows in Biodiversity

The new department will be housed in recently renovated facilities in **OSBORN MEMORIAL LABORATORY** and will join groups from the above-listed units in a new \$30 million **ENVIRONMENTAL SCIENCE FACILITY**. This new facility will provide laboratory space and collection-based teaching facilities for anticipated new faculty recruitments.

Yale University is seeking an outstanding scholar and educator to **CHAIR** the new unit. We are seeking experienced candidates studying whole organisms or ecological systems. The President and Provost invite nominations of suitable candidates, forwarded to:

**Provost Allison Richard
EEB Chair Search
Yale University,
New Haven, CT 06520-8236**

Yale University is an equal opportunity/affirmative action employer. Nominations of minority, women and candidates with disabilities are especially welcome.

BROOKHAVEN NATIONAL LABORATORY

**Center for Environmental
Science and Technology**

Brookhaven
National
Laboratory is

seeking a dynamic leader with a broad background in Environmental Science or a related field to become Head of a new Center for Environmental Science and Technology. The Center Head will be responsible for coordinating and expanding the Laboratory's research programs in global change, ecosystem response, environmental monitoring and remediation, waste management, and environmentally-related human health effects. Brookhaven carries out fundamental and applied research in high energy and nuclear physics, materials science, biology, chemistry, medicine, and engineering, as well as research and development for new technologies in environmental remediation and waste management. As one of the five multipurpose National Laboratories, it operates major research facilities such as the Alternating Gradient Synchrotron, the National Synchrotron Light Source, and the High Flux Beam Reactor as well as the Protein Data Bank, the Brookhaven Center for Imaging and Neuroscience, the National Nuclear Data Center, and facilities for electron microscopy, pulse radiolysis, magnetic resonance imaging, positron emission tomography, and whole body counting. Brookhaven plays a critical role in the FACE facility (Free Air Carbon Dioxide Enrichment) at the Duke Forest in Durham, NC, in oceanographic science and atmospheric chemistry and in environmental remediation and waste treatment. The successful candidate must have a record of significant achievement in environmental sciences as well as appropriate administrative experience. Brookhaven is funded primarily by the U.S. Department of Energy and is managed by Associated Universities, Inc. Please send applications or nominations for this position to James W. Davenport, Chair, Search Committee, Department of Applied Science, Brookhaven National Laboratory, Upton, NY 11973, email: daven@bnl.gov. Applications should include a CV, statement of research interests, and the names and addresses of three or more references. For further information visit Brookhaven's web site <http://www.bnl.gov>. BNL is an equal opportunity employer committed to workplace diversity.



**BROOKHAVEN
NATIONAL LABORATORY
ASSOCIATED UNIVERSITIES, INC.**

*at the center of science,
beside the sea*



STRUCTURAL BIOLOGIST

The University of Calgary Department of Anatomy invites applications for a full-time academic position as a structural/cell biologist. This position offers an excellent opportunity for independent and collaborative research with other structural biologists employing technologies such as magnetic resonance spectroscopy and x-ray diffraction in the university-wide structural biology group, and for access to the University's Microscopy and Imaging Facility, comprising state-of-the-art electron and computer-based light microscopies. Duties will also include undergraduate teaching and graduate student supervision.

Qualifications include a PhD or equivalent, at least two years of postdoctoral experience, and a proven record of excellence in a research program which includes the development of advanced imaging techniques. Researchers particularly encouraged to apply are those with interests at the cellular or molecular level in an area complementing activities of a Faculty of Medicine research group such as Cancer Biology, Molecular & Developmental Biology, Joint Injury & Arthritis, etc. More information is available at <http://www.ucalgary.ca/~resoff/index.html>

The selected candidate must compete successfully for salary and establishment grant support from the Alberta Heritage Foundation for Medical Research and/or the Medical Research Council, and will have 75% of time protected for research.

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. The University of Calgary is committed to Employment Equity.

Please submit a curriculum vitae and statement of research and goals, and arrange for three letters of reference to be sent directly, by February 15, 1997, to:

Dr. D. Bazett-Jones
Department of Anatomy
The University of Calgary
3330 Hospital Drive N.W.
Calgary, Alberta, Canada T2N 4N1



THE UNIVERSITY OF
CALGARY

www.ucalgary.ca

UNIVERSITY of CALIFORNIA, BERKELEY



The Department of Psychology invites applications for a tenure-track assistant professor position beginning July 1, 1997, in biological psychology with a research emphasis in neural plasticity using animal models. Applications for the position must be postmarked by February 18, 1997, and are to include a curriculum vitae and selected reprints sent to: Biological Psychology Search Committee, Department of Psychology, 3210 Tolman Hall, University of California, Berkeley, CA 94720-1650. Candidates must also arrange to have at least three letters of recommendation sent to the same address. Applications postmarked after the deadline will not be considered. *The University of California is an Equal Opportunity/Affirmative Action Employer.*

Director, Joint Institute for Food Safety and Applied Nutrition

The Joint Institute of Food Safety and Applied Nutrition (JIFSAN) is a cooperative venture of the Federal Food and Drug Administration (FDA) and the University of Maryland at College Park (UMCP). JIFSAN brings together FDA's expertise and responsibilities in policy, regulation, and research with the broad spectrum of research and educational programs of the University. This intellectual partnership will provide the scientific basis to ensure a safe and wholesome food supply as well as the infrastructure for national food safety programs and international food standards.

The Director of JIFSAN will work with UMCP and FDA to develop collaborative research and education programs, as well as joint research facilities. These programs will include substantial participation by other organizations, both public and private. The responsibility of the Director will be to build an internationally recognized center of excellence in food safety and applied nutrition, including development and implementation of a strategic plan for programs, oversight, and extramural resource acquisition. Among the major efforts of JIFSAN will be the development of a cross-cutting program in risk analysis associated with food safety issues, developing strategies to reduce the incidence of foodborne diseases, and furthering the nutritional quality of food supply. The Director will be the primary representative of JIFSAN and will report to an Executive Committee from FDA and UMCP. The duties will include an active role in the recruitment of research staff and in expanding cooperative research and education programs.

The Director will be a tenured professor in an academic department at UMCP, with appropriate responsibilities in research and teaching as well as administration. The preferred academic disciplines of the Director are chemistry, biochemistry, nutrition, microbiology, toxicology, veterinary medicine, or food science.

Candidates must have an earned doctorate and have internationally recognized research and professional accomplishments. Experience in the development and administration of major multidisciplinary research and/or educational programs is highly desirable. Candidates should send a letter of application accompanied by a curriculum vitae to the address below. For best consideration, completed applications should be received by February 15, 1997. The earliest anticipated starting date for this position is July 1, 1997. Applications should be sent to **JIFSAN Director Search Committee, Room 1118 Symons Hall, University of Maryland, College Park, MD 20742-5815**. Additional information is available on the WWW at [HTTP://www.life.umd.edu/positions](http://www.life.umd.edu/positions)

The University of Maryland is an Affirmative Action/Equal Opportunity Employer. Women and minority candidates are encouraged to apply.



Texas A&M University Associate Vice President for Research

Texas A&M University is accepting applications for the position of Associate Vice President for Research.

General Responsibilities

The Associate Vice President will serve as an advocate for research and scholarly activity and will participate in policy formation and in strategic planning for research at Texas A&M University. The position provides leadership by: (1) developing and organizing collaborative research initiatives; (2) assisting in the identification of funding for such initiatives; (3) representing Texas A&M University at university and professional meetings; (4) participating in state and national organizations; and (5) promoting the advancement of research programs that enhance economic development and quality of life in the state. Other responsibilities include the administration of organized research units, institutional grants programs and research support facilities.

Qualifications

Applicant must be eligible to be a tenured faculty member at Texas A&M University with extensive, successful experience as a principal investigator on research or scholarly projects. An earned doctorate with graduate-level teaching/advising experience and a record of scholarly research-related administrative activities is required. Strong administrative, interpersonal and leadership skills, as well as high ethical standards and a commitment to excellence required.

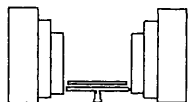
Applications

For consideration, please submit a letter of interest (or nomination) and a curriculum vita to: **Assoc. V. P. for Research Search Committee, 312 Administration Building, Texas A&M University, College Station, TX 77843-1112**, by February 15, 1996. Position open until filled. (The address of the Research and Graduate Studies web site is: <http://www.tamu.edu/researchandgradstudies/>.)

Texas A&M University is an affirmative action equal opportunity employer committed to diversity.

**American Red Cross
and
George Washington University**

Faculty Position: Biochemistry department seeks a Ph.D. with productive postdoctoral experience and outstanding potential to (1) establish an independent basic research program that complements existing departmental programs in the structure, interactions, and function of blood and matrix macromolecules and their receptors, including integrins and members of the LDL receptor family, (2) serve as mentor to graduate students through a program with nearby George Washington University, and (3) attract outside funding after an initial period of support of 2-3 years. This is a superb opportunity for serious candidates. Please send a C.V., a concise research plan, and names of 3 references by Feb. 14 to: **Biochemistry Search Committee, J. Holland Laboratory, American Red Cross, Rockville, MD 20855.**



THE SALK INSTITUTE

**TWO POSTDOCTORIAL
POSITIONS AVAILABLE AT
THE SALK INSTITUTE FOR
BIOLOGICAL STUDIES.**

Applicants must have a Ph.D. or M.D. and a working knowledge of in vivo procedures in laboratory rodents and basic molecular biology. One of these positions is supported by a training grant which requires that the fellow be a U.S. citizen or permanent resident. Please send a curriculum vitae, including citizenship status; two letters of recommendation and a one-to three page summary of research interests to:

**Dr. Catherine Rivier,
The Salk Institute,
Peptide Biology Laboratory,
10010 N. Torrey Pines Road,
La Jolla, CA 92037.**

THE SALK INSTITUTE IS AN EQUAL
OPPORTUNITY EMPLOYER.

DEPARTMENT OF BIOLOGICAL SCIENCES

Faculty Position in Structural Biology

The Department of Biological Sciences of The University of Calgary invites applications for a full-time academic position at the Assistant Professor level (salary range \$40,238-\$57,266).

This position is the result of a joint initiative with the Alberta Heritage Foundation for Medical Research (AHFMR) in which funds for the purchase of major equipment, including X-ray generator and area detector and the development of laboratory space have become available. Applicants should have a strong background (Ph.D. degree and at least two years of postdoctoral experience) in protein crystallography, a record of productive high quality research and a commitment to excellence in teaching at both the undergraduate and graduate levels. The selected applicant must compete successfully for salary and grant support from external agencies such as AHFMR and/or the Medical Research Council of Canada.

A complete application package should include a curriculum vitae including an e-mail address, a concise outline of research directions and goals, copies of not more than three representative publications, and a statement of teaching interests and philosophy. Candidates should arrange to have three letters of reference sent to the address below. The closing date for receipt of applications and reference letters for this position is April 1, 1997. Application packages should be sent to address below.

Faculty Positions in Biochemistry

The Department of Biological Sciences of the University of Calgary invites applications for two full-time academic positions, as follows: Assistant Professor (Code AP), term specific five-year appointment (salary range \$40,238-\$57,266); Instructor II (Code IP), term specific four-year appointment (salary range \$40,238-\$57,266). Both positions are available July 1st, 1997.

The Assistant Professor position is open to applicants with a strong background (Ph.D. degree and at least two years of postdoctoral experience) in any competitive area of biochemistry. The successful candidate will be expected to establish an active, externally-funded program of conceptually motivated research and to participate in the teaching of biochemistry at both the undergraduate and graduate levels.

The Instructor II position is open to applicants with a strong background (Ph.D. degree and postdoctoral experience) and a desire to pursue a teaching-intensive career path focussed at the undergraduate level. Major contributions towards introductory biochemistry and biophysics courses, and significant contributions to higher level courses are expected of the successful candidate.

One of the two successful applicants will assume responsibility for teaching and developing an undergraduate advanced techniques course (currently focussed on methods for gene cloning and protein purification). Applicants should outline their background and skills pertinent to this role.

A complete application package should include: identification of the position of interest by reference to the appropriate position code, a curriculum vitae including an e-mail address, a concise outline of research directions and goals, copies of not more than three representative publications, and a statement of teaching interests and philosophy. Candidates should arrange to have three letters of reference sent to the address below for each application. Applicants who wish to be considered for both positions must send separate application packages. The closing date for receipt of applications and reference letters for these positions is March 15, 1997. Application packages should be sent to:

**Dr. A.P. Russell, Head
Department of Biological Sciences
The University of Calgary
2500 University Dr. N.W.
Calgary, Alberta, Canada T2N 1N4
Facsimile: (403) 289-9311**

In accordance with Canadian Immigration requirements priority will be given to Canadian citizens and permanent residents of Canada. The University of Calgary is committed to Employment Equity.



**THE UNIVERSITY OF
CALGARY**

www.ucalgary.ca

POSITIONS OPEN

UNIVERSITY OF ROCHESTER SCHOOL OF MEDICINE AND DENTISTRY Chair, Department of Biochemistry and Biophysics

The University of Rochester seeks candidates for the **CHAIR** of the Department of Biochemistry and Biophysics. The successful candidate will have a strong national and international reputation in research, demonstrated leadership in administrative activities, a commitment to academic excellence, and an interest in professional medical education and in undergraduate and graduate education.

The Trustees of the University of Rochester have recently approved a Strategic Plan for the University of Rochester Medical Center that includes a commitment to existing departments as well as to significant growth in the interdisciplinary areas of aging and development, cancer, and vaccine biology and immunology. Other areas of strength in the Medical Center include the neural sciences, environmental medicine, and oral biology. The programs in the Medical Center enjoy productive interactions with the Departments of Biology and of Chemistry in The College of the University of Rochester.

Nominations, along with a curriculum vitae, should be sent to: **Dr. M. W. Anders, Chair, Search Committee, Department of Pharmacology and Physiology, University of Rochester Medical Center, 601 Elmwood Avenue, Box 711, Rochester, NY 14642. Email: bbsc@pharmacol.rochester.edu.**

The University of Rochester is an Affirmative Action/Equal Opportunity Employer. Qualified female and minority applicants are encouraged to apply.

DEPARTMENT OF PEDIATRICS Stanford University School of Medicine

FACULTY APPOINTMENT (Developmental Biology)—The Department of Pediatrics at Stanford University School of Medicine seeks applicants or nominations of candidates for a faculty appointment. The appointment will be in the University Line Professoriate of the School of Medicine at the Assistant or Associate Professor level. The candidate should have a research interest in developmental biology. Candidates should have Board certification in Pediatrics and further training in any of the pediatric subspecialties. Candidates should be well-trained in basic science with the potential to compete for NIH level grant support.

This faculty member will join an active program in basic science and translational research in Pediatrics and become a member of our NIH-funded Child Health Research Center. The goal of the Child Health Research Center is the application of cellular, molecular, and genetic methods to unsolved problems in child health. This program is highly interactive with other clinical and basic science programs at Stanford University.

Interested candidates should send a curriculum vitae to: **Ann Arvin, M.D., Associate Chair for Academic Affairs, Department of Pediatrics, Room G-312, Stanford University School of Medicine, Stanford, CA 94305-5119. Stanford University is committed to increasing representation of women and members of minority groups on its faculty and particularly encourages applications from such candidates.**

CHAIRPERSON DEPARTMENT OF GENETICS

Yale University School of Medicine is seeking an outstanding scientist to head the Department of Genetics, which has a long history of excellence in both basic genetic research and clinical genetics. Research interests of the faculty include studies on the structure, function, and expression of cellular and viral genes; human genetics; genetic control of cell growth and differentiation; DNA replication, recombination, and mutagenesis; and developmental genetics in a variety of systems. The Department has a graduate program leading to the Ph.D. degree. It also provides clinical training and clinical genetics services, and operates a number of clinical laboratories. The successful candidate will provide leadership in defining the future direction of the Department and in maintaining the vigor of its research, clinical, and teaching programs.

Applications are to be sent to: **Richard A. Flavell, Ph.D., Genetics Chair Search Committee, c/o Terrill S. Moorehouse, Administrator, Section of Immunobiology, Yale School of Medicine, Room TE404, P.O. Box 208011, New Haven, CT 06520-8011. Application deadline: April 15, 1997.**

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

POSITIONS OPEN

FACULTY POSITIONS CELL/DEVELOPMENTAL BIOLOGIST FISHERIES BIOLOGIST

The Department of Zoology at North Dakota State University seeks to fill two nine-month **TENURE-TRACK** faculty positions. The cell/developmental biologist will teach Cell Biology and Developmental Biology, participate in an introductory biology course, and develop an externally funded research program using molecular approaches to the study of regulatory aspects of cell/developmental biology. The fisheries biologist will teach Ichthyology, Fisheries Management, and Fisheries and Wildlife Techniques with some participation in other courses. Development of an externally funded research program in fish ecology and interest in cooperating with regional management agencies is also expected. Both positions involve guidance of undergraduate and graduate students. The Department enrolls over 450 students and offers B.S., M.S., and Ph.D. degrees. Closing date is 31 January 1997 or until the position is filled. Applicants should submit curriculum vitae, transcripts, statement of teaching and research interests, copies of publications, and names of three references to: **Faculty Search Committee, Department of Zoology, North Dakota State University, Fargo, ND 58105-5517. For additional information contact http://calvin.cc.ndsu.nodak.edu/zoo/home_1.html.**

PHARMACOKINETICIST: The Pharmacology Laboratory, Karmanos Cancer Institute, School of Medicine, and the Department of Pharmaceutical Sciences, College of Pharmacy and Allied Health Professions invite applications from investigators with a Ph.D., M.D., or equivalent degree for a joint, tenured/tenure-track **FACULTY POSITION**. The individual will be expected to develop an independent, extramurally funded research program in pharmacokinetics and contribute to the pharmacokinetic analysis during clinical trials (primarily antineoplastics). Analytical chemistry experience is an asset. To apply, submit a curriculum vitae; a description of interests; key reprints; and the names, addresses, telephone and fax numbers, and Email addresses of three references to: **Dr. Ralph E. Parchment, Chairman, Faculty Search Committee, Division of Hematology-Oncology, 501-Hudson, Wayne State University, 3990 John R, Detroit, MI 48236. Telephone: 313-745-4700; FAX: 313-993-0559; Email: parchment@oncgate.roc.wayne.edu.** A full-text announcement can be found at <http://wizard/pharm.wayne.edu/pkad.html>. *Wayne State University is an Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply. Wayne State University—People working together to provide quality service. All buildings, structures, and vehicles at Wayne State University are smoke-free.*

ANATOMY/PHYSIOLOGY

Biology department seeks applicants for **FACULTY**, start August 1997. Teach undergraduate biology: anatomy and physiology, freshman biology. Involve undergraduates in research, advise biology majors. Ph.D. and successful undergraduate teaching experience required. Biology has largest enrollment with more than 155 majors. Founded in 1880, Bridgewater College is an independent, co-educational liberal arts college in the Shenandoah Valley of Virginia, affiliated with the Church of the Brethren, with an enrollment of 1016 students. See World Wide Web (www.bridgewater.edu). Application review begins February 7, 1997. Send application letter, curriculum vitae, academic transcripts, evidence of teaching effectiveness, and three letters of reference to: **Dr. Lee M. Yoder, Dean for Academic Affairs, Bridgewater College, Bridgewater, VA 22812. Email: lyoder@bridgewater.edu.** *An Equal Opportunity/Affirmative Action Employer.*

FACULTY

The Department of Surgery, Wayne State University (WSU) School of Medicine, invites applications for a faculty position, rank to be determined (**RESEARCH TRACK**). Applicants must have a Ph.D. in molecular biology/genetics and be familiar with cloning procedures, cDNA/genomic library screening, differential display, and Northern, Southern, and Western blotting techniques. Previous experience with PCR, SSCP, and other mutation techniques required. Send curriculum vitae to: **David Fromm, M.D., Professor and Chair, Department of Surgery, Wayne State University, School of Medicine, 6C/UHC, 4201 St. Antoine, Detroit, MI 48201. WSU is an Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

DRUG FORMULATIONS CHEMIST

The Department of Pharmaceutical Sciences, College of Pharmacy and Allied Health Professions, and the Pharmacology Laboratory, Karmanos Cancer Institute, School of Medicine invite applications from investigators with a Ph.D., M.D., or equivalent degree for a joint, tenured/tenure-track **FACULTY POSITION**. The individual will be expected to develop an independent, extramurally funded clinical research program in drug formulation and to contribute analytical expertise to clinical trials (primarily antineoplastics).

To apply, submit a curriculum vitae; a description of interests; key reprints; and the names, addresses, telephone numbers, fax numbers, and Email addresses of three references to: **Dr. Ralph E. Parchment, Chairman, Faculty Search Committee, Division of Hematology-Oncology, 501-Hudson, Wayne State University, 3990 John R, Detroit, MI 48236. Telephone: 313-745-4700; FAX: 313-993-0559; Email: parchment@oncgate.roc.wayne.edu.** A full-text announcement can be found at <http://wizard/pharm.wayne.edu/dfad.html>. *Wayne State University is an Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply. Wayne State University—people working together to provide quality service. All buildings, structures, and vehicles at Wayne State University are smoke-free.*

DEAN

COLLEGE OF SCIENCE AND MATHEMATICS

California State University, Northridge, seeks applications and nominations for Dean, College of Science and Mathematics. The College has five departments, 104 full-time faculty, and 2,950 students; offers baccalaureate and Master's programs; develops and promotes long-range goals, programs, and resources in an environment supportive of research, scholarship, teaching, and academic excellence; seeks external funds; makes personnel recommendations; and represents the College. Position requires accredited Ph.D., qualifications for appointment as **PROFESSOR**, outstanding scholarly and professional accomplishments, relevant administrative experience, and demonstrated university teaching competence. Submit a letter; a curriculum vitae including names and addresses of three professional references and five-year salary history; and a statement of administrative interests, vision, and goals. Screening begins February 24, 1997, and continues until the position is filled. Submit to: **Chair, Search and Screen Committee for Dean, College of Science and Mathematics, Office of the Provost and Vice President for Academic Affairs, California State University, Northridge, Northridge, CA 91330-8200. Affirmative Action/Equal Opportunity Employer.**

FACULTY FOR EUROPE AND ASIA

The University of Maryland anticipates openings for **FACULTY** to teach undergraduate science courses on U.S. military bases overseas. Requirements include the Ph.D. or two Master's degrees, recent U.S. university teaching experience, U.S. citizenship, and competence to teach in two of the following fields: astronomy, biology, chemistry, computer studies, geology, mathematics, and physics. Renewable annual appointments begin August 1997. Frequent relocation and the cost of schooling make these positions difficult for those with children. See <http://www.umuc.edu> "International" for program information. Send résumé to: **Dr. Rosemary Hoffmann, University of Maryland University College, College Park, MD 20742-1642. Email: rhoffman@polaris.umuc.edu** (Please include mailing address). *Affirmative Action/Equal Employment Opportunity.*

ASSISTANT DEVELOPMENT ENGINEER

Conduct research on micro-mechanics of fusion materials; develop fracture and radiation damage models for ceramic composites under irradiation; correlate theoretical models to experimental data; analyze structural and thermal response of fusion reactor blankets; develop models for the thermal, mechanical, and sintering response of solid breeder materials; work on design and performance of fusion blankets. Requires Ph.D. in nuclear engineering with research experience in ceramic composites and their response in high-temperature fusion environments; research experience in radiation effects on mechanical behavior of materials; prior knowledge and experience in fusion blankets and first walls design and performance; experience in atomistic simulation of materials behavior. Salary \$38,400 per year. Job location/interview: Los Angeles, California. Send this ad and résumé to: **Job Number 51213052TM, P.O. Box 269065, Sacramento, CA 95826-9065.**

NIH Has A New Address.

The National Institutes of Health has introduced a new web site. Now, the latest news about clinical and research training opportunities at NIH can be accessed by visiting us at <http://helix.nih.gov:8001/oe/>

At the site, you can quickly obtain information regarding clinical and postdoctoral training. Review the NIH tenure-track openings. Take a look at the NIH Postdoctoral Research Fellowship Opportunities Catalog which chronicles research being conducted in all NIH laboratories. You can even apply electronically for positions.

All from the convenience of your keyboard.

Plus, the web site links to all NIH institute and laboratory home pages, provides a calendar of events, and offers links to many other areas.

We used to ask you to call us or send your *curriculum vitae*. Now, the best way to find out about world class opportunities at NIH is through the world wide web.



National Institutes Of Health

Office Of Education

<http://helix.nih.gov:8001/oe/>

The NIH is an Equal Opportunity Employer

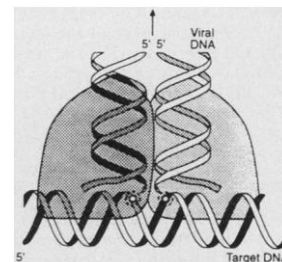


UCLA TENURE-TRACK POSITIONS IN GENE THERAPY AND RELATED TOPICS

The Department of Molecular and Medical Pharmacology of the UCLA School of Medicine, in conjunction with the UCLA Interdepartmental Program in Gene Therapy, announces a search for two faculty members with research interests in gene therapy and related topics. Interests might include (but are not limited to) development of novel viral gene delivery systems, approaches to preventing extinguishment of long-term expression of therapeutic genes, animal models of human diseases as research tools in genetic therapy, clinical applications of gene therapy, development of recombinant DNA vaccines, and applications of stem cell biology.

The Department of Molecular and Medical Pharmacology is undergoing a continuing expansion and modernization, with recent recruitments in the areas of macromolecular structure and infectivity of adenoviruses (Phoebe Stewart), RNA viral integration and replication (Samson Chow), auto-immune diseases and tolerization (Dan Kaufman), systems biology and Positron Emission Tomography (PET) imaging of normal and pathological function (Sam Gambhir), development of high-resolution microPET for *in vivo* study of mammalian genetics in the mouse (Simon Cherry), molecular basis of brain development and neuronal plasticity (Harley Kornblum), genetically modified cell transplants to reverse degenerative processes in the central nervous system (William Melega), and gene disruption and molecular studies of erythropoiesis (Hong Wu). The Department of Molecular and Medical Pharmacology is committed to melding the technologies of structural biology, molecular and cell biology, genetics, systems physiology, and biological imaging to study fundamental biological processes, to improve diagnosis of disease, and to effect their cures. The department views gene therapy and gene-based manipulation of biological processes as a part of the natural evolution of molecular and medical pharmacology. The departmental gene therapy program is under the direction of Harvey Herschman, Crump Professor and Vice Chairman, and Michael Phelps, Norton Simon Professor and Chairman.

Appointments will be at the level of assistant professor or, for appropriate candidates, associate professor. Applicants should submit a *curriculum vitae* and a statement describing their research interests and proposed initial research program to Ms. Judith Amos, Center for the Health Sciences, Department of Molecular and Medical Pharmacology, UCLA School of Medicine, Box 951735, Los Angeles, CA 90095-1735. Applicants should have three letters of reference sent to the same address. All applications should be complete by January 15, 1997.



POSITIONS OPEN

ASSOCIATE DIRECTOR OF CORPORATE AND FOUNDATION RELATIONS PRINCETON UNIVERSITY

Reporting to the Director of Corporate and Foundation Relations, the Associate Director is responsible for identifying, cultivating, soliciting, and stewarding gifts from corporations and foundations with a particular focus on institutional priorities in the sciences and engineering. The Associate Director prepares and presents proposals to corporations and foundations and must be able to work closely with faculty, senior administrators, and alumni volunteers to obtain support from institutional prospects for capital and programmatic needs.

Requirements for the position include a Bachelor's degree, preferably in the natural sciences or engineering; a minimum of two years of relevant professional experience, preferably in corporate and foundation fund raising in an academic setting; excellent oral and written communication skills; and a willingness to travel extensively.

For full consideration, submit two résumés with cover letter by January 31, 1997, to: **Office of Human Resources, Princeton University, Clio Hall, Princeton, NJ 08544, Attention: Requisition Number 3450-SW.** Princeton University is an Equal Opportunity/Affirmative Action Employer. Minority/Female/Disabled/Veteran.

DIRECTOR Wisconsin Regional Primate Research Center

The University of Wisconsin-Madison announces a search for Director of the Wisconsin Regional Primate Research Center. The Director will be expected to lead development of strong research programs involving University Faculty and Staff and outstanding visiting researchers in important biomedical areas in which the non-human primate offers unique opportunities for research relevant to the health of humans and other primates. The Director will also hold a tenured **PROFESSORSHIP** in an appropriate academic department and will have the opportunity to continue his or her research and graduate student/postdoctoral training. Applicants should supply a full curriculum vitae, a statement of research interests, and names of three references no later than January 31, 1997. Address correspondence to: **Primate Director Search Committee, 333 Bascom Hall, University of Wisconsin-Madison, Madison, WI 53706.** Unless confidentiality is requested in writing, information regarding the applicants must be released upon request. Finalists cannot be guaranteed confidentiality. *The University of Wisconsin-Madison is an Equal Opportunity Employer.*

FACULTY POSITION available in Biomedical Imaging within the Biomedical Engineering Department at the University of Michigan, Ann Arbor, Michigan. Applications are solicited for a faculty position (at all ranks) in the area of biomedical imaging. Qualifications include an outstanding academic record, significant publications in major peer-reviewed journals, a doctorate in biomedical engineering or related discipline, and a demonstrated commitment to teaching and research. Potential areas of specialization include functional magnetic resonance imaging, magnetic resonance spectroscopy, and other diagnostic or therapeutic applications of biomedical imaging. Please send résumé and names of five references to: **Professor Matthew O'Donnell, Chair of Search Committee, Department of Biomedical Engineering, University of Michigan, 2350 Hayward, 3304 G.G. Brown, Ann Arbor, MI 48109-2125.**

The Cardiology Division, Department of Medicine at Columbia University, College of Physicians and Surgeons, is seeking full-time, tenure-track research physiologists or biochemists at the **ASSISTANT PROFESSOR** level. Candidates should have experience in biochemical correlates of contractile failure including molecular techniques, a history of publication, and grant support. Candidates should possess a Ph.D. or M.D. Send curriculum vitae to: **Steven Bergmann, M.D., Ph.D., Director, Nuclear Cardiology, PH 10-Stem 405, Columbia University, 630 West 168th Street, New York, NY 10032.** We take Affirmative Action toward Equal Employment Opportunity.

PREFERRED PROFESSIONAL RECRUITERS

We are a leading executive search firm specializing in the healthcare industry. The following positions are open: Group Director of Information Management, Director of Cancer Research, Clinical Research and Medical Director, Clinical Research Project Manager, Biostatisticians/Statisticians. Submit your résumé to us at: **4200 Green Cliffs Road, Austin, TX 78746. FAX: 512-327-1774; Email: search@pprecruiters.com.** Visit our website at <http://www.pprecruiters.com>.

POSITIONS OPEN

WASHINGTON UNIVERSITY DEPARTMENT OF ANESTHESIOLOGY

The Anesthesiology Research Unit seeks to fill a tenure-track position for a basic research scientist at the **ASSISTANT/ASSOCIATE PROFESSOR** level. The successful candidate will be expected to use innovative cellular and/or molecular approaches to problems relevant to the broad areas of pain or sleep. Generous start-up funds and space will be provided. The Unit provides a unique research environment with ongoing programs in the molecular biology of G-proteins, structure and function of ion channels, molecular targets of anesthetics, cellular physiology of excitable cells, and pain. Faculty members have joint appointments in a basic science department and are part of the strong graduate training program at Washington University. Candidates must have Ph.D. and/or M.D. degrees with appropriate postdoctoral experience. The application deadline is February 28, 1997. Interested individuals should submit a curriculum vitae, a statement of research plans, and names of three referees to: **Search Committee, Anesthesiology Research Unit, Washington University School of Medicine, 660 South Euclid Avenue, Box 8054, St. Louis, MO 63110.**

FACULTY POSITIONS Department of Biochemistry and Molecular Biology Penn State University College of Medicine

Applications are invited for two tenure-track positions to begin on or after June 1, 1997. We seek individuals who have demonstrated excellence in the areas of structure/function of proteins, focusing on eukaryotic macromolecules of physiological importance. Examples of preferred research emphasis are: macromolecular biosynthesis, targeting, processing and assembly, protein folding, signal transduction, molecular immunology or recognition, homo and hetero-interactions of proteins, protein-nucleic acid, -carbohydrate, and -drug interactions, transcriptional and posttranslational regulation of enzyme activity. Technologies of molecular biology, cell biology and genetics, physical chemistry, and computer modeling are all appropriate for the position. Preference will be given to applicants at the **ASSISTANT PROFESSOR** level although outstanding individuals at the **ASSOCIATE PROFESSOR** level will be considered. Applicants must hold a Ph.D. and/or M.D. degree and must have had postdoctoral research experience. Successful applicants are expected to establish an independent, extramurally funded research program and to participate in the education of graduate and medical students and programs of the Life Science Consortium of Penn State University. Applicants should send a curriculum vitae, a synopsis of research plans, and the names and addresses of three individuals who will provide letters of reference to: **Chair, Search Committee, Department of Biochemistry and Molecular Biology, The Milton S. Hershey Medical Center, Penn State University, P.O. Box 850S, Hershey, PA 17033.** Applications should be submitted by February 28, 1997.

An Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

The Division of Renal Diseases and Hypertension at the University of Colorado Health Sciences Center is seeking a strong basic scientist, Ph.D. or M.D., at the **ASSISTANT/ASSOCIATE PROFESSOR** level to complement existing research strengths within the division. Priority will be given to individuals applying structural approaches to epithelial cell biology. Expertise in immunofluorescence, confocal and electron microscopy, and/or videomicroscopy is desirable. The candidate should have a record of independent funding, and will be expected to develop an independent research program, as well as interact with other members of the division. Generous start-up funds are available for purchasing equipment to complement our existing imaging facility. Send a curriculum vitae, description of research interests, and the names of three references to: **Dr. Raphael Nemenoff, Department of Medicine, Division of Renal Diseases and Hypertension, University of Colorado Health Sciences Center, Box C-281, 4200 East Ninth Avenue, Denver, CO 80262.** The University of Colorado Health Sciences Center is committed to Equal Employment Opportunity and Affirmative Action.

POSITIONS OPEN

FACULTY POSITION, TENURE-TRACK Department of Biobehavioral Health and Center for Developmental and Health Genetics

Penn State has made a commitment to expanding education and research in the life sciences through a new, university-wide Life Sciences Consortium. As part of this research emphasis, the Department of Biobehavioral Health and the Center for Developmental and Health Genetics in the College of Health and Human Development invite applications for a tenure-track position at the advanced **ASSISTANT PROFESSOR** or **ASSOCIATE PROFESSOR** level for a molecular geneticist or a developmental geneticist with strong molecular background. The position will involve teaching responsibilities in the interdisciplinary undergraduate and graduate training of the Department of Biobehavioral Health, and a major research commitment in the Center for Developmental and Health Genetics. Both units are highly interdisciplinary, with faculty from a broad range of behavioral and biological disciplines. The program of the Center utilizes both human subjects and animal models in research on the genetics of complex developing systems related to health and human development. The successful candidate will have opportunities for development of an independent research program, but will be expected to play a major role in the multiple-investigator programs of the Center. A demonstrated ability to work effectively with others from a broad range of disciplines is essential. The application should include current curriculum vitae, list of publications, and a brief statement of research interests (three pages or fewer). In addition, three letters of reference on the applicant's behalf should be sent to: **Dr. Gerald E. McClearn, Center for Developmental and Health Genetics, 101 Amy Gardner House, The Pennsylvania State University, University Park, PA 16802.** Review commences January 2, 1997; applications accepted until position is filled. *An Affirmative Action/Equal Opportunity Employer. Women and minorities encouraged to apply.*

UNIVERSITY OF CALIFORNIA SAN DIEGO SCHOOL OF MEDICINE Two Tenure-Track or Tenured Position(s) in Genetics

Applications are invited for two available positions at the **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** rank with a central focus in basic genetics with relevance to human disease. Applicable areas of interest include: identification, characterization, and mechanistic studies of genes relevant to human disease and development; novel experimental approaches using model systems; genetic approaches to multifactorial inheritance and diseases; genetic and molecular approaches to development, organogenesis, neurobiology, and inborn errors; population genetics/informatics; and regulatory and structural aspects of basic mammalian genetic problems. Applicants should have an M.D. and/or Ph.D. degree with relevant postdoctoral experience and demonstrated ability to conduct an independent research program using modern genetic, molecular biological, and biochemical approaches. They should also have skills and interest in teaching medical genetics to medical students and basic genetics in the graduate program. Appointment level and salary commensurate with training and experience based upon UCSD salary scales. Please submit curriculum vitae, bibliography, a brief (less than one page) statement of professional goals and research interests, and names/addresses of five references to: **Genetics Search Committee, c/o M. Geoffrey Rosenfeld, M.D., University of California, San Diego, 9500 Gilman Drive, CMM West Number 354, La Jolla, CA 92093-0688.** Application deadline is February 15, 1997. *Affirmative Action/Equal Opportunity Employer.*

MICROBIOLOGIST

The Department of Biological Sciences at the University of New Orleans (UNO) invites applications for an anticipated tenure-track **ASSISTANT PROFESSOR** position in Microbiology, beginning fall 1997. Research area is open, but applicants working in microbial evolution, environmental microbiology, and microbe-host interactions are of particular interest. Ph.D. is required and postdoctoral experience strongly preferred. For more information, please visit us at <http://www.uno.edu/~bios>. Send curriculum vitae, statement of research interests, reprints, and three letters of support by 15 February 1997 to: **Search Committee, Department of Biological Sciences, University of New Orleans, New Orleans, LA 70148.** Telephone: 504-280-6307; FAX: 504-280-6121; Email: mjcbis@uno.edu. UNO is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATES

U.S. Meat Animal Research Center (MARC), Clay Center, Nebraska Agricultural Research Service, U.S. Department of Agriculture

Postdoctoral Research Associate positions are available immediately at MARC in the following areas:

- **Genetics** Molecular biology and molecular/quantitative genetics. Opportunities to apply gene mapping, differential display, YAC technology and related genomic techniques.
- **Meats** Effects of microbial decontamination and sanitizing agents on potential pathogens, meat quality, product shelf life and interactions with processing techniques.
- **Nutrition** Enhancement of nitrogen efficiency in meat animals for economic and environmental sustainability.
- **Animal Health** Molecular biology, ecology and control of food-safety related bacteria, especially enterohemorrhagic *Escherichia coli* and *Salmonella* species, in populations of domestic livestock.
- **Production Systems** Integrate experimentally derived information from traditional animal sciences into simulation models for use by animal scientists and production agriculture.
- **Biological Engineering** Energetics and modeling of generation, collection, treatment and utilization of cattle waste in support of environmental quality.
- **Reproduction** Ovarian, testicular, uterine and fetal physiology, endocrinology and molecular biology of livestock.

MARC is a modern, well-funded research facility located in south-central Nebraska. The 50+ researchers currently working at the center represent a wide range of scientific disciplines, from basic molecular genetics and mathematical modeling to population biology and biological engineering. Large reference populations of beef cattle, swine and sheep present at MARC, an interdisciplinary approach to problems of animal production and state-of-the-art laboratories present unique opportunities for creative researchers. For further information about MARC see <http://www.marc.usda.gov>.

A Ph.D. or DVM/Ph.D. degree is required for these positions. Minimum starting salary is \$36,426. Candidates with a strong background in any of the above areas are encouraged to apply by sending a C.V. and names of three references to: **Research Associate Search Committee, U.S. Meat Animal Research Center, P.O. Box 166, Clay Center, NE 68933**. Candidates must be U.S. citizens or citizens of countries with defense agreements with the U.S. *USDA-ARS is an affirmative action/equal opportunity employer.*

PROGRAM OF EXCELLENCE IN MOLECULAR BIOLOGY OF THE HEART AND LUNG

Special Postdoctoral Positions

The University of Cincinnati Program of Excellence in Molecular Biology of the Heart and Lung, funded by the National Heart, Lung, and Blood Institute of NIH, has as its goal the application of molecular genetic approaches to study heart and lung function. The Program is open to Ph.D.s or M.D.s with training in molecular biology who wish to apply their skills to significant problems of heart or lung, or to individuals with strong backgrounds in heart and lung who wish to develop molecular tools for continued study of these problems. We are particularly interested in recruiting women and minorities to the Program. Stipends begin at \$31,000 per year with benefits. The faculty and their interests are described below. The Program is limited to U.S. citizens and permanent residents.

Jerry B. Lingrel—Na, K-ATPase gene regulation, knockout and replacement studies and structure-function studies. Role of transcription factors in early lung and erythroid development

Jeffrey Whitsett—Molecular biology of lung development of lung specific gene expression

Paul Rosevear—Elucidation of structure/function relationships in the cardiac troponin complex using multidimensional NMR techniques

Gary Shull—Role of ion-transport proteins in cardiac function and control of arterial blood pressure using gene targeting technology

Jeffrey Robbins—Targeted modification of the cardiac contractile proteins and growth and developmental control of cardiac muscle

Steven Potter—Manipulating genes important in heart and lung development by insertional mutagenesis and targeted modification in ES cells

Thomas Doetschman—Role of growth and differentiation factors in the development and function of heart and lung using targeted gene modification in the mouse

Anil Menon—The genetics of human cardiovascular disease

Stephen Liggett—Molecular biology, pharmacology and structure/function of cardiopulmonary adrenergic receptors

Applicants should submit a C.V. and the names of three references to **Jerry B. Lingrel, Ph.D., Director, Program of Excellence in Molecular Biology, Department of Molecular Genetics, Biochemistry, and Microbiology, University of Cincinnati, College of Medicine, 231 Bethesda Avenue, Cincinnati, Ohio 45267-0524**.

Affirmative Action/Equal Opportunity Employer

POSITIONS OPEN

TWO TENURE-TRACK BIOLOGY FACULTY POSITIONS Aquatic Biology/Molecular Genetics

Fredonia State University College seeks candidates for two tenure-track ASSISTANT PROFESSOR positions to begin August 1997. Candidates should be strongly committed both to teaching and to developing active research programs involving undergraduates and M.S. students. In addition to the duties listed below, both positions include teaching a non-majors biology course.

1) Aquatic Biologist with expertise in environmental risk assessment. The candidate will help to further develop our interdisciplinary Environmental Sciences major and conduct relevant research in freshwater aquatic systems. The candidate will develop and teach an Introduction to Environmental Science for majors, a course in Environmental Risk Assessment, and an upper-level Aquatic course in the candidate's area of expertise. The Great Lakes and other freshwater sites are attractive assets very close to the campus.

2) Molecular Geneticist will teach a Genetics core course for both Biology and Recombinant Gene Technology majors and upper-level electives in the candidate's area of expertise. Preference will be given to molecular biologists.

Routinely ranked in the top ten in the northeast by *Money Magazine* and by *U.S. News and World Report*, Fredonia is a selective, public undergraduate liberal arts college. Our majors benefit from opportunities to work closely with faculty in ongoing research. Candidates must possess a Ph.D., and postdoctoral experience is highly recommended. Complete applications will include a curriculum vitae, statements of teaching philosophy and research goals, and three recent letters of reference, and should be sent by January 31, 1997 to: Search Committee, Department of Biology, Fredonia State University College, Fredonia, NY 14063.

The College at Fredonia is an Equal Opportunity/Affirmative Action Employer. Women and minorities are strongly encouraged to apply.

TWO ASSISTANT PROFESSOR POSITIONS Developmental Biologist and Marine Invertebrate Physiologist

Eckerd College seeks Ph.D. applicants for two TENURE-TRACK Assistant Professor positions to begin fall 1997. Development of a research program accessible to undergraduates and occasional participation in the College's interdisciplinary, values-oriented, general education program is expected.

Assistant Professor: Marine Invertebrate Physiologist, Ph.D. Teaching will include undergraduate courses in marine invertebrates, and comparative (or ecological) physiology. Send letter describing qualifications, curriculum vitae, undergraduate and graduate transcripts, teaching evaluations, and three confidential recommendations from sponsors by February 15, 1997 to: Dr. John C. Ferguson, Eckerd College, 4200 54th Avenue South, St. Petersburg, FL 33711.

Assistant Professor: Developmental Biologist, Ph.D., Duties include developing and teaching an upper-level undergraduate developmental biology course using modern molecular approaches, and teaching genetics and cell biology. Send letter describing qualifications, curriculum vitae, undergraduate and graduate transcripts, teaching evaluations, and three confidential recommendations from sponsors by February 21, 1997 to: Dr. Peter Meylan, Eckerd College, 4200 54th Avenue South, St. Petersburg, FL 33711.

Equal Opportunity Employer. Women and minorities are encouraged to apply.

ELON COLLEGE

Applications are invited for a permanent, full-time position as ASSISTANT PROFESSOR of biology starting in August 1997. Applicants must have a Ph.D. in the biological sciences, preferably with experience in invertebrate ecology. Evidence of excellence in teaching and continuing scholarship are required. Teaching responsibilities may include human anatomy and physiology, zoology, environmental studies courses, and biology for non-majors. Interdisciplinary teaching and research are encouraged. Applications should be submitted by February 3, 1997. Send letter of application, résumé, statements of teaching philosophy and research goals, copies of transcripts, and three letters of support to: Dr. Rosalind Reichard, Dean of Sciences and Mathematics, 2163 Campus Box, Elon College, NC 27244. *Minority and women candidates are encouraged to apply. Elon is an Equal Employment Opportunity Institution.*

POSITIONS OPEN

BIOLOGY POSTDOCTORAL TEACHING POSITION

Truman State University invites applications for a one-year position, renewable for a second year pending budget consideration and review, at the ASSISTANT PROFESSOR level, starting August 1997. This position provides the opportunity for the successful candidate to develop as a teacher in a liberal arts and sciences culture. As teaching and undergraduate research are mutually supportive activities at Truman, the responsibilities of this position include both teaching introductory biology for majors and/or non-majors and possibly an upper-level major's course, and an opportunity to participate in collaborative research with a Truman biology faculty member and a small community of undergraduate students. Please consult the Truman home page (www.truman.edu) to examine faculty research interests. Modest funding for research involving students may be available.

Ranked fourth in the nation by *Money Guide* and first in the Midwest among regional universities by *U.S. News and World Report*, Truman is Missouri's only statewide, highly selective, public undergraduate liberal arts and sciences university. We are nationally recognized for our innovative assessment program and commitment to a broad-based liberal arts and sciences education. Students benefit from a university-wide 16:1 student/faculty ratio and the opportunity to work closely with faculty conducting research.

Candidates must possess a Ph.D. or have a targeted completion date by August 1997. Complete applications include a curriculum vitae, statements of teaching philosophy and research interests, all undergraduate and graduate transcripts, and three recent letters of reference. All application materials should be sent directly to: Dr. Nancy Sanders, Division of Science, Truman State University, Kirksville, MO 63501. Telephone: 816-785-4597. Completed applications will be reviewed starting February 3, 1997.

Truman is an Equal Employment Opportunity Institution committed to cultural diversity and compliance with the Americans with Disabilities Act.

FACULTY POSITION Fred Hutchinson Cancer Research Center

We are seeking to fill one ASSISTANT, ASSOCIATE, or FULL MEMBER position in the areas of human genetics or genetic epidemiology. The successful candidate is expected to develop an independent research program that exploits recent advances in the human genome project. We seek a candidate with interests in genome technology and in collaborating with population-based studies on the genetic basis of cancer. The position will be within the Division of Public Health Sciences, and will be part of a cross-disciplinary Genetics Program at the Fred Hutchinson Cancer Research Center (FHCRC) with the opportunity for an affiliate appointment at the University of Washington. Candidates should send a curriculum vitae and a concise statement of their research plans, and should have three letters of reference sent to:

Genetic Epidemiology Search Committee
Fred Hutchinson Cancer Research Center
Molecular Medicine
Mailstop: B1-030
1124 Columbia Street
Seattle, WA 98104

Applications will be evaluated beginning March 1, 1997.

FHCRC is an Equal Opportunity Employer committed to workforce diversity.

Biomedical Science (6-6155). The University of Nebraska Medical Center (UNMC) College of Dentistry, Department of Oral Biology, has a full-time, tenure-leading position at the ASSISTANT/ASSOCIATE PROFESSOR level. Responsibilities include undergraduate and graduate teaching in human physiology and/or oral biology and establishment of a vigorous research program. Preference given to expertise in molecular biology or biomechanics appropriate for collaboration with ongoing research programs in craniofacial growth, immunoregulation, or biomaterials. Ph.D. or equivalent degree required. Postdoctoral experience preferred. Salary and rank commensurate with background, training, and experience. Review of applications will continue until position is filled. Send curriculum vitae, statement of research plans, and three letters of reference to: Office of the Dean, Position Number 6-6155, UNMC College of Dentistry, P.O. Box 830740, Lincoln, NE 68583-0740.

POSITIONS OPEN

HEALTH AND ENVIRONMENTAL SCIENCE

Hampshire College, an independent innovative liberal arts institution and member of the Five College consortium, is accepting applications for two positions: 1) Human Biologist/Health Scientist (ASSISTANT PROFESSOR) working in disciplines such as epidemiology, reproduction, cell biology, or biochemistry; 2) Environmental Scientist (two-year VISITING ASSISTANT PROFESSOR) with an emphasis in the physical sciences. The candidates' ability to combine undergraduate teaching and research in exciting ways will be weighed more heavily than their specific disciplines.

Hampshire College offers a stimulating and supportive environment for interdisciplinary teaching and collaborative research in a wide variety of fields. We seek scientists whose innovative teaching engages students in genuine research at the introductory and advanced levels. We emphasize discussion, projects, and written evaluations rather than lectures, exams, demonstrations, or grades. All Hampshire students are expected to engage in intellectual issues pertinent to the Third World or United States minorities at some point in their college studies.

We offer a competitive salary and benefit program. Review of applications begins on February 15, 1997. Applicants should submit a letter describing their ideas for teaching, curriculum vitae, and the names of three references to:

Ms. Laurie Smith
Search Secretary
School of Natural Science
Hampshire College
Amherst, MA 01002

Email: lsjns@hampshire.edu with questions

Equal Opportunity Employer committed to a vigorous Affirmative Action Program. Minority candidates and women are strongly encouraged to apply.

LABORATORY SCIENTIST PEDIATRIC HEMATOLOGY-ONCOLOGY

The Division of Hematology-Oncology, Department of Pediatrics, University of Texas (UT) Southwestern Medical Center at Dallas, is seeking an additional full-time faculty member at the ASSISTANT PROFESSOR level who will be charged with developing an outstanding basic research program involving the initiation, progression, or control of childhood malignancy. Individuals with interest and expertise in the areas of experimental hematology, cell biology, molecular biology, or immunology are particularly encouraged to apply. Candidates should have the M.D. or M.D./Ph.D. degree and should have shown great promise during their initial research experiences. Successful candidates will spend approximately 80 to 85% of their time in laboratory research, with the remainder devoted to clinical responsibilities and teaching. Generous start-up funds are available to support the development of an independent research program in an exciting milieu of one of the nation's largest pediatric cancer centers. This position is available immediately. For further information, contact: George R. Buchanan, M.D., Department of Pediatrics, UT Southwestern, 5323 Harry Hines Boulevard, Dallas, TX 75235-9063. Telephone: 214-648-8594; FAX: 214-648-3122. *The University of Texas Southwestern Medical Center at Dallas is an Equal Opportunity/Affirmative Action Employer.*

Applications and nominations are invited for the Gordon and Margaret Bailey Endowed Chair in Environmental Horticulture, a 12-month appointment beginning 1 July 1997 or as soon thereafter as possible, to be filled at the level of ASSOCIATE or FULL PROFESSOR with tenure. The Chair holder will direct a research program in environmental horticulture, addressing research goals such as woody plant and tree fruit production, culture, breeding, and overwintering of woody plants. The Bailey Professor will be active in graduate education and will teach at least one course at the undergraduate level. She or he will engage in outreach activities to expand and strengthen interaction with the nursery industry. Applications from outstanding mid-career scientists are especially encouraged. To apply, submit a curriculum vitae, including a full list of publications; names and addresses of four references; and a brief statement of teaching, research, and public-service interests pertinent to the Bailey Chair to: John Carter, Chairman, Bailey Professorship Search Committee, Department of Horticultural Science, 305 Alderman Hall, University of Minnesota, St. Paul, MN 55108. Nominations should be directed to the same address. Review of applications will begin 1 February 1997 and continue until the position is filled. *The University of Minnesota is an Equal Opportunity Educator and Employer.*

BSc Environmental Science Program Four Assistant Professor Positions

The Environmental Science Program invites applications for four tenure-track or contingent term/specific term four-year faculty appointments in the Environmental Science Program at the rank of Assistant Professor, to begin July 1, 1997. A PhD, and preferably post-doctoral experience, is required for these positions.

- **Applied Terrestrial Community/Ecosystem Scientist**
Preference will be given to ecologists with expertise in community structure and/or ecosystem processes as they apply to environmental problems in terrestrial ecosystems.
- **Social Scientist in the Human Environmental Interface**
Preference will be given to social scientists interested in the Human-Environmental Interface from the perspective of geography or economics in the general area of environmental policy and management.
- **Geotechnical Scientist with Expertise in Reclamation/Remediation**
Preference will be given to Geologists, or Physical Geographers with expertise in surficial sediment and subsurface contamination and reclamation.
- **Atmospheric Environmental Scientist**
Preference will be given to Experimental Physical or Analytical Chemists, or Physicists with expertise and interest in the Physico-chemical processes taking place in either the troposphere or the stratosphere.

The successful candidates will be expected to establish active, externally-funded research programs and to supervise graduate research at the MA/MSc and PhD levels. These appointments are to the BSc Environmental Science Program which has five areas of specialization including Biological Sciences, Chemistry, Geographical and Social Sciences, Geology and Physics.

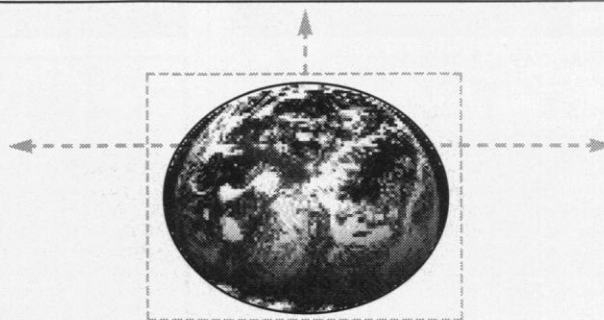
A complete application package should include: a curriculum vitae including an e-mail address, a concise outline of research directions and goals, copies of not more than three representative publications, and a statement of teaching interests and philosophy. Candidates should arrange to have three letters of reference sent to the address below. The closing date for these positions is January 31, 1997.

Dr. E.A. Dixon, Director
Environmental Science Program
The University of Calgary
2500 University Drive N.W.
Calgary, Alberta, Canada T2N 1N4
Fax: (403) 282-9154

In accordance with Canadian Immigration requirements priority will be given to Canadian citizens and permanent residents of Canada. The University of Calgary is committed to Employment Equity.



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Ceregen, a division of Monsanto Company, is widely recognized as a world leader in agricultural biotechnology. Currently, we have openings in our plant genomics program for Ph.D., MS and Post-doctoral research scientists.

PLANT GENOME AND MOLECULAR BIOLOGISTS

You will be responsible for implementing and developing advanced genomics technologies for challenging agricultural problems. We're seeking individuals with superior technical, problem solving and communication skills, as well as the ability to work well within a team environment.

Professionals with a Ph.D. must also possess 2+ years of post-doctoral research with excellent molecular biology skills, including cDNA library construction and screening, experience with BAC/YAC libraries and analysis of gene function. A strong understanding of plant genetics, physiology or biochemistry is preferred, as is familiarity with the use of techniques such as cDNA subtraction and nucleic acid array methodologies.

Professionals with a MS must also possess 2+ years of research experience, including general molecular biology techniques such as PCR and sequencing, cDNA or genomic library construction and screening.

Professionals with postdoctoral research must have academic training in Genetics, Molecular Biology, Plant Biochemistry or Plant Development and Physiology. You must also possess experience using cutting-edge molecular biology/genetics to understand gene function.

We offer a competitive salary and benefits package. For consideration, please send your resume to: **The Monsanto Company, Human Resources Dept., 800 N. Lindbergh Blvd., Job Code #PGMB, Mail Zone C3ND, St. Louis, MO 63167.** EOE/AA Employer M/F/D/V.



POSITIONS OPEN

AQUATIC TOXICOLOGIST

Department of Zoology, Oklahoma State University

Position: Anticipated **ASSISTANT PROFESSOR**, tenure-track position starting 16 August 1997. Qualifications: The applicant must have a Ph.D. in zoology, biology, environmental biology, or a related field. We seek a person with training in aquatic toxicology who is interested in participating in a department where the research emphases are 1) fish and wildlife conservation, 2) environmental toxicology, and 3) ecology, evolution, and behavior. We seek a strong researcher who is also an active scholar/teacher. Responsibilities: Teaching responsibilities will be in toxicology, introductory biology, and areas of specialization at both undergraduate and graduate levels. The successful applicant will also develop a vigorous extramurally funded research program.

Program: Zoology at Oklahoma State is comprehensive, offering undergraduate and advanced degrees in zoology, wildlife and fisheries ecology, and other interdisciplinary majors. There are 22 faculty and about 70 graduate students in the department. A Cooperative Fish and Wildlife Research Unit and an Ecotoxicology/Water Quality Research Laboratory are integral parts of the program. Location: Oklahoma State University has about 20,000 students on the Stillwater campus. The university is in the rolling, post-oak savanna of north central Oklahoma. Stillwater has about 40,000 residents, a low crime rate, and excellent schools; it is within an hour's drive of Oklahoma City and Tulsa.

Application: A letter of transmittal describing the applicant's teaching and research interests, a curriculum vitae, transcripts, and at least three letters of reference should be sent to: **Chair, Aquatic Toxicology Search Committee, Department of Zoology, Oklahoma State University, Stillwater, OK 74078-3052**. Deadline: 17 February 1997. *Oklahoma State University is an Equal Opportunity/Affirmative Action Employer. Women and minority members are especially encouraged to apply.*

CONNECTIVE TISSUE BIOLOGIST

The University of New Mexico School of Medicine Department of Orthopaedics and Rehabilitation seeks to hire a basic connective tissue biologist at the rank of **ASSISTANT PROFESSOR**, with a secondary appointment in the appropriate basic science department. The successful candidate will join the newly established Division of Musculoskeletal Research within the Department of Orthopaedics, which is developing a basic research program in the area of tendon and ligament biology. In addition to research, this individual will participate in the teaching of medical students, graduate students, residents, and fellows. Depending upon qualifications, hiring will be into a tenure-track position or into a flexible position that could lead to a tenure-track appointment within three years. Salary will be commensurate with experience and qualifications. Applicants must have an advanced degree (Ph.D., M.D., or equivalent); must have completed postdoctoral training in a relevant area; and must be currently legally authorized to work in the U.S.A. For best consideration, applicants should send a curriculum vitae, the names of three references, and a one- to two-page statement of their research program and plan on or before March 1, 1997 to: **Dr. John A. Trotter, Director, Division of Musculoskeletal Research, Department of Orthopaedics and Rehabilitation, University of New Mexico Health Sciences Center, Albuquerque, NM 87131-5296**. Inquiries via Email: jtrotter@salud.unm.edu.

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

CELL/MOLECULAR BIOLOGIST FORDHAM UNIVERSITY

Individuals are invited to apply for a tenure-track position at the **ASSOCIATE PROFESSOR** level. The department has an active research program and provides excellent physical facilities, state-of-the-art equipment, a stimulating research environment, start-up funds, and competitive salaries and benefits. Candidates should possess expertise in the area of cell/molecular biology and have a grant-supported research effort underway. Individuals with research programs in immunology are especially encouraged to apply. The appointee will be expected to establish an active research program and to participate in teaching at the graduate and undergraduate levels. Please submit a curriculum vitae and the names and addresses of three references by 5 February 1997 to: **Dr. Berish Y. Rubin, Chairman, Department of Biological Sciences, Fordham University, Bronx, NY 10458**. *Fordham University is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

The Department of Biology at Simmons College seeks a Plant Biologist with a strong commitment to undergraduate teaching to fill a tenure-track position at the level of **ASSISTANT PROFESSOR**. Research with plant systems utilizing cell and molecular techniques is required. Teaching responsibilities may include introductory biology, plant physiology, organismal biology, cell biology, molecular biology, and genetics. The candidate will also be expected to supervise and participate in undergraduate research programs. Recent postdoctoral experience is desirable.

Send a letter of interest with a curriculum vitae, a statement of current and future research interests and outline of how this research can be incorporated into an undergraduate setting, and three letters of recommendation by February 7, 1997 to: **Dr. Sandra Williams, Box JMBB, Plant Biology Search Committee, Department of Biology, Simmons College, 300 The Fenway, Boston, MA 02115**.

Simmons College is an Affirmative Action/Equal Opportunity Employer and welcomes the candidacy of persons underrepresented in higher education.

ASSISTANT PROFESSOR

Departments of Pharmacology and Medical and Molecular Physiology

University of Minnesota-Duluth School of Medicine

An Assistant Professor **TENURE-TRACK** position is available in the Department of Pharmacology, with a secondary appointment in the Department of Medical and Molecular Physiology, at the University of Minnesota-Duluth School of Medicine. The successful applicant must exhibit a record of research accomplishments and publications. Applicants must have a Ph.D., M.D., or equivalent degree and postdoctoral experience. The Departments of Pharmacology and Medical and Molecular Physiology currently have research emphases in the areas of cardiovascular, neural, and immunologic sciences. The successful applicant will be anticipated to either augment current programmatic strengths or provide expertise in underrepresented areas. Responsibilities will include developing an extramurally funded research program, graduate student training, and medical student education. Competitive salaries and start-up funds are available for this position. Applicants should submit a letter of application, curriculum vitae, and a statement of future research goals prior to February 15, 1997. They should also have three letters of reference sent directly to the Chair of the Search Committee. Send applications to: **Dr. George Trachte, Chair of Search Committee, Department of Pharmacology, University of Minnesota-Duluth, School of Medicine, Duluth, MN 55812**. Email: gtrachte@d.umn.edu. *The University of Minnesota is an Equal Opportunity Educator and Employer.*

RUMINANT NUTRITIONIST

The Department of Animal and Food Sciences at the University of Vermont (UVM) is seeking applications for an **ASSISTANT PROFESSOR** position. Responsibilities include teaching animal feeding and advanced courses, and advising students. The appointee will be required to develop a funded, innovative research program. Special consideration will be given to candidates interested in forage utilization, particularly dairy cattle. Details: <http://www.uvm.edu/~asci/dept>. Qualifications: Ph.D., research and teaching ability. Postdoctoral experience desired. Send summary of research and teaching interests, curriculum vitae, and official college transcripts, and have three letters of reference sent to: **Search Committee Chair, Department of Animal and Food Science, 113 Terrill Hall, University of Vermont, Burlington, VT 05405**. Applications will be evaluated starting on March 1, 1997. *UVM is an Equal Opportunity/Affirmative Action Employer.*

Biology: **TWO ASSISTANT PROFESSORS**, August 1997. 1) Botanist to teach plant biology, aquatic ecology, biostatistics; 2) Animal Developmental Biologist to teach animal biology, human sexual biology, developmental biology. Both require Ph.D. and strong commitment to undergraduate teaching and research. Application deadline: February 20, 1997. Send inquiry to: **Chair, Department of Biology, University of Wisconsin-Eau Claire, Eau Claire, WI 54702-4004**. Email: biolsrch@uwc.edu; Telephone: 715-836-4166; FAX: 715-836-5089. *Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

**EMPIRICAL ECOLOGIST
THEORETICAL ECOLOGIST**
Department of Biological Sciences
Stanford University

We invite applications for at least one tenure-track position at the **ASSISTANT PROFESSOR** level in the following areas:

Empirical Ecologist: Research specialization in topics such as species interactions, coevolution, or behavior, preferably including animal systems. Teaching to include undergraduate lecture and field courses in ecology and graduate courses in appointee's area of specialization.

Theoretical Ecologist: Research specialization in topics ranging from ecosystem/community dynamics through population and evolutionary ecology to social interactions and evolutionary game theory. Teaching to include undergraduate lecture and computer/math lab courses in ecology, and graduate courses in appointee's area of specialization.

Please submit a curriculum vitae, FAX number, Email address, description of current and future research interests, statement of teaching experience and goals to: **Ecology Search Committee, Department of Biological Sciences, Stanford University, Stanford, CA 94305-5020**. Please also provide the names, addresses, Email, FAX, and telephone numbers of three referees, but do not ask them to send letters of recommendation. The application deadline is March 1, 1997. *Applications from women and members of minority groups are strongly encouraged.*

The Department of Entomology, Cornell University, invites applications for **ASSISTANT PROFESSOR**, Insect Pest Management. Duties: Responsibilities will involve the development of a nationally recognized research program in integrated pest management with major emphasis on insect pests of field crops. Teaching responsibilities entail teaching a course in integrated insect pest management, teaching a course in insect population ecology, and participating in the development and implementation of an innovative modular IPM curriculum. Qualifications: Ph.D. in entomology or related discipline; academic training and research experience in fundamental and applied aspects of integrated pest management and insect ecology. Training/experience in quantitative disciplines is preferred. Available: July 1, 1997. Application deadline is February 15, 1997. Applicants should forward 1) cover letter describing qualifications and interest in position; 2) curriculum vitae; 3) statement of current and future research interests; 4) statement of teaching interests and experience; 5) representative reprints (maximum of five); 6) transcripts (post secondary education); 7) names and addresses of three to five references. Send application to: **Dr. Donald A. Rutz, Chair, Department of Entomology, Comstock Hall, Cornell University, Ithaca, NY 14853-0999**. *Cornell University is an Equal Opportunity/Affirmative Action Employer.*

ANIMAL PHYSIOLOGIST/ECOLOGIST

Tenure-track position at the **ASSISTANT PROFESSOR** level for a broadly trained biologist whose primary specialty is in physiology, with additional strength in ecology and environmental science. Ph.D. required. Teaching includes vertebrate physiology, physiological ecology, assisting with introductory courses, and possibly developing courses in a specialty. Research encouraged in the context of a four-year, undergraduate, liberal-arts institution. Send curriculum vitae, transcripts, and three letters of recommendation to: **Dr. Leonard Epp, Chair, Department of Biology, Mount Union College, Alliance, OH 44601**. Review of applications will begin upon receipt of applications and continue until position is filled. *Equal Opportunity Employer.*

ASSOCIATE PROFESSOR of Radiology—The Massachusetts General Hospital (MGH) NMR Center is currently seeking a scientist with extensive experience and publication record in both systems-level neuroscience and functional magnetic resonance imaging. The ideal candidate should have experience in neuroanatomy, neurophysiology, and functional imaging in New and Old World monkeys, especially in visual cortex. Complementary fMRI experience should include echo-planar imaging techniques, preferably also in visual cortex. Especially helpful is experience in topographical analysis, using cortical unfolding and flattening techniques. Please send curriculum vitae, a statement of research interests, and the names and addresses of three references to: **Thomas J. Brady, M.D., MGH-NMR Center, Department of Radiology, CNY2301, 13th Street, Charlestown, MA 02129**. *The Massachusetts General Hospital and Harvard Medical School are Affirmative Action/Equal Opportunity Employers.*

GENOMICS: BREAKTHROUGH DISCOVERIES

Genome Therapeutics Corp. is a world leader in the use of pathogen genomic information for the development of new vaccines and therapeutics. The company is expanding its Pathogen Program and has the following Ph.D. positions available.

Bacterial Physiologists and Geneticists Molecular Biologists Biochemists

Experience is needed to facilitate the use of genomic DNA sequences for antimicrobial and antifungal programs. Positions available include: identification of fungal targets; implementation of high-throughput knock-out programs for specific pathogens; development of high-throughput, biochemical screening assays for validated targets; identification and development of screening assays for validated targets of unknown function.

GTC offers an excellent compensation and benefits package. Please send or fax your resume to: **Human Resources, Genome Therapeutics Corporation, 100 Beaver Street, Waltham, MA 02154; fax (617) 893-9535.** An Equal Opportunity Employer M/F/H/V.



THE NATIONAL INSTITUTES OF HEALTH (NIH) NATIONAL CENTER FOR HUMAN GENOME RESEARCH

THE NATIONAL CENTER FOR HUMAN GENOME RESEARCH (NCHGR) SEEKS TO RECRUIT A SCIENTIST INTERESTED IN RESEARCH GRANT ADMINISTRATION.

The Human Genome Project is well under way: it has successfully met several of its goals and is now scaling up DNA sequencing to determine the complete sequence of human DNA. NCHGR is also beginning to explore the development of innovative technologies for the study of sequence variation and the interpretation of genomic DNA sequence. The successful candidate will have the opportunity to be involved in planning future directions and administering a portfolio of grants in the area of large-scale genomic sequencing and technological innovation for the development of new genomic resources. NCHGR is looking for a creative, flexible individual interested in working in a multi-disciplinary environment.

Candidates should have a Ph.D. degree and experience in an area relevant to genomic science, including biological sciences, information science, chemistry, mathematics, physics, or engineering; have at least three years of post-graduate experience in leading an independent research project; and be interested in applying these skills to the present and future challenges offered by human genome research. The salary range is from \$54,629 to \$83,922 depending on experience and current salary.

NIH is an Equal Opportunity Employer and applications by women and minorities are strongly encouraged. Please submit a curriculum vitae and three letters of recommendation to:

**Shelley Woods, Personnel Management Specialist,
National Center for Human Genome Research,
Building 31, Room 4B25, 9000 Rockville Pike,
Bethesda, Maryland 20892; Fax: 301-402-0837; E-mail:
ShelleyW@OD.NCHGR.NIH.GOV; Closing Date: 01/27/97**

Merck Research Laboratories, a worldwide leader in biological and pharmaceutical research, has immediate openings for a Research Automation Manager, Assay Development Biochemist, and an Assay Development Molecular Biologist in the department of Assay Development and Automation to support basic research and development programs for drug discovery.

RESEARCH AUTOMATION SCIENTIST

The selected individual will be responsible for setting up, supervising and conducting high throughput screening of biochemical and cellular assays. The successful candidate will define automation opportunities and implement solutions. The position requires either a Ph.D. in a relevant discipline (Chemistry, Physical Chemistry, or Biomedical Engineering) with 3-4 years hands-on experience or a BS/MS degree with minimum 10 years of experience. Must possess extensive knowledge of computers, computer networking, server knowledge, and data administration, knowledge of the operation, maintenance and troubleshooting of laboratory bench top instrumentation, as well as hands-on experience in biochemical and cell-based assays. Good interpersonal skills are necessary to function as part of a highly interactive team.

ASSAY DEVELOPMENT BIOCHEMIST

The successful candidate will be responsible for developing screening strategies and assays and serve as a bridge between research staff and the high throughput screening lab. The individual will evaluate and implement novel technologies, convert existing assays to robotic format and support in trouble-shooting of assays. The position requires a Ph.D. degree or equivalent in Biochemistry or Physical Biochemistry with 2-3 years postdoctoral experience in enzymology. Strong computer skills as well as familiarity with various detection methods and analytical instrumentation are required. Good interpersonal skills are necessary to function as part of a highly interactive team.

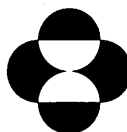
ASSAY DEVELOPMENT MOLECULAR BIOLOGIST

The successful candidate will be responsible for developing screening strategies and assays with an emphasis on cell-based assay systems. The individual will work closely with molecular biologists and automation specialists to convert existing assays to robotic format as well as evaluate and implement novel technologies. The position requires a Ph.D. degree or equivalent with postdoctoral experience in biochemistry and molecular biology and a thorough understanding of signal transduction pathways. Knowledge of computer-aided data acquisition and analysis, as well as a variety of analytical skills, is very helpful. Good interpersonal skills are necessary to function as part of a highly interactive team.

Excellent salary and benefits programs accompany these positions at our modern research facilities located 25 miles northwest of Philadelphia.

Please send curriculum vitae with cover letter and the names of three references to: **Ad #B-77, MRL Human Resources, WP42-2, Merck Research Laboratories, P.O. Box 4, West Point, PA 19486.**

Only candidates considered for interviews will receive responses. EEO/AA/V/Employer.



MERCK

POSITIONS OPEN

Biomaterials ASSISTANT/ASSOCIATE PROFESSOR. Applications/nominations for tenure-track position of Assistant/Associate Professor, Division of Biomaterials, Department of Restorative Dentistry, at The University of Texas Health Science Center at San Antonio (UTHSCSA) are invited. Position requires teaching predoctoral/postdoctoral dental students and performing independent research. D.D.S./M.S., D.D.S./Ph.D., or Ph.D. is required. Candidates who have demonstrated research achievement and ability to attract external research support are sought.

Experience in such areas as material-tissue interface, tissue response at cellular molecular level, biomimetics, nanofabrication, development of new materials, tissue engineering, and biological membrane technologies are desirable. The division undertakes basic and applied biological and material science projects that are intended to elucidate mechanisms and result in new biomedical technologies. Expertise is desired in areas of clinical application involving restoration, reconstruction, and repair within the clinical disciplines of orthopaedics, restorative dentistry, and oral maxillofacial surgery.

Application deadline is April 15, 1997. Applicants should send letter indicating their research interests along with curriculum vitae. Address applications, inquiries, and/or nominations to: **Dr. Daniel C. N. Chan, D.D.S., Department of Restorative Dentistry, UTHSCSA Dental School, 7703 Floyd Curl Drive, San Antonio, TX 78284-7890. Email: Chan@UTHSCSA.edu; FAX: 210-567-6354.** The University of Texas Health Science Center is an Equal Opportunity/Affirmative Action Employer.

ENVIRONMENTAL/MARINE GEOCHEMIST

The Chesapeake Biological Laboratory (CBL) of the University of Maryland's Center for Environmental and Estuarine Studies (CEES) seeks to fill a tenure-track position at the **ASSISTANT PROFESSOR** level. Applications are solicited from individuals who study fundamental geochemical processes using tracers in natural waters and should have research interests complementary to our faculty as described on our homepage (www.cbl.cees.edu). The successful candidate is expected to maintain an externally funded research program and actively participate in graduate education. Send a curriculum vitae, statement of research and teaching interests, three reprints, and the names and addresses of four references to: **Chair, Environmental Geochemist Search, Chesapeake Biological Laboratory, University of Maryland, CEES, P.O. Box 38, Solomons, MD 20688.** Applications received by 15 February 1997 are assured full consideration. *CEES is an Affirmative Action/Equal Opportunity Employer; women and minorities are encouraged to apply.*

VASCULAR PLANT SYSTEMATIST

The Department of Biological Sciences, East Tennessee State University, invites applications for a tenure-track position as **ASSISTANT PROFESSOR** beginning August 15, 1997. Teaching duties include participation in a general biology sequence, courses emphasizing Southern Appalachian flora, and a graduate systematics course. The individual will also be responsible for curating a regional herbarium and developing a vascular plant systematics research program that will involve undergraduate and graduate students (M.S.).

Applicants should send curriculum vitae, a statement of teaching and research interests, three letters of recommendation, and transcripts to: **Dr. David Benner, Search Committee, Department of Biological Sciences, East Tennessee State University, Johnson City, TN 37614-0703.** Deliberations will begin February 14, 1997.

Additional department information is available on web page <http://www.etsu-tn.edu/biology/BIOSCI.HTM>. *Affirmative Action/Equal Opportunity Employer.*

Microbiology/General Biology: St. Mary's College of Maryland, a small public liberal arts college, invites applications for a two semester sabbatical replacement appointment at the **ASSISTANT PROFESSOR** level to begin August 1997. Teaching responsibilities include introductory biology course for non-majors, laboratories for first year majors' courses in biology and a second-year course in genetics, and an upper-level course in microbiology. Applicants should have or expect a Ph.D. before the starting date. Please submit a curriculum vitae (including Email address) and a statement of teaching philosophy and research interests, and arrange to have three letters of recommendation sent to: **Chair, Microbiology Search Committee, St. Mary's College of Maryland, St. Mary's City, MD 20686.** Review of applications will begin on February 3, 1997 and continue until the position is filled. *St. Mary's College is an Equal Employment Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

FACULTY POSITIONS

Medical University of South Carolina
Department of Microbiology and Immunology
Charleston, South Carolina

The Department of Microbiology and Immunology of The Medical University of South Carolina invites applications for tenure-track faculty positions at the **ASSISTANT, ASSOCIATE, and FULL PROFESSOR** levels. Expertise in viral-related pathogenesis and immunology is preferred, but individuals with outstanding backgrounds in other immunologic areas or with an interest in extending their research to include studies of medically relevant microbes are also encouraged to apply. Expertise in cellular and molecular approaches is expected. The successful applicant will have Ph.D. and/or M.D. degrees and is expected to establish a high quality, extramurally funded research program and to participate in graduate student training and medical/dental school teaching.

Applicants should send their curriculum vitae, a summary of future research plans, and the names and addresses of three references to: **E. Carwile LeRoy, M.D., Professor and Chairman, Department of Microbiology and Immunology, 171 Ashley Avenue, BSB203, Charleston, SC 29425-2230. FAX: 803-792-2464; Email: leroye@musc.edu.** Information concerning the department can be found through the World Wide Web address: www2.musc.edu/mic.html. *The Medical University of South Carolina is an Equal Employment Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR ORGANISMAL BIOLOGIST/ZOOLOGIST Loyola University New Orleans

The Department of Biological Sciences, Loyola University New Orleans, invites applications for the tenure-track position of **ASSISTANT PROFESSOR** of organismal biology/zoology to begin in August 1997, pending budgetary approval. Loyola University has a strong commitment to excellence in teaching and research involving undergraduates. Teaching will include an introductory-level Zoological Diversity course as well as upper-level courses in related areas. The research area is open; however, we are especially interested in individuals who can work in Gulf coastal environments. Ph.D. is required, and postdoctoral and/or teaching experience is desirable. Candidates should submit applications, including curriculum vitae, brief statements of teaching and research interests, and three letters of reference, to: **Biology Search, Box 25, Loyola University, 6363 Saint Charles Avenue, New Orleans, LA 70118.** Review of applications will begin on January 31, 1997, and will continue until the position is filled. *Loyola University New Orleans is an Equal Opportunity/Affirmative Action Employer.*

PLANT CELL BIOLOGIST The University of Texas at Austin

The Department of Botany, University of Texas (UT), invites applications for a tenure-track position in plant cell biology at the **ASSISTANT/ASSOCIATE PROFESSOR** level, to begin fall 1997. We are interested in applicants who are investigating any important problem in cell biology. The successful applicant will be expected to develop a vigorous research program, obtain external funding, and teach graduate and undergraduate students. Applicants should send curriculum vitae, statement of research and teaching interests, and three to five reprints, and should arrange to have three letters of recommendation sent to: **James D. Mauseth, Search Committee Chair, Department of Botany, The University of Texas at Austin, Austin, TX 78713.** Screening will begin February 14, 1997. *UT-Austin is an Affirmative Action/Equal Opportunity Employer.*

TENURE-TRACK FACULTY POSITION Department of Pharmacology, Toxicology and Therapeutics University of Kansas Medical Center

Applicants are sought for a full-time, tenure-track faculty position at the level of **ASSISTANT or ASSOCIATE PROFESSOR**. Candidates must have a Ph.D. or M.D. degree, postdoctoral experience, and a record of research productivity. Particular emphasis is placed on recruiting neuropharmacologists and neurotoxicologists with experience in transgenic technology. Application material, including curriculum vitae and the names of three references, should be sent to: **S. J. Enna, Ph.D., Chair, Department of Pharmacology, Toxicology and Therapeutics, University of Kansas Medical School, 3901 Rainbow Boulevard, Kansas City, KS 66160-7417.** *The University of Kansas is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

FACULTY POSITION

Assistant Professor of Biological Sciences
Ohio Northern University

The Department of Biological Sciences invites applications for the position of **ASSISTANT PROFESSOR** of Biological Sciences to begin September 1, 1997. The position will be a four-year renewable contract nine-month appointment or a visiting nine-month appointment, dependent on interests and qualifications of the candidates. A Ph.D. degree, evidence of effective undergraduate teaching, and an ability to collaborate with other faculty in teaching are expected. Teaching assignments will include introductory biology, introductory zoology, and junior/senior-level cell biology. Faculty will be expected to mentor student-based research. The credentials must indicate strong preparation in cell biology and zoology. For full consideration, submit by February 15, 1997, curriculum vitae, evidence of undergraduate teaching ability, a statement of teaching philosophy, official transcripts of undergraduate and graduate training, and three letters of recommendation to: **Terry Keiser, Chair, Department of Biological Sciences, Ohio Northern University, Ada, OH 45810. Email: t-keiser@onu.edu.** Applications will be received until the position is filled. *Ohio Northern University is an Equal Opportunity/Affirmative Action Employer. Women and members of minority groups are encouraged to apply.*

ASSISTANT PROFESSOR. The Department of Physiology, University of Florida College of Medicine, seeks an outstanding individual to become a tenure-track faculty member at the level of Assistant Professor. Initial support will be provided by the Howard Hughes Medical Institute Research Resources Program for Medical Schools. Applicants must have an M.D., Ph.D., or equivalent and postdoctoral experience, and should develop a high quality, independent research program with extramural support in the area of growth factors and growth related processes. We are seeking individuals with expertise in molecular, cellular, and/or genetic approaches to this research area. The primary appointment will be in the Department of Physiology and it is expected that the successful candidate will complement current department and college strengths in the areas of hypertension research, neuroendocrinology, mammalian genetics, wound healing, neural signal transduction, and neonatal physiology. Future responsibilities will include participation in departmental teaching. Applicants should submit a curriculum vitae including a statement of research plans and have three letters of reference sent to: **Dr. Colin Summers, Department of Physiology, P.O. Box 100274, University of Florida, Gainesville, FL 32610-0274.** Salary is negotiable. Deadline for receipt of application is February 28, 1997. Anticipated start date is July 1997. *Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR Developmental or Evolutionary Plant Biology

Florida International University (FIU), the State University of Florida at Miami, seeks to fill a **TENURE-TRACK** position in Plant Developmental or Plant Evolutionary Biology to start August 1997. We are especially interested in candidates with expertise in genetics, cell biology, or molecular biology. The successful candidate will teach undergraduate and graduate courses in his or her area, and establish a successful research program. Ph.D. required; postdoctoral experience preferred. More detailed information about the position can be found at <http://www.fiu.edu/orgs/biology.plantdev.html>. To apply, send curriculum vitae, statements of research and teaching goals, and three letters of reference by February 3, 1997 to: **Dr. Jennifer Richards, Plant Biology Search and Screen Committee, Department of Biological Sciences, Florida International University, Miami, FL 33199.** *FIU is an Equal Access/Affirmative Action/Equal Opportunity Employer and a member of the State University System of Florida.*

PART-TIME MICROSCOPE SALES POSITION

Manufacturer of an important new high-resolution optical 3D microscope seeks sales representatives. **MICROSCOPISTS** who will continue to work in disciplines benefiting from 3D analysis such as cell biology, developmental biology, neurobiology, microbiology, and structural biology are especially desired. Send résumé to:

InGen Corporation
235 Montgomery Street, Suite 300
San Francisco, CA 94104

Addiction: From Research to Recovery

The Addiction Research Foundation is an academic health sciences centre affiliated with the University of Toronto. Our Biobehavioural Research Department aims to better understand the processes of drug dependence in order to facilitate treatment interventions. We are currently seeking a scientist to join our multi-disciplinary team.

Biobehavioural Scientist

Your role, as part of the Biobehavioural Research Department's team of scientists, will be to manage research programs directed at defining and clarifying the interactions of psychoactive drugs with human subjects, and to participate in the pre-clinical testing of interventions that can be developed to improve treatment outcomes.

You possess a doctoral degree, or its equivalent, in a relevant scientific discipline, as well as solid research experience in the area of drug dependence. Your background includes experience in research studies with human subjects. You are capable of establishing independent lines of investigation while at the same time working collaboratively with other professionals within both the Department and the Foundation as a whole. You are capable of obtaining extramural research support.

This career-track position is supplemented by the availability of start-up funds.

Interested individuals may apply, in confidence, by **February 3, 1997**, quoting **File #96-074**, to: **Dr. William Corrigan, Director, Biobehavioural Research Department, c/o Human Resources, Addiction Research Foundation, 33 Russell Street, Toronto, Ontario, Canada, M5S 2S1**. In accordance with Canadian Immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.



Addiction Fondation
Research de la recherche
Foundation sur la toxicomanie

VIRAL PATHOGENESIS

SmithKline Beecham Pharmaceuticals, a worldwide leader in pharmaceutical research, has a challenging opportunity for an investigator within the Department of Molecular Virology and Host Defense, whose activities encompass basic and applied research in molecular virology, immunity to infectious diseases, and hematopoiesis.

The candidate will have responsibilities for establishment and leadership of new research initiatives in viral pathogenesis, with a focus on immunopathology and the development of novel therapeutic strategies. The candidate will be expected to develop collaborative research efforts which address host/virus interactions at the cellular and molecular levels; define viral models for profiling selective anti-inflammatory agents; and apply differential gene expression analysis technologies towards discovery of viral proteins and virally-induced host proteins involved in pathogenesis or protective immunity.

Qualified candidates will have a PhD in molecular virology, molecular immunology, or a related field, with at least 3 years' post-graduate/doctoral experience in virus/host interactions, chemokine biology, the role of the immune response in pathogenesis of viral infections, or closely related areas. Experience with animal models of viral infection is desirable. The candidate should have excellent written and oral communication skills, a strong publication record, and ideally experience directing other scientists. Previous experience in a pharmaceutical or biotechnology setting is highly desirable, but not required.

Located in a state-of-the-art research facility in suburban Philadelphia, SmithKline Beecham offers an excellent compensation/benefits/relocation package. Qualified candidates should forward resume and salary requirements to: SmithKline Beecham Pharmaceuticals, Job Code S5-0460, P.O. Box 2646, Bala Cynwyd, PA 19004. For more information on SmithKline Beecham, see our Website at <http://www.sb.com>. We are an Equal Opportunity Employer, M/F/D/V.



SmithKline Beecham
Pharmaceuticals

Challenging the natural limits.

SUNNYBROOK HEALTH SCIENCE CENTRE TRAUMA RESEARCH PROGRAM UNIVERSITY OF TORONTO TORONTO, CANADA SCIENTIST

The Trauma Research Program at Sunnybrook Health Science Centre is seeking a full-time scientist with interests in angiogenesis or molecular neurobiology/neuroprotection/neuroanaesthesia as these areas relate to trauma. Present members have interests in circulatory physiology, matrix biology and neuronal injury. The research complements a Clinical Program which represents the largest Trauma Unit in Canada.

The candidate will hold a Ph.D. and preference will be given to those sufficiently advanced in their research career to have published widely and successfully competed for peer-reviewed research funding. However, consideration will be given to promising young investigators completing suitable post-doctoral training. It is expected that the candidate will seek cross-appointment to one of the Graduate Departments at the University of Toronto with the potential to supervise research trainees at all levels.

In accordance with its employment equity policy, the University of Toronto encourages applications from qualified women and men, members of visible minorities, aboriginal peoples and persons with disabilities. In accordance with Canadian Immigration requirements this advertisement is directed to Canadian citizens and permanent residents.

Interested applicants should submit a complete curriculum vitae, as well as letters from three referees, by April 18, 1997 to:

Dr. Miles G. Johnston
Director, Trauma Research Program
Sunnybrook Health Science Centre
S-113A Research Building
2075 Bayview Avenue
North York, Ontario
M4N 3M5 Canada

CANCER EPIDEMIOLOGIST

A tenure track position is available immediately in the National Cancer Institute (NCI), National Institutes of Health (NIH), for a scientific investigator with expertise and experience in diet, nutrition and cancer epidemiology. Candidates should have a doctorate in nutrition or closely related field with a strong background in laboratory studies related to human nutrition and experience in epidemiology. S/he should have demonstrated experience in interdisciplinary studies which integrate laboratory methods into epidemiologic research design investigating diet and cancer. Experience in development and validation of biological markers, assessment of genetic susceptibility factors, and development of questionnaires for dietary exposure, and integration of all these components into robust epidemiological study design is required. The successful candidate will develop an independent research program focused on interdisciplinary investigations of dietary exposure (assessed via questionnaire and biological specimens) with genetic and other host factors that may be involved in the etiology diet-related tumors. Interested individuals should send a cover letter, curriculum vitae, brief summary of research interests and experience, copies of selected publications, and three letters of reference to:

Ms. JUDY SCHWADRON
PROGRAM ANALYST
DIVISION OF CANCER EPIDEMIOLOGY
AND GENETICS
NATIONAL CANCER INSTITUTE
EXECUTIVE PLAZA NORTH, ROOM 539
BETHESDA, MD 20892



The closing date for applications is February 15, 1997.
NIH is an Equal Opportunity Employer

POSITIONS OPEN

EDUCATOR Assistant or Associate Professor

The Department of Microbiology and Immunology at Wright State University is seeking applications for a **TENURE-TRACK** Educator. Applicants should demonstrate expertise in teaching with an in-depth and current knowledge of general medical microbiology, experience in teaching laboratory aspects of microbiology, excellent communication and teaching skills, computer skills, and evidence of leadership in educational development. The successful candidate will have the opportunity to participate in ongoing research programs within the department, and will be expected to seek funding for teaching/education from appropriate sources and to publish in educational journals. A Ph.D. in microbiology or related science is required; rank and salary will be negotiated based on professional experience and credentials. Applicants should forward a résumé and the names of three references to: **Dr. Neal S. Rote, Chair, Department of Microbiology and Immunology, 002 Mathematics and Microbiology Building, Wright State University, Dayton, OH 45435.** Initial review of applications will begin January 15, 1997 and continue until the position is filled. *Wright State University is an Affirmative Action/Equal Opportunity Employer.*

TENURE-TRACK ASSISTANT PROFESSOR Department of Pharmacology, Medical College of Ohio

Applications are invited for an **ASSISTANT PROFESSOR** to join an established department with a long-standing record of extramural support and teaching excellence. Start-up funds and excellent lab space are available. The successful candidate will have demonstrated ability, or exceptional promise, to direct a state-of-the-art, extramurally funded research program addressing important questions at the cellular or molecular level. Applicants should have significant post-doctoral experience and the appropriate background to participate in teaching medical and graduate students. Current research in the department includes molecular studies of ion transport proteins and channels, functions of calpain and other regulated intracellular proteases, mechanisms of action of steroids and insulin, and regulation of neurotransmitter receptor function. Applicants should send a description of current research and future plans, curriculum vitae, and names and addresses of three references to: **H. C. Rosenberg, M.D., Ph.D., Department of Pharmacology, Medical College of Ohio, P.O. Box 10008, Toledo, OH 43699.** Applications will be considered until the position is filled, but those interested are encouraged to apply before March 1, 1997 to ensure full consideration. *Affirmative Action/Equal Opportunity Employer.*

SCIENTIST

Are you ready for an exciting challenge? Proteinix, Inc., a rapidly growing company with a portfolio of recently issued patents on the ubiquitin fusion technology and its numerous applications, is seeking a **SCIENTIST**. This position offers many opportunities as the company grows. Applicants should have a Ph.D. in molecular biology or microbial genetics, over four years of experience working with heterologous gene expression in bacteria, and significant experience with the use of various vector systems in bacteria for studying genetics and gene expression. The candidate should also be familiar with the fermentation scale-up of bacterial cultures. Effective oral and written communication skills are a must. Excellent salary and benefits package. Send résumé including salary history to: **Proteinix, Inc., 16020 Industrial Drive, Gaithersburg, MD 20877, Attention: Human Resources/JK.** *Equal Opportunity Employer.*

SENIOR SCIENTIST GENETICIST, MOLECULAR BIOLOGIST

A biotechnology company located in Haifa, Israel, is seeking a geneticist-molecular biologist. Candidates should have Ph.D. and strong background in gene mapping and isolation. Send curriculum vitae and list of three references to: **Vitality Biotechnologies, Einstein Building, Carmel Industrial Park, Tirat-Hacarmel, POB 248, Israel. FAX: 972-48579839 or 972-48379039; Email: pillar@netvision.net.il.**

POSTDOCTORAL POSITION available immediately to study the molecular biology and signal transduction of epithelial wound repair. Strong background in cellular/molecular biology required. Please submit curriculum vitae, a brief summary of research experience, and names of three references to: **Dr. Vickery Trinkaus-Randall, Department of Biochemistry, L907, Boston University School of Medicine, Boston, MA 02118. FAX: 617-638-5337; Email: vickery@med-biochem.bu.edu.**

POSITIONS OPEN



RESEARCH BIOCHEMIST/MICROBIOLOGIST AND SENIOR SCIENTIST

QUEST INTERNATIONAL is a world wide based flavor and food ingredient company involved in the food and pharmaceutical industries. We have immediate openings in our Product and Process Development group at the Norwich, New York facility for two highly motivated professionals with Bachelor's, Master's, or Ph.D. in biochemistry or microbiology with two to five years of industrial experience.

Expertise in developing new products for industrial fermentations and microbiological media for growth assays and diagnostics is essential, as well as expertise in sourcing and evaluating raw materials and scale up, and good computer skills. Statistical design of experiments is desirable.

Individuals must be self starters, be able to work independently, and possess good project management and leadership skills. We are looking for team players who can innovatively solve problems and who have excellent written and oral communication skills. Excellent salary and benefits, including 401K Plan.

Please direct your résumé to: **Joanne Cevasco, Human Resource Manager, Quest International, P.O. Box 630, Norwich, NY 13815.**

Equal Opportunity Employer.

The Texas Heart Institute invites applications for positions in cardiovascular laboratory and clinical research. Qualified applicants should have research interests in vascular and molecular biology, basic gene therapy, cardiovascular surgery, or experimental cardiovascular pathology. Please send curriculum vitae, statement of research interests, and three references to: **Office of Research Administration, MC 3-116, Texas Heart Institute, 1101 Bates Street, Houston, TX 77030.** *Texas Heart Institute is affiliated with the University of Texas Medical School at Houston. Affirmative Action/Equal Opportunity Employer.*

DARTMOUTH MEDICAL SCHOOL EPR and NMR Centers

INSTRUMENTALISTS (two). Requires strong background in instrumental development as part of a multidisciplinary team. The principal duties involve the development of the instrumentation, including resonators suitable for use in large animals and human subjects. Hands-on experience in instrument development is essential; experience with magnetic resonance is helpful.

BIOLOGISTS (two). 1) Using EPR techniques to measure intracellular oxygen in mammalian cells in culture, including the elucidation of the mechanisms for gradients. Excellent skills in cell culture are essential; prior experience with EPR is desirable. 2) In Biomedical NMR laboratory in projects on metabolic and vascular responses to hypoxia in brain (including ischemia-reperfusion) and tumors. Experience working with animals (cannulations etc.) is essential; prior experience with *in vivo* NMR is desirable.

Send résumé and arrange for three letters of reference to be sent to: **H. M. Swartz, M.D., Ph.D., Dartmouth, 7785 Remsen 600D, Hanover, NH 03768. Email: harold.swartz@dartmouth.edu.**

SENIOR GRANTS ADMINISTRATORS

A&PC is a rapidly expanding biotech company seeking motivated individuals for the following positions:

Three Senior Grants Administrators having five years minimum experience.

Job requires self starting individuals who are detail-oriented and have extensive experience in the administration of research grants and contracts from federal and non-federal sources.

A competitive fringe benefits package and pension plan are available. Salary will be commensurate with experience. Applicants should send a letter of interest and résumé, by January 10, 1997 to:

**A&PC
Attention: Human Resources
P.O. Box 130517
St. Paul, MN 55113**

Equal Opportunity Employer

POSITIONS OPEN

ASSISTANT SPECIALIST

A full-time position (minimum \$32,556 annual) in mammary cancer research is available from February 1, 1997 to study oncogenes and differential gene expression in normal mammary tissues and chemical carcinogen induced rat mammary tumors. M.A. with a background in mammary tumorigenesis, apoptosis, and regulation of gene expression is required but Ph.D. is preferred. Experience in differential display, PCR-based cloning, library construction, site-directed mutagenesis, chromosomal mapping, and mammary tissue culture is desirable. Qualified applicants interested in this position should send a curriculum vitae and three letters of reference to: **Dr. S. Nandi, Cancer Research Laboratory, 491 Life Science Addition, The University of California at Berkeley, Berkeley CA 94720. FAX: 510-642-5741.** *An Equal Opportunity/Affirmative Action Employer.*

SLEEP LABORATORY DIRECTOR

Beth Israel Deaconess Medical Center is searching for a **SLEEP RESEARCHER** who will have administrative responsibility for the Clinical Sleep Laboratory. Candidates should have a Ph.D. or equivalent degree and an active, funded research program, either at a basic or clinical level, in sleep, circadian biology, or their disorders. This will be a full-time appointment at Harvard Medical School, with faculty rank open. Beth Israel Deaconess has a busy Sleep Clinic and Laboratory, with about 1,000 sleep studies done each year. The candidate will be expected to spend about half time administering the Clinical Sleep Laboratory, with the collaboration of the Medical Director for the Sleep Laboratory, and will be responsible for overseeing a staff of Sleep Laboratory technicians and maintaining a high technical standard. Appropriate laboratory resources will be available to allow the Sleep Laboratory Director to spend about half time engaged in funded research. Candidates should provide a curriculum vitae, brief summary of research interests, two or three key reprints, and a list of three individuals who may be contacted as references to: **Clifford B. Saper, M.D., Ph.D., Department of Neurology, Beth Israel Deaconess Medical Center, 330 Brookline Avenue, Boston, MA 02215.** *Beth Israel Deaconess is an Affirmative Action/Equal Opportunity Employer that specifically seeks the applications of women and members of minority groups.*

MASS SPECTROSCOPIST POSITION

The College of Chemistry at the University of California, Berkeley, has a position open for a mass spectroscopist (**ASSISTANT SPECIALIST** level) experienced in the analysis of proteins, peptides, and other biomolecules. Candidates should have a Master's degree, preferably a Ph.D., in chemistry, biochemistry, or related field. Experience in LC/MS using electrospray ionization for the study of proteins/peptides and familiarity with laboratory techniques in protein chemistry are required. Experience in the operation of quadrupole mass spectrometers is essential. Candidates with additional experience in EI and FAB ionization techniques using sector mass spectrometers will be given preference. Salary commensurate with experience. Send résumé and two letters of recommendation to: **Dr. John R. O'Leary, College of Chemistry, University of California, Berkeley, CA 94720-1460.** Deadline for résumés and letters is February 1, 1997. *The University of California is an Equal Opportunity/Affirmative Action Employer.*

INSTRUCTOR in Radiology—The Massachusetts General Hospital (MGH) NMR Center is currently seeking a Board-certified radiologist with a Ph.D. in NMR spectroscopy to function at the staff level as part of a highly successful research team. Please send curriculum vitae, a statement of research interests, and the names and addresses of three references to: **Thomas J. Brady, M.D., MGH-NMR Center, Department of Radiology, CNY2301, 13th Street, Charlestown, MA 02129.** *The Massachusetts General Hospital and Harvard Medical School are Affirmative Action/Equal Opportunity Employers.*

TWO POSTDOCTORALS in either Plant Disease Epidemiology or Molecular Genetics. Develop disease warning system using GIS and DNA fingerprinting, respectively. Ph.D. in plant pathology/ecology or molecular biology, respectively. Start January 1997. Reply to: **A. van Bruggen, Department of Plant Pathology, or R. Michelmore, Department of Vegetable Crops, respectively, University of California, Davis, CA 95616.** *Equal Opportunity/Affirmative Action Employer.*

DIRECTOR
Los Alamos National Laboratory
University of California
Los Alamos, New Mexico

The President and the Regents of the University of California invite nominations and applications for the position of Director of the Los Alamos National Laboratory (LANL). The appointment will be effective October 1, 1997. Los Alamos National Laboratory was established in 1943 as Project Y of the Manhattan Engineer District with a mission to develop the world's first atomic bomb. Today, LANL is a multidisciplinary, multiprogram laboratory of the Department of Energy (DOE). The University of California has managed the Laboratory for the DOE and its predecessor agencies since its inception in 1943. The Laboratory's original mission to design, develop, and test nuclear weapons has broadened and evolved as technologies, U.S. priorities, and the world community have changed. Today, the core mission of the Laboratory is reducing the global nuclear danger. The principal components of this mission are the stewardship and support of the nation's nuclear stockpile; management, supply, and disposition of critical nuclear weapons materials; non- and counter-proliferation technologies and activities; and cleanup of the legacy of fifty years of nuclear weapons development and production. The core mission is supported by the technical competencies developed for national security and other programs. These competencies in turn allow the Laboratory to perform large-scale, interdisciplinary research and development that contributes to conventional defense and civilian national needs. Partnerships with industry and universities serve to increase the effectiveness of the Laboratory's facilities and staff and contribute to the nation's economic competitiveness. The Laboratory maintains an intellectual environment intended to foster scientific creativity in support of the national interest. In its operations, the Laboratory is committed to ensuring that all activities are performed in a manner that protects employees, the public, and the environment. The Laboratory has an operating budget of about \$1.1B and a staff of approximately 7,000 University of California employees and 3,000 contractor employees. The Laboratory is operated by the University through a performance based management contract. The LANL site consists of approximately 43 square miles including 50 designated technical areas and nearly 1,000 permanent buildings of about 5,000,000 square feet. LANL is situated in the town of Los Alamos, approximately 25 miles northwest of Santa Fe. The Director is responsible for the overall leadership and management of the Laboratory and reports directly to the President as an Officer of the University of California. Within University policy, the Director exercises broad, delegated powers for the administration of the Laboratory. Principal duties of the Director include the technical management of laboratory programs, the efficient and safe operation of all Laboratory activities, the intellectual health and long-term vitality of the Laboratory, and the stewardship of the human, financial, and physical resources essential to the successful fulfillment of the Laboratory's mission. The Director is responsible for defining and negotiating the technical and fiscal scope of Laboratory programs with federal officials, and for programmatic execution with highest quality. The Director also is responsible for the annual certification to the President of the United States of the safety, security, and effectiveness of the nuclear weapons designed by the Laboratory. Candidates should have demonstrated substantial leadership in science and technology, including an extensive record of scientific and technical accomplishments, and significant experience in the management of large, diverse and complex organizations. A knowledge of national security and nuclear weapons issues is desirable. Nominations and applications, accompanied by current resumes, may be addressed to: **The President, Attn: LANL Search, 300 Lakeside Drive, University of California, Oakland, California 94612-3550**, and should be received no later than February 21, 1997, to be given full consideration. *An Equal Opportunity/Affirmative Action Employer*

Creating The Premier Gene Therapy Discovery Company

GENEMEDICINE, INC. is pioneering the pharmaceutical use of genes to treat disease. Our interdisciplinary team of scientists is currently developing gene medicines to treat cancer, asthma, infectious disease and immune disorders. GENEMEDICINE is seeking to appoint a senior scientist in biodistribution. Join our thriving research community in applying your skills in in vivo biodistribution to create new therapies for treating human disease.

SR. SCIENTIST - BIODISTRIBUTION

We seek a highly motivated Sr. Scientist to join our biodistribution group that is engaged in the assessment of the *in vivo* distribution of formulated plasmids and their intracellular disposition and expression in *in vivo* models. The successful candidate will design, coordinate and perform *in vivo* experiments. The candidate will also serve as a key member of our asthma program contributing expertise in *in vivo* gene transfer, plasmid pharmacokinetics and ideally, devices for administration to airways and solid tissues. Candidates will have a Ph.D. in Pharmacokinetics and/or Cell Biology and preferably relevant postdoctoral experience. Candidates will also have demonstrated excellent written and oral communication skills as well as the ability to work effectively in a team environment.

GENEMEDICINE, INC. offers career growth and a highly competitive compensation and benefits package. For confidential consideration, please send resume with salary requirements to: **GENEMEDICINE, INC., Attn: Human Resources, 8301 New Trails Drive, The Woodlands, TX 77381-4248; Fax (713) 364-0858. E-Mail: stankk@gmiatt.attmail.com**
 EOE.



GENEMEDICINE, INC.

OREGON STATE UNIVERSITY

DIRECTOR, ENVIRONMENTAL HEALTH SCIENCES CENTER

Oregon State University invites nominations and applications for the position of Director of the Environmental Health Sciences (EHS) Center. Funded by a NIEHS Center grant of approximately \$1.5 million annually, this 30-year-old Center is internationally recognized for its expertise and its related high quality research programs. The EHS Center is a national resource for multidisciplinary approaches to problems in human environmental health. The director will hold a 1.00 FTE twelve-month appointment (0.75 FTE as director, 0.25 FTE in an academic department) with a nine-month tenure commitment at the rank of professor within an academic department and college that is appropriate to the individual's background.

We are looking for a well-established scientist to provide scientific and administrative leadership for the EHS Center within the policies of NIEHS and Oregon State University. A distinguished record of scholarly accomplishment and leadership is required for continued program development and EHS Center support. A doctorate degree is required and the director is expected to maintain a highly recognized research program in a human health-related area that complements the mission of the EHS Center and the NIEHS. Successful teaching experience is required.

Nominations should include name and address of the nominee and a letter addressing the qualifications of the individual. Applicants should submit a letter of interest and a résumé along with names, addresses, phone numbers and e-mail address of four references to:



Dr. Max Deinzer
Chair, Search Committee
Environmental Health Sciences Center
Oregon State University
1011 ALS Bldg.
Corvallis, OR 97331-7302
e-mail: deinzerm@ccmail.orst.edu

References will not be contacted without prior approval of the applicant.

Nominations are due February 1, 1997.

For full consideration, apply by March 1, 1997; position shall remain open until filled.

Position is available July 1, 1997.

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

POSITIONS OPEN

Brigham and Women's Hospital and Harvard Medical School invite applications for a laboratory **RESEARCH POSITION** in the field of lung cancer biology. We seek a candidate with a Ph.D. in a biomedical field and experience in molecular biology to participate in our research activities that include work on DNA, RNA, and protein levels. This position permits significant opportunities for career growth and development. Please send a curriculum vitae and the names and addresses of three references to: William G. Richards, Ph.D., Division of Thoracic Surgery, Brigham and Women's Hospital, 75 Francis Street, Boston, MA 02115. FAX: 617-730-2898; Email: wrichard@warren.med.harvard.edu.

SENIOR RESEARCH ASSOCIATE with experience in cellular immunology including cloning and molecular biology to work on human immunology and the development of gene therapy and T-cell vaccines in autoimmune nervous system disease. Future possibility for faculty position. Send curriculum vitae and names of three references to: Leslie P. Weiner, M.D., Department of Neurology, 1510 San Pablo Street, 646, Los Angeles, CA 90033-4606. Email: lweiner@zygote.hsc.usc.edu. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL/LECTURER POSITION

To study the metabolic effects of nutrient processing in amphibians and reptiles. Experience with either analysis of nutrients in food or measurement of metabolic rate of vertebrates. Teach two courses or labs each semester. Two years, beginning August 1, 1997. Send curriculum vitae, names of three references, and statement of research experience and interests to: Dr. Robert E. Gatten, Jr., Department of Biology, University of North Carolina, Greensboro, NC 27412. Deadline for receipt of applications is January 31, 1997.

POSTDOCTORAL POSITIONS are available immediately to study mechanisms of drug-induced neurotoxicity and renal toxicity. Ongoing projects include examination of the chemical-induced stress response, interaction of chemicals with chromatin, and signal transduction. Experience in molecular or cellular biology is required. Applicants must have a Ph.D. in biochemistry, molecular biology, or related field. Please send curriculum vitae and arrange for three letters of reference to be sent to: Dr. Terrence J. Monks, Division of Pharmacology and Toxicology, College of Pharmacy, University of Texas at Austin, Austin, TX 78712. FAX: 512-471-5002; Email: scouser@mail.utexas.edu.

POSTDOCTORAL POSITION available to study hematopoietic ontogeny and fetal cytokines/growth factors. Candidates must have a Ph.D. and extensive experience in flow cytometry, tissue culture, and molecular techniques. Send curriculum vitae with research experience and interests, and three references, to: Dr. Alice F. Tarantall, California Regional Primate Research Center, University of California, Davis, CA 95616-8542. FAX: 916-752-2880. Equal Opportunity Employer.

POSTDOCTORAL position available immediately for NIH-funded investigation into toxicant-induced cell proliferation in liver. Investigations focus on signal transduction, immediate early genes, growth factors, cytokines, and related molecular biology of tissue repair mechanisms in animal and cell systems. Send curriculum vitae and references to: Dr. Hariharan M. Mehendale, Division of Toxicology, School of Pharmacy, Northeast Louisiana University, Monro, LA 71209. Email: pymehendale@alpha.nlu.edu.

POSTDOCTORAL POSITION for development of assays to determine the immune responses in patients undergoing therapy with cancer vaccines. Assays to be developed include ELISPOT and CTL. The position will be based in laboratories in the Washington, D.C. area and the individual will have interaction with experts working in this field nationwide. Please send curriculum vitae to: Dr. Lynn E. Spittler, Jenner Technologies, 1895 Mountain View Drive, Tiburon, CA 94920. Email: lspittler@hooked.net.

POSTDOCTORAL POSITION available to perform and supervise the chemical synthesis and biosynthesis of selectively and uniformly labeled nucleosides and phosphoramidites. Opportunity to acquire experience in applying solid state NMR techniques to the study of nucleic acid structure and dynamics. Send letter of interest, curriculum vitae, and names of three references to: Dr. Gary Drobny, Department of Chemistry, University of Washington, Seattle, WA 98195.

POSITIONS OPEN

POSTDOCTORAL POSITION PROTEIN STRUCTURAL BIOLOGY

Join a team of crystallographers, chemists, biochemists, and molecular biologists in the application of thermodynamic methods to structure-based drug design. Experience in thermodynamic analysis of protein folding/interactions desirable; salary is competitive and commensurate with experience. Send curriculum vitae and names/addresses of three references to: Dr. C. G. Brouillette, Associate Director of Structural Biology, Center for Macromolecular Crystallography, University of Alabama at Birmingham, BHSB 290, 1918 University Boulevard, Birmingham, AL 35294. FAX: 205-934-0480; Email: brouillette@orion.cmc.uab.edu. University of Alabama at Birmingham is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP HEPATITIS C VIRUS REPLICATION AND MOLECULAR THERAPEUTICS

Job opening to study recombinant hepatitis C virus RNA polymerase and mechanisms of HCV replication. Interdisciplinary interactions with molecular modeling facility, antiviral researchers in the Chemistry Department, and investigators at the Centers for Disease Control. Salary and benefits competitive. Send curriculum vitae and references to: Dr. Curt H. Hagedorn, Genetics—Winship Cancer Center, 2101 Woodruff Memorial Research Building, Emory University School of Medicine, Atlanta, GA 30322. Email: chagedo@bimcore.emory.edu; FAX: 404-727-5767.

Emory University is an Equal Opportunity Employer.

One **POSTDOCTORAL POSITION** is available beginning immediately in the Department of Ophthalmology and Visual Sciences, to study etiopathogenesis of intermediate and anterior uveitis using Lewis rat model of experimental autoimmune anterior uveitis. Requires recent Ph.D.; experience in cell culture and cellular immunology will be preferred. Send curriculum vitae and names of three references to: Dr. Nalini S. Bora, Ph.D., Department of Ophthalmology and Visual Sciences, Box 8096, Washington University School of Medicine, 660 South Euclid, St. Louis, MO 63110, U.S.A. FAX: 314-362-3638; Telephone: 314-362-1665; Email: Bora@am.seer.wustl.edu. Washington University is an Equal Employment Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION is immediately available for a molecular biologist to study the regulation of expression of multidrug-resistance (MDR) related genes or the pro-apoptotic gene *bax* in MDR cancer cells. Recent Ph.D. plus significant experience in molecular biology required. Mail or FAX a curriculum vitae with the names, telephone and FAX numbers of three references to: A. R. Safa, Ph.D., Department of Experimental Oncology, Hollings Cancer Center, Medical University of South Carolina, 171 Ashley Avenue, Charleston, SC 29425-2850. FAX: 803-792-3200.

POSTDOCTORAL/IMMUNOLOGY

Two positions to study either self-nonsel discrimination in anti-tumor immunity or lineage relationship between effector and memory CTL. Experience in immunology or molecular biology required. Send curriculum vitae and names of referees to: Dr. Y. Liu, Associate Professor, Department of Pathology, NYU Medical Center, 550 First Avenue, New York, NY 10016. FAX: 212-263-8179.

POSTDOCTORAL POSITION

Respiration physiology/acid-base balance of hibernating turtles, including field and laboratory work, beginning about 1 July 1997. SCUBA certification desirable. Gordon Ultsch, Department of Biological Sciences, University of Alabama, Tuscaloosa, AL 35487. Telephone: 205-348-1827; Email: gultsch@biology.ua.edu.

POSTDOCTORAL RESEARCH positions for chemokine receptor signal transduction pathways and transcriptional regulation including transgenic models. Prerequisites include ability to qualify for training grants. Background in molecular and cell biology. Send curriculum vitae and three letters of reference to: Dr. Ann Richmond, Department of Cell Biology, Vanderbilt University, Nashville, TN 37232. FAX: 615-343-4539; Email: ann.richmond@mcmail.vanderbilt.edu.

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIPS Musculoskeletal Biology/Biomechanics

The Biomechanics and Biomaterials Research Center at Indiana University is recruiting two **POSTGRADUATE FELLOWS** (Ph.D., M.D., D.D.S.) for careers in musculoskeletal research. Existing strengths are: skeletal biomechanics, bone cell/molecular biology, dental implants, osteoporosis, osteoarthritis, and computational/experimental mechanics. Send curriculum vitae and names of references to: Dr. David Burr, Department of Orthopedic Surgery, Indiana University School of Medicine, Indianapolis, IN 46202. Affirmative Action/Equal Opportunity Employer. Minority and female applicants encouraged. U.S. citizens/permanent residents only.

POSTDOCTORAL POSITIONS available to work on the development of RNA-based therapeutics. Potential projects include employing trans-splicing ribozymes to repair mutant transcripts (Jones et al., *Nature Medicine*, 2:643, 1996) and utilizing *in vitro* selection techniques to isolate RNA ligands that can impede protein function (Lee and Sullenger, *Journal of Experimental Medicine*, 184: 315, 1996). Applicants should have a Ph.D. or M.D. and relevant research experience. Send curriculum vitae, a brief description of research experience, and three letters of reference to: Dr. Bruce A. Sullenger, Box 2601, Department of Surgery, Duke University Medical Center, Durham, NC 27710. Duke University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately to study lipid metabolism in healthy and obese individuals. Candidates should have experience in lipid analyses. Experience with isotopic tracer techniques is desirable. The successful applicant will join a large group of researchers in the field of *in vivo* metabolic regulation. Minimum requirements: M.D. or Ph.D. in biological sciences. Please mail or fax your curriculum vitae, names of three references, and a brief description of your research experience to: Dr. Robert R. Wolfe, University of Texas Medical Branch, Shriners Burns Institute, 815 Market Street, Galveston, TX 77550. FAX: 409-770-6825.

POSTDOCTORAL POSITION to study the immunoregulation of cytokines. Studies range from cellular experiments investigating intracellular signaling mechanisms to animal experiments using a model of inflammatory bowel disease. Experience in molecular biology and cellular techniques is desirable. Send curriculum vitae with three references to: Daniel G. Remick, M.D., Department of Pathology, University of Michigan Medical School, M2210 Med Sci I, 1301 Catherine Road, Ann Arbor, MI 48109-0602. FAX: 313-763-6476; Email: remickd@umich.edu. A nondiscriminatory, Affirmative Action Employer.

POSTDOCTORAL POSITION Tumor Suppressor Gene Research Duke University

Position available immediately in an NIH-funded study to investigate the role of the genomic imprinted M6P/IGF2 receptor tumor suppressor gene in carcinogenesis. Applicant with a Ph.D. or M.D. and a strong molecular biology background should submit curriculum vitae to: Dr. Randy L. Jirtle, Box 3433, Duke University Medical Center, Durham, NC 27710. FAX: 919-684-5584; Email: jirtle@radonc.duke.edu. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION to characterize and purify Salmonella-derived factors that activate macrophage cytokine synthesis. Experience with protein purification and cell culture essential. Training in molecular biology desirable. Send curriculum vitae and the names of three references to: Dr. Steven B. Mizel, Department of Microbiology and Immunology, Bowman Gray School of Medicine, Medical Center Boulevard, Winston-Salem, NC 27157. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION available in signal transduction to study kinase and phosphatase regulating NF- κ B, CD28 signaling, JNK kinase cascade, and apoptosis (MCB, 15:4260; JBC, 271:631, 8971, 31607, and 31929; *Genes and Dev.*, 10:2251). Experience in molecular biology is required. Send applications to: Dr. Tse-Hua Tan, Department of Microbiology and Immunology, M929, Baylor College of Medicine, Houston, TX 77030. Baylor College of Medicine is an Affirmative Action/Equal Opportunity/Equal Access Employer.



PimaCommunityCollege

**Pima Community College
Tucson, AZ
Instructional Faculty
Biology
Academic Year 97/98**

Pima Community College is the fifth-largest multi-campus community college in the nation. Tucson is located in a lush desert valley surrounded by four mountain ranges. A multicultural, southwestern city with more than 750,000 people, it is renowned for its rich heritage and superb weather.

This position is responsible for teaching Biology to students majoring in the Allied Health Professions. Instructional responsibilities will include courses in Cell Biology, Microbiology, and Human Anatomy and Physiology.

Applicants must be certified or eligible for certification by the State Board of Directors for Community Colleges of Arizona. Minimum certification requirement is a Master's degree or higher, plus 24 semester hours of upper division and/or graduate credit in the discipline to be taught.

Closing Date: February 4, 1997

For information and application packet, please contact:

**Pima Community College
Human Resources
4905-D East Broadway
Tucson, AZ 85709-1190
Phone: (520) 748-4624
FAX: (520) 748-4662
TTY: (520) 748-4852**

**WEB <http://pimacc.pima.edu/bull/hr.html>
ADA accommodations available
EEO/AA**

Merck Research Laboratories, a worldwide leader in biological and pharmaceutical research, has immediate openings for a biochemist and immunologists in the department of Virus and Cell Biology to support basic research and development programs for vaccines.

BIOCHEMIST

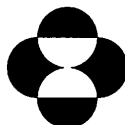
The successful candidate will have expertise in adjuvants to join a team to design, formulate and test delivery of traditional and novel vaccines for mucosal and parenteral immunization. Must have Ph.D. or equivalent with strong background in biochemistry, working knowledge of immunology, and relevant post-doctoral experience.

IMMUNOLOGISTS

Successful candidates will study the pre-clinical immunogenicity of vaccines. An M.S./B.S. or equivalent with 3-5 years of relevant research is required. Candidates should have expertise in ELISAs, CTL assays, cell proliferation assays and flow cytometry, experience working with radioisotopes, human sera, cell culture, laboratory animals, and computers. Experience with various biochemical techniques including Western blots and molecular biology techniques including the preparation and purification of plasmid DNA, and transfection in cell culture is desirable.

Excellent salary and benefit programs accompany these positions at our modern research facilities located 25 miles northwest of Philadelphia.

Please send curriculum vitae with cover letter and the names of three references to: **Indicate Ad# B-76, MRL Human Resources, WP42-2, Merck Research Laboratories, P.O. Box 4, West Point, PA 19486.** Only candidates considered for interviews will receive responses. EEO/AA/VH/Employer.



MERCK

BIOLOGICAL SCIENCES

**2 TENURE TRACK POSITIONS AVAILABLE
FOR FALL 1997**

ASSISTANT PROFESSOR/PHYSIOLOGIST

To teach upper level human anatomy and physiology and introductory biology, participate in established programs in anesthesia and health sciences, and conduct research appropriate to the involvement of undergraduate and master's level students. Earned Ph.D. or award of Ph.D. no later than August 1997 and commitment to undergraduate and graduate education required.

ASSISTANT PROFESSOR/BIOLOGIST

To teach introductory-level biology courses, and to develop upper level course(s) in the candidate's area of specialization. This position also involves the following for Biology: overseeing the certification process for teachers, supervising secondary-level student teachers, knowledge of K-12 certification requirements, and developing programs for community outreach, especially in educational activities for teachers and students in teacher education programs. A doctoral degree in biology preferred; within one year of completion is acceptable and commitment to undergraduate and graduate education required.

Credentials and experience comparable to the above will also be considered. Please send letter of application, statement of teaching and research goals, and resume with names, addresses and telephone

numbers of three references to: **Dr. Leeds Carluccio, Chairperson, Department of Biological Sciences, CENTRAL CONNECTICUT STATE UNIVERSITY, New Britain, CT 06050-4010.** Review of applications will begin February 3, 1997.

CCSU aggressively pursues a program of equal employment and educational opportunity and affirmative action. Members of all underrepresented groups, women, veterans and persons with disabilities are invited and encouraged to apply.



**THE
J. DAVID GLADSTONE
INSTITUTES**

**University of California, San Francisco
San Francisco General Hospital**

POSTDOCTORAL FELLOWSHIP – DR. KARL WEISGRABER

Position in x-ray crystallography and molecular modeling focusing on structure determination of proteins and receptors involved in lipoprotein metabolism and Alzheimer's disease and on a search for therapeutic agents effective in heart and Alzheimer's diseases. Prior knowledge and experience in macromolecular x-ray crystallography and Ph.D. degree in biochemistry, chemistry, biology, or related field is required. Knowledge and skills in the following areas are highly desirable: programming (Unix/SGI), recombinant protein production, and molecular modeling.

Please send CV and references to: # C96-032, Gladstone Institutes, P.O. Box 419100, San Francisco, CA 94141. Fax (415) 826-3708. For more information, please visit our website: <http://gladstone.ucsf.edu>

Equal Opportunity/Affirmative Action Employer

POSITIONS OPEN

POSTDOCTORAL POSITION Yale University School of Medicine Department of Internal Medicine

A POSTDOCTORAL position is available at Yale University, Department of Internal Medicine, for NMR studies of diabetes. Research will focus on the use of *in vivo* ^{13}C and ^{31}P NMR to study regulation of glucose metabolism in diabetes. Applicants must have a strong background in the area of NMR spectroscopy. Experience using modern animal or clinical NMR systems is desirable. Equipment available includes a 2.1T human system (1m bore), 7T and 4.7T animal systems, and 11.7T and 8.4T analytical systems. 4.7T human system (1m bore) is anticipated in 1997.

Fax or mail curriculum vitae and references to:

Gerald I. Shulman, M.D., Ph.D.
Department of Internal Medicine
Yale University School of Medicine
P.O. Box 208020
New Haven, CT 06520-8020
FAX: 203-785-6015

POSTDOCTORAL RESEARCH POSITION Molecular Hematology Harvard Medical School

A position is available April 1, 1997 to join an NIH-funded project investigating structure-function relationship of erythropoietin, the hormone responsible for red blood cell production. Applicants should have a Ph.D. and experience in both molecular biology and protein chemistry.

Please send a curriculum vitae and three references, including telephone numbers, to:

H. Franklin Bunn, M.D.
Harvard Medical School
Brigham and Women's Hospital
221 Longwood Avenue, LMRC-223
Boston, MA 02115
FAX: 617-739-0748

Harvard Medical School is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION Vanderbilt University Medical Center

Immediate opportunity to fill a POSTDOCTORAL POSITION at the Vanderbilt University Medical Center. Areas of investigation will include the molecular biology of NF- κ B/Rel transcription factors and their role in human T-cell growth, development, and retroviral gene expression (*MCB*, 16:2083, 1996; *MCB*, 16:5974, 1996; *Immun*, 5:1, 1996). Minimum requirements include an M.D. and/or Ph.D. degree(s) and significant research experience in eukaryotic gene expression, recombinant DNA techniques, protein biochemistry, and transgenic systems.

Please send your résumé with the names and addresses of three references to:

Vanderbilt University Medical Center
Attn: Dean W. Ballard, Ph.D., c/o Julie Morris
802 Light Hall
Nashville, TN 37232-0295
Equal Opportunity Employer.

POSTDOCTORAL POSITION: NASA-supported position available immediately to investigate the role of calcium in plant responses to gravity, using formation of compression wood in pine as a model system. Expertise in immunolocalization and fluorescence microscopy, or in biochemistry of signal transduction pathways, is essential. Interaction with a collaborative multidisciplinary group and some training of graduate and undergraduate students will be expected. For further information, see <http://www2.ncsu.edu/ncsu/cals/ncsort>. Send a letter of application; a curriculum vitae; and names, addresses, and telephone numbers of three references to: Dr. Ross Whetten, Department of Forestry, North Carolina State University, Raleigh, NC 27695-8008.

POSTDOCTORAL TRAINING POSITIONS in neuroscience are available immediately to analyze the molecular biology and signal transduction of dopamine receptor systems. Prior experience in gene cloning and/or biochemistry helpful. Please send curriculum vitae with names and telephone numbers of three references to: Dr. Anita Sidhu, Georgetown University Medical Center, 3900 Reservoir Road NW, Washington, DC 20007. FAX: 202-687-0279. Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

THE SLOAN CENTER FOR THEORETICAL NEUROBIOLOGY AT CALTECH POSTDOCTORAL FELLOWSHIPS

POSTDOCTORAL FELLOWSHIPS are available from the Sloan Center for Theoretical Neurobiology at Caltech, which promotes integration of theoretical and experimental work in neurobiology. Applicants should identify two sponsors from Caltech faculty participating in the Sloan Center, one from a theory lab and one from an experimental lab, and submit a curriculum vitae, two or three letters of recommendation, and a research proposal. Theoretical faculty include Abu-Mostafa, Barr, Bruck, Burdick, Goodman, Koch, Mead, Mitra, Perona, and Psaltis. Experimental faculty include Altman, Andersen, Bower, Fraser, Konishi, Laurent, Lester, Schuman, and Shimojo. Please send applications or requests for more information to: Richard Andersen, 216-76, Division of Biology, California Institute of Technology, Pasadena, CA 91125, U.S.A. Email: sylvie@vis.caltech.edu. Application deadline is February 15, 1997.

Caltech is an Affirmative Action/Equal Opportunity Employer. Women, minorities, veterans, and disabled persons are encouraged to apply.

POSTDOCTORAL POSITIONS RETINAL AND CIRCADIAN NEUROBIOLOGY

TWO POSTDOCTORAL positions available: one to study the molecular neurobiology of synaptic plasticity in the vertebrate retina, a second to study the circadian pacemaker in the rodent suprachiasmatic nucleus; both NIH-funded. The retina project uses electrophysiological recording from retinal neurons, gene cloning and analysis, heterologous expression, dye coupling, and immunocytochemistry to examine the function and modulation of retinal gap junctions and glutamate receptors. The circadian project uses multielectrode array and patch clamp electrophysiological recording and fluorescent imaging of suprachiasmatic nucleus neurons to examine basic mechanisms of circadian pacemaker function and aging. Experience in one or more of these experimental approaches or previous training in visual neuroscience or biological rhythms is required. Both positions are available immediately, but the quality of the candidate is more important than the time-course for arrival. Please send cover letter, curriculum vitae, and three references to: Douglas McMahon, Ph.D., Department of Physiology, University of Kentucky, Lexington, KY 40536-0084. FAX: 606-323-1070; Email: dgmcm1@pop.uky.edu.

POSTDOCTORAL POSITIONS. Two positions are available to investigate the mechanisms of translation replication and DNA damage induced mutagenesis. One is for work with *E. coli*, to study the *in vivo* functions of Umu and related proteins and their interactions with PolIII holoenzyme subunits (with Roger Woodgate, see *J. Bact.*, 178:2559), and to examine the role of PolII (with Myron Goodman). The other is for working with budding yeast, investigating the properties of DNA polymerase ζ and related proteins (with David Hinkle, see *Science*, 272:1646; *Nature*, 382:729) and those of their human counterparts. Send curriculum vitae and names of three references to: Dr. Christopher Lawrence, Department of Biochemistry and Biophysics, P.O. Box 712, University of Rochester Medical Center, Rochester, NY 14642, U.S.A. Email: cwlawr@biophysics.rochester.edu; FAX: 716-275-6007. An Equal Opportunity Employer.

POSTDOCTORAL POSITION available to study the role of androgen receptor variants in prostate cancer etiology, and the effect of polymorphism on receptor function. Experience in molecular biology and biochemistry required. Exciting interactive environment for learning and discovery. Send curriculum vitae and have three references send letters of recommendation to: Evelyn R. Barrack, Ph.D., Johns Hopkins School of Medicine, Urology and Oncology, 600 North Wolfe Street, Marburg 115, Baltimore, MD 21287-2101. FAX: 410-955-0833; Email: ebarrack@wgate1.jhu.edu; our website is <http://prostate.urol.jhu.edu/research/main.html>.

POSTDOCTORAL POSITIONS available immediately to study molecular developmental mechanisms of adenosine action in heart and brain, and for studying developing circadian rhythmicity. M.D. or Ph.D. and experience in molecular biology and/or neurobiology required. Please send curriculum vitae and names of three references to: Dr. Scott Rivkees, Yale Medical School, Pediatrics, P.O. Box 208081, New Haven, CT 06520. FAX: 203-737-5975.

POSITIONS OPEN

POSTDOCTORAL POSITION ACE and Renal Development Department of Pathology Emory University

An NIH-funded position is available immediately to study the biochemistry and developmental biology of angiotensin converting enzyme (ACE) expression in the kidney. Knockout mice show that animals lacking ACE develop a variety of renal lesions including medullary atresia (*Lab. Invest.*, 74:953-965, 1996). The project is to understand the regulated expression of ACE in the kidney and the pathogenesis of renal defects in the knockout mice. Applicants should have a Ph.D. or M.D. with some experience in molecular biology. Send curriculum vitae, reprints, and references to:

Ken Bernstein, M.D.
Room 7107A, WMB
Emory University
Atlanta, GA 30322

Emory University is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS available immediately to conduct research on 1) Molecular and biochemical analysis of tumor-specific genes and proteins in tumorigenesis; 2) Molecular and biochemical analysis of the regulation of thymic arachidonic acid metabolism and T cell signal transduction; 3) Molecular regulation of adipogenesis. Strong background in cellular and molecular biology required (experience in expression cloning desired). Please send curriculum vitae with names and telephone numbers of three references to: Dr. Ginette Serro (adipogenesis and tumorigenesis) or Dr. Jun Hayashi (arachidonic acid and T cell signaling), Department of Pharmaceutical Sciences, School of Pharmacy, University of Maryland at Baltimore, 20 North Pine Street, Baltimore, MD 21201-1180. Email: gserro@pharmacy.ab.umd.edu or jhayashi@pharmacy.ab.umd.edu. FAX: 410-706-2973.

POSTDOCTORAL POSITION available immediately at the Wadsworth Center to study ribosome structure and function using three-dimensional cryo-electron microscopy.

Requirements: Ph.D. or equivalent degree in biochemistry, preferably with a background in ribosome biochemistry. Some experience in electron microscopy and/or imaging processing desirable. Project is funded through 2000. The ribosome is visualized by 3D cryo-electron microscopy in different states of the elongation cycle (Agrawal et al., *Science*, 271:1000, 1996).

Applications to: Dr. Joachim Frank, Wadsworth Center, New York State Department of Health, P.O. Box 509, Albany, NY 12201-0509. FAX: 518-486-2191. The Wadsworth Center/Health Research, Inc. is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS Molecular and Cellular Immunology

TWO POSTDOCTORAL positions available immediately to study the molecular mechanisms of autoimmune disease and cytokine gene regulation. Candidates must have a Ph.D. and/or M.D. within the last five years and a strong background in immunology, molecular biology, and/or cell biology. Send curriculum vitae and names of three references to: Timothy M. Wright, M.D., Division of Rheumatology and Clinical Immunology, University of Pittsburgh School of Medicine, E1157 Biomedical Science Tower, Pittsburgh, PA 15261. FAX: 412-648-7047; Email: wright@novell1.dept-med.pitt.edu. An Equal Opportunity/Affirmative Action Employer.

TWO POSTDOCTORAL positions are available immediately in the Department of Nutrition of Case Western Reserve University (CWRU), Cleveland, Ohio, to participate in NIH-supported studies 1) with Dr. Jacob E. Friedman (jef8@po.cwru.edu) studying insulin regulation of gene expression in obesity and type II diabetes; interaction of transcription factors, generation of transgenic mice, and measurement of insulin/leptin receptor signaling; experience in molecular biology is required; 2) with Dr. Henri Brunengraber (hxb8@po.cwru.edu), studying the regulation of pathways of intermediary metabolism (gluconeogenesis, lipogenesis) *in vivo* and in isolated organs, using stable isotopes and isotopomer analysis; experience in GC-MS required. Email curriculum vitae and names of three references to the above addresses.

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GLOBAL CAREER OPPORTUNITIES

PLANT PATHOLOGIST

A plant pathology scientist is required at Auckland, New Zealand, to join a team of entomologists and plant ecologists researching classical biological control of weeds and bioherbicides. This is a permanent position with technical support. A post-graduate tertiary qualification in plant pathology is required, preferably with some further research experience, not necessarily in biological control of weeds.

For further information please contact Pauline Syrett (syrett@landcare.cri.nz, or at address below). For information on Landcare Research see internet

<http://www.landcare.cri.nz>.

Applications to Steve Watts, Personnel Officer, Manaaki Whenua – Landcare Research, PO Box 69, Lincoln, New Zealand, telephone +64 3 325 6700, fax +64 3 325 2418

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Framingham location SENIOR SCIENTIST Immunobiology Group

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Qualified candidates should forward their resume, indicating job code, to: Genzyme Corporation, Human Resources Dept., One Kendall Square, Cambridge, MA 02139.

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POSTDOCTORAL POSITION

Kemin Industries, Inc., a world leader in specialty products for animal agriculture, is continuing to expand its research and development base at its worldwide headquarters located in Des Moines, Iowa. A **POSTDOCTORAL POSITION** for a biochemist is available immediately to study basic and applied aspects of nutrient digestion and absorption upon supplementation of animal feed with digestive enzymes. Strong background in enzymology and protein chemistry is required; experience in carbohydrate chemistry and animal physiology is a plus. No smoking is allowed on the premises. Job offer is conditional on passing a physical, including a drug screen.

Send curriculum vitae and names of three references to: **Dr. F. Brinkhaus, Kemin Industries, Inc., 2100 Maury Street Box 70, Des Moines, IA 50301-0070. An Equal Opportunity Employer.**

POSTDOCTORAL FELLOWS

Walther Cancer Institute
University of Notre Dame

Applications are invited for two **POSTDOCTORAL FELLOWS** to perform cancer-related research using targeted gene replacement. The fellows will be members of Notre Dame's Center for Transgene Research and Walther Cancer Institute Center of Excellence in Cancer Research. Eligible faculty mentors include: **Francis J. Castellino** (cancer-related phenotypes in gene-altered mice; roles of proteins related to fibrinolysis in cell migration), **Subhash C. Basu** (cancer-related phenotypes in gene-altered mice; roles of sialyl- and fucosyl-transferases in metastasis), **Morris Pollard** (role of plasminogen activators in metastasis), and **Roger K. Bretthauer** (glycosylation patterns of recombinant proteins). The fellowships are for a period of two years, with a possible third year renewal, beginning August 1, 1997. In addition to an attractive salary, the fellowships include an allowance for travel and supplies. Applicants should send, by February 12, 1997, a complete résumé and three letters of recommendation to: **Professor Steven Buechler, Executive Director, Center for Transgene Research, College of Science, University of Notre Dame, Notre Dame, IN 46556. The University of Notre Dame is an Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS SYSTEMS NEUROSCIENCE

Positions available to study the neural control of eye movements in alert primates. One study focuses on the role of frontal cortex in vergence eye movements. Another study focuses on the neural control of the pupillary light reflex. Experience with electrophysiological techniques is highly desirable. Send a curriculum vitae, a brief description of your research interests, and letters of reference to: **Dr. Paul D. R. Gamlin, Vision Science Research Center, University of Alabama at Birmingham, Birmingham, AL 35294-4390. FAX: 205-934-5725; Email: pgamlin@vision.vscrc.uab.edu. Equal Opportunity/Affirmative Action Employer.**

A **POSTDOCTORAL RESEARCH** position is immediately available to study P2 nucleotide and IGF-1 receptor coupled intracellular signaling in vascular smooth muscle. Studies will focus on cloning intracellular signaling intermediates and mapping pathways. A strong background in molecular biology (cloning), cell biology, and/or cellular biochemistry is essential. Please send curriculum vitae, summary of research experience, and names of three references to: **Dr. Peter A. Wilden, Department of Pharmacology, University of Missouri-School of Medicine, One Hospital Drive, Columbia, MO 65212. Email: pharmapaw@mucmail.missouri.edu.**

An NIH-funded **POSTDOCTORAL POSITION** is available immediately to investigate kinetoplast-mitochondrial translation system in *Leishmania*. Experience in biochemistry of membrane proteins, antibody-based assays, or *in vitro* systems of translation is a plus, but no specific background in parasitology is required. Please send curriculum vitae, brief summary of research experience, and names and addresses of three references to: **Dr. Dmitri Maslov, Department of Biology, University of California, 3401 Watkins Drive, Riverside, CA 92521, U.S.A. Email: maslov@ucr.acucl.ucr.edu.**

POSITIONS OPEN

POSTDOCTORAL POSITION available to study signal transduction and gene regulation in mammalian cells activated by bacterial products. Send curriculum vitae and references to: **Dr. Roman Dziarski, Indiana University School of Medicine, 3400 Broadway, Gary, IN 46408.**

POSITIONS AT HARVARD Pulmonary Biology and Pathobiology

PREDOCTORAL AND POSTDOCTORAL POSITIONS in lung biology and respiratory diseases supported by an NIH Training Grant are available. Areas of study include mediators and adhesion molecules involved in inflammation; the effects of inhaled particles; lung infections; biomechanics of cells and tissue in normal and inflamed lungs; smooth muscle function in asthma; control of breathing; sleep-related breathing disorders; mechanisms of dyspnea and respiratory sensations; cardiovascular pathobiology as well as epithelial cell, macrophage, lymphocyte, and neutrophil lung biology. Cellular, molecular, bioengineering and integrative approaches are employed. Please send curriculum vitae, a brief statement of goals, and names of three references to: **Joseph D. Brain, Physiology Program, Department of Environmental Health, Harvard School of Public Health, 665 Huntington Avenue, Boston, MA 02115. Telephone 617-432-0926; FAX: 617-432-4710. Further information available at <http://ppg-core.harvard.edu>. Telephone inquiries encouraged. NIH support available for U.S. citizens and permanent residents. Minority applicants encouraged.**

POSTDOCTORAL POSITIONS Gene Transfer and Genetic Immunization

Positions available immediately (open through July 1997) for Ph.D. and/or M.D. to study gene transfer and genetic immunization using recombinant adeno-associated virus (rAAV) vectors. Successful candidates will participate in: 1) ongoing studies of the biology and immunology of rAAV vectors in animal models of disease, and 2) the development of vector production strategies. Extensive experience required in several of the following areas: viral vectors (AAV or adenovirus preferred), molecular biology, cellular immunology, animal models, immunohistochemistry, *in situ* hybridization. Salary is negotiable and will be commensurate with skills and experience. Research will be performed in new state-of-the-art laboratory and vivarium facilities on the campus of The Children's Hospital/Ohio State University. Appointments will be in the Division of Molecular Medicine/Department of Pediatrics. Send curriculum vitae and the names of three references to: **Dr. Philip R. Johnson, Director, Division of Molecular Medicine, Room W309, Children's Hospital, 700 Children's Drive, Columbus, OH 43205. FAX: 614-722-3273; Email: pjohnson@chi.osu.edu.**

MUCOSAL IMMUNITY UNIVERSITY OF CALIFORNIA, IRVINE

Two **POSTDOCTORAL POSITIONS** are available in the University of California, Irvine (UCI) Department of Pathology for studies on cell-mediated and humoral host defense systems. The research program focuses on the characterization of host-parasite relationships at the molecular, cellular, and organismic level (see *FASEB J.*, 10:1280-1289, 1996). This posting seeks individuals with experience and interest in mucosal immunity. Candidates should have expertise in epithelial cell biology and/or physiologic analysis of transgene expression. Send curriculum vitae, research experience and interests, and names of three references to: **Dr. Michael E. Selsted, Department of Pathology, College of Medicine, University of California, Irvine, CA 92697-4800. The University of California is an Equal Opportunity Employer.**

POSTDOCTORAL POSITION/IMMUNOLOGY YALE UNIVERSITY SCHOOL OF MEDICINE

Ph.D. or M.D./Ph.D. position to study the immunopathogenesis of murine Lyme borreliosis. Experience and/or interest in microbial pathogenesis, molecular biology, T cell cloning, and/or animal models of infectious/autoimmune diseases necessary. Send curriculum vitae, research interests, and three reference letters to: **Linda Bockenstedt, M.D., Section of Rheumatology, Department of Internal Medicine, Yale University School of Medicine, 333 Cedar Street, Box 208031, New Haven, CT 06520-8031. Affirmative Action/Equal Opportunity Employer.**

POSITIONS OPEN

UNIVERSITY OF PENNSYLVANIA MEDICAL CENTER

POSTDOCTORAL POSITION available for two- to three-year in-depth training in cellular and molecular biology with emphasis on the lung. The multidisciplinary NIH-funded program is based in the Institute for Environmental Medicine. Applicants require Ph.D., M.D., or equivalent degree and U.S. citizenship or permanent residency. Participating laboratories are: **P. Ballard**, Hormonal regulation of lung development; **M. Beers**, Post-translational processing of surfactant proteins; **S. Feinstein**, Surfactant protein gene expression; **A. Fisher**, Recycling of lung surfactant; mechanisms of oxidant injury; **H. Ischiropoulos**, Peroxynitrite generation and protein nitration; **N. Kefalides**, Structure and function of extracellular matrix proteins; **J. Sanger**, Function of cytoskeletal proteins; **A. Schreiber**, Expression of macrophage Fc gamma receptors; **H. Shuman**, Membrane trafficking and endocytosis; **J. Strauss**, Regulation of cellular lipid metabolism; **U. Zimmerman**, Signal transduction in exocytosis. For an application form, **Telephone: 215-898-9100; FAX: 215-898-0868; or write to: Education Officer, Programs in Lung Cell and Molecular Biology, IFEM, 1 John Morgan Building, 3620 Hamilton Walk, Philadelphia, PA 19104-6068. Qualified women and minority candidates are especially encouraged to apply. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS CORNELL UNIVERSITY MEDICAL COLLEGE

POSTDOCTORAL POSITIONS in cardiology are available immediately for highly qualified applicants. Projects focus on the molecular mechanisms of ventricular tachycardia. The emphasis will be on the development of an animal model of ventricular tachycardia through expression of mutated signal transduction proteins via gene transfer, and on the analysis of the effects of mutations on signal transduction proteins and electrophysiologic properties of myocardial cells. Applicants should have a background in molecular biology and either animal or cellular electrophysiology. Send curriculum vitae and reference list to:

**Bruce B. Lerman, M.D., Chief
Division of Cardiology
The New York Hospital-Cornell Medical Center
525 East 68th Street, New York, NY 10021
FAX: 212-746-8451
Email: blerman@mail.med.cornell.edu**

Cornell University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION Tissue Specific Gene Expression Department of Pathology Emory University

An NIH-funded position is available immediately to study the biochemistry and molecular biology of angiotensin converting enzyme (ACE) expression by male germ cells. Developing germ cells express large amounts of a unique isozyme of ACE due to the recognition of a small tissue-specific, intragenic promoter (*AICB*, 13:18-27, 1993; *PNAS*, 93:12262-12266, 1996). The project is a wonderful opportunity to study tissue-specific gene expression. Applicants should have a Ph.D. or M.D. with experience in molecular biology. Send curriculum vitae, reprints, and references to:

**Ken Bernstein, M.D.
Room 7107A, WMB
Emory University
Atlanta, GA 30322**

Emory University is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION in immunology available immediately, to study the molecular basis for the selective recruitment of lymphocytes, particularly gamma/delta T cells, into tissues. Opportunity to work with a committed group of investigators studying leukocyte trafficking in humans and large animals. Applicants must have cellular immunology and, preferably, molecular biology experience, and ability to design appropriate experiments and write manuscripts. Send a letter of application and curriculum vitae, and have three letters of reference sent to: **Dr. Mark Jutila, Associate Professor and Head, Veterinary Molecular Biology, Montana State University, Bozeman, MT 59717-3610. FAX: 406-994-4303; Email: uvsmj@gemini.oscs.montana.edu. ADA/Affirmative Action/Equal Opportunity/Veteran's Preference.**

Cancer Genetics

The University of Calgary Department of Oncology and the Cancer Biology Research Group invite applications for a full-time academic position in Cancer Genetics at the Assistant Professor level or higher. The position offers an excellent opportunity to develop a vigorous independent research program and collaborative interactions with researchers in cellular, molecular, developmental and clinical cancer biology. Duties will also include teaching, graduate student supervision and participation in a program of genetic risk assessment.

Qualifications include a PhD and/or MD, a minimum of two years' postdoctoral experience, and a proven record of excellence in research. Applications are encouraged in the molecular genetics of cancer; the successful applicant should be eligible for certification for genetics counselling to patients and their family members with hereditary predisposition to cancer.

The selected candidate must compete successfully for funding from agencies such as the Alberta Heritage Foundation for Medical Research, the National Cancer Institute (Canada), the Alberta Cancer Board and/or the Medical Research Council of Canada, and will have 75% of time protected for research.

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. The University of Calgary is committed to Employment Equity.

Please submit a detailed curriculum vitae and a synopsis of research interests, and arrange to have three letters of reference sent directly, by February 28, 1997, to:

Dr. R. Johnston
Cancer Biology Research Group
The University of Calgary
3330 Hospital Drive N.W.
Calgary, Alberta, Canada T2N 4N1



www.ucalgary.ca

SENIOR LEVEL MOLECULAR BIOLOGIST / GENETICIST FLETCHER JONES CHAIR

The Whittier College Biology Department invites applications for the newly established Fletcher Jones Chair in Genetics at the Senior Associate or Full Professor level, to begin Fall term 1997. We seek an accomplished educator and scholar with extensive experience and demonstrated excellence both in teaching undergraduates, and in the development and maintenance of a peer-review research program which preferably has involved undergraduate students. A Ph.D. is required and post doctoral experience is preferred.

The recipient of the Fletcher Jones Chair should literally thrive on the positive challenge of exploring the role of the biological sciences in the unique liberal arts environment of Whittier College.

The Chair holder will conduct lectures and laboratories for upper division courses in Genetics and related courses emphasizing molecular approaches to questions or topics. He/she should be prepared to develop a program and laboratory facility in which undergraduate majors learn to utilize the modern techniques of molecular biology.

The teaching responsibilities of the successful candidate will also include: Introductory Biology for majors and non-majors; courses outside the Department in Whittier's liberal education program; and elective classes in the candidate's strength.

Candidates should submit a letter of application (including statements of teaching philosophy and research accomplishments), curriculum vitae, and three letters of reference that evaluate teaching and research.

Files will be reviewed, beginning January 31, 1997, and continue until the position is filled.

Send all documents to:

Dr. Clifton Morris, Chair
Biology Department
Whittier College, P.O. Box 634,
Whittier, CA 90608

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Department of Biological and Chemical Sciences

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KØBENHAVNS UNIVERSITET



University of Copenhagen

Associate Professorship in Protein Chemistry

University of Copenhagen, the Faculty of Science invites applications for a position at the Department of Protein Chemistry, Institute of Molecular Biology as **ASSOCIATE PROFESSOR** to be filled mid 1997.

Potential applicants must obtain full application information from the Head of the Institute of Molecular Biology at telephone +45 35 32 20 55, or at <http://www.molbio.ku.dk/>.

Application deadline: March 3, 1997, at 12.00.

KØBENHAVNS UNIVERSITET

POSITIONS OPEN

POSTDOCTORAL POSITION available to study the molecular pathology of human and experimental skin and head and neck neoplasia with special emphasis on tumor progression. Background in the molecular biology of cell cycle regulation and/or metalloproteinases is desirable. Interested candidates please send curriculum vitae to: **Dr. Andres Klein-Szanto, c/o Human Resources Department, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. Equal Opportunity Employer.**

COURSES AND TRAINING

WORKSHOP ON COMPUTATIONAL AND MATHEMATICAL BIOLOGY UCLA Campus in Westwood February 15 to 16, 1997

An intensive course for students in the physical and mathematical sciences, to introduce the field of computational and mathematical biology. Advanced undergraduates and advanced graduate students (who have been trained in other fields of physical and mathematical science) are particularly welcomed. Expenses will be defrayed by sponsors.

For applications and complete information: <http://www.mbi.ucla.edu/Workshop.html>.

Sponsors: Burroughs Wellcome Fund, NSF Program in Mathematics and Molecular Biology, UCLA-DOE Lab of Structural Biology and Molecular Medicine.

TRACER METHODOLOGY COURSE

Principles and Practice of Tracer Methodology in Metabolism. **Dr. Robert R. Wolfe**, Course Director. A combination of didactic and interactive sessions will address theoretical and practical aspects of tracer methodology in metabolism. Emphasis will be on application of stable isotopic tracers in metabolic studies, but principles of use of radioactive tracers will also be covered. Galveston, Texas. March 2 through 7, 1997. Telephone: 409-770-6623; FAX: 409-770-6825.

ANNOUNCEMENTS

RESEARCH GRANTS

As part of its continuing efforts to encourage the utilization of alternatives to traditional uses of laboratory animals in basic research, testing, and education, The Alternatives Research and Development Foundation (ARDF) is soliciting **RESEARCH PROPOSALS** to develop such methods. Funding of up to \$40,000 each is available to support individual projects at U.S. universities and research institutions. Deadline for applications is 30 April 1997, with recipients announced on 15 July 1997. For further information and application instructions, contact: **The ARDF, 14280 Golf View Drive, Eden Prairie, MN 55346-3000. FAX: 612-949-2619.** No telephone calls, please.

AAAS Mass Media Science and Engineering Fellows Program

FELLOWS will help improve coverage of science and technology in the mass media while sharpening their communication skills by working as science writers at radio and television stations, newspapers, and magazines. Advanced science students use their academic training as they research, write, and report today's headlines for ten weeks during the summer. A weekly stipend is available (prorated by site) and travel expenses are paid. For application contact: **Amie King, AAAS, 1200 New York Avenue, N.W., Washington, DC 20005. Telephone: 202-326-6760; Email: aking@aaas.org.** Deadline for receipt of applications has been extended to February 1, 1997.

AAAS William D. Carey Annual Science Award

The AAAS William D. Carey Annual Science Award provides up to \$300 support for students to attend the 1997 AAAS Annual Meeting. In addition, AAAS will furnish registration fees and a year's subscription to *Science*. Graduate students are invited to submit a curriculum vitae and a 200-300 word description of their research topics to: **Amie King, AAAS, 1200 New York Avenue, N.W., Washington, DC 20005. Telephone: 202-326-6760; Email: aking@aaas.org.** Deadline for receipt of applications is February 1, 1997.

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