

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.

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 policy issues relevant to science.

Perspectives (up to 1000 words) analyze 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.

Contact Information

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<http://www.aaas.org/> on the World Wide Web, where a summary of this information is available in Japanese.

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

The editors at *Science* are willing to offer advice on the suitability of a paper before submission, but this is not required, and firm decisions are usually not made without evaluation of the complete paper.

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 prior to publication of the paper.

- 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.

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 a manuscript checklist with 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.*

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.

Checklist for Submission

Manuscripts should be addressed to the Editor-in-Chief, *Science*, 1333 H Street, 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.
- 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*.

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.

PRODUCTS & MATERIALS

StatView for Windows

StatView for Windows is a new Windows version of popular and award-winning Macintosh statistical software. It is designed for scientific and medical researchers, analysts, engineers, and others who need to analyze data and present results. It combines data management, statistical analysis, graphing, and presentation tools in a single package. **Abacus Concepts. Circle 136.**

PCR Workstation and Mini Clean Room

Genesphere and Supergenosphere are benchtop chambers that can provide both class 100 clean room and DNA-free conditions. Designed for molecular biology and clinical diagnostic research laboratories doing biochemical and biological amplification, the chambers offer an efficient way to



eliminate contamination by both microorganisms and DNA. Clean room conditions can be achieved in approximately 5 min. The chambers provide audio as well as visual indication that they are ready for use. DNA contamination is eliminated by ultraviolet irradiation at 254 nm for 40 min. **Safetech. Circle 137.**

PCR Cloning Kit

The new LigATor kits are designed to allow rapid, high efficiency cloning of fragments generated by polymerase chain reaction (PCR). This direct method of PCR cloning

eliminates the need for restriction digestions, linkers, adaptors, or special primers. A visual blue/white screen allows easy identification of positive clones. **R&D Systems Europe. Circle 138.**

RNA Synthesis Reagents and Protocols

New phosphoramidites, 1- μ mol columns, and a set of deprotection and purification protocols are available for more efficient RNA synthesis. This complete system for the chemical synthesis of oligoribonucleotides produces purified, biologically active RNA in useful quantities for structural studies, protein-binding assays, and assessment of catalytic activity. The new phosphoramidites enable fast yet mild deprotection, which is essential for a high yield of unmodified, full-length product. They remove the base protecting groups in less than 4 hours, compared with the 8 hours of exposure to elevated temperature required by conventional methods. **Perkin-Elmer. Circle 139.**

Fast *Escherichia coli* Test

A new test can detect the presence of *E. coli* in just 8 hours. Hands-on time is only 15 min. A special media broth allows results after an 8-hour incubation, after which the user places four drops of media into the port of a test stick and reads the results. **Neogen. Circle 140.**

Amidites for RNA Synthesis

New Inverted RNA Phosphoramidites allow synthesis of RNA oligonucleotides with a 5' to 2' linkage between any two nucleotides. They have a 2'-cyanoethyl, diisopropyl (CED) phosphoramidite and a 3'-TBDMS protecting group, the inverse of conventional 2'-TBDMS, 3'-CED phosphoramidites. The inverted RNA monomers are suitable for use with standard automated procedures for RNA synthesis; no modification

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.

RNase Contamination Driving You Nuts?

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of the usual synthesis or deprotection protocols is required. RNA oligomers incorporating the unusual 5' to 2' linkage at specific sites can be used to study the structure of biologically active RNA, such as the active site of ribozymes. **BioGenex. Circle 141.**

■
**Recombinant Screening and
Template Prep Kit**

The GeneScout kit is for rapid recombinant screening and template preparation for manual and automated DNA sequencing. The kit allows rapid analysis of recombinant colonies without doing plasmid minipreps. Bacterial colonies or viral plaque lysates can be used directly in a polymerase chain reaction (PCR) amplification. In addition to being faster than conventional techniques, the kit generates single-stranded sequencing templates for optimal use with sequencing polymerases. GeneScout produces template that is clean and free from PCR buffers, salts, and excess primers. **Genosys Biotechnologies. Circle 142.**

■
Binding Resins

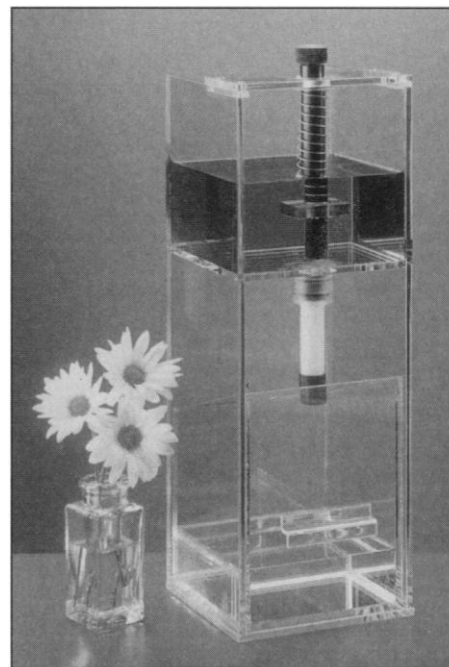
Actigel ALD and Actigel Superflow are high-binding, fast-coupling, stable activated resins for affinity separations. Coupling efficiency for proteins, antibodies (up to 50 mg/ml), and peptides is 90 to 98%. Leaching of Actigel ALD is less than 0.1 ppm, so it can be used longer than less stable resins. Reproducible coupling can be performed in a pH range from 3 to 10 and temperature range from 4° to 40°C. **Sterogene. Circle 143.**

■
Magnetic Glass Coupler

MPG Hydrazide is a magnetic porous glass product used to covalently couple antibodies, RNA, glycoproteins, and carbohydrates. The linkage to the superparamagnetic borosilicate glass particles is accomplished by oxidation of the carbohydrate moieties on the ligand. These activated ligands covalently bind to the surface of the MPG Hydrazide particles by forming stable hydrazone bonds. The immobilized ligands are suitable for downstream applications where solid-phase chemistry applies, such as isolation or purification of biomolecules and enzyme assays. **CPG, Inc. Circle 144.**

■
Buffer Stain Remover

The Ethidiclean System removes virtually all ethidium bromide and Sybr Green nucleic acid stains from laboratory buffer. The proprietary Ethidiclean resin changes color to



demonstrate binding of stain. Once buffer is passed through the resin, it is safe for disposal down the drain, which can save significantly in hazardous waste expenses. The laboratory size unit can process more than 200 liters of buffer and bind in excess of 100 mg of stain. **American Bioanalytical. Circle 145.**

■
Literature

1995/96 Product Guide highlights more than 2000 immunological reagents, including monoclonal antibodies (mAbs) for flow cytometry; mAbs to human, mouse, rat, and viral antigens; growth factors; polyclonal antibodies; fetal bovine serum; and more. **Accurate Chemical and Scientific. Circle 146.**

Filtron Facts is a newsletter with a recent issue focusing on how to select the appropriate molecular weight cutoff of membranes in protein, nucleic acid, and viral applications. **Filtron. Circle 147.**

PowerMX X-ray Microanalysis System details how this system provides comprehensive analytical solutions to a wide range of microanalysis problems, including both qualitative and quantitative analysis. **EDAX. Circle 148.**

Crystallization Research Tools contains not only product information, but useful "Info and Ideas" columns with facts and advice on growing macromolecular crystals. **Hampton Research. Circle 149.**

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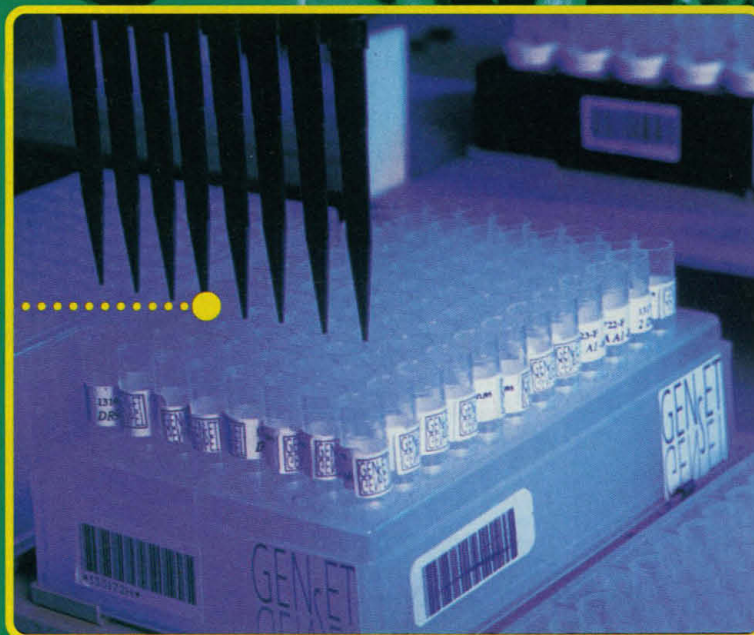
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SCIENCE

PERSONNEL PLACEMENT

LINE CLASSIFIED ADVERTISEMENTS

Deadlines: Ads are due by Thursday, 10 a.m., 2 weeks prior to the issue date. *Science* is published each Friday, except the last Friday of the year. Call for holiday deadlines. Ads must be submitted in writing.

How to Submit a Classified Ad:

Prepare 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, Search Firms. *Science* cannot provide proofs of typeset line ads.

Mail, FAX or Email materials to:

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Internet Email: science_classifieds@aaas.org
(please include telephone number in email correspondences)

Rates: Ads are \$43 per line; \$430 minimum. One line equals 52 characters and spaces; centered headings equal 32 characters and spaces. A 3% cash discount is granted to all prepaid 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.

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 at telephone: +44(0) 1223 302067 or fax: +44(0) 1223 576208.

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

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

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

WWW: <http://www.aaas.org>
Gopher: gopher.aaas.org

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

POSITIONS OPEN

FACULTY POSITION IN VERTEBRATE GENETICS

The Department of Physiology, UCSF

Applications are invited for a faculty position in vertebrate genetics and its application in mammalian physiology and disease. Preference will be given to candidates at ASSISTANT PROFESSOR (tenure-track) level, although all levels will be considered. Ideal candidates will use genetics to investigate physiological questions at the level of cells, organs, or systems. The successful candidate will play a role in the Biomedical Sciences Graduate Program and may also participate in a new Human Genetics Program, the PIBS Graduate Program in Genetics, and/or a new University of California San Francisco (UCSF) Cancer Center. Significant research accomplishments, ability to maintain a rigorous research program, and commitment to excellence in education are required.

Please submit a letter of interest with curriculum vitae, summary of current and proposed research work, key publications or preprints, and arrange to have at least three letters of recommendation sent to:

Vertebrate Geneticist Search
Attn: D. Blumer, Department of Physiology,
Box 0444
513 Parnassus Avenue, Room S-762
University of California
San Francisco, CA 94143-0444.

All materials should arrive by February 15, 1996 to ensure full consideration. UCSF is an Equal Opportunity/Affirmative Action Employer.

UNIVERSITY OF IOWA

The Department of Biochemistry of the University of Iowa seeks highly qualified applicants for the position of a non-tenure-track VISITING ASSISTANT PROFESSOR to participate in its teaching programs. Duties include contributing to the development and delivery of courses serving students in the Colleges of Medicine, Pharmacy, Dentistry and Liberal Arts. All applicants must have a relevant graduate degree (Ph.D., M.D. or equivalent foreign degree) and preferably should have some postdoctoral experience. Quality of teaching credentials will be the primary criterion for selection; there is no expectation or support for an independent research program. Preference will be given to candidates interested in a 12-month appointment. Appointment will be made for one year; renewal for an additional year is contingent on satisfactory performance. Salary will depend on qualifications and experience.

Applicants should submit a curriculum vitae, a statement of teaching interests, and should ask three scientists familiar with their teaching qualifications to write letters of reference. Consideration of completed applications will begin on January 31, 1996 and continue until this position is filled. Applications and letters of reference should be sent to: Visiting Faculty Search Committee, Department of Biochemistry, College of Medicine, University of Iowa, Iowa City, IA 52242-1109. Telephone: 319-335-7934; FAX: 319-335-9570. WWW sites (<http://www.uiowa.edu> and <http://www.medadmin.uiowa.edu/deptment/biochem/biochem.htm>) provide general information about the university and department. The University of Iowa is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

BIOLOGICAL SCIENCES Texas Tech University

We invite applications for a tenure-track position at the rank of ASSISTANT PROFESSOR. The candidate should be trained as a molecular biologist and develop a strong, extramurally funded research program exploring the regulation of gene expression in animals. The research area may include, but is not limited to, developmental biology, cellular or environmental physiology, endocrinology, or neurobiology. A desire to interact with colleagues having diverse research interests (35 faculty, over 100 graduate students) is essential. Annual teaching responsibilities include coordinating and teaching nonmajors anatomy and physiology and an upper-division/graduate course in the candidate's research specialty. A Ph.D. and postdoctoral experience are required. Curriculum vitae, brief statement of research plans and teaching philosophy, and three letters of reference should be received by February 9, 1996: Search Committee, Department of Biological Sciences, Texas Tech University, Lubbock, TX 79409-3131. The University is an Affirmative Action/Equal Opportunity Employment institution.

POSITIONS OPEN

MONTANA STATE UNIVERSITY-BILLINGS Billings, Montana

The Department of Biological and Physical Sciences at Montana State University-Billings is searching for two faculty members. Both are full-time, tenure-track positions to begin August 1996. One is an ASSISTANT PROFESSOR (contingent on funding) of Anatomy and Physiology to teach anatomy, physiology and nutrition to Allied Health students, Survey of Biology to general education students and advanced physiology to biology majors. This individual will play an important role in the department's educational mission in the area of Allied Health Sciences and expansion of the University's ties to the local medical community. The other is an ASSISTANT (preferred) or ASSOCIATE PROFESSOR of Molecular Biology to teach cell biology and molecular genetics to biology majors, Survey of Biology to general education students, and an advanced biology elective in an area of expertise. This individual will have a background in the health sciences and modern experiences in molecular laboratory techniques. Both positions require appropriate terminal degree and a commitment to quality undergraduate education and academic rigor are expected. Review of applications to begin February 1, 1996. Send cover letter with statement of teaching philosophy and research interests, curriculum vitae, copies of transcripts, and three letters of recommendation to: Chair, Search Number 96-16, Anatomy/Physiology Screening Committee or Search Number 96-15, Molecular Biology Screening Committee, Montana State University-Billings, Human Resources Office, 1500 North 30th Street, Billings, MT 59101-0298. Telephone: 406-657-2278; FAX: 406-657-2120. Affirmative Action/Equal Employment Opportunity/ADA.

SENIOR FACULTY POSITION BIOMEDICAL OPTICS

The Department of Biomedical Engineering at Vanderbilt University is seeking a faculty member at the ASSOCIATE or FULL PROFESSOR level with significant experience in the application of optical science and lasers to biomedical problems. This position will be a regular full-time tenured faculty appointment and duties will include research, graduate and undergraduate teaching, and leadership in the development of biomedical optics as a strong subdiscipline in the biomedical engineering program. The successful candidate will be expected to collaborate with the Vanderbilt Free Electron Laser Center and the School of Medicine in research on tissue optics, beam delivery, and other aspects of medical applications of lasers. A joint appointment between engineering and an appropriate unit of the School of Medicine is anticipated. The successful candidate will have an earned doctorate in biomedical engineering, medicine, or a related field and have demonstrated capabilities for independent research in biomedical optics. The successful candidate will also have a substantial record of publication and outside funding consistent with the awarding of tenure at Vanderbilt. Consideration of applicants will begin on February 1, 1996. Interested candidates should send a curriculum vitae and the names of three references to the following address: Thomas R. Harris, Chair, Department of Biomedical Engineering, Vanderbilt University, Box 1724, Station B, Nashville, TN 37235. Telephone: 615-322-0842; Email: trh@vusc.vanderbilt.edu. Vanderbilt University is an Equal Opportunity/Affirmative Action University. Minority and women candidates are urged to apply.

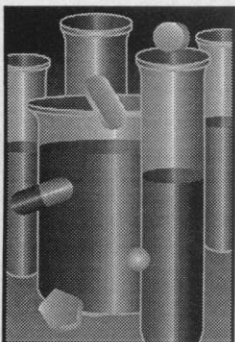
VISITING ASSISTANT PROFESSOR DEPARTMENT OF BIOLOGY

The Department of Biology of Rollins College invites applications for a one-year sabbatical replacement position as a VISITING ASSISTANT PROFESSOR. The appointment, to begin August 1996, will involve the instruction of 1) a junior level laboratory course in cell biology and 2) laboratory courses in general biology for majors and non-majors. Required: Ph.D., potential for excellence in teaching, and a genuine interest in educating undergraduate students. The department has well-equipped general laboratories, specialized molecular/cellular biology facilities and a modern greenhouse. Send statement of interest, curriculum vitae, academic transcripts, and three letters of recommendation to: Dr. Steve Klemann, Chair, Department of Biology, Rollins College, 1000 Holt Avenue-2743, Winter Park, FL 32789-4499. Selection will begin February 1996. Rollins ensures Equal Employment Opportunity through an effective and continuing Affirmative Action Program.

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SCIENTIST/ RESEARCH SCIENTIST/ SENIOR SCIENTIST Structural Chemistry

This position will be filled at the appropriate level based on the applicant's educational background and experience level. The selected individual will serve as a resident expert in NMR. Major responsibilities will include collaborating with Medicinal and Analytical Chemists in defining and applying NMR methods for solving structural and analytical issues in the area of drug discovery. Duties will also include training and supervising non-specialists in the appropriate use of NMR instruments and maintaining a sophisticated high field, multi-instrument facility.

This position requires a B.S. Degree in Chemistry or Analytical Chemistry with 3-6 years experience in analytical NMR spectroscopy; or an M.S. Degree in one of the above disciplines with 1-3 years relevant experience; or a Ph. D. in one of these disciplines with 0-2 years relevant experience. Candidate must have a demonstrated ability to devise and execute a wide range of multidimensional NMR methods, including pulse gradient experiments, in order to solve structural problems. The ability to recognize important developments in the field and make recommendations for incorporating new technology is required.

The rewards of working at Glaxo Wellcome include an excellent salary, a flexible benefits package, a beautiful headquarters campus with ultra-modern facilities. For confidential consideration, send your resume and salary history, indicating the position title, to: **Human Resources, Job #ASC097702, Glaxo Wellcome, P.O. Box 13398, Research Triangle Park, NC 27709.** (No Phone Calls or Agency Referrals, Please) An Equal Opportunity Employer M/F/D/V

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NATIONAL CANCER INSTITUTE (NCI)
National Institutes of Health (NIH)
Department of Health and Human Services (DHHS)

DIRECTOR DIVISION OF CLINICAL SCIENCES Medical Officer (General), GS-602-15

The NCI recently announced that it was accepting applications for the position of Director, Division of Clinical Sciences (DCS), located on the NIH campus in Bethesda, MD. The NCI has extended the date for receipt of applications from December 18, 1995 to January 16, 1996. Individuals who applied previously will be considered and do not need to reapply. The Director, DCS, provides scientific leadership for the NCI intramural clinical research program. He/She is responsible for the development and administration of innovative investigator-initiated clinical research in cancer, AIDS, and AIDS-related malignancies which translates fundamental research to the bedside in a bi-directional manner. Through the allocation of budgetary and FTE resources within the Division, the Director determines immediate and long-range research objectives and plans and directs the implementation of these objectives. The Director is responsible for managing and maintaining a clinical and laboratory environment conducive to development and conduct of clinical research and ensuring that research conducted throughout the NCI intramural program reflects both the highest standards of scientific excellence and the highest ethical standards for protection of the human subjects participating in intramural clinical research. We are seeking physicians who have expertise in the development of innovative programs for the treatment of cancer and AIDS and who have demonstrated the ability to manage large, multi-disciplinary clinical research programs. Experience and working knowledge with the issues related to human subjects experimentation are highly desirable.

SALARY AND BENEFITS: The Director, DCS position is in the Federal Civil Service. Specific salary range information is available from the contact listed below. Total annual compensation is based on A) the length of service the physician has with the Public Health Service, Indian Health Service, or Veterans Health Administration; B) board certification; C) medical subspecialty; and D) possession of other exceptional qualifications. A one-time, lump-sum recruitment bonus of up to 25% of basic salary may also be paid. In addition, future compensation may also include an annual retention allowance. Benefits include health and life insurance options, retirement, paid holidays, and vacation and sick leave.

Payment of travel and transportation expenses will be considered on an individual basis.

FOR QUALIFICATION REQUIREMENTS, APPLICATION PROCEDURES, AND OTHER ADDITIONAL INFORMATION, PLEASE CONTACT:

Ms. Laura Faile
Personnel Management Specialist, NCI
NCI Personnel Office
9000 Rockville Pike
Bldg. 31, Room 3A21
Bethesda, MD 20892
Tel: (301) 496-6503
Fax: (301) 496-6168



Applications must be postmarked no later than the announcement closing date of 01/16/96. To be considered, applicants must be U.S. citizens.

Selection for this position will be based solely on merit, with no discrimination for non-merit reasons such as race, color, gender, national origin, age, religion, sexual orientation, or physical or mental disability.

NIH is an Equal Opportunity Employer

POSITIONS OPEN

MAMMALIAN ECOLOGIST WILDLIFE HABITAT ECOLOGIST

Two tenure-track positions, **ASSISTANT PROFESSOR**, nine-month, beginning August 1996. Each will teach two undergraduate courses per year and one graduate course in alternate years. Undergraduate courses include introductory wildlife management, wildlife ecology, advanced wildlife management, and wildlife habitat management. Potential graduate courses include landscape ecology, habitat analyses, or mammalian ecology. Develop significant extramurally funded research program involving graduate students and publications. Requirements include Ph.D. in natural resources, ecology, wildlife biology, zoology or related field; research experience at or beyond the Ph.D. level in ecology of larger mammals or avian/mammalian habitat ecology; and interest and ability to teach and advise large numbers of students in an interdisciplinary department. Send inquiry or letter of application indicating position(s) of interest and discussing relevancy of previous training and experience, research interests, and teaching interests and philosophy; transcripts; résumé; names, addresses, and telephone numbers of three references to: **Dr. Charles T. Robbins, Ecologists Search, Department of Natural Resource Sciences, Washington State University, Pullman, WA 99164-6410. Telephone: 509-335-1119; FAX: 509-335-7862.** References will be sought after the initial screening of applicants beginning on March 4, 1996. *Equal Opportunity Employer/Affirmative Action/ADA.*

TWO POSITIONS IN MOLECULAR BIOLOGY

The Department of Biological Sciences in the Faculty of Science at the University of Alberta invites applications for two tenure-track positions in molecular biology of eukaryotic systems: one in yeast molecular genetics and the other in plant molecular biology. However, excellent candidates in related areas are also encouraged to apply. The effective date of employment will be July 1, 1996. The candidate must have a Ph.D. and postdoctoral research experience. Appointments will be made at the level of **ASSISTANT PROFESSOR** (\$39,230-\$55,526). Candidates should forward a curriculum vitae, a list of publications, a one-page statement of research interests, and the names of three referees to: **Dr. S. E. Jensen, Department of Biological Sciences, CW405 Biological Sciences Building, University of Alberta, Edmonton, Alberta T6G 2E9 Canada. Email: susan.jensen@ualberta.ca.** For additional information about the department see: <http://gause.biology.ualberta.ca/biosci.html>. Closing Date: February 29, 1996. *In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. The University of Alberta is committed to the principle of equity in employment. As an employer we welcome diversity in the workplace and encourage applications from all qualified women and men, including Aboriginal peoples, persons with disabilities, and members of visible minorities.*

NATURAL HISTORY/BOTANY

The Evergreen State College (TESC) seeks recently trained biologists with one to 10 years of experience for full-time continuing and full-time visiting **FACULTY POSITIONS** beginning September 15, 1996. Seek applicants who can incorporate plant-based field studies into team-taught interdisciplinary programs. Disciplinary/methodological strengths should include historical/comparative approaches (systematics, biogeography) and/or experimental approaches (ecology, forestry). Knowledge of flora and ecology of Pacific Northwest, initiation of student-oriented research program, and experience with herbarium techniques desired. Application procedures: **Faculty Hiring Coordinator, TESC, Olympia, WA 98505 or Email: pinsonr@elwha.evergreen.edu.**

BAYLOR COLLEGE OF MEDICINE PHYSICIAN RESEARCHER POSITIONS

Two positions are available at the **ASSISTANT PROFESSOR** level; higher rank will be considered based on qualifications. The primary criterion for selection will be potential for development of an outstanding independent research program. Board certification or eligibility in clinical genetics is required, and the position will include participation in clinical and teaching activities. Please write to: **James R. Lupski, M.D., Ph.D., Chair, Physician Researcher Search Committee, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030. Telephone: 713-798-6530; FAX: 713-798-5073.**

POSITIONS OPEN

FACULTY POSITION MOLECULAR MICROBIOLOGY

The Department of Molecular Biology at the University of Wyoming is seeking to fill a **TENURE-TRACK** position in molecular microbiology. Preference will be given to individuals with training and/or experience in the general area of microbial pathogenesis. Candidates must hold a Ph.D. in an appropriate field and have at least two years of postdoctoral experience. Evidence of accomplishments in both research and teaching will be essential. The successful candidate will be expected to establish an independently funded research program and participate in both the undergraduate and graduate teaching programs. The department is presently composed of 13 faculty with diverse research interests in biochemistry, genetics, and microbiology supported by over \$2 million per year in federal grants. Laboratory facilities are modern and well equipped. Salary and start-up packages will be competitive. The University enrolls 10,000 students including about 1900 graduate students. Laramie is located in southeastern Wyoming between two mountain ranges and is 120 miles from Denver, Colorado. For additional information about the department, see <http://www.uwyo.edu/ag/molecbio/mobio.html> or direct questions to uwmbio@plains.uwyo.edu. Candidates should submit a curriculum vitae, description of research plans and teaching philosophy, and three letters of recommendation to: **Faculty Search Committee, Department of Molecular Biology, Box 3944 University Station, Laramie, WY 82071.** Screening of applications will begin on March 1, 1996 and continue until a suitable candidate is identified.

PLANT BIOLOGIST

The Ohio State University (OSU) at Marion. **VISITING ASSISTANT PROFESSOR**, one-year position renewable annually up to three years beginning September 1996; Ph.D. required. Successful candidate would teach introductory biology, local flora, and other appropriate courses and direct the OSU Marion Campus Nature Center (an environmental education program centered around a reconstructed prairie). We seek applicants who are committed to undergraduate education and interested in teaching in a multidisciplinary small-college atmosphere. Marion is one of OSU's four regional campuses and the successful candidate will be a member of OSU's Department of Plant Biology. Include in application materials a letter describing teaching philosophy, research interests, and experience; curriculum vitae; and three letters of reference.

Review of applications will begin on 5 February 1996 and continue until a suitable candidate is identified. Send to: **Richard Bradley, Chair, Plant Biology Search Committee, c/o Linda Jonsson, OSU Marion, 1465 Mt. Vernon Avenue, Marion, OH 43302. Email: Bradley.10@osu.edu.** The Ohio State University is an Equal Opportunity/Affirmative Action Employer. Women, minorities, Vietnam-era veterans, disabled veterans and individuals with disabilities are encouraged to apply.

INVERTEBRATE ECOLOGIST SAINT MICHAEL'S COLLEGE

The Biology Department of Saint Michael's College invites applications for a tenure-track position in invertebrate ecology at the **ASSISTANT PROFESSOR** level to begin fall 1996. The successful applicant will have the Ph.D. with extensive experience in the ecology of invertebrates at the population or community level. Teaching assignments will include upper-level courses in ecology and invertebrate biology, participation in a team-taught general biology course for majors, and non-majors' courses with laboratory components. Total teaching load is 21 hours per year. Responsibilities also will include participation in our Environmental Science Program, maintaining an active research program in which undergraduates can become involved, advising, and service to the College community. Previous teaching and postdoctoral experience preferred.

Review of applications will begin on February 15, 1996. For more information, visit our WWW site at http://smc.vax.smcvt.edu/www/smc_cwis/bio.html. Send curriculum vitae, undergraduate and graduate transcripts, statements of teaching and research philosophy, and three letters of recommendation to: **Dr. Daniel Bean, Biology Chair, Office of Human Resources, Saint Michael's College, Winoski Park, Colchester, VT 05439.** Saint Michael's College is a Catholic institution of higher education in the Liberal Arts tradition and an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

ASSISTANT PROGRAM DIRECTOR Environmental Studies

The interdisciplinary M.S. Program in Environmental Studies, Southern Illinois University at Edwardsville, invites applications for a tenure-track position at the **ASSOCIATE PROFESSOR** level. Applicants are sought who have broad training and expertise in environmental issues. Candidates who are active in environmental research and publication and who are interested in attracting students to their research projects are of particular interest. The successful candidate will teach courses in Environmental Studies, serve as Assistant Program Director, direct student research, and (perhaps) support programs in the tenuring department. Qualifications: a Ph.D., tenurable in biology, chemistry, geography, public administration, or political science, with evidence of excellence in environmental research and teaching. To apply, send a letter with a statement of your teaching and research interests and goals, curriculum vitae, university transcripts, reprints of recent publications, and the names, telephone numbers, and addresses of three persons who will serve as references to:

**Chair, Environmental Studies Search Committee
M.S. Program in Environmental Studies
Box 1099**

**Southern Illinois University at Edwardsville
Edwardsville, IL 62026**

Affirmative Action/Equal Employment Opportunity.

MOLECULAR BIOLOGIST RADIATION ONCOLOGY DEPARTMENT DUKE UNIVERSITY

The Department of Radiation Oncology at Duke University Medical Center seeks applications for an individual with training and interest in the molecular biology of hyperthermia. We seek scientists who will interact with clinical and basic science faculty in translational research to: 1) advance knowledge regarding regulation of heat shock and stress responses, in general; and 2) work toward the development of gene therapy approaches that involve the use of hyperthermia. The research environment is located in a new multidisciplinary medical science research facility, with opportunities to collaborate with a variety of outstanding scientists with expertise in molecular biology, signal transduction, angiogenesis, pharmacology, inflammation, cell cycle regulation/apoptosis and tumor physiology. This institution has the largest active clinical hyperthermia program in the United States. Applicants at the **ASSISTANT** to **ASSOCIATE PROFESSOR** level are encouraged to apply. The position is available immediately. Please send a cover letter that discusses research goals and current interests, curriculum vitae, and names of three references to: **Mark W. Dewhirst, D.V.M., Ph.D., Chairman, Search Committee, Department of Radiation Oncology, Box 3455, Duke University Medical Center, Durham, NC 27710.**

FACULTY POSITIONS AIDS and Other Chronic Viral Infections Research

The Institute of Human Virology of the University of Maryland Biotechnology Institute (Medical Biotechnology Center) and the University of Maryland at Baltimore (School of Medicine) invite applications for **TWO TENURE-TRACK FACULTY** positions. M.D. or Ph.D., plus experience in clinical and/or basic research in chronic viral infections. Positions include a seed package for laboratory start-up. Faculty rank and salary are commensurate with experience. Review of applications will begin on January 15, 1996, and will continue until suitable candidates are selected. Send updated curriculum vitae to: **Robert C. Gallo, M.D., Director, Institute of Human Virology, 618 West Lombard Street, 2nd Floor, Baltimore, MD 21201.** The University of Maryland System is an Affirmative Action/Equal Employment Opportunity Employer. Women and minorities are encouraged to apply.

FACULTY POSITION: biology. Full-time beginning fall 1996. Ph.D., with emphasis in ecology/environmental science. Seeking broadly trained individual to teach courses in introductory biology, environmental science, and ecology. Must be strongly committed to the educational mission and evangelical Christian orientation of the college. Application letter should include response to this requirement. Send letter and résumé to: **Dr. Tricia Brownlee, Dean of Academic Programs, Bethel College, St. Paul, MN 55112.** Women and minorities encouraged to apply.

Parke-Davis Pharmaceutical Research Company currently has the following toxicology/pharmacology positions open in its Ann Arbor, Michigan facility.

TOXICOLOGIST/SAFETY PHARMACOLOGY

This position requires an individual with an industrial or academic background and training in experimental toxicology/safety pharmacology to participate in designing, conducting and reporting preclinical toxicology and safety pharmacology studies with new drug candidates. Candidate will supervise the activities of other scientific staff in the conduct of these studies and will participate in drug discovery and development team activities.

Qualifications include a Ph.D. or equivalent in toxicology/pharmacology and 3-4 years experience in toxicology/safety evaluation research. Board certification in toxicology is highly desirable. Candidate must be able to work independently and as a member of a highly-specialized team. Ref. #LJB95296

SENIOR SCIENTIST

Responsibilities include scientific leadership of research projects designed to investigate cellular mechanisms of toxicity and management of an in vitro toxicology studies laboratory. Collaboration with other scientists within the Department of Pathology and Experimental Toxicology in the conduct of investigative studies and safety evaluations is necessary.

This position requires a Ph.D. in toxicology or related discipline with 5-6 years of postgraduate experience. Expertise in primary cell and tissue culture and in the assessment of cellular toxicity by biochemical, molecular and morphological approaches is required. Candidate must have demonstrated ability to work independently in the design, conduct and interpretation of experiments in a highly-collaborative team environment. Excellent verbal and written communication skills, and a publication record are a must. Ref. #LJB95301

SAFETY ASSESSMENT SPECIALIST

This experienced toxicologist for the Pathology and Experimental Toxicology Department will participate in the preparation of documents associated with departmental projects. The summarization of study results and assessment of safety of candidate drugs are the primary responsibilities. Collation and summarization of published data pertinent to subject compounds and therapeutic categories is also required. Individual will participate in departmental associated research which includes serving as a director for in-house studies, a monitor for contract studies, and in interdepartmental drug discovery and development teams.

Requirements for this position include a Ph.D. in toxicology or related discipline, several years of relevant experience, and a background in toxicology research. Knowledge of GLP requirements and effective written/oral communication and information gathering skills also necessary. Ref. #LJB95302

INFLAMMATION BIOLOGIST

Requirements: B.S. or M.S. with 2-7 years of experience. Essential skills include cell/tissue culture techniques, radioisotope handling and small animal surgical techniques. Skills in molecular biology, computer-based programming and image analysis is a plus. Ref. #DCS95278

POSTDOCTORAL FELLOW

Responsible for conducting research aimed at elucidating mechanisms of cellular injury, utilizing in vitro methodologies. This position requires a Ph.D. in toxicology or related discipline with 0-2 years of postdoctoral experience and familiarity with cell culture, biochemical, molecular and/or microscopic techniques. Ref. #LJB2172

Interested individuals should send their resume, referencing appropriate Job Number to: Parke-Davis Pharmaceutical Research, Human Resources, 2800 Plymouth Rd., Ann Arbor, MI 48105, or via E-mail to: Resume@AA.WL.COM



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RESEARCH ASSOCIATE

Boulder, CO

Amgen, the world's largest biotechnology company, seeks a Research Associate for its Boulder facility.

The DNA synthesis group is searching for a self-motivated individual to join the oligonucleotide production team. This position involves the synthesis, purification and distribution of oligonucleotides for research use.

The qualified candidate will have a Bachelor's degree in Chemistry, Biology or a related field and 3-5 years' laboratory experience with oligonucleotide synthesis procedures. Additionally, your experience will include large volume sample handling, automated laboratory workstations and database management, and supervisory experience. Detail-oriented individuals with strong communications skills and the ability to work in a team environment are preferred.

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POSITIONS OPEN

ANIMAL PHYSIOLOGIST/BIOCHEMIST

The Department of Biology of Washington College has a three-year faculty position available at the rank of **ASSISTANT PROFESSOR** beginning fall semester 1996. A Ph.D. is required. Candidates with broad expertise in animal physiology and biochemistry, with a strong environmental focus, are especially sought. Washington College is located on a tributary of the Chesapeake Bay and orients much of its scientific research toward investigating problems associated with the Chesapeake Bay ecosystem. Teaching responsibilities include courses in biochemistry, animal physiology, vertebrate anatomy, and introductory biology. The successful candidate will have the opportunity to introduce a new upper-level course in his or her specific area of interest. Send curriculum vitae, three letters of recommendation, and undergraduate and graduate transcripts (unofficial copies accepted) by February 1, 1996 to: **Kathleen M. Verville, Ph.D., Department of Biology, Washington College, 300 Washington Avenue, Chestertown, MD 21620.** Washington College is an Affirmative Action/Equal Opportunity Employer. Women and minorities are especially encouraged to apply.

FACULTY POSITIONS GENERAL BIOLOGY

The Department of Biology, Middle Tennessee State University, invites applications for two tenure-track positions (Numbers 103380, 103390, **ASSISTANT/ASSOCIATE PROFESSOR**, doctorate required by first day of class) available August 1996. The successful applicants will have a broad background in biology. Primary teaching duties in a one-semester general education course. Evidence of excellence in teaching essential. Expertise in application of instructional technology required. Research and public service are expected. Applicant reviews begin 8 January 1996. Positions' availability contingent upon funding and final authorization. Send application referencing position number, proof of eligibility for employment, transcripts, and three letters of reference to: **Dr. Sarah Barlow, Committee Chair, Box 60, MTSU, Murfreesboro, TN 37132.** Email: SBARLOW@FRANK.MTSU.EDU. Equal Opportunity/Affirmative Action/ADA Employer.

MOLECULAR VIROLOGY UNIVERSITY OF KANSAS MEDICAL CENTER

The Department of Microbiology, Molecular Genetics and Immunology in the School of Medicine is recruiting a faculty member for a tenure-track appointment at the level of either **ASSISTANT or ASSOCIATE PROFESSOR** in the area of molecular virology. Requirements include a Ph.D. and/or M.D. degree, postdoctoral experience, and demonstrated ability to pursue independent research. The successful candidate will be expected to develop and maintain an active, externally funded research program. Active participation in team-taught virology courses to medical and graduate students is expected. Candidates with a track record of collaboration in interdisciplinary research are encouraged to apply. Please send full curriculum vitae with copies of recent publications, a short summary of research accomplishments and future directions, and names, addresses, and telephone numbers of three references to: **Dr. Bala Chandran, Search Committee Chair, Microbiology Department, University of Kansas Medical Center, 3901 Rainbow Boulevard, Kansas City, KS 66160-7420.** The University of Kansas Medical Center is an Affirmative Action/Equal Opportunity Employer.

Applications are requested for an **ASSISTANT PROFESSOR** (tenure-track) position in the Institute of Chemical Toxicology. Applicants should have extensive knowledge of cell culture (primary and immortalized cell lines) and molecular biology techniques, experience in the operation and management of a cell culture facility, an ability to interact with basic and physician scientists, and an independently funded research program examining the effects of chemicals on gene expression using cultured cells. A curriculum vitae and three reference letters should be sent to: **Dr. Raymond F. Novak, Director, Institute of Chemical Toxicology, 2727 Second Avenue, Room 4000, Detroit, MI 48201-2654.** Wayne State University—People working together to provide quality service. All buildings, structures and vehicles at WSU are smoke-free. Applications must be received no later than February 15, 1996. Wayne State University is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

DEPARTMENT OF ANATOMY Medical Sciences Campus University of Puerto Rico

Applications are invited for a faculty position, rank up to **ASSOCIATE PROFESSOR** depending on experience. We anticipate that this position will be tenure-track. We prefer an individual with research interests in developmental biology (cellular to organismal levels) and the ability to teach gross anatomy and medical embryology, although other research interests will also be considered. The successful candidate will have an ongoing research program and commitment to seek external funding. Applicants should send curriculum vitae, summary of current research, and names of three references to: **John G. H. Cant, Director, Department of Anatomy, School of Medicine, University of Puerto Rico, G.P.O. 5067, San Juan, PR 00936-5067.** Telephone: 809-754-6274; FAX: 809-767-0788. Review of applications will begin immediately and continue until the position is filled. The University of Puerto Rico is an Equal Opportunity/Affirmative Action Employer.

VERTEBRATE BIOLOGIST

The University of Southern Maine (USM) has an opening for a tenure-track faculty position at the rank of **ASSISTANT PROFESSOR**. Teaching duties will include annually a course in area of expertise, and either developmental biology or embryology, and participation in the freshman biology courses. The successful applicant will maintain an ongoing research program involving the participation of undergraduate students. The Department of Biological Sciences consists of ten full-time faculty, 250 undergraduate majors, and offers the B.A. in biology. Candidates must have completed all requirements for a Ph.D., including thesis defense, by June 30, 1996. Send letter of application, curriculum vitae, and three letters of reference postmarked by February 16, 1996 to: **Louis F. Gainey, Jr., Chair, Faculty Search Committee, Department of Biological Sciences, RE: 101, University of Southern Maine, 96 Falmouth Street, Portland, ME 04104-9300.** USM is an Equal Employment Opportunity/Affirmative Action Employer committed to diversity, quality and reasonable accommodation.

BIOLOGY

Oklahoma City University invites applications for the position of **ASSISTANT PROFESSOR** of Biology (tenure-track). A Ph.D. in molecular biology, microbiology, molecular genetics, or related field is required. Preference will be given to individuals with a strong commitment to teaching excellence and strong potential for research. The successful candidate will be responsible for teaching courses in genetics, molecular genetics, cell biology, and general biology. Additionally, the position will direct undergraduate research projects. Salary regionally competitive. Application deadline is February 15, 1996. Send letter of application, curriculum vitae, all transcripts, and three letters of recommendation to: **Dr. Susan Barber, Chair, Department of Biology, Oklahoma City University, 2501 N. Blackwelder, Oklahoma City, OK 73106.** Oklahoma City University is owned by the Oklahoma Conference of the United Methodist Church. It has total enrollment of 4500 students. This position will give the Biology Department a total of four full-time faculty to serve approximately 80 biology and pre-med majors. Oklahoma City University is an Affirmative Action/Equal Opportunity Employer.

CENTRE COLLEGE Developmental Cell Biologist

ASSISTANT PROFESSOR, tenure-track, Ph.D. required. Strong background in light and electron microscopy and experience in animal histology is desirable. Teaching responsibilities include introductory biology, introductory cell and molecular biology, cell ultrastructure and physiology, developmental biology, microscopy and microanatomy, and associated laboratories and seminars. Collaborative research with undergraduates is expected. Strong commitment to liberal arts and undergraduate teaching required. Send letter of application, curriculum vitae, transcripts, and at least three letters of recommendation to: **Dean John C. Ward, Centre College, 600 West Walnut Street, Danville, KY 40422-1394.** Review of applications will begin February 5, 1996 (express intent to apply via Email: Richey@Centre.edu or FAX: Professor Peggy Richey, 606-236-7925). Centre College is an Equal Opportunity Employer. Applications from women and minority groups are encouraged.

POSITIONS OPEN

BIOLOGY FACULTY POSITIONS

Angelo State University seeks applicants for two tenure-track **ASSISTANT PROFESSORSHIPS**. A Ph.D. is required. Position 1: biologist to teach graduate and undergraduate cell biology/molecular biology, human anatomy, and advanced courses in his or her area of specialty. Preference will be given to candidates with primary interest in molecular biology and the ability to assist students with basic molecular techniques. Position 2: ecologist to teach undergraduate ecology, undergraduate and graduate biostatistics, and advanced courses in his or her area of specialty. The candidate must be able to assist students with statistical analyses. Submit (1) an official letter of application highlighting work experience and accomplishments relevant to the position; (2) a résumé; (3) the names, addresses, and telephone numbers of five professional references to: **Dr. Bonnie B. Amos, Head of the Department of Biology, Angelo State University, San Angelo, TX 76909.** Review of applicants will begin February 15, 1996.

GEORGIA COLLEGE Department of Biological and Environmental Sciences

Tenure-track position available starting 1 September 1996 at the **ASSISTANT PROFESSOR** rank to teach historical geology and physical geology/geography and related courses. Ph.D. in biology, zoology, geology, paleobotany, geomorphology, biogeography, or related areas strongly preferred but ABD near completion will be considered. Submit a letter of application describing research and teaching interests; a curriculum vitae; official transcripts of all degrees awarded; and three letters of reference with telephone numbers to: **Dr. Dennis Parmley, Chair-Search Committee, Department of Biological and Environmental Sciences, Georgia College, Milledgeville, GA 31061.** Review of applications will begin on 15 February 1996. Position open until filled.

An Equal Opportunity/Affirmative Action/American Disabilities Act Institution. Women, African-Americans and other minorities are encouraged to apply.

ASSOCIATE PROFESSOR

The Department of Veterinary Anatomy and Cell Biology is seeking a cell/molecular biologist for a tenure-track faculty position at the **ASSOCIATE PROFESSOR** level starting June 1, 1996. Applicant should have Ph.D. or equivalent in a biological or biomedical science, postdoctoral experience, research background in cell/molecular biology, ability to teach neuroanatomy/neuroscience, and extramural funding. Application deadline is February 15, 1996, or until suitable applicant is found. Submit curriculum vitae; names, addresses, and telephone numbers of at least three references; and a summary of current research to: **Dr. Gary E. Wise, Professor and Head, Department of Veterinary Anatomy and Cell Biology, School of Veterinary Medicine, Louisiana State University, Baton Rouge, LA 70803.** Louisiana State University is an Equal Opportunity/Affirmative Action Employer.

EXTENSION/RESEARCH PLANT PATHOLOGIST

This tenure-leading, 12-month, 50% research/50% extension position requires a Ph.D. in plant pathology or related field. Postdoctoral or industry experience is desirable. Experience in conducting laboratory and field research and strong oral and written communication skills are also required. The successful candidate will be a member of an interdisciplinary extension and research team focusing on crop production, especially corn, sorghum, and soybeans, in South Central and West Central Nebraska, offered at Clay Center, Nebraska. Will be expected to develop educational materials for publication and media and conduct principally applied research and field test demonstrations. Submit letter of application, résumé, transcripts, and names and addresses of three references postmarked by March 1, 1996 (or until a suitable candidate is found) to: **Dr. Anne Vidaver, Department of Plant Pathology, University of Nebraska-Lincoln, 406 Plant Sciences Hall, Lincoln, NE 68583-0722.** Telephone: 402-472-2858; FAX: 402-472-2853; Email: PATH001@UNLVM.UNL.EDU. University of Nebraska-Lincoln is committed to a pluralistic campus through Affirmative Action and Equal Opportunity, is responsive to the needs of dual career couples, and ensures reasonable accommodation through the Americans With Disabilities Act. Contact Dr. Vidaver for additional information.



DEAN OF THE COLLEGE OF
BIOLOGICAL SCIENCES
THE OHIO STATE UNIVERSITY

The Ohio State University continues to invite nominations and expressions of interest for the position of Dean of the College of Biological Sciences. Ohio State is one of the nation's leading comprehensive research universities. It is situated in Columbus, Ohio, a thriving metropolitan area of about 1.4 million and the capital of the State of Ohio. The dean of the college is administratively responsible for the departments of Biochemistry, Entomology, Microbiology, Molecular Genetics, Plant Biology, and Zoology. The college currently has 98 regular faculty, an annual budget of \$18.9 million, research funding of \$9.5 million, and a tradition of excellence in teaching and research.

The dean provides leadership for the educational and research activities of the college and works collaboratively with the faculty of the college, the university administration, and other constituent groups both within and outside the University. The dean is responsible for faculty recruitment, development and advancement of academic programs, administration of personnel affairs, and projection and allocation of budgets for units in the college. In addition, the dean has responsibilities for encouraging and developing collaborations with the College of Food, Agricultural, and Environmental Sciences, the College of Mathematical and Physical Sciences, and six health sciences colleges. Further, the University is undergoing a major expansion in the life sciences, including new initiatives in molecular life sciences (which will entail at least thirty new faculty positions university-wide), cancer genetics, plant molecular biology, and biotechnology; the dean will play a major leadership role in these endeavors. The dean reports to the provost, who is the chief academic officer of the University.

A candidate must possess an earned doctorate or its equivalent in one of the disciplines in the college. Additional qualifications for the position should include a distinguished record in research, teaching, and service; demonstrated excellence in leadership and administration; and a clear record of effective commitment to and support of cultural and ethnic diversity and affirmative action. Candidates must have the qualifications for appointment as professor in one of the units of the college.

The Search Committee will continue to review applications until the dean is selected. Those interested should send a letter expressing their interest and qualifications and a curriculum vitae to the university's executive search consultant:

Jerry H. Baker
Schuyler, Frye & Baker, Inc.
1100 Abernathy Road, N.E., Suite 1825
Atlanta, GA 30328-5660
e-mail:jbaker@mindspring.com

The Ohio State University is an Equal Opportunity, Affirmative Action Employer. Women, minorities, Vietnam-era veterans, disabled veterans and individuals with disabilities are encouraged to apply.

Senior Scientist

TRANSCRIPTIONAL REGULATION

Together with all the Boehringer Ingelheim Companies Worldwide, Boehringer Ingelheim Pharmaceutical, Inc., is committed to value through innovation as our driving ambition. As a major international pharmaceutical company, we have made a commitment to innovation through world class R&D facilities, programs and scientific staff.

We are seeking a talented Research Scientist with expertise in **nuclear signalling and transcriptional regulation** to join our drug discovery program in immunological and inflammatory diseases. Research in these areas spans a continuum from isolated transcription factors and engineered cell lines to transgenic animal models. Our goals are to discover novel therapeutic agents and to identify and validate new molecular drug targets. The successful candidate is expected to conduct innovative research in a team setting. He or she should be highly motivated and possess a broad knowledge and experience base in the molecular and cell biology and biochemistry of gene expression. Minimum requirements include a Ph.D. in a relevant discipline, 3 years of postdoctoral training with an established track record of scientific excellence, and strong communication and interpersonal skills.

Boehringer Ingelheim's R&D facility is located on a campus-like setting in a beautiful area of Western Connecticut. We offer excellent facilities and a supportive/challenging environment. For an opportunity to contribute to our innovative programs, please send your resume and brief cover letter to: **Dept JP-47, Boehringer Ingelheim Pharmaceuticals, Inc., 900 Ridgebury Road, P.O. Box 368, Ridgefield, CT 06877-0368**. We are an equal opportunity employer. As a progressive health care company, we have a non-smoking environment.



**Boehringer
Ingelheim**

UNIVERSITY OF WISCONSIN-MILWAUKEE

ASSISTANT PROFESSOR—BIOLOGIST

Applications are invited for an anticipated tenure-track **ASSISTANT PROFESSORSHIP** in the Department of Biological Sciences to begin in August 1996. We seek an outstanding candidate with demonstrated excellence in teaching and a primary commitment to undergraduate teaching and curriculum development. The successful applicant will be expected to coordinate the Department's curriculum in general biology and to teach introductory undergraduate biology courses. This individual also will be expected to collaborate with other science educators in the natural sciences in the College of Letters and Science. Preference will be given to candidates who are able to involve undergraduates in a program of research in their area of expertise. Background in computer applications in biology is also desirable.

Applicants should submit a statement of teaching and research plans and a curriculum vitae, and arrange to have three letters of recommendation sent to: **Dr. Gerald Bergtrom, Chair, Biologist Search Committee, P.O. Box 413, Milwaukee, WI 53201**. The deadline for receipt of applications is February 16, 1996.

DIRECTOR OF ELECTRON MICROSCOPY FACILITY

The Department of Biological Sciences is seeking applications for Director of the Electron Microscope (EM) Facility as an academic staff appointment. Broad experience with a diversity of biological systems and EM techniques and Ph.D. in the Biological Sciences required, postdoctoral experience preferred. Responsibilities include: 1) management of the Biological Science EM facility, 2) research support for and collaboration with university faculty, 3) instruction of faculty and students in the use of EM. An independent funded research program is desirable. The Biological Sciences Electron Microscopy Facility consists of two laboratories totaling 2000+ square feet, SEM and TEM scopes and support equipment.

Applicants should submit a curriculum vitae, statement of professional interests, and three letters of reference to: **Chairperson, EM Director Search Committee, Department of Biological Sciences, University of Wisconsin-Milwaukee, P.O. Box 413, Milwaukee, WI 53201**. The deadline for receipt of applications is February 16, 1996.

Additional information about the Biological Sciences Department is available at <http://www.uwm.edu/Dept/Biology>. The University of Wisconsin-Milwaukee is an Equal Opportunity/Affirmative Action Employer. Women and minority scientists are encouraged to apply for these positions. The names of those nominees and applicants who have not requested that their identities be withheld and the names of finalists will be released upon request.

POSITIONS OPEN

VISITING ASSISTANT PROFESSOR Ecology—Population Biology—Behavior

The Department of Biology, Skidmore College, invites applications for a nine-month visiting position at the **ASSISTANT PROFESSOR** level, effective July 1996. Applicants must have a Ph.D.; postdoctoral experience desirable. Teaching for the successful applicant will include: fall semester—an introductory-level course for majors in population biology and an advanced course in ecology; spring—an advanced course in animal behavior. Supervision of student research projects is also expected. Send curriculum vitae, statements of teaching and research interests, and three letters of reference to: **Dr. David Domozycz, Chair, Department of Biology, Skidmore College, Saratoga Springs, NY 12866**. Review of applications will begin on February 15, 1996 and continue until the position is filled. *Women and members of minority groups are encouraged to apply. Skidmore College is an Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITION MOLECULAR CELL BIOLOGY Technion-Israel Institute of Technology

The Bruce Rappaport Faculty of Medicine at the Technion invites applications for a tenure-track position in molecular cell biology at the **LECTURER to ASSOCIATE PROFESSOR** level. Applicants are expected to conduct independent research of high quality in any area of modern molecular cell biology and to teach courses in their area of expertise to medical and graduate students. Please submit curriculum vitae, a brief statement of research directions, and names of three references to: **Professor Peretz Lavie, Dean, The Bruce Rappaport Faculty of Medicine, Technion, P.O. Box 9649, Bat Galim, Haifa 31096, Israel.**

TRENTON STATE COLLEGE Biology Department Assistant Professor

ASSISTANT PROFESSOR—One-year temporary position (1996-97) to teach general biology to majors and an optional specialty course. Ph.D. and appropriate teaching experience required. Possibility of a second year reappointment. Send curriculum vitae and statement of interest plus three support letters that address teaching effectiveness to: **Dr. G. R. Lipton, Biology Department, Trenton State College, Hillwood Lakes, CN4700, Trenton, NJ 08650-4700** by February 15, 1996. Trenton State College is a highly selective public college in suburban Central New Jersey, ten miles south of Princeton, one hour by rail to Philadelphia or New York City. *To enrich education through diversity, Trenton State College is an Affirmative Action/Equal Opportunity Employer.*

BIOLOGY

Applications are requested for a tenure-track position as **ASSISTANT/ASSOCIATE PROFESSOR** of Biology beginning August 1996. Faculty will teach general microbiology, diagnostic microbiology, general biology, and other courses. Demonstrated commitment to teaching at the undergraduate level is essential. Application review to begin February 5, 1996. Application including teaching goals, résumé, transcripts, and names, addresses, and telephone numbers of three references should be submitted to: **Director of Personnel Services, Southwest State University, 1501 State Street, Marshall, MN 56258**. Email: 507DKA@RICKYVS.SOUTHWEST.MSUS.EDU. *Southwest State University is an Equal Opportunity Educator and Employer. Applicants must be able to lawfully accept employment in the United States.*

The University of Iowa DNA Core Facility is seeking an **ASSISTANT RESEARCH SCIENTIST** to conduct independent and collaborative research, technical training and consultation related to recombinant DNA technology, and sequencing information and related software resources. Requires a Ph.D. in molecular biology, biochemistry or related science. Experience with DNA sequencing and PCR technology is required. Requires a solid understanding of Macintosh computers and DNA analysis software. Postdoctoral research experience is highly desirable. Submit letter of interest and curriculum vitae to: **David Moser, Ph.D., Director, DNA Facility, College of Medicine, The University of Iowa, 321 Eckstein Medical Research Building, Iowa City, IA 52242**. *The University of Iowa is an Equal Opportunity/Affirmative Action Employer. Women and minorities are strongly encouraged to apply.*

POSITIONS OPEN



DEPARTMENT OF AGRICULTURE (USDA) AGRICULTURAL RESEARCH SERVICE (ARS) Research Dairy Scientist, Nutrient Conservation and Metabolism Laboratory Beltsville, Maryland

ARS is seeking a **RUMINANT NUTRITIONIST** to work in the area of energy metabolism in dairy cattle with particular focus on developing new concepts and improving the evaluation of whole animal energy utilization. Candidate must have experience in ruminant nutrition, energy, and protein metabolism, and skills in experimental design and analysis, and measures of energy balance. Ph.D. is desirable. *Must be U.S. citizen.* Salary is commensurate with experience (\$36,174 to \$56,362 per annum). For information on the research program and/or position, contact: **B. P. Glenn, Research Leader, Telephone: 301-504-9100**. For information on application procedures/forms/announcement contact: **Roberta Saah, Personnel Specialist, Telephone: 301-344-2204**. Applications in response to this advertisement should be marked ARS-D-6-B0010-3. Applications must be received by March 4, 1996. Mailing address: **USDA, ARS, HRD, BA/HQ, 6305 Ivy Lane, Room 361, Greenbelt, MD 20770-1435**. *USDA, ARS is an Equal Opportunity/Affirmative Action Employer; women and minorities are encouraged to apply.*

UNIVERSITY OF NEW HAMPSHIRE RESEARCH SCIENTIST II GRANT-FUNDED

Immediate opening for a **RESEARCH SCIENTIST II** with experience in modeling regional to continental-scale hydrology and/or nutrient biogeochemistry for a synthesis study of freshwater and material transports to the Arctic Ocean. The candidate will perform basic research, supervise support staff, and coordinate contributions from co-investigators. Qualifications: Ph.D. in hydrology, biogeochemistry, remote sensing, or climatology. Experience (two to five years preferred) in computer modeling and database management. Preference given to applicants with skills in GIS, applied math, statistics, landscape modeling, and/or Russian language. Experience with UNIX workstations essential. Position entails extensive domestic and foreign travel. Salary commensurate with qualifications and experience. Please send curriculum vitae and references by January 22, 1996 to: **Dr. C. J. Vorosmarty, Institute for the Study of Earth, Oceans and Space, Morse Hall, 39 College Road, Durham, NH 03824**. *Women and minorities are encouraged to apply. University of New Hampshire is an Affirmative Action/Equal Opportunity Employer.*

RESEARCH SCIENTIST

Ecogen Inc., an agricultural biotechnology company located in Langhorne, Pennsylvania, has an immediate opening for a **RESEARCH SCIENTIST** skilled in two or more of the following disciplines: membrane biochemistry, membrane biophysics and molecular modelling—computational chemistry. Candidates must have a Ph.D. degree in the appropriate discipline. Postdoctoral experience preferred. Please send your résumé and salary history to: **Ecogen Inc., Reference Number 96-4, P.O. Box 3023, Langhorne, PA 19047-3023**. *Equal Opportunity Employer.*

NICHD/NIH Chief, Perinatology Research Branch

The National Institute of Child Health and Human Development (NICHD), NIH, is recruiting for the position of **CHIEF, Perinatology Research Branch** in the Division of Intramural Research. This position will be filled on a temporary basis, not to exceed four years. The position has major responsibility for developing a program of clinical and basic science research in perinatal medicine with special emphasis in fetal development and disease. Applicants must have an M.D. degree and extensive training and experience in Ob/Gyn and maternal-fetal medicine, including prenatal diagnosis of congenital anomalies and preterm parturition. Please call the **NICHD Personnel Office, Telephone: 301-496-3365** for a vacancy announcement and specific application procedures.

POSITIONS OPEN

EXECUTIVE DIRECTOR FOR RESEARCH AFFAIRS Research Foundation of SUNY/Stony Brook

The Research Foundation of SUNY/Stony Brook administers more than \$100 million in annual expenditures derived from sponsored programs, grants, and contracts. A candidate is sought for the position of **EXECUTIVE DIRECTOR** for Research Affairs (EDRA), overseeing the Offices of Research Services, Compliance and Research Informatics, Technology Licensing and Industrial Relations, and Economic Development. The successful candidate should possess an earned doctorate in physical or biomedical sciences and take particular interest in further developing technology transfer and industrial relations. Five to ten years of relevant experience, half administrative in an academic or industrial setting, and a successful record of generating interdisciplinary extramural support is required. A competitive salary and benefit package is offered, based upon prior experience. Interested parties may submit a letter of interest, a curriculum vitae, and names and addresses of three potential references to: **Chairperson, EDRA Search Committee, Office of the Vice-President for Research, SUNY/Stony Brook, Stony Brook, NY 11794-1401**. *An Affirmative Action/Equal Employment Opportunity Employer.*

ASSOCIATE CHIEF OF STAFF FOR RESEARCH AND DEVELOPMENT

The Department of Veterans Affairs Medical Center (VAMC), San Francisco and the University of California, San Francisco (UCSF) are seeking a physician in any specialty to become **ASSOCIATE CHIEF OF STAFF** for Research and Development. The successful candidate will lead and administer this large Research and Development program and will have demonstrated extensive experience in administrative leadership and in basic or clinical research. The selected applicant will receive a UCSF faculty appointment at an appropriate level. Applicants should send a copy of their curriculum vitae by March 1, 1996 to: **Frank M. Longo, M.D., Ph.D., Neurology and Rehabilitation Service (V-127), VA Medical Center, 4150 Clement Street, San Francisco, CA 94121**. *VAMC and UCSF are Equal Opportunity Employers. Women and minorities are encouraged to apply. U.S. citizenship is required. Selected applicant may be subject to random pre-employment drug testing.*

CONSERVATION DIRECTOR FOR ASIA

The Wildlife Conservation Society (formerly New York Zoological Society) seeks a highly motivated and experienced individual to serve as **DIRECTOR** of its Asia program. Responsibilities include oversight of more than 30 field research and conservation projects in 12 Asian countries; coordination with senior field staff; contacts with U.S., Asian, and international agencies; central administration and fund-raising. New York based with two to three months per year of travel. Minimum of five years of relevant experience; Ph.D. preferred. Competitive salary and benefits. Send a curriculum vitae, list of publications, and letter of interest to:

**Charles Vasser
Human Resources
Wildlife Conservation Society
2300 Southern Boulevard
Bronx, NY 10460**

An Equal Opportunity Employer.

The Henry M. Jackson Foundation for the Advancement of Military Medicine has **POSTDOCTORAL POSITIONS** (NIH-funded) available to examine the role of costimulatory molecules in the differentiation of naïve T cells into effector or tolerant T cells *in vivo*. Aims of the project are to identify important signals that influence T cell differentiation to cytokine production during early stages of the *in vivo* immune response. Recombinant DNA technology will be used to generate targeted mutations and both live pathogens and highly purified antigens will be used as immunogens. Background experience in immunology and molecular techniques is required. Applicant should send a curriculum vitae and names and addresses of three references to: **Dr. William C. Gause, Department of Microbiology and Immunology, Uniformed Services University of Health Sciences, c/o Human Resources, Attn: PL 2950410 and 2950411, Henry M. Jackson Foundation for the Advancement of Military Medicine, 1401 Rockville Pike, Suite 600, Rockville, MD 20852**. *Affirmative Action/Equal Opportunity Employer.*

GENE EXPRESSION SCIENCES

Investigator

SmithKline Beecham, a world leader in pharmaceutical research, has an immediate opening for an Investigator to join the Department of Gene Expression Sciences.

The successful candidate will join a multidisciplinary team of scientists working to define the biological function of novel human seven transmembrane receptors discovered through a collaboration with Human Genome Sciences. This scientist will use molecular biological techniques, mammalian and insect cell culture, novel reporter systems, and a working knowledge of these receptors (and the G proteins to which they couple) to develop methods of identifying novel ligands and ultimately biological function for members of this key family of human proteins.

Minimum qualifications include a Ph.D. in Molecular Biology or related discipline; 2-3 years of postdoctoral or industrial research experience; a strong background in recombinant DNA techniques; experience in cloning and expression of receptors/G proteins, development and application of reporter systems, and mammalian/insect cell culture. The candidate should also possess a proven record of scientific achievement as evidenced by publications in leading scientific journals. SmithKline Beecham scientists are strongly encouraged to publish their research findings.

Located in our state-of-the-art research facility in suburban Philadelphia, SmithKline Beecham offers a competitive compensation/benefits/relocation package, as well as a stimulating and challenging work environment. Qualified candidates should send C.V. to: SmithKline Beecham Pharmaceuticals, Job Code H490, P.O. Box 2645, Bala Cynwyd, PA 19004. We are an Equal Opportunity Employer, M/F/D/V.



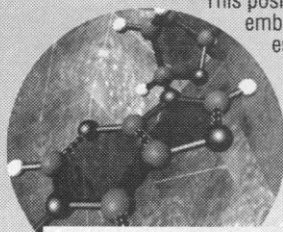
SmithKline Beecham
Pharmaceuticals

Challenging the natural limits.



Bristol-Myers Squibb

Research Scientist Oncology, Exploratory & Drug Discovery Research Transgenic Unit – Princeton, NJ



This position is responsible for the cultivation of embryonic stem (ES) cells and the establishment of ES cell lines. Overall experience in tissue culture techniques including the maintenance of proper sterile procedures (routine mycoplasma and bacteria testing), quality control for tissue culture supplies (fetal calf serum, calf serum, defined media) and maintaining records/protocols is required.

Bristol-Myers Squibb Pharmaceutical Research Institute is the R&D division of Bristol-Myers Squibb, a worldwide leader in the discovery and development of innovative pharmaceuticals.

Candidates should have a BS or MS and a minimum of 2 - 4 years related experience. Additional experience in transfection techniques, blastocysts aggregation and manipulation of embryos would be an asset.

Please forward/fax your resume to: **Human Resources Dept. TG-405, Bristol-Myers Squibb Pharmaceutical Research Institute, P. O. Box 11279, Trenton, NJ 08620-0279. FAX: (609) 581-8841.** Equal Opportunity Employer, M/F/D/V.

Assistant Administrator

**Office of Oceanic and
Atmospheric Research**
(A Senior Executive Service Position in
the Federal Government)

**Department of Commerce
National Oceanic and Atmospheric
Administration
(NOAA)**

**Assistant Administrator,
Office of Oceanic and
Atmospheric Research
Silver Spring, Maryland
\$97,991 - \$122,040 annually**

The candidate selected for this position will be responsible for the direction and administration of the Office of Oceanic and Atmospheric Research (OAR), including the Environmental Research Laboratories (ERL).

Mandatory Professional/Technical Qualification Requirements:

- Broad background in a combination of the following: oceanographic, meteorological, environmental, physical and/or engineering sciences.
- Experience in administration and direction of programs in research and development which provided broad knowledge of current problems and issues in the field of oceanic and atmospheric sciences.
- Experience in scientific program planning and policy development in the field of oceanic and atmospheric sciences.
- Experience in the practical application of research results to technological operations.

Experience in managing university grants, contracts and cooperative agreements is desirable.

Please contact (301) 713-0530 / (301) 713-0973 (TDD) for an application package, including mailing instructions. Refer to announcement number NOAA#95-11. This vacancy closes on February 14, 1996.



NOAA Values
a Diverse Workforce
and is an
Equal Opportunity
Employer



POSITIONS OPEN

POSTDOCTORAL POSITION Boston University and University of Massachusetts Medical Center

POSTDOCTORAL POSITION supported by an NIH training grant available in Renal Department for M.D. or Ph.D. to study structure and function of cytoskeletal proteins in renal cells following various forms of injury such as hypotensive renal failure, rhabdomyolysis and other forms of oxidative injury. Experience in cytoskeletal structure and function plus a knowledge of digital imaging microscopy is helpful. Position is available immediately.

Please send curriculum vitae and three letters of reference to: **Dr. Wilfred Lieberthal, Department of Renal Diseases, Boston University, 88 East Newton Street, Boston, MA 02118.** The position is a shared position between Renal Division, Boston University and the Department of Hospital Laboratories, University of Massachusetts Medical Center, Worcester, Massachusetts.

Boston University and University of Massachusetts Medical Center are Equal Opportunity/Affirmative Action Employers. Women and minorities are encouraged to apply.

POSTDOCTORAL POSITION available immediately to study the molecular mechanism of human prostate cancer tumorigenesis at the University of Pittsburgh Cancer Institute. The project involves cloning of genes responsible for the development and progression of prostate cancer. Ph.D. graduates with strong background in human genetics and gene hunting are particularly encouraged to apply.

University of Pittsburgh Cancer Institute provides an excellent academic environment for young scientists to succeed. Interested candidates should send curriculum vitae and three letters of reference to: **Dr. B. Liu, University of Pittsburgh Cancer Institute, W951 Biomedical Science Tower, Pittsburgh, PA 15213. FAX: 412-624-7736.** The University of Pittsburgh is an Affirmative/Equal Opportunity Employer.

POSTDOCTORAL POSITION CALCIUM SIGNALING University of California, Irvine

An NIH-funded **POSTDOCTORAL POSITION** is available to study the spatial and temporal dynamics of intracellular calcium during inositol triphosphate-mediated signaling. Techniques include real-time confocal microscopy and flash photolysis of caged intracellular messengers. Previous experience in electrophysiology and/or calcium imaging is advantageous. Send curriculum vitae, brief summary of research interests, and names of three references to: **Dr. Ian Parker, Laboratory of Cellular and Molecular Neurobiology, Department of Psychobiology, University of California, Irvine, CA 92717-4550. FAX: 714-824-2447; Email: IPARKER@UCI.EDU.** University of California, Irvine is an Equal Opportunity Employer committed to excellence through diversity.

HIV RESEARCH

POSTDOCTORAL POSITION available immediately in well-equipped NIH-funded laboratory studying HIV pathogenesis. Projects focus on the molecular determinants of HIV disease progression in women and children. Seeking individual trained in molecular virology. Experience in DNA sequence analysis and PCR preferred. The Wadsworth Center houses the graduate program of the Department of Biomedical Sciences of SUNY, Albany. Send curriculum vitae with references to: **Drs. B. Weiser and H. Burger, Wadsworth Center, New York State Department of Health, P.O. Box 22002, Albany, NY 12201.**

POSTDOCTORAL POSITION available immediately to study the mechanisms of developmentally regulated alternative splicing. Projects include: (i) regulation of striated muscle-specific exon inclusion via positive-acting intron elements and (ii) mechanisms of enhanced splicing by purine-rich and non-purine-rich exon elements. A strong background in molecular biology or biochemistry is required. Send curriculum vitae, statement of research experience and future goals, and names of three references to: **Dr. Tom Cooper, Department of Pathology, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030. Telephone: 713-798-3141; FAX: 713-798-5838; Email: tcooper@bcm.tmc.edu.** Baylor College of Medicine is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

RESEARCH ASSISTANT/ASSOCIATE. Available immediately to participate in research on cellular immune responses in HIV-infected individuals. Projects include the evaluation of HIV envelope specific ADCC and CTL responses. Experience in immunology and excellent technical skills required; salary commensurate with experience. Send curriculum vitae to the principal investigator: **Gail Skowron, M.D., Division of Infectious Diseases, Roger Williams Hospital/Brown University, 825 Chalkstone Avenue, Providence, RI 02908. Telephone: 401-456-2437; FAX: 401-456-6839.**

UNIVERSITY OF VIRGINIA Genetic Engineering Targeting Vascular Disease

Applications for **TWO POSTDOCTORAL RESEARCH ASSOCIATES** are invited for this new program in the Department of Biomedical Engineering. Ph.D.s with a strong interest in atherosclerosis research (animal models) or genetic engineering in the vascular area should submit their résumés, including description of research plans and two professional references, to: **Dr. Klaus Ley, Department of Biomedical Engineering, HSC Box 377, University of Virginia, Charlottesville, VA 22908.** The University of Virginia is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL FELLOWSHIP

A **POSTDOCTORAL FELLOWSHIP** is available in protein chemistry. Incumbent will study the structural changes of proteins and starch-protein interactions during food processing. Salary is \$30,000.00 per year. Applicants with doctoral degree and a strong background in protein chemistry and/or starch-protein interaction should apply to: **Dr. Gour Choudhury, Associate Professor, Fishery Industrial Technology Center, University of Alaska, 900 Trident Way, Kodiak, AK 99615, USA. Telephone: 907-486-1535.**

POSTDOCTORAL POSITION available immediately to study molecular mechanisms underlying malignant transformation. A strong background in molecular and cell biology is required. Experience with PCR, immunohistochemistry, and antibody production are desirable. Send résumé and the names of three references with telephone numbers to: **Mark Dayton, M.D., Ph.D., Department of Medicine, Section of Hematology/Oncology, LSU Medical Center—Shreveport, 1501 Kings Highway, Shreveport, LA 71130. LSU Medical Center is an Equal Opportunity Educator and Employer.**

POSTDOCTORAL POSITION available to work on identification of silver-stainable (Ag-NOR) nucleolar proteins and understanding the mechanism of their silver staining. Ag-NOR staining is a technique used for cancer diagnosis. Experience in molecular biology is required. Send curriculum vitae and three reference letters to: **Ben Valdez, Ph.D., Department of Pharmacology, Baylor College of Medicine, Houston, TX 77030. FAX: 713-798-3145. Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS Viral Pathogenesis and Molecular Immunology

POSTDOCTORAL POSITIONS available to investigate antigen processing for vaccine design, and molecular and immunological mechanisms of viral persistence in the CNS. Background in immunology or virology is desirable. Submit curriculum vitae and names of three references to: **Drs. Cornelia Bergmann or Stephen Stohlman, MCH142, University of Southern California, 2025 Zonal Avenue, Los Angeles, CA 90033. FAX: 213-225-2369.**

POSTDOCTORAL POSITION available immediately to study molecular structure and structure-function correlations of ion channels, both in purified plasma membranes and reconstituted in lipid bilayers in the laboratory of **Dr. R. Lal.** Techniques include integrated atomic force microscopy, light fluorescence microscopy and electrophysiology. Ph.D. and experience in membrane biochemistry and channel reconstitution or atomic force microscopy required. The appointment will be for one year with possibility of reappointment for up to three years. Send curriculum vitae and names of referees to: **Director, Neuroscience Research Institute, University of California, Santa Barbara, CA 93106.** Apply by February 15, 1996. **FAX: 805-893-2005; Email: rlal@physics.ucsb.edu.** An Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

POSTDOCTORAL POSITIONS IN LUNG MOLECULAR AND CELLULAR BIOLOGY

Long-term, NIH-funded **POSTDOCTORAL POSITIONS** are available (rank based upon qualifications) to study airway epithelial cell and matrix ultrastructure, biochemistry, and function in health and disease. Candidates with advanced experience in molecular biology, cell culture, and immunocytochemistry are encouraged to apply. Opportunities to interact with a variety of basic scientists at this and neighboring Chicago universities exist. Please send curriculum vitae, including description of research interests, to: **Dr. Christopher Murlas, Department of Medicine, Rush University, 1653 West Congress, Chicago, IL 60612. Email: cmurlas@rush.rpslmc.edu.**

POSTDOCTORAL POSITION in molecular hematology available immediately to candidates with an M.D. or a Ph.D. degree. Priority will be given to those with prior basic research experience, particularly in the field of molecular and cellular biology or virology. This position is intended to support a group working in the area of the gene therapy of blood diseases. Please send a letter of application with your curriculum vitae and the names and addresses of three references to: **Dr. George F. Atweh, Division of Hematology, Box 1079, Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574. FAX: 212-369-8375; Email: gatweh@smtpink.mssm.edu.**

TAMPA BAY RESEARCH INSTITUTE POSTDOCTORAL POSITION

Available immediately in the laboratory of virology to study the molecular biology of the human herpes viruses. Candidates with a Ph.D. or M.D./Ph.D. and experience in molecular biological techniques are encouraged to apply. Applicants should send a curriculum vitae with bibliography, description of research interests and goals, and names of three references to: **Chairman, Search Committee, Tampa Bay Research Institute, 10900 Roosevelt Boulevard, St. Petersburg, FL 33716.**

POSTDOCTORAL POSITION

Applications are invited for an NEI-funded position to study the role of gap junctions in retinal circuitry. Expertise in molecular biology or electrophysiology is required. Send curriculum vitae, short statement of research interests, and the names of three references to: **Stephen C. Massey, Ph.D., Department of Ophthalmology and Visual Science, University of Texas Medical School, 6431 Fannin, Houston, TX 77030. Email: smassey@gsbs.gs.uth.tmc.edu.** The University of Texas is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL POSITION

A **POSTDOCTORAL POSITION** in the Departments of Pharmacology and Radiology is available. Candidates should have a Ph.D. in either medicinal or synthetic organic chemistry to join a research team to study CNS receptor function. Major emphasis will be using products of molecular biology to characterize new ligands. Experience in synthetic organic chemistry and its application in drug discovery will be helpful. Send résumé to: **Dr. Hank F. Kung, Room 305, 37000 Market Street, Department of Radiology and Pharmacology, University of Pennsylvania, Philadelphia, PA 19104. Email: kungfh@sunmac.spect.upenn.edu.**

Two **POSTDOCTORAL POSITIONS** available: (1) neuroanatomy of basal forebrain, (2) recording neurons in behaving animals. Excellent salary and benefits. Work among interactive group of systems/behavioral neuroscientists. Send curriculum vitae with names of three references to: **Gary Aston-Jones, Ph.D., Director, Division of Behavioral Neurobiology, Department of Psychiatry, M.S. 403, Hahnemann University, Broad and Vine, Philadelphia, PA 19102.**

POSTDOCTORAL POSITIONS available immediately for recent Ph.D. to study regulation of the cell cycle by Ras protein (*JBC*, 269:5986-5975; 28034-28043). Experience in protein biochemistry and recombinant DNA techniques preferred. Send curriculum vitae with three names for recommendation letters to: **Dr. Bin-Tao Pan, Room 310, Combs Building, Markey Cancer Center, University of Kentucky, 800 Rose Street, Lexington, KY 40536.**



**FRED
HUTCHINSON
CANCER
RESEARCH
CENTER**

PRESIDENT AND DIRECTOR

The Fred Hutchinson Cancer Research Center invites applications and nominations for the position of President and Director. The mission of the Center is to investigate the causes of cancer, explore methods to cure and prevent cancer, and to disseminate the results of its research.

The President is the Chief Executive Officer of the Center and reports directly to the Board of Trustees. The Center has a staff of over 2,000 and an annual budget of \$150 million. The President is responsible for the overall direction and guidance of the Center's four scientific divisions which are Basic Sciences, Clinical Research, Molecular Medicine, and Public Health Sciences, and its administrative support staff. The President oversees recruitment and retention of the scientific staff and allocates both space and resources. The President provides vision for the Center so it will remain at the forefront of scientific research. The President plays an important role in fund raising, public relations and professional organizations in support of cancer research.

Qualifications for the position include either or both an M.D. or a Ph.D. plus evidence of successful peer-reviewed research. The applicant must have strong experience in leading a scientific faculty and managing a complex organization.

Compensation will be set by the Executive Committee of the Board of Trustees. It will be commensurate with the applicant's training, experience and scientific accomplishments.

Please send either letters of application with curriculum vitae or nominations to **David C. Lycette, Search Committee Chairman, 1124 Columbia Street, MS: LTC, Seattle, WA 98104**. Submissions must be received by March 1, 1996.

The Fred Hutchinson Cancer Research Center is an Equal Opportunity Employer.

Chemistry

Biorganic Chemistry Research Associate

NeXstar Pharmaceuticals is a growing Boulder, Colorado headquartered biotechnology company dedicated to the design, development and manufacture of novel therapeutic agents for the treatment of major diseases. Currently we are seeking an energetic and focused scientist to join our team.

The successful candidate will be responsible for the synthesis of oligonucleotide pharmaceutical lead compounds by automated synthesis as well as performing and optimizing post-synthetic derivatization of the synthetic oligonucleotides.

The position requires a BS degree +6 years of relevant experience or an MS +4 years experience in a biopharmaceutical company. Experience with DNA/RNA automated oligonucleotide synthesis and purification are critical, and experience with bioanalytical techniques such as RP/HPLC, AX/HPLC, and PAGE is a plus. An ability to work independently while contributing to a multi-disciplinary team is also essential.

Competitive salary and benefits package complement this offer. Interested candidates may submit their resume and cover letter to:

NeXstar Pharmaceuticals, Inc.
Attn: Kathy Halderman
2860 Wilderness Place
Boulder, CO 80301
Position 165

NEXSTAR
Pharmaceuticals, Inc.

NeXstar is an Equal
Opportunity Employer

**EBI[®] Electro
Biology**

Research Scientist

EBI, a leader in the field of Electromagnetic and Direct Current Bone Growth Stimulators, is seeking a highly motivated research scientist to join a team involved in developing new clinical applications for electromagnetic fields in orthopedics. The applicant should have a Ph.D. in biomedical engineering, cell biology or physiology, preferably with experience in bone related research. An applicant with an M.S. degree and several years experience in a medical device related field will also be considered.

The successful applicant will help in the design and execution of cellular and animal experiments leading to new clinical applications of electromagnetic fields for cartilage and bone repair. They will play a major role in all aspects of product development including basic research, design and implementation of clinical trials, data analysis, and extensive interaction with orthopedic surgeons.

EBI offers competitive compensation including a substantial corporate benefits program. For confidential consideration, please send a recent resume to Human Resources Director.

Electro-Biology, Inc.

6 Upper Pond Road

Parsippany, NJ 07054

Equal Opportunity Employer M/F/H/V

Research Associate Cell/Molecular Biology

As a member of our Biotechnology research group, you will contribute to the discovery of proteins and genes of therapeutic value.

You should have proven experience in cell/tissue culture and molecular biology. Particular expertise in isolation and immortalization of primary cells; immunohistochemistry or *in situ* hybridization; or dissection of rodent embryos is desirable. An MS or a BS with at least 2 years of relevant experience is required.

Bayer offers a challenging scientific environment, excellent opportunities for individual growth, and attractive compensation and benefits packages. Resumes should be sent to **Bayer Corporation, Pharmaceutical Division, Dept. AAPPY, 400 Morgan Lane, West Haven, CT 06516**. No phone calls please. Bayer is an equal opportunity employer.

Bayer

Pharmaceutical
Division

The University College of the Cariboo Invites Applications for the Following Full-Time Faculty Position

WILDLIFE BIOLOGIST Department of Forestry and Natural Resource Science

Duties: Applicants should have a strong background in wildlife ecology and management and be qualified to instruct upper level wildlife and related natural resource management courses. The successful applicant will instruct in an innovative, unique Bachelor's degree program which is designed to graduate students with a broad understanding of the ecology, management, and land use planning issues for a wide range of natural resource sectors.

Qualifications: Ph.D., teaching experience, and the ability to conduct a modest research program are required.

Starting Salary Range: \$38,490 - \$53,722

Start Date: August 1, 1996

Closing Date for Application:

February 15, 1996

Please quote Competition #95-098 on correspondence. Please provide your curriculum vitae, the names of three referees, samples of your scholarly work, student evaluations, and graduate transcripts. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. The University College of the Cariboo is committed to the principle of employment equity.



Ms. Irene Bazell
Human Resources Officer
Human Resources Division
UCC, P.O. Box 3010
Kamloops, B.C.
V2C 5N3

We wish to thank all applicants, however, only those under consideration will be contacted.

NEW NIH/NCI TENURE-TRACK POSITION FOR MATHEMATICAL STATISTICIAN

A new tenure-track position has been created within the intramural program of the National Institutes of Health, National Cancer Institute to provide an opportunity for an outstanding Mathematical Statistician completing postdoctoral training to establish himself or herself as an independent investigator. The position is located in the Clinical and Diagnostic Trials Section of the Biometry Branch in the Division of Cancer Prevention and Control, National Cancer Institute and is available at a level equivalent to Assistant Professor.

The new position is to conduct research and provide expertise in general statistical methods applied to cancer prevention, particularly in the area cancer prevention biomarkers and laboratory statistical quality control. The Clinical and Diagnostic Trials Section engages in independent and cooperative research on statistical methodology for the design of controlled trials of cancer prevention, treatment and diagnosis and other studies designed for their evaluation.

Resources include office space, computer hardware and software and secretarial assistance. Candidates must have a Ph.D. degree or equivalent with training and experience in mathematical statistics and biostatistics. Candidates should also have knowledge and experience in at least one of the following areas: longitudinal data, data subject to measurement error and statistical quality control.

TO APPLY: Please send a cover letter, curriculum vitae, bibliography and a statement of research interests and career goals to: **LAURENCE FREEDMAN, BIOMETRY BRANCH, DCPC, NCI, 6130 EXECUTIVE BLVD, MSC 7354, EPN ROOM 344, BETHESDA, MD 20892-7354.** In addition, arrange to have letters of reference sent to the same address from three scientists who can provide an evaluation of your qualifications. Applications must be received within six weeks of the publication of this advertisement.

Selection for this position will be based solely on merit, with no discrimination for non-merit reasons such as race, color, gender, national origin, age, religion, sexual orientation, or physical or mental disability.

The NIH/NCI is an Equal Opportunity Employer

1996 WEIZMANN WOMEN & SCIENCE AWARD

CALL FOR NOMINATIONS

The American Committee for the Weizmann Institute of Science invites nominations for its 1996 Women & Science Award. Established in 1994, the Award was created to honor an outstanding woman scientist who has made significant contributions to the scientific community. The objective of the Award, which includes a \$25,000 research grant to the recipient, is to promote women in science, and to provide a strong role model to motivate and encourage the next generation of young women scientists.

Nominees may represent any discipline in the exact sciences, and may be conducting research in either the public or private sector.

Nominations must include background documentation, i.e. curriculum vitae, as well as a supporting statement by the nominating party. Additional letters of support may also be provided. Nominations are requested by February 15, 1996.

Recipient will be required to attend the Award Presentation to take place in New York on Wednesday, June 5, 1996.

Nominations may be faxed or mailed to the attention of Nancy R. Albrecht, Director of New York Programs, American Committee for the Weizmann Institute of Science, 51 Madison Avenue, New York, NY 10010/212.779.2500/Fax 212.779.3209.

Scientists

Somatogen, a biopharmaceutical company located in Boulder, Colorado, currently engaged in the clinical and preclinical development of a recombinant human hemoglobin, has the following positions available in our Pharmacology/Toxicology department.

SCIENTIST, DRUG METABOLISM - Responsibilities will include assay development, implementation and documentation to support pharmacokinetic studies. In depth experience in protein/protein and protein/receptor interactions as well as protein clearance mechanisms is required. Expertise in the application of RIAs, ELISA, and other analytical techniques for the analysis of proteins/peptides in biological matrices is desirable. The successful candidate will have a Ph.D., or equivalent, knowledge of analytical techniques for the analysis of proteins and peptides in biological matrices, and 4+ years experience, including postdoctoral studies.

PHARMACOLOGIST - Responsibilities will include the design and implementation of preclinical pharmacology studies evaluating the efficiency of oxygen carrying therapeutics in a variety of indications. Good communication skills, organizational skills, and project management experience is required. The successful candidate will have a Ph.D. or equivalent and will have 4+ years project management experience in drug discovery with experience in the fields of ischemia, organ perfusion and organ preservation.

Somatogen offers competitive salaries, generous benefits, and relocation assistance. Interested candidates may submit their c.v. to:

SOMATOGEN
Human Resources
2545 Central Avenue
Boulder, CO 80301

Females and minorities are encouraged to apply.

SOMATOGEN

1996 TECHNIQUES TRAINING OPPORTUNITIES

Marine Biological Laboratory
Woods Hole, Massachusetts

ANALYTICAL AND QUANTITATIVE LIGHT MICROSCOPY

May 9 - May 17, 1996
Directors: Greenfield Sluder and David Wolf, Worcester Foundation for Biomedical Research.
Applications Due: March 12

MICROINJECTION TECHNIQUES IN CELL BIOLOGY

May 21 - May 28, 1996
Director: Robert B. Silver, Marine Biological Laboratory.
Applications Due: March 12

CELL AND MOLECULAR IMAGING AND ANALYSIS USING CRYOTECHNIQUES

May 28 - June 5, 1996
Director: M.V. Parthasarathy, Cornell University.
Applications Due: March 12

RAPID ELECTROCHEMICAL MEASUREMENTS IN BIOLOGICAL SYSTEMS

August 18 - August 21, 1996 (Session I);
August 23 - August 26, 1996 (Session II)
Director: Greg Gerhardt, University of Colorado Health Sciences Center, Denver.
Applications Due: May 3

OPTICAL MICROSCOPY AND IMAGING IN THE BIOMEDICAL SCIENCES

October 23 - October 30, 1996
Director: Colin S. Izzard, State University of New York, Albany.
Applications Due: August 13

For additional information, application forms, and course fees, contact: Carol Hamel, Admissions Coordinator, Marine Biological Laboratory, 7 MBL Street, Woods Hole, MA 02543-1015; Tel: 508-289-7401. Internet: admissions@mbl.edu; WWW: http://www.mbl.edu



**MARINE
BIOLOGICAL
LABORATORY**

Tenure-Track And Postdoctoral Opportunities.

The following research training opportunities are currently available at the National Institutes of Health.

Tenure-Track Position Assistant Professor Equivalent

Pulmonary and Critical Care Medicine

A position is available for a junior research scientist with an MD and board certification or eligibility in Pulmonary Disease and Critical Care Medicine to initiate an independent tenure-track program of laboratory and clinical research. It is expected that the applicant will be the medically responsible individual for clinical protocols in pulmonary disease and share in the clinical responsibilities of the branch. The applicant should have experience in basic and/or clinical research and an established record of publication in peer-reviewed journals. Applications must be received by March 31, 1996. Please send a *curriculum vitae*, bibliography, a brief statement of research interests, and three letters of recommendation to the Office of the Scientific Director (OE-112), NHLBI, Building 10, Room 7N214, 10 CENTER DR MSC 1668, BETHESDA MD 20892-1668.

Postdoctoral Positions

Biochemical Activity of HIV Nef

Jon W. Marsh, PhD

HIV Nef has been shown to alter T cell activation pathways. The biochemical nature of Nef-mediated effects and the regulatory protein's role in HIV pathogenesis are being examined. Applications must have less than five years of postdoctoral experience and those with experience in gene transfer and signal transduction will be given preference. Laboratory of Molecular Biology (OE-112), NIMH, Building 36, Room 1B08, 36 CONVENT DR MSC 4034, BETHESDA MD 20892-4034.

Molecular Biology

Anil B. Mukherjee, MD, PhD

The role of cytosolic phospholipase A2, uteroglobin/Clara cell 10kDa protein and osteopontin genes in heritable disorders of inflammation are under investigation. Studies in progress utilize all current methods in molecular biology including targeted gene disruption in ES cells by homologous recombination. Applicants must have a strong background in molecular biology/protein biochemistry and less than five years of postdoctoral experience. Heritable Disorders Branch (OE-112), NICHD, Building 10, Room 9S241, 10 CENTER DR MSC 1830, BETHESDA MD 20892-1830.

Molecular Biology of Retrovirus Replication

Judith G. Levin, PhD

Molecular studies on replication of HIV and other mammalian retroviruses are underway using genetic, biochemical, and molecular biological techniques. Current work is focused on elucidation of individual steps in reverse transcription and on structure-function analysis of reverse transcriptase. The role of nucleocapsid protein is also being investigated. Applicants should have a strong background in molecular biology and protein biochemistry. Laboratory of Molecular Genetics (OE-112), NICHD, Building 6B, Room 216, 6 CENTER DR MSC 2780, BETHESDA MD 20892-2780.

Molecular Neurobiology

Andres Buonanno, PhD

The molecular mechanisms that couple synaptic activity and nerve-derived factors to the specific changes in gene expression that underlie neural and skeletal muscle plasticity are being investigated. Experimental approaches include: transgenic mice, gene knock-outs, protein/DNA interactions,

promoter analysis, electrical stimulation of cells, and *in situ* hybridization. A background in molecular biology and less than five years of postdoctoral experience are required. Laboratory of Developmental Neurobiology (OE-112), NICHD, Building 49, Room 5A38, 49 CONVENT DRIVE MSC 4480, BETHESDA MD 20892-4480.

Structure/Function of Transporters

R. James Turner, PhD

The function, regulation and structure of ion transport systems involved in exocrine fluid secretion is being investigated with particular emphasis on Na/K/Cl cotransport. Projects will be directed at structure-function analysis. Experience in at least two of the following is highly desirable: molecular biology, protein chemistry, ion transport, or protein crystallization. Candidate must have less than five years of postdoctoral experience. Clinical Investigations and Patient Care Branch (OE-112), NIDR, Building 10, Room 1A06, 10 CENTER DR MSC 1190, BETHESDA MD 20892-1190.

Signal Transduction

Burton J. Litman, PhD

The mechanism whereby ethanol, general anesthetics, and membrane phospholipid composition effects membrane structure and function is being studied by use of spectroscopic techniques, which probe membrane structure and protein conformation, and measurements of enzyme function. These studies emphasize G protein-coupled receptor systems and employ the visual transduction system as a model for such pathways. Candidates must have training in membrane biochemistry/biophysics and less than five years of postdoctoral training. Laboratory of Membrane Biochemistry and Biophysics (OE-112), NIAAA, 12501 Washington Avenue, Rockville, MD 20852.

Additional Opportunities

The NIHEDNET Bulletin Board **POSTDOC** (fellowship positions) and **TENURE** (tenure track positions) conferences are accessed via a modem (301-402-2221 or 800-358-2221 with parameters set at 7,Even,1) or the Internet using Telnet (wylbur.cu.nih.gov) or the World Wide Web (URL: <http://wylbur.cu.nih.gov>). When connected to NIH, key in ,vt100 for terminal emulation, F5E for initials, and AJLI for account number. To view tenure track positions, **quit** the **POSTDOC** conference and **join** the **TENURE** conference.

An electronic version of the *Postdoctoral Research Fellowship Opportunities* catalog is accessed via the Internet using either the Gopher Information System (gopher.nih.gov) or the World Wide Web (URL: <http://www.nih.gov>). When connected with Gopher, select **Grants and Research Information** and then **NIH Office of Education**. When connected with WWW, select **Grants and Contracts** and then **NIH Office of Education**. If you have further questions, please contact the NIH Office of Education, Building 10, Room 1C129, 10 CENTER DR MSC 1158, BETHESDA MD 20892-1158, Phone 301-496-2427, Fax 301-402-0483.

To Apply

If you hold a graduate doctoral degree (e.g., PhD, MD/PhD) or a professional degree (MD, DO, DDS, DMD or DVM) accompanied by previous laboratory research experience, and would like to be considered for one of these positions, please send a cover letter, *curriculum vitae*, bibliography, and statement of research interests to the address listed with each position. In addition, please arrange to have letters of recommendation sent from three scientists who can provide an evaluation of your qualifications.



National Institutes Of Health

Office Of Education

The NIH is an Equal Opportunity Employer



University of Alberta Edmonton

Department of Oral Health Sciences Four Tenure Track Positions

The University of Alberta, Department of Oral Health Sciences, Faculty of Medicine and Oral Health Sciences, invites applications for four tenure track positions in the areas of (1) oral microbiology, (2) anatomy (head and neck focused), (3) oral epidemiology, and (4) biomaterials. Preferences will be given to candidates who have demonstrated potential for or who have achieved a successful research career. Candidates will be expected to apply for research salary support funding from an external agency as part of the selections process. Appointment will be made in the appropriate department within the Faculty of Medicine and Oral Health Sciences. The person must hold an PhD or equivalent degree and a DDS, DMD, or MD degree(s). Candidates should forward their *curriculum vitae*, outlines of their research interests, and names of three references to:

Dr. G. Wayne Raborn, Associate Dean
3036 Dentistry Pharmacy Centre
University of Alberta, Edmonton, AB T6G 2N8

Closing date is March 1, 1996. Starting date is flexible but is targeted as July 1, 1996.

The University of Alberta is committed to the principle of equity in employment. As an employer we welcome diversity in the workplace and encourage applications from all qualified women and men, including Aboriginal peoples, persons with disabilities, and members of visible minorities.

GLOBAL CAREER OPPORTUNITIES

OAKLAND UNIVERSITY BIOLOGICAL SCIENCES

Applications are invited for three **TENURE-TRACK** positions at the Assistant Professor level (one of which may be considered at Associate professor level) starting **August 15, 1996**.

1. **BIOCHEMISTRY**
2. **EUKARYOTIC GENETICS**
3. **CELL/MOLECULAR BIOLOGY**

Candidates must have a record of excellence in research using modern techniques of molecular biology with biomedical applications, and demonstrated potential for excellence in teaching. Start-up funds and laboratory space are available for establishing a vigorous research program. A Ph.D. and postdoctoral experience are required.

Oakland University is a state-supported institution situated on a 1,400-acre campus 25 miles north of Detroit. The Department of Biological Sciences is a well-equipped, research-oriented department in the College of Arts and Sciences. Successful applicants will be expected to develop and maintain an independently funded research program. Teaching responsibilities include a) an introductory biology course and a course in the candidate's specialty in alternate semesters, and b) participation in the departmental Master's degree program and an interdisciplinary doctoral program in Biomedical Sciences.

Applications will be reviewed for further consideration, including the interview process, by a search committee. Applicants should submit curriculum vitae, a description of research plans, key reprints, and names of three references before **February 22, 1996**, to:

Dr. V. K. Moudgil, Chair
Department of Biological Sciences
Oakland University
Rochester, MI 48309-4401

Oakland University is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and minorities.

POSTDOCTORAL TRAINING IN CELL AND MOLECULAR BIOLOGY OF REPRODUCTION

The Center for Biomedical Research of The Population Council offers postdoctoral training in various aspects of reproductive physiology, with emphasis on the male. Fellowships are provided by an NIH-supported Training Program. Research interests of our training faculty include:

Name	Title/Role	Areas of Research
James F. Catterall	Director	Cell-specific hormonal regulation of gene expression; apoptosis in spermatogenesis; immunosuppression
Indrani Bagchi	Staff Scientist	Molecular mechanism of blastocyst implantation
Milan Bagchi	Staff Scientist	Nuclear receptor structure and function; transcriptional regulation
Ching-Ling C. Chen	Scientist	Structure and regulation of testis-specific genes; the pituitary-testicular axis
C. Yan Cheng	Senior Scientist	Biochemistry and physiology of testicular proteins; cell-cell interaction
Glen L. Gunsalus	Senior Scientist	Extracellular steroid binding proteins; mechanism of ligand binding and cellular recognition
Matthew P. Hardy	Staff Scientist	Developmental biology of Leydig cells; stress and Leydig cell function
Patricia L. Morris	Senior Scientist	Regulation of Leydig cell function; Sertoli cell-germ cell interaction; JAK-STAT signal transduction
David M. Phillips	Senior Scientist	Mechanisms of sexual and transplacental transmission of HIV; structure and function of gametes
Ann Robbins	Scientist	Reproductive neuroendocrinology

The Center for Biomedical Research is located on the campus of Rockefeller University and provides excellent facilities for research and an outstanding scientific environment for postdoctoral training. Applicants must be U.S. citizens or Permanent Residents. Applications from women and minorities are encouraged. Please send curriculum vitae and names and addresses of three references to The Fellowship Secretary-NIH Training Program, The Population Council, Center for Biomedical Research, 1230 York Avenue, New York, NY 10021, USA. Please indicate in your cover letter the name of the faculty member(s) of interest.

GLOBAL CAREER OPPORTUNITIES

PROFESSOR OF MOLECULAR BIOPHYSICS - PARTICULARLY NMR SPECTROSCOPY

Göteborg University (www.gu.se/Eng.gu) invites applications for a tenured position as professor in molecular biophysics, particularly NMR spectroscopy, in the Department of Biochemistry and Biophysics (www.lundberg.gu.se/bcbp/bcbp-top.html). The department is located in the Lundberg Institute, close to other activities in molecular biology at the Science and Medical faculties. The position will have an important function at the Swedish NMR Centre (www.nmr.se; www.lundberg.gu.se/bcbp/nmr/center-e.html), a national facility which will be moved to the university. Excellent high-resolution NMR equipment will be available at this centre, which will be housed in a specially designed building that is under construction. It is planned that the laboratory will have one 750-800 MHz, one or two 600 MHz and one or two 500 MHz spectrometers. A third of the time at the highest-field spectrometer and half of the others will be available to the university. The successful applicant should show a commitment to excellence in research as well as in supervision of graduate students and teaching.

Closing time for application will be January 15, 1996.

For information, please contact the dean, professor Daniel Jäger (daniel@amc.chalmers.se, tel. (+46)-31-772 2771), or the department chairman, professor Jan Rydstrom (Jan.Rydstrom@bcbp.gu.se, tel. (+46)-31-773 3931). Please quote reference number E 311 3916/95.



University of Canterbury
New Zealand

Lecturer in Virology or Cell Biology

Applications are invited for the tenured position of Lecturer in the Department of Plant and Microbial Sciences from suitably qualified candidates who have a discipline-based approach to the study of virology or cell biology. The minimum qualification on appointment is the Ph.D. degree or equivalent. Applicants' research interests should complement one or more of the diverse disciplines currently represented by existing staff, such as through the study of interactions between organisms, cells or organelles or through the evolutionary implications of their research. Areas of special interest include viruses or virus/host interactions; organelle dynamics; developmental or signal transduction pathways.

The appointee will conduct lectures and laboratory classes at all undergraduate levels, participate in a graduate seminar programme and initiate a vigorous experimental research programme suitable for the training of B.Sc. Honours, M.Sc. and Ph.D. students. A commitment to contribute to the administrative and community liaison functions of the Department will be expected.

Academic enquiries may be directed to the Head of Department, Dr A L J Cole, Fax 64-3-364-2083 or Email: a.cole@botn.canterbury.ac.nz. Information about the University may be accessed on the World Wide Web: <<http://www.regy.canterbury.ac.nz/home.html>>

The salary for Lecturers is on a scale from NZ\$42,000 to NZ\$52,000 per annum.

Applications close on 29 February 1996.

Further particulars and Conditions of Appointment may be obtained from the undersigned. Applications, quoting Position No. PL81, must be addressed to:

The Registrar, Attention Staffing
University of Canterbury,
Private Bag 4800, Christchurch, New Zealand.

The University has a policy of equality of opportunity

Senior Scientist/ Scientist (2)

Dairy Science - Molecular Biology

The senior position is to provide scientific leadership of an established group of young scientists with a research focus on the regulation of gene expression in the mammary gland.

The programme includes studies aimed at identifying novel transcription factors and the role of certain known factors operating in the mammary gland.

The successful applicant will have a strong molecular biology background and is expected to develop his or her own research within the programme area. Genotyping/gene mapping experience would be an advantage. Allied research programmes exist in lactational physiology and transgenesis covering mammary development, milk composition and inhibition/deletion of mammary genes.

A separate appointment at post-doctoral level is also available in the gene expression group.

The Dairy Science Group has a staff and student complement of 37 and carries out long-term strategic research in dairying. The group has close links with industry research organisations and good access to small and large animal resources.

To discuss these positions please contact **Dr Steve Davis**, email: daviss@agresearch.cri.nz, or at the address below. **AgResearch, Ruakura, Private Bag 3123, Hamilton, New Zealand**, phone 64-7-838 5410, fax 64-7-838 5658. Applications close 27 January 1996.

AgResearch is an equal employment opportunities employer

AgResearch
New Zealand Pastoral Agricultural Research Institute Limited

君が世界を動かすかもしれない。
世界研究 橋体制の日本の提議、Research Center Kyoto (RCK) は、現在2000年に向けて研究者の増員計画を執行中。アレルギーと免疫分野の研究体制の充実を図っている。RCKで生まれた独創的な研究成果を世界へ発信するのは近い日のことではない。



==== 急 募 ====
Molecular Modeling **新卒研究スタッフ**
コンピューターによる薬物デザイン 下記関連分野の専攻で'96以降卒業予定の方
Ph.D又は同等の知識経験のある方 修士以上歓迎 日・英語必須 1次合格者に
30~35才位 日・英語必須 セミナー随時案内(東京・大阪で開催)
【応募】 履歴書・研究概要・論文リストを日本語と英語で作成し【同封せ先】宛送付下さい。
【選考】 1次/書類選考 2次/面接 他

研究員募集中
【分野】アレルギー、自己免疫疾患、薬物動態、及び有機合成化学分野【勤務地】関西学研都市近鉄奈良駅より車10分 入社日応談、日本語・英語必須。詳細は下記までお問い合わせ下さい。
【同封せ先】大阪府淀川区宮原3-5-36 新大阪第2森ビルバイエル薬品(株)リクルーティング⑤ 係 〒532 TEL06(398)1145 担当/野本 三枝(のの)様を
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研究員募集

- 〈研究分野〉 細胞内情報伝達分子の癌の分子病態における役割に関する基盤研究
- 〈資格〉 生化学や分子生物学を専攻し、細胞内シグナル伝達系を専門とするかこれに関心があり博士課程修了の方(動物細胞の培養の経験があれば望ましい)
- 〈採用枠〉 研究員 (1名)
ポストドクトラルフェロー (2名)
- 〈勤務地〉 横浜市金沢区福浦1-13-5
基盤技術研究所
- 〈応募〉 以下の書類を1月31日(水)までに郵送ください。書類選考の上、詳細をご連絡いたします。
① 履歴書(勤務開始可能日明記)
② 現在の研究概要
③ 業績リスト
④ 論文別刷
※応募書類送付の封筒に研究員、ポストドクトラルフェローのいずれを希望するか明記してください。
※応募書類は返却いたしません。

応募書類送付・問い合わせ先：
東京都中央区新川2-10-1 (〒104)
キリンビール株式会社人事部 丹野 優
(TEL: 03-5540-3443, FAX: 03-5540-3526)

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MICHIGAN STATE UNIVERSITY
Department of Biochemistry
National Food Safety and Toxicology Center

The Department of Biochemistry in conjunction with the National Food Safety and Toxicology Center (NFSTC) at Michigan State University seeks applicants for a tenure-track position at the **ASSISTANT PROFESSOR** level in biochemical toxicology. Applicants should have postdoctoral experience demonstrating outstanding productivity and should have the potential to develop a strong, externally-funded research program. The research program of the candidate should fit into the Department of Biochemistry program on the Biochemistry of the Cell Nucleus and the programs of NFSTC which deal with a broad range of toxicants for which exposure can occur through food or water consumption. We are searching broadly for candidates whose research involves aspects of regulation of gene expression, signaling to the nucleus, DNA replication, nuclear import/export, or nuclear targeting related to biochemical toxicology.

The Department of Biochemistry has a large faculty conducting research in most areas of contemporary biochemistry and molecular biology, providing both a stimulating scientific atmosphere and opportunities for research collaboration. The Department occupies a modern research building with well-equipped research and teaching laboratories, and has vigorous undergraduate, graduate, and postdoctoral training programs. The NFSTC will open its new laboratory building nearby in 1997. It will provide an excellent environment for toxicology research with many possibilities for collaboration with other scientists in toxicology, pathology, epidemiology and the food and agricultural sciences.

This is primarily a research position with some additional teaching responsibilities. It is expected that through graduate teaching activities, the successful candidate will contribute to the campus-wide program in Environmental Toxicology.

Applicants should submit a curriculum vita, a description of research accomplishments and future interests, and have three letters of recommendation sent on their behalf to **Dr. William L. Smith, Chairperson, Department of Biochemistry, Box ST, Michigan State University, East Lansing, MI 48824**. To ensure consideration, applications should be received by March 15, 1996 although qualified late applicants may also be considered. This advertisement is intended as an extension of an earlier ad which appeared in the October 23, 1995 issue of *Science*. *Michigan State University is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR IN IMMUNOLOGY: Faculty positions in Immunology are available at the University of Rochester School of Medicine. The Clinical Immunology/Rheumatology Unit invites applications for tenure-track positions at the Assistant Professor level from qualified individuals with a basic research interest in the areas of tolerance/autoimmunity, germinal center biology, somatic mutation, repertoire development, apoptosis or Immunology of HIV. Candidates should possess a Ph.D., M.D. or M.D./Ph.D. degree or equivalent degree as well as a productive postdoctoral experience in related areas. The selected candidates will be expected to develop an independent, externally funded research program of the highest quality. Secondary appointments in Basic Science Departments are available. Qualified candidates should submit a curriculum vitae, names of 3 references, and a brief statement of research interests to: **Iñaki Sanz, MD, Unit Chief, Clinical Immunology/Rheum. Unit, Univ. of Rochester Medical Center, 601 Elmwood Ave., Box 695, Rochester, NY, 14642. Phone: 716-275-2891/Fax: 716-273-1070.**

ASSISTANT PROFESSOR IN GENE THERAPY: Faculty positions in Gene Therapy are available at the University of Rochester School of Medicine. The Clinical Immunology/Rheumatology Unit invites applications for a tenure-track position at the Assistant Professor-level from qualified individuals with a basic research interest in the field of gene therapy, particularly as it applies to immune regulation, inflammation and/or the biology of the synovial membrane and cartilage. Candidates should possess a Ph.D., M.D. or M.D./Ph.D. degree or equivalent degree as well as productive postdoctoral training in gene therapy or related areas. The selected candidate will be able to interact with a growing number of researchers working in the field of gene therapy. Secondary appointments in Basic Science Departments are available. Qualified candidates should submit a curriculum vitae, names of 3 references, and a brief statement of research interests to: **Iñaki Sanz, MD, Clinical Immunology/Rheumatology Unit, Univ. of Rochester Medical Center, 601 Elmwood Ave., Box 695, Rochester, NY, 14642. Phone: 716-275-2891/Fax: 716-273-1070.**

POSTDOCTORAL POSITIONS IN IMMUNOLOGY available immediately at the University of Rochester School of Medicine. Opportunities available to qualified candidates with a Ph.D., M.D., or equivalent degree and a research interest in the areas of tolerance/autoimmunity, molecular genetics of autoantibodies, somatic mutation of immunoglobulin genes, germinal center biology and VDJ recombination. Interested individuals should submit a CV, names of three references and a brief statement of research interest to: **Iñaki Sanz, MD, Clinical Immunology/Rheumatology Unit, Univ. of Rochester Medical Center, 601 Elmwood Ave., Box 695, Rochester, NY, 14642. Phone: 716-275-2891/Fax: 716-273-1070.**

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We offer a competitive compensation and benefits package as well as an environment where your contributions can make a significant difference. Please send, FAX, or E-mail your resume or CV referencing job# GR196F to: Human Resources, Cell Therapeutics, Inc., 201 Elliott Avenue West, Suite 400, Seattle, WA 98119. FAX: (206) 284-6206. E-mail: jobs@ctiseattle.com

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Chair

Department of Epidemiology

The University of Michigan School of Public Health invites applications for the position of Chair of the Department of Epidemiology. The successful applicant will hold a tenured professorial position in the Department of Epidemiology in the School of Public Health. The appointment as Department Chair is for five years, with possible reappointment for an additional three years. The Chair fosters and participates in the research and training activities of the Department. The Department has 18 full-time faculty members studying both chronic and infectious diseases by integrating biological, social, and analytic approaches. There are many opportunities for inter-departmental collaborations within the School and throughout the University.

The successful candidate will have: (1) an M.D., Ph.D., or equivalent degree; (2) professional status and demonstrated scholarship appropriate for a tenured Professor of Epidemiology in a major research-oriented university; (3) demonstrated administrative and managerial skills; (4) a commitment to excellence in teaching; and (5) understanding of the role of the Department of Epidemiology in the School of Public Health within a large university. Applicants should send their curriculum vitae, a statement of research interests, and names and addresses of three references to: Roderick J. Little, Ph.D., Chair, Epidemiology Search Committee, c/o Chris Witte, 109 S. Observatory Street, Ann Arbor, MI 48109-2029. Comments from applicants pertinent to the search criteria noted above are welcomed.

Review of applicants will commence on February 1, and will continue until the position is filled. The University of Michigan is an equal opportunity employer with an affirmative action policy of seeking qualified candidates regardless of age, gender, race, color or national origin.

ADMINISTRATOR

The Society for Leukocyte Biology, a national non-profit organization located at the Federation of American Societies for Experimental Biology (FASEB) campus in Bethesda, Maryland seeks a part-time Administrator (20 hours/week) to work with the Council, which is the governing body of the Society, to coordinate the marketing, programming and organization of the scientific meetings of the Society, oversee the activities of the committees, provide support to the membership and be responsible for editing and publishing the Society newsletter. Responsibilities will also include performing all the duties of the secretariat to include corresponding with members and maintenance of Society archives as well as interacting with FASEB which performs business affairs activities of the Society.

Preferred candidate will have a degree in Business, Science or related field, experience in non-profit management, familiarity in an area related to biomedical science as well as excellent communication skills.

Please forward your résumé with a covering letter detailing specific examples of relevant past experience to:

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POSTDOCTORAL POSITION is immediately available to study the regulation of eukaryotic transcription by hypoxia. The work will focus on the human erythropoietin gene and its complex regulation by oxygen and orphan receptors. The applicant must have a Ph.D. and experience in molecular biology. Send a description of your research interests and achievements, a curriculum vitae, and the names and addresses of three references to: **Kerry L. Blanchard, Ph.D., M.D., Louisiana State University Medical Center, Center for Excellence in Cancer Research, Treatment and Education, 1501 Kings Highway, Shreveport, LA 71130-3932. Email: kblanc@mailh.lsumc.edu. Louisiana State University Medical Center is an Equal Opportunity Educator and Employer.**

POSTDOCTORAL POSITIONS

Positions are available immediately for studies in three areas: 1) Fibrin-specific interactions with vascular cells. Experience in protein biochemistry and cell biology required. 2) Effects of ultrasound on fibrinolysis. Experience in protein chemistry required and background in physics desirable. 3) Studies of transcriptional activation of endothelial cell procoagulant molecules. Experience in molecular biology required. Send curriculum vitae, names and addresses of three references, and a letter describing skills and interests to: **Charles W. Francis, M.D., Hematology Unit, P.O. Box 610, University of Rochester Medical Center, 601 Elmwood Avenue, Rochester, NY 14642.**

POSTDOCTORAL POSITION—mucosal immunology. Available February 1996 for an NIH-funded study of orally induced non-responsiveness to protein antigens. Recent Ph.D. with experience in cellular and molecular immunology preferred. Send curriculum vitae with names of three references to: **Cathryn Nagler-Anderson, Ph.D., Mucosal Immunology Lab., Massachusetts General Hospital East, 3308, Pediatric G.I., Building 149, 13th Street, Charlestown, MA 02129. Email: nagler_ander@helix.mgh.harvard.edu.**

POSTDOCTORAL POSITION in gene expression to study transcription factor regulation of *Drosophila* muscle genes in tissue culture and transgenic flies. Experience in molecular biology is required and experience in *Drosophila* biology is desirable. Position is available immediately. Applicants must have a Ph.D. Send curriculum vitae and names of three references to: **Dr. Robert V. Storti, Department of Biochemistry (MC/536), University of Illinois College of Medicine, 1853 West Polk Street, Chicago, IL 60612. University of Illinois College of Medicine is an Affirmative Action/Equal Opportunity Employer.**

MEETING

1996 Annual Meeting of the Society for Literature and Science

Call for Papers. Place: Sheraton Colony Square Hotel, Atlanta, Georgia. Dates: Thursday, October 10 through Sunday, October 13, 1996. Site Coordinator: **Sidney Perkowitz, Physics Department, Emory University.**

Send four copies of abstracts of 12-minute papers or proposals for sessions, roundtables, or panels (along with name, address, email, and numbers for telephone and FAX) to: **Anne Balsamo, School of Literature, Communication, and Culture, Georgia Institute of Technology, Atlanta, GA 30332-0165. Email: anne.balsamo@lcc.gatech.edu. Deadline: March 1, 1996.**

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COURSES and TRAINING

GRADUATE TRAINING IN MOLECULAR ONCOLOGY AND IMMUNOLOGY

Stipends are available for students pursuing a Ph.D. in an integrated program in molecular oncology and immunology beginning September 1996. The principal interests of participating faculty are molecular mechanisms of tumorigenesis including oncogenes and tumor suppressors, repair of DNA damage, signal transduction and growth control, as well as molecular, cellular, and tumor immunology.

Students will be supported chiefly by an NIH programmatic training grant, requiring US citizenship, or resident status. Limited funding is also available outside of this source. Information and application forms are available from: **Dr. R. B. Carroll, Graduate Student Advisor, Department of Pathology, New York University Medical School, 550 First Avenue, New York, NY 10016. We strongly encourage applications from minority students.**

ANNOUNCEMENTS

BRAIN TUMOR RESEARCH FUNDING

The Brain Tumor Society will fund basic science research projects for up to a two-year period, at a maximum of \$50,000 per year. For 1996, GRANTS will be limited to research being conducted in the following states: Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont. Any project with the potential to advance basic scientific research in brain tumors will be considered for funding. Funds may be used for start-up projects or supplementary funding. Funds will not be granted for indirect costs. For information and application forms, please contact: **The Brain Tumor Society, 84 Seattle Street, Boston, MA 02134-1245. Telephone: 617-783-0340; FAX: 617-783-9712. Projects must be submitted no later than April 16, 1996.**

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. Special attention will be given to proposals that focus on the use of human tissues and/or the production of monoclonal antibodies through *in vitro* systems. Deadline for applications is 30 April 1996, with recipients announced on 15 July 1996. For further information and application instructions contact: **The ARDF, 801 Old York Road, Suite 204, Jenkintown, PA 19046-1685. FAX: 215-887-2088. No telephone calls please.**

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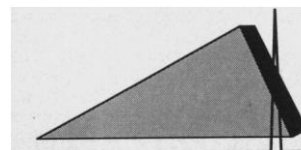
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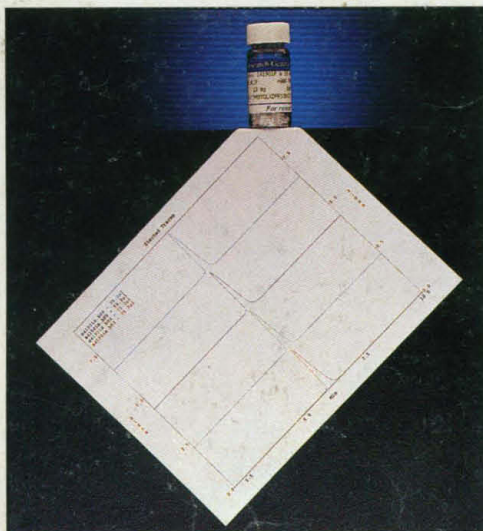
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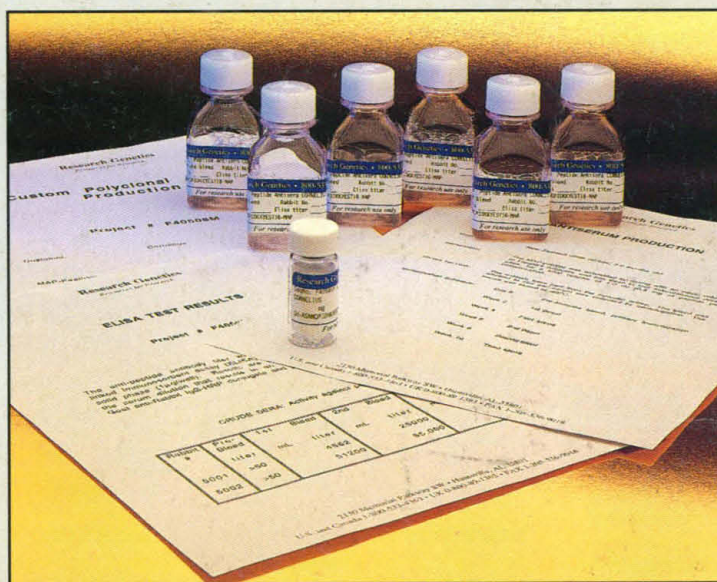
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