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For MEETINGS AND ANNOUNCEMENTS display advertisements, see page 1457.

## LINE CLASSIFIED ADVERTISEMENTS

### How to Submit a Line Classified Ad:

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

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

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

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

## POSITIONS OPEN

### FACULTY POSITIONS IN MOLECULAR BIOLOGY

The Department of Medical Biochemistry of The Ohio State University College of Medicine and Public Health invites applications for tenure-track positions as part of further departmental expansion in the area of molecular biology and molecular genetics. We have begun the process of changing the department name to Biochemistry and Molecular Biology. Appointments will be made at the level of **ASSISTANT** or **ASSOCIATE PROFESSOR**. We seek individuals with the ability to establish strong extramurally funded research programs and a commitment to excellence in teaching molecular biology at the graduate level. The selected candidates will have ample opportunity to interact with numerous active research laboratories in the department as well as other departments, research institutes and centers on The Ohio State University campus. A competitive start-up package will be available to the successful candidates. Review of applications will begin on July 15, 1997. Applicants should submit a curriculum vitae, selected reprints, a description of research interests and goals, and the names, addresses and telephone/FAX numbers of three references to: **Chair, Faculty Search Committee, Department of Medical Biochemistry, 333 Hamilton Hall, 1645 Neil Avenue, Columbus, OH 43210-1218.** The Ohio State University is an Affirmative Action/Equal Opportunity Employer.

**FACULTY POSITION**—The Department of Microbiology and Immunology of Temple University School of Medicine invites applications for tenure-track faculty positions. Rank appropriate to training and experience. Particularly interested in individuals studying molecular immunology or cellular immunology employing contemporary molecular biology approaches. Successful candidates must have significant research accomplishments, ability to establish and maintain a vigorous research program that will attract peer-review funding, and a commitment to excellence in educating graduate and medical students. Applicants at the Associate Professor and Professor level must demonstrate a considerable record of independent peer-reviewed funding and must have active competitive grants. Start-up funds and newly renovated space are available.

The department is supported by extensive peer-reviewed funding and has a very strong graduate program providing students with advanced training in molecular microbiology and immunology. Interactions are encouraged with other basic and clinical departments of the School.

Send a curriculum vitae, bibliography, summary of research achievements and research plans, and the names and addresses of four references to: **Chris D. Platsoucas, Ph.D., Professor and Chairperson, Department of Microbiology and Immunology, Temple University School of Medicine, 3400 North Broad Street, Philadelphia, PA 19140.** Temple University is committed to Affirmative Action and Equal Employment Opportunity and strongly encourages applications from women and minorities.

The University of New Mexico School of Medicine seeks outstanding applicants to fill six new tenure-track positions at the rank of **ASSISTANT PROFESSOR**. For more detailed information, please see the advertisement which appeared in the April 18 and May 2 issues of *Science*. Additional information is also available at: <http://medlab1.unm.edu/index.html/hughes>. The date for receipt of applications for best consideration has been extended to July 14, 1997. **Dr. Cheryl Willman, PI, Office of Research and Graduate Programs, University of New Mexico School of Medicine, BMSB, Box 520, Albuquerque, NM 87131-5196.** UNM is an Equal Opportunity/Affirmative Action Employer and Educator.

**IIASA**—The International Institute for Applied Systems Analysis is recruiting a **PROGRAM OFFICER**, two **RESEARCH SCHOLARS** and a **RESEARCH ASSISTANT** for its Environmentally Compatible Energy Strategies Project. For details see the IIASA webpage (Employment Opportunities): <http://www.iiasa.ac.at>, or contact: **Walter Foith, FAX: +43 2236 71313, Email: foithw@iiasa.ac.at.**

## POSITIONS OPEN

### ASSISTANT PROFESSOR OF MICROBIOLOGY UNIVERSITY OF PENNSYLVANIA

The Department of Pathobiology, Laboratory of Microbiology and Immunology, University of Pennsylvania School of Veterinary Medicine, invites applications for a tenure-track faculty position at the Assistant Professor level studying infectious diseases of fish. We seek applicants interested in host-pathogen interactions, including the fields of virology, bacteriology, mycology, parasitology, immunology, and pathology. The successful candidate is expected to have a Ph.D., a combined Ph.D./D.V.M., or Ph.D./M.D. degree, and postdoctoral training. He/she will develop a high-quality, independent research program funded by extramural support and be expected to participate in the teaching program of the school. The School of Veterinary Medicine is located on the same campus as the Schools of Medicine and Dental Medicine, the Department of Biology of the University, and the Wistar Institute. Faculty in many biomedical areas are involved in a well-established integrated program of graduate student and postdoctoral training. Applicants should send a curriculum vitae, summary of research accomplishments, description of future plans and arrange to have three letters of reference sent by August 1, 1997 to: **Dr. Dieter M. Schifferli, Chair Microbiology Search Committee, University of Pennsylvania School of Veterinary Medicine, Philadelphia, PA 19104-6049.** An Equal Opportunity, Affirmative Action Employer.

### HARVARD MEDICAL SCHOOL Assistant Professor in the Department of Cancer Immunology and AIDS at The Dana-Farber Cancer Institute

The Center for AIDS Research, the Department of Cancer Immunology and AIDS at the Dana-Farber Cancer Institute and the Department of Pathology at Harvard Medical School seek well-qualified (Ph.D., M.D. or M.D./Ph.D.) applicants for a tenure-track position at the Assistant Professor level. The Departments seek individuals who have the capability of directing innovative independent AIDS research. Candidates should have completed three to five years of relevant postdoctoral or independent research. Relevant interests and experience include human or primate immunodeficiency virus replication, viral interactions with host cells, pathogenesis, antiviral immune responses, vaccine development, and AIDS-related malignancies.

The position offers significant scientific resources in a stimulating environment as well as an attractive start-up support package. Candidates are expected to participate in the teaching activities of the Department of Pathology for medical students, graduate students, and postdoctoral fellows. Applicants should submit, by July 31, 1997, a curriculum vitae, bibliography, brief statement of research interests, copies of two recent publications, and names and addresses of four references to: **Dr. Harvey Cantor, Chair, Search Committee, Dana-Farber Cancer Institute, Boston, MA 02115.**

The Dana-Farber Cancer Institute is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

### ASSISTANT PROFESSOR OF PHYSIOLOGY

Applications are invited for a tenure-track assistant professor position. The candidate must have a Ph.D. with at least two years of postdoctoral training, and will be expected to develop an independent and extramurally funded research program, and to teach the cardiovascular block in the medical physiology course. Demonstrated teaching ability is essential. Abundant collaborative opportunities for cardiovascular research are available. Applicants should send a curriculum vitae, statement of research interests and teaching experience, and the names of three references by July 15 to: **Dr. Robert E. Godt, Department of Physiology and Endocrinology, Medical College of Georgia, Augusta, GA 30912-3000.** Medical College of Georgia is an Equal Opportunity/Affirmative Action Employer.

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**Science in a professional atmosphere.** At our Seattle headquarters, you'll find 300 of the world's most prolific scientists. Plus specialists in business disciplines like accounting, marketing, MIS and regulatory affairs — all dedicated to saving lives.

**We currently have two key programming positions available in our newly created Bioinformatics Department.**

**Sequence Database Analyst** — Focusing on public/proprietary genomic, protein and DNA sequence databases, you will design, develop and support related applications and intranet interfaces. Will work closely with bioinformatics and gene discovery scientists and play a critical role in creating relational databases for a number of key projects including electronic/high-throughput biological methods for novel gene discovery and analysis.

**Structural Database Analyst** — Working closely with bioinformatics and gene discovery scientists, this position will work on protein structure prediction and vial genome analysis. Will be involved with the design, development and support of novel applications. Will also be involved in the development of Novel ways to integrate structured information to gene discovery, as well as develop intranet interfaces/applets for sequence data analysis tools, algorithms and structural databases.

Both positions require a BA/BS degree in Biological, Physical or Computer Science and 3+ years experience in scientific, object-oriented programming. Should be well versed in C/C++, data structures and program design. Extensive knowledge of UNIX, RDBMS (Sybase, Oracle), HTML, Java, Perl and CGI scripting, as well as Win95/NT and Mac OS is essential. Must be a strong team player with excellent analytical and written/verbal communication skills. Familiarity with computational tool and database design in a Human Genome Initiative is highly desirable.

For specific information about these positions, please visit our web site at <http://www.immunex.com>.

**Anything but a sterile environment.** Immunex is just as advanced when it comes to the well-being of our employees. Our award winning "work life" programs received national and state-wide recognition in 1995 & 1996.

All of this takes place in one of the most dynamic, picturesque cities in the country. From a daily ferry commute where the roadside attractions might include a pod of Orcas, to its world-class restaurants and entertainment scene, Seattle is a most uncommon place in which to live. Just as Immunex is a most uncommon place in which to work. Please submit resume (Immunex utilizes scanning technology) to: **Immunex Corporation, Attn: Human Resources, Job #SM76150597, 51 University St., Seattle, WA 98101-2936. FAX: (206) 623-4572. Jobline: (206)389-4060.** Equal Opportunity Employer.



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Corvas, a biopharmaceutical company based in beautiful San Diego, is engaged in the design and development of a new generation of therapeutic agents for the prevention and treatment of major cardiovascular and inflammatory diseases. We currently have the following opportunities available.

### **DIRECTOR, PRODUCT DEVELOPMENT**

As the leader of our Product Development team, you will have overall responsibility for directing the preclinical and early clinical development activities for proprietary protein-based therapeutic agents. These activities will include the management of contract manufacturing, testing and vialing of clinical materials, safety/toxicology evaluations and the initiation and management of phase I/II clinical testing with CRO involvement. You will also direct an internal staff involved in documentation, selected Q/A functions and regulatory compliance consistent with current FDA/ICH regulations. A PhD, MD or equivalent and at least 6 years' closely related hands-on experience in biologics development are required.

### **SENIOR RESEARCH SCIENTIST**

We require an energetic individual to help lead our efforts in the discovery and development of novel biologic therapeutic agents. The successful candidate will manage 4-5 research scientists and must have strong, demonstrated skills in protein purification and characterization with preference given to candidates with experience in process development and scale-up of biologics from microbial and eukaryotic production systems. An understanding/working knowledge of microbial fermentation, an MS or PhD in Biochemistry or related field, a solid work ethic, and demonstrated verbal/written communication skills are also required. Some experience in managing outside research efforts with contract organizations is preferred.

We are also seeking the following professionals for current and future opportunities at all levels:

- \* **Molecular Biologists**
- \* **Synthetic Organic Chemists**
- \* **Vascular Cell Biologists**

For consideration, please send/fax CV and cover letter indicating position of interest to: Corvas International, Inc., 3030 Science Park Road, San Diego, CA 92121, Attn: Human Resources; Fax (619) 455-5169; [www.corvas.com](http://www.corvas.com). EO/EE

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## **NEUROSCIENCE AND CELL BIOLOGY**

The University of Medicine and Dentistry of New Jersey-Robert Wood Johnson Medical School.

New tenure/tenure-track positions are available in neuroscience and cell biology at the (UMDNJ) University of Medicine and Dentistry of New Jersey-Robert Wood Johnson Medical School. Investigators with interests in molecular neurobiology, cellular neurobiology and the relationship of biology to behavior and mentation are encouraged to apply. Positions will be available beginning September, 1997. Please submit curriculum vitae, summary of scientific interests and goals, and three letters of reference to: **Ira B. Black, M.D., Professor and Chairman, Department of Neuroscience and Cell Biology, UMDNJ-Robert Wood Johnson Medical School, 675 Hoes Lane, Piscataway, NJ 08854-5635.** UMDNJ is an Affirmative Action/Equal Opportunity Employer, m/f/d/v, and a member of the University Health System of New Jersey.



## **LET IDAHO INSPIRE YOU TO DO YOUR BEST WORK**

Idaho National Engineering and Environmental Laboratories • Idaho Falls, ID

Lockheed Martin Idaho Technologies Company is the operating contractor for the Idaho National Engineering and Environmental Laboratory (INEEL), a Department of Energy facility.

The INEEL is home to the largest concentration of technical professionals in the Northern Rocky Mountain Region and hosts some of the most advanced research programs in the world.

### **Senior Scientist/Engineer**

We're seeking a seasoned senior level scientist to support the Laboratory Directed Research and Development (LDRD) and University Research Consortium (URC) programs. You'll assess research programs to maximize the value of R&D investments toward business objectives and ensure the technical vitality of the INEEL.

Requires a PhD and at least ten years of experience in scientific and applied engineering research and development activities. Demonstrated experience in R&D portfolio planning and evaluation coupled with proven background in building interdisciplinary, collaborative research programs are essential. Excellent interpersonal and communication skills, including technical writing and editing are necessary.

In addition to the many amenities the Idaho lifestyle affords, we offer a competitive compensation and benefits package. For immediate consideration, mail your resume, indicating position of interest, to: Staffing (SM), Lockheed Martin Idaho Technologies Company, P.O. Box 1625, Idaho Falls, ID 83415-3127. You may also fax your resume to 208-525-0281 or e-mail it to [mrh@inel.gov](mailto:mrh@inel.gov). Visit us on the web at <http://www.inel.gov/resources/employment/employ.html>. Lockheed Martin Idaho Technologies Company is an Equal Opportunity Employer M/F/D/V. U.S. Citizenship is required.

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### **Dean College of Pharmacy University of Michigan**

The University of Michigan invites nominations and applications for the position of Dean of the College of Pharmacy. The College of Pharmacy is a research-intensive unit committed to excellence in professional and graduate education. The College offers programs leading to the Pharm.D. degree in the professional curriculum and the Ph.D. degree in medicinal chemistry, pharmaceuticals, pharmacognosy, and pharmacy administration. The Dean is responsible for providing academic, administrative, and fiscal leadership to the College. In order to continue the overall excellence of the College, the Search Advisory Committee is seeking candidates with the following attributes: an earned doctorate or equivalent experience in a discipline related to the overall mission of the College, a distinguished scholarly record in research and education appropriate for a tenured appointment in the University at the rank of Professor, demonstrated leadership and administrative abilities, an understanding of current issues in pharmacy and health care, a dedication to the goals of affirmative action and to the development of a fully diverse faculty and student community, and a commitment to resource development.

Applications, including curriculum vitae and the names of three references, or nominations should be sent to:

**Professor Frank J. Ascione  
Co-Chair, College of Pharmacy Dean's Search  
Advisory Committee  
3084 Fleming Administration Building,  
University of Michigan  
Ann Arbor, MI 48109-1340.**

The committee will begin reviewing candidates beginning June 1, 1997. See <http://www.umich.edu/~pharmacy/> for more information on the College of the Pharmacy.

*University of Michigan is a Non-Discriminatory,  
Affirmative Action Employer*





## A new global leader in pharmaceuticals is born.

Innovative. Progressive. Responsive. This best describes our philosophy at Novartis Pharmaceuticals Corporation. Resulting from the merger of Ciba and Sandoz, Novartis is now the largest pharmaceutical company in the world. And we will continue to grow by discovering, researching, developing and manufacturing innovative prescription drugs that treat a wide variety of diseases and conditions (including organ transplantation, cardiovascular diseases, schizophrenia, cancer, epilepsy and arthritis)...we are helping millions of people live longer, healthier lives. To do this effectively, we are investing over \$1 billion annually in pharmaceutical research and development.

We are also dedicated to providing a stimulating environment that is conducive to professional growth. We invite you to investigate the following opportunities at our state-of-the-art Northern New Jersey locations:

### Research Fellow - Oncology

You will participate in the supervision of all *in vivo* U.S. Oncology research, to include anti-tumor efficacy, MTD, pharmacokinetic and mechanism of action studies of novel cancer therapeutics. Specific responsibilities include developing new *in vivo* models for the determination of efficacy and mechanism of action of novel agents; establishing PK capabilities in collaboration with our development function; and interacting/collaborating with oncology drug discovery laboratories in New Jersey, Europe and Japan. Requirements include a PhD plus 10+ years of relevant experience in the areas of *in vivo* tumor biology and pharmacology. Direct and supervisory experience with human tumor xenograft models is required, as is significant experience in the area of preclinical drug development. Please refer to Position MS-3355 on resume AND cover letter.

### Associate Fellow - Oncology

You will direct a laboratory responsible for exploratory research, assay development and drug discovery in the area of aberrant cell cycle control in tumor cells. You will interact with other Novartis Oncology laboratories in New Jersey, Europe and Japan, as well as academic scientists, in a collaborative effort to discover and validate novel targets. You will then use the targets to establish screens and modeling efforts for the discovery of novel antitumor agents. You will have the opportunity to be involved in all aspects of the drug discovery and early development process. Candidates should have a Ph.D. plus a minimum of 3-5 years post-doctoral and/or industrial experience in molecular, cellular biology or biochemistry, within the oncology area. Experience working with mammalian cell cycle genes and proteins is essential, including practical experience with relevant molecular biology and biochemistry techniques. The ability to work in a highly independent fashion, as well as the ability to cooperate and collaborate as part of a team are required. You must also possess excellent written and verbal communication skills. Please refer to Position MS-4168 on resume AND cover letter.

### Postdoctoral Fellow - Oncology

You will carry out oncology research with primary emphasis on cellular biochemistry of the stress response in tumor and normal cells. You will participate in a basic research program aimed at understanding how chemotherapeutic agents kill tumor cells. Areas of investigation will include the interaction of oncogenes with proteins of the stress kinase signaling pathway. You should possess a Ph.D. degree in biology or biochemistry and have good written/verbal communication skills. Our postdoctoral assignments, which encourage creative thinking and offer ample opportunities for publication and research presentations, are for one year and may be renewable for a second year by mutual agreement. Please respond to: Please refer to Position MS/PD053 on resume AND cover letter.

Attractive salaries and comprehensive benefits. You will find them all and much more at Novartis. Write your own prescription for success and apply today. **PRINCIPALS ONLY:** send your resume/curriculum vitae, letter of interest WITH POSITION CODE, and the names/addresses of three references, to: Staffing Center, Novartis Pharmaceuticals Corporation, 556 Morris Avenue, Summit, NJ 07901. We are an equal opportunity employer M/F/D/V. We appreciate your interest in our Company. Unfortunately, we will only be able to respond to those candidates chosen for interviews or additional follow-up.

### Scientists - Oncology

You will participate in the discovery and development of novel cancer therapeutics. Your research will focus on the targeting of key pathways involved in cancer, including oncogenes, tumor suppressor genes, aberrant cell cycle regulation or apoptosis. You will be part of a large multi-disciplinary team utilizing state-of-the-art biochemical, cellular and molecular biology techniques. Key functions may include novel target validation, development and running of high capacity screens and secondary assays, and/or determination of mechanism of action of novel compounds. Candidates should have a Bachelor's degree in biology and at least 2-5 years of bench experience, or a Master's degree and 1-3 years of bench experience, with broad knowledge in cellular and molecular biology. You should also be familiar with common computer software used for analysis and communication of scientific data. Please refer to Position MS-3991 on resume AND cover letter.

### Veterinary Anatomic Pathologist

You will be involved in the design, interpretation and reporting of safety studies for novel pharmaceuticals, and may have international project team responsibilities which require interactions with regulatory agencies. Qualifications must include a DVM, certification by the American College of Veterinary Pathologists and 5-10 years of experience in the pharmaceutical industry. Preference will be given to candidates with a PhD and/or experience in molecular pathology and gene therapy. Please refer to Position MS-3881 on resume AND cover letter.

### Research Scientists- Computer Assisted Molecular Modeling

We are seeking Research Scientists to apply computational chemistry techniques and interactive molecular modeling to drug discovery and design; and support, develop and/or evaluate software tools used in computer assisted molecular modeling. Qualifications include a PhD in a Physical or Biophysical Science with a concentration in computational chemistry, along with 2-7 years of relevant industry experience. The ability to apply interactive molecular modeling, molecular mechanics/dynamics, quantum mechanics and protein modeling methods to computer assisted molecular discovery and design is essential; knowledge of modern workstations and servers, UNIX operating systems and a language used in computer assisted molecular modeling (such as Fortran or C) is a must. Familiarity with medicinal chemistry, organic synthesis, NMR spectroscopy, X-ray crystallography and biochemistry is also required; strong verbal, written and interpersonal skills are important. Please refer to Position GC-4214/15 on resume AND cover letter.

## SCIENTIST/SR. SCIENTIST

The R.W. Johnson Pharmaceutical Research Institute (RWJPRI) uses advanced high throughput screening technologies to identify new therapeutic entities in support of Johnson & Johnson's worldwide pharmaceutical businesses. We are committed to staying at the forefront of R&D in our core therapeutic areas and to maintaining Johnson & Johnson's position as the world's largest health care company. We seek a creative and highly motivated scientist to join a dynamic multidisciplinary team at our Raritan, New Jersey location.

If selected, you will become part of a group charged with identifying and enabling new screening technologies. You will collaborate with our Drug Discovery and High Throughput Screening Teams, as well as with outside collaborators, in developing the latest biological and electronic methodologies for use in the discovery of therapeutic agents.

To qualify, you should have a Ph.D. in Pharmacology, Cell Biology, Biochemistry or a related discipline with at least 2 years' postdoctoral training. You should be skilled in molecular biology (cloning, protein expression) and have a strong background in signal transduction, with experience in GPCRs, ion channels and/or protein kinases. Familiarity with newer screening technologies, including HTSF, FP, optical sensors and non-radiometric receptor binding assays, is desirable.

We provide competitive salaries and comprehensive benefits including medical/dental insurance, 401(k) plan and our LIVE FOR LIFE Wellness Program with on-site fitness centers. To apply, please forward a scannable copy of your resume to: Dept. 1379, Johnson & Johnson Recruiting, P.O. Box 16597, New Brunswick, NJ 08906-6597. We are an equal opportunity employer and support diversity in the workplace.

For more information or to submit your resume electronically, visit our website at [www.jnj.com](http://www.jnj.com).



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## Leaders in the Search

Synaptic  
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in the cloning of  
G-protein cou-  
pled receptors  
and their  
functional  
analysis. Our  
goal is to  
translate  
basic science  
discoveries to  
novel therapies  
for human  
disease.



As we continue to expand the research teams in our premier organization, opportunities have become available for the following to share in the challenges and rewards:

### Molecular Biology Scientists (2)

Participate in the homology cloning and/or expression cloning of G-protein coupled receptors and direction of research associates. In addition to a PhD in Molecular Biology and 1-3 years of post-doctoral experience, successful candidates will have demonstrated expertise in homology, expression cloning, construction and screening of cDNA and genomic libraries. Candidates with experience in sequence analysis and high throughput sequencing preferred for 1 position. **Send replies to: Dept.-228**

### Scientist—Molecular Biology Group

Direct your expertise towards cDNA cloning and library construction. Requires a PhD and at least 1 year of post-doctoral experience in cDNA cloning, subtractive hybridization/normalization and expression cloning in mammalian cells. **Send replies to: Dept.-230**

### Genome Analyst

Working with a team of computer scientists and molecular biologists, you will be responsible for analyzing automated search output and performing special queries/sequence analyses. Successful candidate will have a PhD in the Biological Sciences, knowledge of the GCG sequence analysis package and common database search programs, particularly within a UNIX environment. **Send replies to: Dept.231**

### Research Associates(2)

Participate on core teams devoted to either homology cloning or expression cloning and cDNA library construction. Requires a BS/MS in Biology and experience with cloning techniques. Candidates with experience in automated sequencing and subtractive hybridization/normalization preferred. **Send replies to: Dept.-229**

Candidates for all positions must have strong communications skills. In return, we provide highly competitive salaries and a comprehensive benefits package. Please forward your resume/CV, indicating the appropriate job code, to: Human Resources, Synaptic Pharmaceutical Corporation, 215 College Road, Paramus, NJ 07652. An EOE m/f/d/v

## FACULTY POSITION IN CANCER GENETICS

The H. Lee Moffitt Cancer Center & Research Institute and the College of Medicine at the University of South Florida are seeking applications for a Program Leader and member at the Associate or Full Professor level to participate in the Cancer Center Research Programs under a stimulating academic environment that includes excellent laboratory and clinical facilities. Applicants must have a demonstrated track record in cancer genetics research.

Successful individuals must hold an M.D. or Ph.D. degree with a minimum of 5 years independent research experience. Individuals at the rank of Associate Professor must have a demonstrated potential for extramural funding and vigorous publication activity. Individuals for Full Professor must have a proven track record of independent research, leadership ability and training experience as evidenced by publications and extramural funding. Academic rank and salary will be commensurate with experience and qualifications. This position will be assigned to a specific, mutually agreed upon department within the College of Medicine with the possibility of tenure. Members of the Cancer Genetics Program will interact with investigators in the established Cancer Control, Molecular Oncology, Drug Discovery, and Clinical Investigations Programs.

In addition, individuals for Member or Program Leader are expected to establish a vigorous, funded research programs in the areas of:

- Inherited genetic alterations that predispose to cancer
- Molecular mechanisms of action of cancer genes
- Development of genetic therapies against cancer

Send current *curriculum vitae* and a brief statement of major academic interests to W. J. Pledger, Ph.D., Associate Center Director for Basic Research, Moffitt Cancer Center, 12902 Magnolia Drive, Tampa, Florida 33612. Applications must be postmarked by the deadline of **July 3, 1997**.

The H. Lee Moffitt Cancer Center and Research Institute is a free-standing Cancer Center located adjacent to the Health Sciences Center on the Tampa campus of the University of South Florida. In addition to a 162-bed full service cancer treatment facility, the Center has research laboratory space in four buildings including over 50,000 square feet of dedicated laboratory and support space in a new Cancer Research Center.



H. LEE MOFFITT CANCER CENTER  
& RESEARCH INSTITUTE  
University of South Florida College of Medicine

Moffitt Cancer Center is an Equal Opportunity Employer.  
The University of South Florida is an Equal Opportunity/Equal Access/Affirmative Action Employer. For disability accommodations please contact Rebecca Koransky at (813) 979-3887, a minimum of five working days in advance. TDD# 813-974-2218

Dr. Michael Hengartner, a staff member at Cold Spring Harbor Laboratory in New York, was the first Grand Prize winner of the 1995 Pharmacia Biotech & Science Prize for Young Scientists.

GET PUBLISHED IN SCIENCE  
AND A TRIP TO SWEDEN,  
BY WRITING 1.000  
WORDS—HE DID!

(OH YEAH, AND \$20.000)

If you're a recent Ph.D. graduate whose thesis work was in molecular biology, we'd like to congratulate you. We'd also like to give you a little recognition for a job well done. All you have to do is enter an essay based on your graduate thesis to the 1997 Pharmacia Biotech & Science Prize for Young Scientists.

Your essay will be reviewed by a panel of distinguished scientists—who will then select one Grand Prize winner and up to seven other winners. The Grand Prize winner will receive the rewards mentioned above; all other winners will receive \$5,000 each and a free trip to Sweden to attend the award ceremony.

#### CALL FOR ENTRIES

To be eligible, you must have received your Ph.D. between 1 January and 31 December 1996. Your thesis work must have

been in the field of molecular biology. To enter, you must submit a 1,000 word essay that describes your thesis work and places it in perspective with regard to the field of molecular biology. The essay may be submitted in either English, French, German, Spanish, Japanese, or Chinese (Mandarin).

The closing date for entries is 30 June 1997. All prizes will be presented in Sweden in December 1997. Full details and the required entry form can be obtained from:

- the administrator of the Award Committee at the address below
- within the Science homepage at <http://www.aaas.org/science/prize.htm>
- within the Pharmacia Biotech homepage at <http://www.biotech.pharmacia.se>

Pharmacia  
Biotech & SCIENCE  
Prize for  
Young Scientists  
IN MOLECULAR BIOLOGY 1997

The Award Committee  
Pharmacia Biotech & Science Prize for Young Scientists

Enquiries from Europe – Science International, 14 George IV Street, Cambridge, CB2 1HH, UK. Tel: +44 1223 302067, Fax: +44 1223 302068  
Enquiries from USA and other regions – Science, 1200 New York Avenue, NW, Washington, DC 20005 USA. Tel: 202-326-6504, Fax: 202-289-7562



## POSITIONS OPEN

**COLUMBIA UNIVERSITY**  
Department of Medical Informatics,  
College of Physicians and Surgeons  
Department of Computer Science,  
School of Engineering and Applied Science  
The Columbia Genome Center  
Tenure-Track Faculty Position in  
Computational Genomics

The Department of Medical Informatics of the College of Physicians and Surgeons is recruiting a tenure-track **ASSISTANT** or **ASSOCIATE PROFESSOR** with the opportunity for a joint appointment to the Department of Computer Sciences of the College of Engineering in the area of computational genomics. The position includes appointment to the scientific staff of The Columbia Genome Center. The successful candidate will be expected to initiate and carry out independent research, focused on the activities of The Center. The candidate will also participate in academic duties associated with B.S., M.S., Ph.D., and M.D. curricula. The candidate will be expected to build within the Columbia Genome Center a research program in computational genomics that spans computer science, molecular genetics and medical informatics.

Qualifications: Ph.D. in Computer Science or a closely related field and a minimum of five years of experience in computational molecular biology, with significant achievements both in computational genomics and in computer science. Academic credentials and a demonstrated ability to teach effectively at the graduate and/or undergraduate levels are important criteria for suitability for this position. Relevant experience in the pharmaceutical and/or biotechnology industries, should be included in the documentation provided by the applicant. Salary will be based on qualifications. Starting date: Fall, 1997. To ensure full consideration, applications should be sent within one month of the date of publication of this advertisement.

Send a complete résumé and bibliography including the names and addresses of a minimum of six references to: **Dr. I. S. Edelman, Director, The Columbia Genome Center, College of Physicians and Surgeons of Columbia University, 650 West 168th Street, New York, NY 10032.**

*Columbia University is an Affirmative Action, Equal Opportunity Employer.*

**ASSISTANT PROFESSOR**, environmental studies—Full-time tenure track position to begin September 1997. Responsibilities include teaching undergraduate courses in environmental studies and coordination of environmental research/education sites. Applicants should possess a Ph.D. in environmental studies/science. Teaching and/or field experience helpful. Applications must be received by June 16, 1997. Send résumé to: **Dr. Susan Hageman, Chair, Science Education & Environmental Studies, Southern Connecticut State University, 501 Crescent Street, Je 309, New Haven, CT 06515. Telephone: 203-392-6600; FAX: 203-392-6614.** *Southern Connecticut State University is an Equal Opportunity, Affirmative Action Employer and strongly encourages minorities and women to apply.*

### TENURE-TRACK RESEARCH FELLOW POSITIONS INSTITUTE OF ATOMIC AND MOLECULAR SCIENCES Academia Sinica

Institute of Atomic and Molecular Sciences plans on making **FACULTY** appointments in the areas of high resolution laser spectroscopy, ultrafast time-resolved spectroscopy and *ab initio* calculations. Interested persons should submit a résumé and names of three references to: **Professor S. H. Lin, Chair, Search Committee, Institute of Atomic and Molecular Sciences, Academia Sinica, P.O. Box 23-166, Taipei, Taiwan.**

**EXECUTIVE DIRECTOR**—Association American Veterinary Medical Colleges. Excellent opportunity for leadership in academic veterinary medical community. Veterinary degree required and academic and governmental experience preferred. Excellent salary and fringe benefits. For complete job description, please call the AAVMC office at 202-371-9195. Résumé and three references should be sent to: **Dr. Ted Valli, President, Association American Veterinary Medical Colleges, 1101 Vermont Avenue NW, Suite 710, Washington, DC 20005, no later than July 1, 1997.**

## POSITIONS OPEN

### FERRING RESEARCH INSTITUTE

Ferring Research Institute, Inc., San Diego Division, is a research organization in the field of therapeutic peptide products. Two positions are available within the newly established biology department.

#### RESEARCH SCIENTIST

Applicants should possess a Ph.D. in pharmacology or a related field with a minimum of two years of postdoctoral experience in receptor pharmacology and *in vitro* bioassays. Responsibilities will include the development and implementation of high throughput screening assays for identifying potential new leads. Candidates whose experience combines pharmacology and molecular biology are particularly encouraged to apply.

#### RESEARCH ASSOCIATE

A M.S./B.S. in biology with a minimum of two years experience in cell culture is required. A strong background in molecular biology and biochemistry is essential. Previous industry experience in high throughput screening and data management is preferable.

Ferring Research Institute Inc. offers competitive compensation and benefits packages. Qualified applicants are encouraged to send or FAX curriculum vitae, salary history, and names of three references to: **Ferring Research Institute Inc., 3550 General Atomics Court, 2-434, San Diego, CA 92121. FAX: 619-455-3190.**

#### EMINENT ESTUARINE SCIENTIST

The Florida Center for Environmental Studies (CES) seeks an outstanding individual to conduct estuarine research in Florida for a 12-month Sabbatical Leave Position, beginning in August/September 1998. The research specialty is open but a key role for this individual is to collaborate with scientists from the South Florida Water Management District and the State University System of Florida. Support includes: up to \$50,000 in salaries and fringe benefits, postdoctoral and graduate student assistance for two years, travel funds, minor equipment and supplies, and a moving allowance. Candidates should provide: a letter of application, curriculum vitae, and the names (including: address, telephone, FAX and Email) of at least five individuals familiar with the candidate's research record to: **Dr. Stephen A. Bortone, Florida Center for Environmental Studies, Florida Atlantic University (Northern Palm Beach Campus), 3970 RCA Boulevard, Suite 7401, Palm Beach Gardens, FL 33410 USA.** Application review will begin 15 July 1997. *An Equal Employment Opportunity/Affirmative Action Employer.*

#### SCIENTIFIC ASSOCIATE FOR BIODIVERSITY, CONSERVATION AND EDUCATION

The Center for Biodiversity and Conservation (CBC) and the National Center for Science Literacy, Education and Technology of the American Museum of Natural History are seeking scientists with an interest in taking scientific content to a broader audience. Responsibilities include acting as liaison between the two Centers on educational products relating to biodiversity; researching and updating information on a major permanent biodiversity exhibition scheduled to open in spring, 1998, and providing accurate scientific information for CBC publications, research, outreach and policy projects. Candidates must have Ph.D. or M.S. degree in systematics, conservation biology, ecology or related field, and excellent oral and written communication skills. Please submit curriculum vitae, a narrative statement of interests, salary requirement, and the names, addresses, telephone, FAX, and Email of three references to: **Director, Center for Biodiversity and Conservation, American Museum of Natural History, Central Park West at 79th Street, New York, NY 10024.** Applications must be submitted by July 1, 1997. *An Equal Opportunity Employer.*

#### UNIVERSITY OF PENNSYLVANIA

**POSTDOCTORAL POSITION** available to study ion channel structure-function using molecular biological, biochemical and biophysical techniques. Candidate must have a Ph.D. and expertise in electrophysiology. Please send curriculum vitae along with names and telephone numbers of three references to: **Dr. Zhe Lu, Department of Physiology, University of Pennsylvania, Richards/6085, Philadelphia, PA 19104.**

## POSITIONS OPEN

### MENDEL BIOTECHNOLOGIES SENIOR SCIENTISTS, STAFF SCIENTISTS AND RESEARCH ASSOCIATES

Mendel Biotechnology is a plant functional genomics company dedicated to discovering genes for improving the productivity and quality of plants and in developing alternative uses for agriculture. We are currently looking for M.S. and Ph.D. scientists to help us determine the biological role of selected plant genes that have commercial importance in agriculture.

Senior scientist, staff scientist and research associate positions: Good communications skills and the ability to thrive in a multidisciplinary team environment. Candidates should have demonstrated experience and publications in molecular biology and one or more of the following: developmental biology, molecular genetics, biochemistry, technology development, automated DNA sequencing, robotics, and lab automation. Experience with *Arabidopsis* is preferred.

Bioinformatics positions: Extensive knowledge of informatics, experience both in biological sciences and molecular biology software (e.g., GCG), and database searching (e.g., SQL).

Mendel Biotechnology is located in the beautiful San Francisco Bay area and offers competitive salary and benefits, including stock options. Interested applicants should submit their full curriculum vitae and three letters of reference to: **Mendel Biotechnology, Personnel Department, #364, 1563 Solano Avenue, Berkeley, CA 94707. Email: mendelbio@aol.com.** Review of the applications will begin June 16, but applications will be accepted until the positions are filled. *Equal Opportunity Employer.*

#### STAFF SCIENTIST AND POSTDOCTORAL POSITIONS IN TUMOR IMMUNOLOGY

Argonex Pharmaceuticals is seeking **CELLULAR/MOLECULAR IMMUNOLOGISTS** who will be responsible for the establishment of primary tumor cell cultures, the establishment and characterization of TIL and CTL lines, and the assessment of TIL and CTL activity against tumor cells and peptide-treated cell lines. The ideal candidates will be highly-motivated individuals capable of performing innovative research in an interdisciplinary team environment. A Ph.D. in immunology or a related field is required, as is a minimum of three to five years of hands-on experience with human T cell culture.

Argonex is utilizing the DIRECT® technology developed by **Drs. Donald Hunt and Victor Engelhard** of the University of Virginia to identify candidate peptides for tumor vaccines. The work environment features a recently renovated laboratory as well as state-of-the-art equipment for cell culture, cellular immunology, protein chemistry, and mass spectrometry. Argonex offers a highly competitive salary and benefits package.

Qualified candidates should forward their curriculum vitae, a one to two page summary of their previous research experience, and the names and addresses of three references to: **Dr. Kevin T. Hogan, Argonex Pharmaceuticals, Suite 1, 706 Forrest Street, Charlottesville, VA 22903.** *An Equal Opportunity Employer.*

#### STAFF POSITION MR SPECTROSCOPY

The Massachusetts General Hospital-NMR Center is recruiting a staff level/junior faculty appointment for development of MRS at 3.0T. The applicant should have extensive experience in brain spectroscopy, hardware development and MR physics. In addition, extensive pulse programming experience in EPIC is also required. Please send curriculum vitae, a statement of research interests, and the names and addresses of three references to:

**MRS Appointment  
MGH-NMR Center  
Building 149 13th Street  
Charlestown, MA 02129**

*The Massachusetts General Hospital and Harvard Medical School are Affirmative Action/Equal Opportunity Employers.*

#### RESEARCH ASSOCIATE

Position available for an individual to study molecular mechanisms of angiogenesis. Experience in cell and molecular biology is required. Background in vascular biology is desirable. Salary is commensurate with experience. Submit curriculum vitae to: **Roberto F. Nicosia, M.D., Ph.D., Department of Pathology, MS #435, Allegheny University of the Health Sciences, Broad and Vine Streets, Philadelphia, PA 19102.** *Equal Opportunity Employer.*

## BIOCHEMICAL TOXICOLOGIST

The Safety Assessment Department of Merck Research Laboratories, a leader in pharmaceutical and biological research, is seeking someone to fill a position in the Investigative Toxicology Laboratory.

The selected candidate will participate in developing techniques and conducting studies designed to address mechanisms of drug-induced toxicity. Daily responsibilities will include: assay development using a variety of spectrometric, radiochemical, chromatographic, EIA and RIA techniques; conducting research to characterize toxic effects of drug development candidates using in vitro and in vivo test systems; and screening compounds to select less toxic analogs. The candidate must have a BS/MS in Biology, Biochemistry, Toxicology, Medical Technology, Clinical Chemistry, or the equivalent and 2-5 years of laboratory experience in analytical biochemistry or cellular/molecular biology with strong emphasis in biochemical techniques/assay development.

Excellent salary and benefits programs accompany this position at our modern research facility located 25 miles northwest of Philadelphia. Please send curriculum vitae with cover letter to: **MRL Human Resources, WP42-2, Ad#D99, Merck Research Laboratories, P.O. Box 4, West Point, PA 19486.** Only candidates selected for interviews will receive responses. EEO/AA/VH Employer.



**MERCK**

Research Laboratories



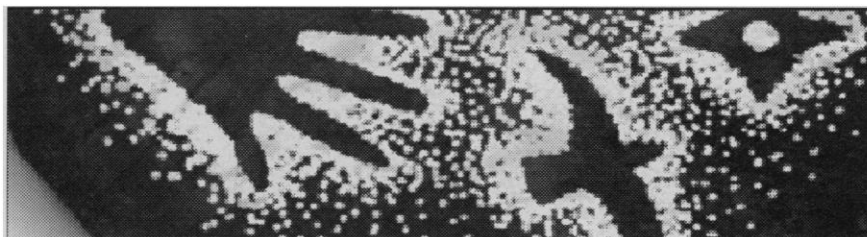
## RESEARCH SCIENTIST

Opportunity available at NYU Medical Center in the Department of Medical and Molecular Parasitology, in the laboratory of Dr. Allen B. Clarkson, to investigate the role of the alternative oxidase in microbial pathogens. This unusual electron transport enzyme, absent in mammals and present in many plants and some microbes, can substitute for the cytochromes and has been demonstrated to be a drug target in African trypanosomes. New data indicate that it may also be a target in other pathogens including the malaria parasite and *Pneumocystis carinii* which causes pneumonia in AIDS patients.

Candidates should have a doctorate, and experience using a wide range of basic molecular biological procedures and protein purification methods. Knowledge of cell culture techniques would be helpful.

Please send CV, a statement of interest in this area of research and three references to: William Kelley, Human Resources Department, NYU Medical Center, 550 First Avenue, New York, NY 10016. EOE.

**WHERE EXCELLENCE IS A WAY OF LIFE.**



## DRUG METABOLISM SCIENTISTS

Pharmacia & Upjohn is among the world's largest pharmaceutical companies. We are involved in areas such as Oncology and Infectious, Metabolic, Inflammatory, and Central Nervous System Diseases to help people live longer and fuller lives. Three positions are available for qualified Ph.D. research scientists within Drug Metabolism Research at our research facility in Kalamazoo, Michigan. Scientists will play a pivotal role in the selection and registration of new drug candidates through collaborative research with medicinal chemists, pharmacologists, and toxicologists. If you would like an opportunity to make a difference with Pharmacia & Upjohn, contact us.

### Drug Metabolism and Disposition

As a member of an interdisciplinary team, you will plan, design, and conduct complex in vivo and in vitro studies to study qualitative and quantitative aspects of drug biotransformation, distribution, and elimination. Requires a Ph.D. in analytical chemistry, medicinal chemistry, biochemistry, pharmaceutical chemistry or a closely-related field. Familiarity with modern analytical instrumentation and approaches to analyte isolation and identification is essential. Previous experience in separation and identification of drugs and metabolites in biological systems is highly desirable as is knowledge of radiochemical techniques. Knowledge and understanding of GLP guidelines and IND/NDA drug registration requirements are preferred. **Please refer to Position #970188 in your correspondence.**

### Bioanalytical Mass Spectrometry

The selected candidate will establish and utilize chromatographic procedures in conjunction with modern analytical instrumentation, robotics, and mass spectrometry for the quantitative analysis of drugs and metabolites in biological matrices under GLP compliance. Particular emphasis will be given to the development of high-capacity-high-throughput quantitative LC/MS/MS analytical methods to support preclinical and clinical pharmacokinetic programs. Position requires a Ph.D. in analytical chemistry, biochemistry, pharmaceutical chemistry or a closely-related field with a minimum of 2 years post-doctoral experience in the area of quantitative bioanalytical chemistry. Previous documented experience in the development and application of high-capacity, high-throughput quantitative LC/MS and/or LC/MS/MS methods for the quantitative analysis of drugs and metabolites in biological matrices is a requisite. Familiarity and understanding of GLP guidelines are highly desirable. **Please refer to Position #970190 in your correspondence.**

### Radiosynthetic Chemistry

The selected candidate will be responsible for the design and execution of organic synthetic chemistry procedures to incorporate radio- and stable-isotopic labels into novel therapeutic agents to support drug metabolism studies in support of the drug discovery and development goals of Pharmacia and Upjohn. The incumbent will possess a detailed knowledge of synthetic organic chemistry reaction mechanisms, synthetic chemistry procedures, chromatography, and spectroscopic techniques. A knowledge of procedures for incorporation of radiolabels and stable isotopic labels into organic molecules and expertise in micro-scale synthesis would also be desirable. Excellent interpersonal skills to facilitate synergistic interactions within the Pharmacia and Upjohn Research Chemical Community are essential. Position requires a Ph.D. in Radiosynthetic Chemistry, Medicinal Chemistry, or Organic Synthetic Chemistry and a minimum of two years relevant post-doctoral experience. **Please refer to Position #970245 in your correspondence.**

At Pharmacia & Upjohn you can make a difference. Our region offers outstanding cultural and recreational pursuits and an attractive cost of living. We provide competitive salary and benefits.

For confidential consideration, please send your resume and a description of your research experience to: **Pharmacia & Upjohn, Recruiting Office, 5045-88-81, Position # (listed above), 7000 Portage Road, Kalamazoo, MI 49001.** If you are responding through the Internet, include your resume as part of your e-mail (not an attachment) to: [recruit@am.pnu.com](mailto:recruit@am.pnu.com). We are an equal opportunity employer with a commitment to work place diversity.



**Pharmacia & Upjohn**



## POSITIONS OPEN

### MEDICAL DIRECTOR—INSTITUTE OF MEDICAL GENETICS

Evanston Hospital Corporation, affiliate of Northwestern University Medical School, is seeking a qualified M.D. or M.D./Ph.D. candidate for the position of Medical Director for our Institute of Medical Genetics. Candidate will develop and implement a multidisciplinary clinical research team in order to establish a state-of-the-art program. Extensive collaborative opportunities available with the Northwestern University Basic Science Department (Evanston Campus) and Northwestern University Medical School (Downtown Chicago Campus). To illustrate the strong institutional commitment toward this initiative, the candidate will be offered a highly competitive salary and start-up financial package with resources to recruit additional faculty. Ideal candidate will have a strong research background in molecular genetics, clinical background in medical genetics (preferably in oncology) with administrative experience (preferred) and excellent leadership skills. Academic appointment to be commensurate with candidate's credentials. Send curriculum vitae to: **Janardan Khandekar, M.D., Chairman, Medical Genetics Search Committee, 2650 Ridge Avenue, Evanston, IL 60201. FAX: 847-570-2940.** Evanston Hospital Corporation is located in a beautiful lakefront suburban community, eight miles from downtown Chicago. Evanston Hospital Corporation has been rated as one of the top 15 Academic Teaching Hospitals in the country for the last three years. *Equal Opportunity Employer.*

### SCIENTIST MYRIAD GENETICS, INC. SALT LAKE CITY, UTAH

Myriad Genetics is an innovative genomics company focused on the isolation of significant disease-causing genes. Our scientific achievements include elucidating the role of the p16 tumor suppressor gene in cancer and identifying genes involved in breast, ovarian, and brain cancer. We currently have major programs in asthma, cancer, central nervous system disorders, coronary heart disease, diabetes, obesity, and osteoporosis. Expansion of our gene identification and gene characterization efforts provides a number of exciting opportunities for highly motivated individuals. To learn more, visit our web page at: [www.myriad.com](http://www.myriad.com).

We are currently hiring scientists to fill positions in project focusing on positional cloning. Requires a Ph.D. with two years of postdoctoral experience in molecular biology, biochemistry or genetics.

We offer an attractive compensation package and a stimulating, interactive research environment. Please mail or FAX a cover letter specifying the position you are applying for, a complete résumé, and the names of three professional references to: **Human Resources Department, Myriad Genetics, Inc., 320 Wakara Way, Salt Lake City, UT 84108 or FAX to: 801-584-3640.** *Equal Opportunity Employer.*

### MYRIAD GENETICS INC.

**PLANT MOLECULAR GENETICIST.** Garst Seed Company, a division of Advanta, seeks a Ph.D. level senior scientist to lead a team of researchers in our maize genetic engineering analysis section. The incumbent will be primarily responsible for the management of the transgene expression analysis program, but will also be expected to provide expertise in the areas of trait discovery and vector design. Successful candidates will have at least one to two years of postdoctoral experience with a strong background in transgene expression analysis (Westerns, ELISA), plant molecular biology (Southern, Northern, PCR), and management skills. Additional experience in the area of GLP compliant data acquisition and/or entomology would be advantageous. To apply, please send résumé to: **Human Resources—Job Openings, Garst Seed Company, P.O. Box 500, Slater, IA 50244, FAX to: 515-685-5053, or Email: [aginfo@ntins.net](mailto:aginfo@ntins.net).** *Garst is an Equal Opportunity and Affirmative Action Employer.*

**POSTDOCTORAL POSITION** available for study of biochemical mechanisms and physiological regulation of intracellular protein degradation with focus on regulatory proteins of the ubiquitin-proteasome pathway (*JBC*, 271:3112, 1996; *JBC*, 271:26410, 1996; *Nature*, 385: 737, 1997). Applicants should have strong background in protein biochemistry and molecular biology. Send curriculum vitae and names of three references to: **George N. DeMartino, Department of Physiology, University of Texas Southwestern Medical Center, Dallas, TX 75235-9040.** *U.T. Southwestern is an Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

### MOLECULAR GENETICS/GENOME MAPPING RESEARCH SCIENTIST

The Research and Technology department of ABS Global, Inc., a global producer and marketer of bovine genetics and related products, invites applications for a full-time Ph.D. research scientist position. The successful candidate will have knowledge and research experience in genetics with emphasis in molecular cytogenetics related to genome mapping, experience in conducting mapping experiments, managing large datasets containing information related to linkage, physical mapping, biochemistry, YAC libraries, and statistics. The research program supports the continued growth of our basic product line, reproductive genetics, including semen and embryos. The successful applicant will be part of an integrated team designing and conducting experiments in molecular genetic research aimed at identifying gene loci responsible for variation in quantitative and qualitative trait inheritance in dairy and beef cattle. State-of-the-art facilities including computer (UNIX, MS-DOS, Windows) and automated DNA sequencing resources are available. Interested individuals should submit a curriculum vitae and a list of four individuals familiar with the applicant's qualifications to: **Michael D. Bishop, Ph.D., Director of Research, ABS Global, Inc., 6908 River Road, DeForest, WI 53532. Email: [bishop@absglobal.com](mailto:bishop@absglobal.com).** *Affirmative Action/Equal Opportunity Employer.*

**DIRECTOR, BSL-3 Facility, University of Michigan.** We are requesting applications for candidates to perform basic and clinical research on HIV replication, its molecular biology, and potential therapeutic interventions; supervise the operation of the BSL-3 facility; and ensure user compliance. The director serves as a member of the review committee that evaluates the scientific merit and safety of applications to the BSL-3 facility and oversees others in performing standard assays for HIV replication. Experience in eukaryotic gene expression, characterization of retroviral gene products and viral challenge experiments preferred. Please send curriculum vitae and names and addresses of three references to: **Dr. Gary Nabel, 4520 MSRB, 1150 West Medical Center Drive, Ann Arbor, MI 48109-0650.** *The University of Michigan is a nondiscriminatory, Affirmative Action Employer.*

**MANAGING EDITOR, ProMED-mail**—The electronic conference of the Program for Monitoring Emerging Disease (ProMED-mail), a large, international, Email-based discussion group on outbreaks of infectious diseases affecting humans, animals and plants, is seeking a managing editor to ensure scientific quality, integrity, and standardization of conference information. Full-time; some work may be done via home computer, Boston office work is required one to two days per week. Masters or Doctorate in science, medicine or public health. Salary commensurate with qualifications and experience. Curriculum vitae to: **Project Manager, SatelliLife, 1360 Soldiers Field Road, Boston, MA 02135. FAX: 617-789-4771. Email: [admin@usa.healthnet.org](mailto:admin@usa.healthnet.org).** For full job description, see: <http://www.healthnet.org>. Deadline June 13.

**POSTDOCTORAL position** to study retroviral pulmonary oncogenesis in sheep. Qualifications include Ph.D. in retrovirology; experience in genomic DNA cloning, integration site analysis, and viral gene expression in eukaryotic cells desirable. Stipend \$30,000. Send curriculum vitae, research interests, and three reference contacts to: **Dr. James DeMartini, Department of Pathology, Colorado State University, Fort Collins, CO 80523. FAX: 303-491-0603. Email: [jdemartini@vines.colostate.edu](mailto:jdemartini@vines.colostate.edu).**

**NEUROBIOLOGY POSTDOCTORAL POSITION** available immediately to study the direct innervation of pituitary corticotrophs. Ph.D. or M.D. required. Experience with neuroanatomical techniques desirable. Salary \$22,000-\$25,000. For complete position description and application instructions, contact: **Dr. Charles Paden, Biology Department, Montana State University, Bozeman, MT 59717. FAX: 406-994-3190; Email: [ubipc@oscs.montana.edu](mailto:ubipc@oscs.montana.edu).** *Americans with Disabilities Act/Affirmative Action/Equal Opportunity/Veterans Preference.*

**POSTDOCTORAL POSITION** is available to study the activity-dependent development of the corticospinal system and critical periods in motor behavior development. Background required in neurophysiology or neuroanatomy, preferably in the motor systems. Send curriculum vitae and names of three references (include Email addresses) to: **Dr. John H. Martin, Center for Neurobiology and Behavior, Columbia University, 722 West 168th Street, New York, NY 10032. Email: [jm17@columbia.edu](mailto:jm17@columbia.edu).** *An Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

### TOXICOLOGIST

The National Center for Environmental Assessment-Cincinnati (NCEA-CIN) of the U.S. Environmental Protection Agency is seeking candidates for a Toxicologist position, GS-12/13 (\$45,939 to \$71,017 per year, based on qualifications) located in Cincinnati, Ohio. The principal duties include serving as a scientific leader and member of project/research teams developing quantitative health risk assessments. Demonstrated experience in and understanding of interpreting and assessing chemical dose response for individual/multiple health effects related to Superfund chemicals or drinking water disinfectant by-products. Serves as reviewer for selected human health risk assessments and develops risk assessment documents, methods/guidelines.

The applicant must have a Ph.D. or equivalent doctoral experience in toxicology or an appropriate discipline in the biological, medical or veterinary sciences and one year of specialized experience in a research position involving chemical dose response assessment for individual or multiple health effects.

Please submit a résumé, SF-171 or OF-612 (current and former Federal employees must submit a copy of their last SF-50) by June 30, 1997 to: **Jessie Hopkins, U.S. EPA, (Mail Code 3648) 401 M Street, S.W., Washington, D.C. 20460. Telephone: 202-260-2965.**

*EPA is an Equal Opportunity/Affirmative Action Employer.*

### GROWTH CONTROL AND CELL CYCLE REGULATION

The Laboratory of Biological Chemistry is searching for a tenure-track investigator to develop an independent research program in the area of cell cycle control and growth regulation, particularly as it relates to cellular stress and aging. Active research in the Laboratory includes a wide range of studies examining basic mechanisms of aging and age-related disease processes using *in vitro* and *in vivo* models. Candidates should possess a strong record of scientific accomplishment in the area as evidenced by quality peer-reviewed publications. Applicants should send a curriculum vitae, three letters of recommendation, a two-page statement of research interests and proposed research program, and select publications to: **Chair, LBC Search Committee, c/o Ms. Karen Maben, Personnel Office, National Institute on Aging, Gerontology Research Center, Box 26, 4940 Eastern Avenue, Baltimore, MD 21224.** The deadline for applications is June 30, 1997. *NIH is an Equal Opportunity Employer.*

### POSTDOCTORAL POSITIONS

Two funded postdoctoral positions are available to investigate the role of protein-RNA interactions in mammalian pre-mRNA 3' end processing and mRNA stability. Experience in molecular biology and/or biochemistry required. Send curriculum vitae and references to: **Dr. Jeffrey Wilusz, Department of Microbiology and Molecular Genetics, UMDNJ-New Jersey Medical School, MSB F607, 185 South Orange Avenue, Newark, NJ 07103. Email: [wilusz@umdnj.edu](mailto:wilusz@umdnj.edu).** *UMDNJ is an Affirmative Action/Equal Opportunity Employer, Minorities/Females/Disabled/Veterans, and a member of the University Health System of New Jersey.*

**POSTDOCTORAL POSITION** available beginning fall 1997 for studies on tyrosine phosphorylation and vesicular trafficking in neuroendocrine cells. Candidate must have documented background in molecular biology and/or cell biology. Experience with the two hybrid system and recombinant proteins is a plus. Send curriculum vitae and names of three references to: **Michele Solimena, M.D., Ph.D., Section of Endocrinology, Yale School of Medicine, P.O. Box 208020, New Haven, CT 06520-8020.** *An Equal Opportunity Employer.*

### UNIVERSITY OF MIAMI

**POSTDOCTORAL POSITION** funded by the NIH available immediately to study nuclear-mitochondrial interactions and the molecular pathogenesis of mtDNA mutations. Expertise in biochemistry, cell and molecular biology required. Send curriculum vitae and name and telephone of three references to: **Carlos T. Moraes, Ph.D., Department of Neurology, University of Miami, 1501 Northwest 9th Avenue, Miami, FL 33136; Email: [emoraes@mednet.med.miami.edu](mailto:emoraes@mednet.med.miami.edu)**

**WE'RE  
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## ***Research & Development***

*Glaxo Wellcome, the world's largest pharmaceutical company, is an organization committed to fighting disease and bringing innovative medicines to patients throughout the world. To accomplish this feat, we are on a constant journey of discovery—a journey fueled by consummate professionals dedicated to significant medical advances which improve the quality of life. If you would like to share our journey while testing the limits of your own potential, join us in the following opening at our Corporate Headquarters located in Research Triangle Park, N.C.*

### **RESEARCH INVESTIGATOR Protein Crystallographer**

As a key member of our Structural Chemistry Department, the selected individual will be responsible for all aspects of protein crystallography, including the use of structural information for drug discovery. Fundamental research opportunities exist in kinases, proteases and nuclear receptors.

This position requires a Ph.D. in Protein Crystallography, or a related area, with a minimum of 3 years experience in structure determination using protein crystallography. Experience in protein crystallization, optimizing protein crystals, analysis of diffraction data, and crystallographic structure determination and refinement is required. Experience in sub-cloning, protein expression and protein purification is desirable.

In exchange for your considerable skills, we offer an excellent salary and benefits package. In addition, you'll enjoy the energy and excitement of working in Research Triangle Park, the world's largest planned research center. Our beautiful North Carolina location offers a vast array of cultural, recreational, and entertainment opportunities. For confidential consideration, send your resume, which must include position title, salary history and the names of three scientists that may be contacted for letters of reference to: Human Resources Department, Job #ASC3329-1, 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.

# **GlaxoWellcome**

*You'll Learn, You'll Create, You'll Discover*

## **NATIONAL CANCER INSTITUTE NATIONAL INSTITUTES OF HEALTH, PUBLIC HEALTH SERVICE CANCER PREVENTION FELLOWSHIP PROGRAM**

The Division of Cancer Prevention and Control (DCPC), NCI, is accepting applications for the Cancer Prevention Fellowship Program (CPFP). The purpose of the program is to train individuals from a multiplicity of health science disciplines in the field of cancer prevention and control. The program provides for: Master of Public Health training (at accredited one year university programs); Participation in the DCPC Cancer Prevention and Control Academic Summer Course (open to physicians and scientists interested in specialized instruction on the principles and practice of cancer prevention and control); Working at DCPC directly with individual preceptors on cancer prevention and control projects; Brief field assignments in cancer prevention and control programs at other institutions. Funding permitting, Fellows will be accepted for up to three years of training, beginning July 1, 1998. Benefits include selected relocation and travel expenses, paid federal holidays, and participatory health insurance.

### **ELIGIBILITY**

M.D., D.D.S., or D.O. from a U.S., territorial, or Canadian Medical School. Foreign medical graduates must have current USMLE or ECFMG certification and appropriate experience, e.g., one year residency in a training program approved by the Accreditation Council for Graduate Medical Education.

### **OR**

Ph.D. or other doctoral degree in a related discipline (epidemiology, biostatistics, and the biomedical, nutritional, public health or behavioral sciences). Foreign education must be comparable to that received in accredited U.S., territorial, or Canadian institutions.

### **PLUS**

The applicant must be a citizen or resident alien of the United States eligible for citizenship within four years. For details and an application catalog either call, fax, e-mail, or send a postcard or letter with your name, home address, and where you heard about the program to:

**Douglas L. Weed, M.D., M.P.H., Ph.D.**

**Director**

**Cancer Prevention Fellowship Program  
Division of Cancer Prevention and Control  
National Cancer Institute**

**Executive Plaza South, Suite T-41  
6130 Executive Blvd. MSC 7105  
Bethesda, MD 20892-7105**

**Further Inquiries: Mrs. Barbara Redding  
Telephone (301) 496-8640**

**Fax (301) 402-4863**

**Email [reddingb@dcpcpn.nci.nih.gov](mailto:reddingb@dcpcpn.nci.nih.gov)**

**Deadline for receipt of applications: September 1, 1997**

*NIH is an Equal Opportunity Employer*

## POSITIONS OPEN

A POSTDOCTORAL POSITION is available to develop a papilloma vaccine. Send curriculum vitae and names of three references to: **Dr. Liang Qiao, Loyola University Medical Center, Department of Microbiology and Immunology, 2160 South First Avenue, Maywood, IL 60153. FAX: 708-216-1196; Email: lqiao@luc.edu.**

### POSTDOCTORAL FELLOWSHIP IN PLANT SIGNAL TRANSDUCTION WAKSMAN INSTITUTE, RUTGERS UNIVERSITY

A postdoctoral research position is available to study signal transduction during induction of disease resistance to viral infections of tobacco and *Arabidopsis*. Genetic, molecular, and biochemical approaches are being utilized. Emphasis is being placed on defining components of these pathways, particularly the salicylic acid-mediated signaling pathway (PNAS, 93:14972, 1996; Plant Cell, 9:809, 1997; Plant J., 11:747, 1997; Plant Physiol., 113:1319, 1997; Genes & Dev., [July], 1997).

Applicants should have research experience in genetics, molecular biology and/or biochemistry. Send a curriculum vitae and a cover letter detailing experience and have three letters of recommendation sent to: **Daniel Klessig, Waksman Institute, Rutgers University, P.O. Box 759, Piscataway, NJ 08855.**

Rutgers University is an Equal Opportunity/Affirmative Action Employer.

### POSTDOCTORAL RESEARCH POSITION: COMPUTATIONAL BIOCHEMISTRY/ MOLECULAR BIOPHYSICS

Inquiries are invited from qualified applicants for a postdoctoral research position in the area of computational biochemistry and molecular biophysics, emphasizing molecular dynamics studies of nucleic acid structure and motions and protein-nucleic acid interactions.

**Professor D.L. Beveridge**  
Chemistry Department and  
Molecular Biophysics Program  
Wesleyan University  
Middletown, CT 06459

Email: [dbeveridge@wesleyan.edu](mailto:dbeveridge@wesleyan.edu). Website: <http://prophet.chem.wesleyan.edu/chem/bios/DLB.html>.  
Wesleyan University is an Equal Opportunity Employer.

**POSTDOCTORAL POSITIONS.** NIH-funded, available July 1 for three molecular biologists/biochemists to join an expanding laboratory. One project is to develop a transgenic mouse model, two others to study signal transduction and cdk inhibitors in colon carcinoma cells (J. Biol. Chem., 271:11422-11426, 1996; *ibid.* 269:13231-13237; CG&D, 6:1635-1642, 1995). Salary and benefits very competitive and based on relevant experience. Send curriculum vitae and the names and phone numbers of three references to: **Dr. Eileen Friedman, Jones/Rohrer Professor of Experimental Pathology c/o Mr. Gregg DeMetri, Personnel Department, SUNY Health Science Center at Syracuse, 750 East Adams Street, Syracuse, New York 13210. An Affirmative Action/Equal Employment Opportunity/American with Disabilities Act Employer, committed to excellence through diversity.**

**POSTDOCTORAL POSITION** available immediately to study the neurobiological mechanisms of long-term potentiation (LTP) of *Aplysia* synapses. Ph.D. required. Applicants should have experience with one or more of the following techniques: whole-cell/intracellular electrophysiological recording; *in vitro* cell culturing; fluorescent imaging of calcium signals. Send curriculum vitae and three letters of reference to: **David L. Glanzman, Ph.D., Department of Physiological Science, UCLA, Los Angeles, CA 90095-1568. FAX: 310-825-6616; Email: dglanzman@physci.ucla.edu.**

**POSTDOCTORAL POSITION** available immediately to perform translational research investigating nuclear matrix proteins, serum proteins, and cellular protein components as markers of malignant potential in genitourinary malignancy. Ph.D. required. Background in protein chemistry required. Please send curriculum vitae and three letters of reference to: **Alan W. Partin, M.D., Ph.D., Associate Professor of Urology, The Department of Urology, The Johns Hopkins Hospital, Baltimore, MD 21287. FAX: 410-614-8096. NIH funding: U.S. Citizenship or proof of Green Card required.**

## POSITIONS OPEN

### MOLECULAR BIOLOGY OF LYMPHOMAS AND LEUKEMIAS LOUIS M. STAUDT, M.D., PH.D.

Two POSTDOCTORAL positions are available to study basic aspects of human lymphoid malignancies. One focus is on the pathogenesis of non-Hodgkin's lymphomas caused by the BCL-6 oncogene. We have recently shown, using a BCL-6 mutant mouse, that BCL-6 regulates cytokine expression, inflammation, and germinal center formation and can interfere with cytokine signaling by blocking signaling through the Stat transcription factors (Science, 276:589, 1997). These insights into BCL-6 function will be used to study malignant transformation of B lymphocytes by BCL-6. A second goal is to study gene expression in lymphoid malignancies using cDNA microarrays to analyze thousands of genes in parallel (Nature Genet., 14:457, 1996). Gene expression patterns in lymphomas and leukemias will help to identify the normal cell counterpart of the malignancy, differentiate subtypes of lymphoid malignancies and elucidate the molecular basis for non-responsiveness to chemotherapy. Highly motivated individuals with a strong background in molecular biology and/or immunology and with five years or less of postdoctoral experience are encouraged to apply. Please send curriculum vitae plus names and telephone numbers of three references to: **Louis M. Staudt, M.D., Ph.D., Metabolism Branch, NCI, Building 10, Room 4N-114, National Institutes of Health, 9000 Rockville Pike, Bethesda, MD 20892. NIH is an Equal Opportunity Employer.**

### POSTDOCTORAL POSITION DEPARTMENT OF HUMAN GENETICS

Mount Sinai School of Medicine has a position available immediately to investigate the functions of thyroid hormone receptors in the developing auditory system, brain, and endocrine system (see EMBO J., 15:3006; Nat. Genet. 13: 354, 1996). The project concerns phenotypic characterization of receptor-deficient knock-out mice and the identification of novel target genes regulated by these receptors. Experience with molecular biology and/or transgenic mice is desirable but not essential.

Interested individuals are encouraged to forward curriculum vitae and the names and addresses of three references to: **Dr. Douglas Forrest, Department of Human Genetics, Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574.** Informal inquiries can contact: 212-241-1539, or Email: [dforrest@msvax.mssm.edu](mailto:dforrest@msvax.mssm.edu). An Equal Opportunity Employer. We foster diversity in the workplace.

### POSTDOCTORAL FELLOW

The Jackson Foundation is in need of a POSTDOCTORAL FELLOW in the molecular virology position located in the laboratory of **Dr. Christopher C. Broder** at the Uniformed Services University of Health Sciences. Current studies focus on virus glycoprotein-receptor Interactions (HIV/SIV) and membrane fusion processes. Reviewed in Pathobiology 64:171, 1996. Experience in molecular biology and biochemistry required. Send cover letter, résumé and telephone numbers of three references to: **HJF, HR Department, Attn: PL2970081, 1401 Rockville Pike, Suite 600, Rockville, MD 20852. Email: [hr@mail.hjfi.org](mailto:hr@mail.hjfi.org) (send in unencoded ASCII text); FAX: 301-738-8725. Affirmative Action/Equal Opportunity Employer.**

**POSTDOCTORAL** research positions are available for a period of two years for studying the cellular and molecular mechanisms of actions of alcohol and estrogen on neuroendocrine cell growth and differentiation. Experience with molecular techniques and cell cultures is required. Send curriculum vitae and three letters of reference to: **Dr. Dipak K. Sarkar, Department of VCAPP, Washington State University, College of Veterinary Medicine, Pullman, WA 99164-6520, FAX: 509-335-4650. Email: [sarkar@vetmed.wsu.edu](mailto:sarkar@vetmed.wsu.edu). Washington State University is an Affirmative Action/Equal Opportunity Employer.**

**POSTDOCTORAL POSITION** available to study the structural biology of folate-dependent enzymes. Techniques may include site-directed mutagenesis, transient phase kinetic analysis, and physical methods of structure determination. Curriculum vitae and references to: **G. Peter Beardsley, Ph.D., M.D., Department of Pediatrics, Yale University School of Medicine, P.O. Box 208064, New Haven, CT 06520-8064. Women and minorities are encouraged to apply. Yale University is an Affirmative Action/Equal Opportunity Employer.**

## POSITIONS OPEN

### POSTDOCTORAL RESEARCH ASSOCIATE IN ECOLOGICAL/EVOLUTIONARY MOLECULAR BIOLOGY Mountain Research Center Montana State University, Bozeman

Collaborate on genetic aspects of research addressing questions about gene flow and morphological change in response to climate change. Ph.D. in molecular biology or related field; experience in DNA bench work; demonstrated excellence in research required. Prefer experience with ancient DNA and/or computational approaches. \$29,000/year, at least one year duration. Submit curriculum vitae, three letters of reference, reprints of relevant publications, and letter explaining research interests and relevance to this position to: **Molecular Biology Postdoctoral Committee, Mountain Research Center, Box 173490, Montana State University, Bozeman, MT 59717-3490. Screening begins 6/20/97. [www.mrc.montana.edu](http://www.mrc.montana.edu) for details. ADA/Equal Opportunity/Affirmative Action/Veterans Preference.**

### PRE- AND POSTDOCTORAL POSITIONS UNIVERSITY OF MARYLAND, BALTIMORE

The Interdisciplinary Program in Muscle Biology has funded positions for training in biophysics, biochemistry, physiology biomechanics and cellular, developmental and molecular biology of skeletal, cardiac and smooth muscle.

Postdoctoral applicants should Email their letter of interest, curriculum vitae, and list of references to: **kreineck@umabnet.ab.umd.edu**. Predoctoral candidates should request an application via Email. NIH-National Institute of Arthritis and Musculoskeletal and Skin Diseases funded positions are available for U.S. citizens and permanent residents; other support may be available for non-residents.

Further information is available at <http://som1.ab.umd.edu/muscle/home.html> or contact: **Dr. Martin Schneider, Program in Muscle Biology, University of Maryland at Baltimore, 108 North Greene Street, Baltimore, MD 21201. The University of Maryland is an Equal Opportunity Educator and Employer.**

### POSTDOCTORAL POSITION DEPARTMENT OF CELL BIOLOGY AND ANATOMY

A postdoctoral position is available immediately to study active transport of proteins in *Chlamydomonas* flagella by using cellular and molecular biology approaches. Details of our work can be found in recent publications, such as: J. Cell Biol., 133:371-379, 1996; Proc. Natl. Acad. Sci. USA, 94:4457-4462, 1997. The salary is competitive and will be supplemented for fellows achieving external peer-reviewed funding.

Please send curriculum vitae and three references to: **Gianni Piperno, Department of Cell Biology and Anatomy, Box 1007, Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574. Email: [piperno@msvax.mssm.edu](mailto:piperno@msvax.mssm.edu). An Equal Opportunity Employer.**

**A POSTDOCTORAL OR RESEARCH FELLOW** position is available in the Microcirculation Laboratory at Washington University. The applicant will participate in an ongoing research of hypoxia/reoxygenation on cerebrovascular regulation. Techniques used in this project consist of video- and fluorescence microscopy, electrophysiology, ion sensitive dyes, and immunohistochemistry.

Good technical and writing skills are essential. Applicants should send a résumé and three letters of reference to: **Hans H. Dietrich, Ph.D., Research Associate, Department of Neurological Surgery, Washington University School of Medicine, Campus Box 8057, 660 South Euclid Avenue, St. Louis, MO 63110.**

Washington University is an Equal Opportunity/Affirmative Action Compliance Employer.

Immediate opening for **POSTDOCTORAL POSITION** to study the molecular neurobiology of nicotine addiction. Qualifications include Ph.D. in pharmacology or related field, with experience in ligand binding assays and molecular biology techniques. Send curriculum vitae, summary of research experience, and names, addresses, and telephone numbers of three references by July 1, 1997 to: **Dr. Sherry Leonard, Department of Psychiatry, Campus Box C-268-71, University of Colorado Health Sciences Center, 4200 East Ninth Avenue, Denver, CO 80262. Email: [sherry.leonard@uchsc.edu](mailto:sherry.leonard@uchsc.edu). UCHSC is an Equal Opportunity/Affirmative Action Employer.**





## SCIENTIFIC ADVISOR/ PATENT AGENT

Rhône-Poulenc Rorer is a leading pharmaceutical company located in the Philadelphia metropolitan area. We are currently seeking a Scientific Advisor/Patent Agent to provide scientific technical assistance to our biotechnology group. Duties will include: assisting Patent Counsel/Agents with all aspects of patent process; conducting and analyzing literature searches for the Biotech sector to help plan business strategy; and reviewing proposed research biotech papers for impact on patent estate. To qualify, you should have an M.S. or Ph.D. related to gene therapy or an allied area such as molecular biology, virology, molecular neuroscience, molecular immunology, and genetics. Five to ten years of research experience (including graduate school) along with the ability to pass PTO Registration examination within a year of employment are required. Current PTO Registration and/or patent experience is highly desirable. Rhône-Poulenc Rorer offers a competitive salary, excellent benefits, a highly challenging work environment, and opportunities for advancement. Qualified candidates should send their resume to: **Rhône-Poulenc Rorer, Human Resources, Mailstop 3A53-SAPA, P.O. Box 5093, Collegeville, PA 19426-0997.** Equal Opportunity Employer, M/F/D/V. No Phone Calls. Principals Only.

## Postdoctoral Scientist Capillary Electrophoresis/ Microchip Technology

The R.W. Johnson Pharmaceutical Research Institute (RWJPR), part of the Johnson & Johnson family of companies, conducts a wide range of R&D activities in support of J&J's pharmaceutical business units. We have many exciting new products in the pipeline, creating this exceptional analytical development opportunity in Raritan, NJ (midway between NYC and Philadelphia).

If selected, you will work on the development of high-throughput analytical methods utilizing capillary electrophoresis/microchip technology. The qualified candidate will possess a Ph.D. or equivalent education and experience in Biochemistry, Analytical Chemistry or a related area.

Expertise in capillary electrophoresis is required. Working knowledge of microchip technology and detection systems is a plus. Position is available for one year with the possibility of renewal for a second year.

Send a brief description of research interests, curriculum vitae, and the names and telephone numbers of three references to: Dept. #1360, Johnson & Johnson Recruiting, PO Box 16597, New Brunswick, NJ 08906-6597. We are an equal opportunity employer and support diversity in the work place. For more information or to submit your resume electronically, visit our website at [www.jnj.com](http://www.jnj.com).



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### RESEARCH ASSOCIATES Physiology

- Job Code: REF# PHY4 - Individual will be responsible for designing and performing physiological experiments in a laboratory setting with minimum supervision. Requires BS in biological sciences or Master's degree, with 2-5 years' experience in a laboratory setting. Small animal surgery experience required. Knowledge of word processing/spreadsheets for PC's essential.
- Job Code: REF# PHY5 - Individual will be responsible for conducting in-vitro and in-vivo studies with metabolic disease models. Will help design/execute experiments using cell culture, biochemical and in-vivo techniques. BS in life sciences along with experience in cell culture, small animal surgery and basic biochemical techniques is required. Metabolic/cardiovascular research a plus. PC proficiency in data analysis required.

We offer an attractive compensation plan and an impressive benefits package, including stock option participation and 401k. For immediate consideration, please send your resume to: HR-JG, Job Code, Amylin Pharmaceuticals, Inc., 9373 Towne Centre Drive, San Diego, CA 92121. For more information, please visit our Web site: <http://www.amylin.com> EOE



## St. Jude Children's Research Hospital

ALSAC • Danny Thomas, Founder

An NCI-funded postdoctoral position is available to participate in studies on signal transduction pathways activated by G-protein coupled neurotrophin receptors in astrocytic brain tumors. The role of substance P and bombesin-like neurotrophin receptors in enhancing the proliferation of brain tumor derived cells is being investigated using biochemical, pharmacological, and molecular approaches (see Luo, W., Sharif, T. R., and Sharif, M. Cancer Research 56: 4983-4991, 1996). Candidates should have a strong research experience and preferably a recent Ph.D. in Molecular Biology, Cell Biology, Neuroscience, or related fields. Strong interest in astrocytic brain tumor biology and research is a plus.

St. Jude Children's Research Hospital (Danny Thomas, Founder) is an outstanding research center for biomedical research and provides an exceptional environment for scientific achievement and career development. Send a letter of interest, curriculum vitae and names of three references to: **Dr. Mohammed Sharif, Dept. of Molecular Pharmacology, St. Jude Children's Research Hospital, 332 N. Lauderdale, Memphis, TN 38105. Fax: (901) 521-1668.**

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## POSITIONS OPEN

### POSTDOCTORAL POSITIONS MOLECULAR ONCOLOGY/VIROLOGY

Positions available in the well-funded laboratory involved in molecular characterization of the new cancer virus. Postdoctoral candidate should be zero to three years after obtaining Ph.D. in molecular biology/virology and have documented experience with PCR and gene cloning. Experience with retroviral genomes preferred. Knowledge of the GeneBank programs required.

Send curriculum vitae and three references to: **Dr. Eva Rakowicz-Szulczynska, Associate Professor, Department of OB/GYN, University of Nebraska Eppley Cancer Center, 600 South 42nd Street, Omaha, NE 68198-3255. Telephone: 402-559-6157, FAX: 402-559-8112.**

### GRADUATE RESEARCH ASSISTANTSHIPS AND POSTDOCTORAL RESEARCH POSITIONS

Four predoctoral graduate assistantships (each \$15,000 per annum plus fees) and two postdoctoral positions (each \$29,000 per annum), to be filled by July 1997. Initiative centers on Environmental and Evolutionary Biology doctoral program: focus on systematics, population genetics, biogeography, or community ecology of marine macroalgae and decapod crustaceans, collaborating with Felder, Frederica, Lemaitre, Neigel, Norris, Rabalais, or Rozas (website: <http://www.usl.edu/Departments/Biology/index.html>). Address inquiries to: **Dr. D.L. Felder, Department of Biology, University of Southwestern Louisiana, Lafayette, LA 70504; Email: dlf4517@usl.edu; Telephone: 318-482-6753.** An Equal Opportunity Employer.

**POSTDOCTORAL FELLOW.** The Yale Child Study Center invites applications for a position of Postdoctoral Fellow to investigate homeobox gene expression in the forebrain. We are focusing on the hypothalamus and related areas of the limbic system and are interested in neuroendocrine correlates of homeobox gene expression. Candidates must have an M.D. and have completed their specialty training or a Ph.D. in neurobiology, human genetics, molecular biology, or similar discipline. Positions are available for 24 months, beginning immediately. Send curriculum vitae and three letters of reference to: **Flora Vaccarino, M.D., Yale University, Child Study Center, P.O. Box 207900, New Haven, CT 06520-7900.**

The Cedars-Sinai Burns and Allen Research Institute has a **POSTDOCTORAL POSITION** available immediately to study mechanisms of CNS regeneration. Studies range from molecular biology experiments investigating gene regulation to animal experiments using CNS injury and neurodegenerative disease models. Experience in molecular biology and cellular techniques is desirable. Please mail or FAX curriculum vitae, names of three references, and a brief description of your research experience to: **Dr. T. Neuman, Department of Surgery, Cedars-Sinai Medical Center, Davis Building, Room 4018, 8700 Beverly Boulevard, Los Angeles, CA 90048. FAX: 310-652-7168.**

**POSTDOCTORAL POSITIONS:** 1) Senior/Genomics of RNA/Molecular Biologist with Unix experience. Project deals with experimental validation of RNA motifs. [TIBS, 22:115, 1997]. 2) *In vivo* ribozymology/Biochemist with RNA and cell culture experience. Investigation of factors influencing the activity of ribozymes. [JBC, 271:19318, 1996; Nature Biotech., 15:432, 1997]. Selections to be made between June 1 and August 15 to start from September 1 to November 15. Only applicants whose curriculum vitae clearly shows the required profile will be contacted. **Robert Cedergren, Département de biochimie, Université de Montréal, Québec Canada H3C 3J7. Email: ceder@bch.umontreal.ca.**

### POSTDOCTORAL MICROBIOLOGIST

USDA, Agricultural Research Service, National Animal Disease Center, Ames, IA, has an opening for a **MICROBIOLOGIST** (Postdoctoral Research Associate) to study molecular biology of pseudorabies virus. Candidate will investigate mechanisms of herpesvirus latency. Ph.D. degree required. Appointment is for two years and includes benefits. Send curriculum vitae and names of three references to: **Dr. Andrew Cheung, USDA-ARS-NADC, PO Box 70, Ames, IA 50010; FAX: 515-239-8458.** Applications accepted until position is filled. USDA/ARS is an Equal Opportunity Employer.

## POSITIONS OPEN

### POSTDOCTORAL FELLOW— RESEARCH ASSOCIATE

Position is available to study mechanisms of transcription regulation by protooncogene transcription factors. The laboratory is investigating the molecular architecture and regulatory functions of transcription factor complexes. We are particularly interested in protein-induced changes in DNA structure and the assembly and function of multiprotein regulatory complexes. Our studies focus on transcription factors that play important roles in the regulation of genes in the immune system. The successful applicant will have training in biochemistry or molecular biology and a record of productivity in research. We offer an interactive work environment in a multidisciplinary research team. For recent publications from the laboratory, see *PNAS*, 94:4913, 1997, *EMBO*, 16:2907, 1997, and *EMBO*, 16:2917, 1997. Please send your application with curriculum vitae and the names of three references to: **Dr. Tom Kerppola, Department of Biological Chemistry, University of Michigan School of Medicine, 1150 West Medical Center Drive, Ann Arbor, MI 48109-0650. Email: kerppola@umich.edu. Website: www.med.umich.edu/biochem/all.faculty/kerppola.html. Equal Opportunity Employer.**

### POSTDOCTORAL FELLOW MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Multidisciplinary research laboratory is seeking highly motivated Ph.D.s with experience in cellular and molecular biology techniques to study aspects of growth factor-receptor interactions leading to signal transduction. Experience in receptor biochemistry and *in vivo* models is desirable. Send curriculum vitae, summary of research experience and interests, and three letters of recommendation to: **Prof. Ram Sasisekharan, Whitaker College of Health Sciences and Technology, E18-568, Massachusetts Institute of Technology, 50 Ames Street, Cambridge, MA 02139. Fax: 617-258-9409; Email: ramnat@mit.edu.**

### INDUSTRIAL POSTDOCTORAL POSITION

AuRx, a new biotechnology company, has an industrial postdoctoral position available immediately to study expression, function, and structure of novel genes involved in development and carcinogenesis. Complementary research at a nearby university has NIH funding. A background in cell and molecular biology and gene cloning is required with experience in immunological techniques and animal studies a strong plus. Send curriculum vitae to: **Dr. L. Aurelian, AuRx, Inc., 5331 Landing Road, Elkridge, MD 21227.**

The Texas Heart Institute has an opening for a **POSTDOCTORAL POSITION** in its newly established Gene Therapy Research Program. Research will focus on cell cycle regulation and cardiovascular gene therapy. Send curriculum vitae and two letters of recommendation to: **Pierre Zoldhelyi, M.D., Director, Gene Therapy Research, Texas Heart Institute MC 2-255, 1101 Bates Street, Houston, Texas 77030. Email: zoldhelyi@neosoft.com. The Texas Heart Institute is an Equal Opportunity/Affirmative Action Employer.**

### PENN SCHOOL OF MEDICINE

**POSTDOCTORAL/RESEARCH ASSOCIATES** to join group studying RNA-protein interactions that control translation, meiosis, and mRNA localization, knockout mouse models leading to infertility, and structure-based drug design for contraception. Send curriculum vitae and names and addresses of three references to: **Norman Hecht, Department of Biology, Tufts University, Medford, MA 02155.**

**POSTDOCTORAL POSITION** available after July 1, 1997 to construct a computational neural network model of multisensory integration in the superior colliculus. Background in systems neuroscience and experience in computer programming preferred. Send curriculum vitae, summary of relevant experience, and three letters of reference to: **Dr. Thomas J. Anastasio, University of Illinois, Beckman Institute, 405 North Mathews Avenue, Urbana, IL 61801; FAX: 217-244-5180; Email: tstanio@uiuc.edu.**

## POSITIONS OPEN

### POSTDOCTORAL POSITIONS PRINCETON UNIVERSITY

Postdoctoral positions are available to study molecular and neural mechanisms of learning and behavior in mouse using a variety of modern techniques including our newly established brain sub-region- and cell type-specific gene knockout method (see reference: *Cell*, 87:1317-1326, 87:1327-1338, and 87:1339-1349, 1996). Talented and highly motivated applicants with Ph.D. or M.D. degree should have solid training in one of the following areas: Biochemical and molecular biology (experience with 2-D gel, two-hybrid system, differential or subtractive screening is a plus), transgenic/gene knockout, slice electrophysiology or animal learning behavior. Please send curriculum vitae, summary of research experience, and three references to:

**Dr. Joe Z. Tsien  
Department of Molecular Biology  
Princeton University  
Princeton, NJ 08544, USA**

### POSTDOCTORAL/RESEARCH ASSOCIATE POSITION UNIVERSITY OF MINNESOTA DEPARTMENT OF LABORATORY MEDICINE AND PATHOLOGY

A full-time annually renewable position at rank of **RESEARCH ASSOCIATE** is available approximately August 1, 1997. This individual will study cell adhesion/signaling molecules in tumors and leukocytes. These projects focus on the role of cytokines and extracellular matrix proteins on cell adhesion, migration and invasion. Minimum requirements are a Ph.D. in molecular or cell biology with at least three years of postdoctoral training. Applicants should have expertise in recombinant DNA techniques, tissue culture and protein chemistry and be highly motivated with solid written and oral communication skills.

Two postdoctoral positions are available immediately to work on the above described projects. The positions are for two to three years.

Please send curriculum vitae along with research interests and the names of three references to:

**Research Associate/Postdoctoral Associate Searches  
c/o Marilyn Green  
University of Minnesota  
Department of Laboratory Medicine and Pathology  
Box 609 Mayo Building  
420 Delaware Street  
Minneapolis, MN 55455**

or respond directly to: **Prof. James McCarthy, Email: mccar001@maroon.tc.umn.edu.**

The University of Minnesota is an Equal Opportunity Educator and Employer.

### POSTDOCTORAL POSITION VANDERBILT UNIVERSITY MEDICAL CENTER

Individual sought to immediately fill postdoctoral position at Vanderbilt University Medical Center. Areas of investigation will include the molecular biology of NF- $\kappa$ B/Rel transcription factors and their role in T-cell homeostasis and development (*MCB*, 16:5974, 1996; *Immunity*, 5:1, 1996; *JEM*, 185, in press). Minimum requirements include M.D. and/or Ph.D. degree(s) and significant research experience in eukaryotic gene expression, recombinant DNA techniques, and transgenic systems.

Please send your résumé with the names and addresses of three references to: **Dean W. Ballard, Ph.D., c/o Julie Morris, Vanderbilt University Medical Center, 802 Light Hall, Nashville, TN 37232-0295. Equal Opportunity Employer.**

**POSTDOCTORAL POSITION** available immediately to study changes in dopamine and serotonin transporter function following continuous cocaine administration. Ph.D. with experience conducting receptor and transporter binding assays is required. *Must be a U.S. citizen or permanent resident.* Send vitae, a summary of research experience, three reprints, and the names and addresses of three references to: **George R. King, Ph.D., Department of Psychiatry, Duke University Medical Center, Box 3870, Durham, NC 27710. Equal Opportunity Employer.**

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Emphasizing a multi-disciplinary approach to psychiatric-related drug discovery, you will perform experimental studies and develop cell and molecule-based assays for compound screening. To qualify, you must have a BS/MS in Neuroscience, Pharmacology, Molecular Biology or related life science discipline with 3-7 years' lab experience. A background in one or more of the following is required: receptor binding, second messenger system, cell culture and/or biochemical assays.

Join the dedicated professionals at Parke-Davis and enjoy a new level of research freedom, competitive salaries, benefits and career growth potential. For consideration, mail, fax or e-mail resume\* and cover letter to: **Parke-Davis Pharmaceutical Research, Human Resources Department, Job Code LJB-97152, 2800 Plymouth Road, Ann Arbor, MI 48105. Fax: (313) 998-3394. Email: resume@aa.wl.com.**



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\*Submit resume on laser-quality white paper, with legible 10 pt or larger type, and avoid boldface, italics, borders, etc.

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## Director, Center for cognitive and behavioral neuroscience

Stony Brook is seeking a Director for a newly developed Center for cognitive and behavioral neuroscience. The Center's program will be interdisciplinary, and involve faculty from both the College of Arts and Sciences and the School of Medicine. The Center will enhance and integrate the existing strengths in neuroscience of various departments (e.g. Psychology, Neurobiology and Behavior, Psychiatry). A number of tenure-track faculty lines, in addition to the Director's, will be devoted to its further development.

The Director's position will be a senior, tenured faculty appointment. We seek an outstanding scientist with an excellent track record of research involving the study of the nervous system and its relationship to cognition/behavior. We expect the Director to maintain a vigorous, productive, and independently-funded research program. The Director will use her/his leadership and administrative skills to promote further development of the Center at the faculty, graduate, and undergraduate levels.

Applications and nominations, curriculum vitae, and the names, addresses and telephone numbers of at least three references should be submitted to: Janos Kirz, Chair, Search Committee, Director, Center for cognitive and behavioral neuroscience, Office of the Provost, SUNY Stony Brook, Stony Brook, NY 11794-1401. Review of applications will begin June 1, 1997. For further information, try our WEB page at: <http://www.sunysb.edu/provost/bns/dir.html> An AA/EO employer.



STATE UNIVERSITY OF NEW YORK

## NATIONAL CANCER INSTITUTE, NIH DIVISION OF CANCER BIOLOGY

### CANCER BIOLOGY BRANCH

### CANCER IMMUNOLOGY BRANCH

Opening Date: May 26, 1997

Closing Date: June 23, 1997

The Division of Cancer Biology (DCB), National Cancer Institute (NCI) is currently recruiting for two Program Director positions which may be filled in the following series and grades: GS-401 (Biologist); 403 (Microbiologist); 601 (Health Science Administrator); or 1320 (Chemist) - 13/14. Maximum promotion potential for both positions is GS-14. See below for announcement numbers.

The DCB, NCI plans, manages, coordinates and evaluates a grant and contract-supported program of extramural basic and applied research on cancer etiology, immunology, genetics and biology; establishes the priorities and allocates the resources for support of research; and advises the Institute Director on opportunities and needs for extramural research in cancer etiology, biology and associated areas of science.

**#CA 97-2505 - Program Director, Cancer Biology Branch (CBB)** will be responsible for the scientific and administrative management of a large research grants program supporting cancer research in the molecular biology of cancer cells. Plans, analyzes, develops, reviews and evaluates research projects which focus on this area of biology, and monitors and evaluates scientific trends and progress in the field. Identifies opportunities in areas of molecular biology where increased research emphasis might produce new knowledge of relevance to cancer prevention, diagnosis, and treatment. Advises the Chief, CBB; CBB staff; applicants; grantees; and others on issues requiring scientific judgement, knowledge of molecular biology research, interpretation of grant and contract policies and processes at the NIH, and content and thrusts of the CBB.

**#CA 97-2506 - Program Director, Cancer Immunology Branch (CIB)** will be responsible for the scientific and administrative management of a large research grants program in hematology/immunology, which supports cancer research focusing on molecular mechanisms involved in the development and activation of all of the hematopoietic cell lineages, and the growth of malignant cells of the immune system. Plans, analyzes, develops, reviews and evaluates research projects which focus on this area of biology, and monitors and evaluates scientific trends and progress in the field. Identifies opportunities in areas of cancer immunology where increased research emphasis might produce new knowledge of relevance to cancer prevention, diagnosis, and treatment. Advises the Chief, CIB; CIB staff; applicants; grantees; and others on problems requiring scientific judgement, knowledge of immunology research, interpretation of grant and contract policies and processes at the NIH, and content and thrusts of the CIB.

Salary ranges from \$54,629 - \$83,922 per annum. Benefits: Health and life insurance options, retirement, paid holidays, vacation and sick leave. Salary includes locality pay.

**BASIC QUALIFICATIONS:** U.S. citizenship is required. Applicants must meet the basic experience and educational qualification requirements for U.S. government Biologist, Microbiologist, Health Science Administrator, or Chemist positions. In order for us to validate your qualifications, it is mandatory that you submit the following with your resume or application: **A.** A college transcript or a course list which includes grades and semester hours received per course; **B.** A current curriculum vitae; and **C.** A description of your proficiency in the following Knowledge, Skills or Abilities (KSAs): **1)** Knowledge of the relevant area of science; **2)** Ability to plan and develop a successful research program; **3)** Ability to establish and maintain professional relationships with scientists in academia, industry and government; **4)** Ability to manage multiple work tasks and set appropriate priorities; **5)** Ability to communicate scientific information orally; and **6)** Ability to communicate scientific information in writing.

**APPLICATION PROCEDURES:** The NCI recruitment bulletin for each position contains complete application procedures and lists all mandatory information which you must submit in your application. To obtain the recruiting bulletin for either position, call 1-800-728-JOBS (for local calls, 301-594-2953). When prompted, enter the "Fax ID Number" 1897 for CA 97-2505; enter 1898 for CA 97-2506. You will be prompted for your fax machine number. If you have any questions on qualification requirements or application procedures, or if you wish to obtain a position description or other information, please contact Mr. Kuong Tran, Personnel Management Assistant, NCI, at (301) 402-2812.

Please submit your resume, SF-171 Application for Federal Employment or OF-612 Optional Application Form by the closing date to Mr. Tran at:

**THE NATIONAL CANCER INSTITUTE**  
Personnel Management Branch, 6120 Executive Boulevard,  
Executive Plaza South, Room 550, Rockville, Maryland 20852

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## Postdoctoral Research at The Wistar Institute

The Wistar Institute, an independent research organization located on the campus of the University of Pennsylvania, currently seeks postdoctoral applicants.

**Postdoctoral Researcher** – Role of histone acetylation by the adaptor GCN5 in transcriptional activation. Studies include genetic and biochemical approaches both in *S. cerevisiae* and in humans, and focusing on a potential role of GCN5 in cancer. **Reply to Dr. Shelley L. Berger.**

**Postdoctoral Researcher** – Structural studies on viruses and viral proteins responsible for cell entry. Crystallographic training and some experience with molecular biology techniques. **Reply to Dr. Roger Burnett.**

**Postdoctoral Researcher** – Conduct molecular virology studies of herpes simplex virus latency utilizing a mouse model system. We are also studying the use of HSV in gene therapy and cancer therapy. **Reply to Dr. Nigel Fraser.**

**Postdoctoral Researcher** – Study the effects of simulated microgravity on growth and differentiation of cultured human vascular cells as well as on cardiovascular development in a murine model system. The candidate selected will participate in a Multidisciplinary Program on Cells, Tissues, and Mammalian Development headquartered at Wistar and encompassing the efforts of seven major labs at Wistar and the University of PA. **Reply to Dr. Elliot Levine.**

**Postdoctoral Researcher** – Study mechanisms of eukaryotic transcriptional activation and/or the regulation of Epstein-Barr virus latency. Candidates with a background in molecular biology, protein biochemistry, virology or yeast genetics are encouraged to apply. **Reply to Dr. Paul Lieberman.**

**Postdoctoral Researcher** – Early interaction of DNA viruses with nuclear structures to identify sites of interference. Characterization of identified nuclear deposition sites of viruses. Intracellular viral targeting mechanisms. Strong molecular-biological background and cell biological interest. **Reply to Dr. Gerd Maul.**

**Postdoctoral Researcher** – RNA editing of GluR ion channel gene transcripts in mammalian brain; the molecular mechanism and its relevance to neurological disorders such as Alzheimer's and epilepsy. Previous experience in molecular techniques required. Degree received within last three years preferred. *Mol. Cell. Biol.* 17:2413 (1997). *EMBO J.* 15:34 (1996). **Reply to Dr. Kazuko Nishikura.**

**Postdoctoral Researcher** – Biochemical characterization of the RNA polymerase II complexes in human cells by using a fully defined in vitro transcription system. We are also characterizing the connection of the basal transcription machinery to that of DNA repair. Motivated scientists with Ph.D. in any discipline of biological sciences with experience in molecular biological techniques and protein purification preferred. **Reply to Dr. Ramin Shiekhattar.**

**Postdoctoral Researcher** – Research focuses on understanding the function of Src-family tyrosine kinases using mice which lack specific Src kinases. Relevant systems currently under study include T cells, keratinocytes, and brain. Highly motivated individuals with experience in molecular biology/biochemistry preferred. **Reply to Dr. Paul Stein.**

Interested applicants are requested to send a C.V. and three references to the appropriate faculty member's attention: **THE WISTAR INSTITUTE, 3601 Spruce Street, Philadelphia, PA 19104.** Equal Opportunity Employer. Minority candidates are strongly encouraged to apply.



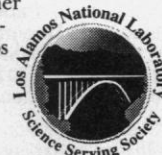
## Staff Member

### Center Leader

Los Alamos National Laboratory is searching for a science leader of outstanding stature to steward its key role in the international Human Genome Project. The successful applicant will direct the Center for Human Genome Studies, a U.S. Department of Energy (DOE) funded unit of DOE Joint Genome Institute. The director will coordinate with leaders in the DOE Joint Genome Institute from Lawrence Livermore and Lawrence Berkeley National Laboratories to establish and meet overall project priorities, technical directions, and long-term national goals. Will negotiate Los Alamos contributive tasks, roles, and budget within this structure and lead the Laboratory activities involving scientists and engineers from organizations across the Laboratory.

Requires an advanced degree in molecular genetics or closely related discipline or equivalent experience and demonstrated scientific publication record in genome-related disciplines, particularly in one or more of mapping and sequencing strategies and outcomes, functional genomics research, and bioinformatics research. To learn more about this position and Los Alamos National Laboratory, explore our web page: <http://www.hr.lanl.gov>. Job #972524-STB-97059.

For consideration, please submit a current resume and list of publications. Please e-mail your resume and other materials to: [jobs@lanl.gov](mailto:jobs@lanl.gov); or fax to: (505) 665-1079; or mail to Human Resources Division, Los Alamos National Laboratory, Job #, MS P286, Los Alamos, NM 87545. Note: appropriate job # must be inserted. EOE



*Still Making History*



### CORNELL CENTER OF VASCULAR BIOLOGY CORNELL UNIVERSITY MEDICAL COLLEGE PostDoctoral Fellows

(Salary range: \$19,000 - \$32,000 depending on experience)

Applications are invited for positions of postdoctoral fellows funded by the National Institutes of Health for 3 years to work with the following individuals in the newly created Center of Vascular Biology at Cornell Medical School. The Center is an interdisciplinary program of 22 basic scientists and clinicians. Those currently seeking fellows are as follows:

David P. Hajjar, Ph.D.: Lipoprotein trafficking and vascular signaling. Role of scavenger receptors in atherosclerotic "foam" cell formation.

Katherine A. Hajjar, M.D.: Fibrinolysis: studies on the control of annexin II expression at the gene level.

Timothy A. McCaffrey, Ph.D.: Acquired genetic mutations in cardiovascular disease.

Roy L. Silverstein, M.D.: Cell adhesion receptors and signaling in thrombo-atherosclerosis.

Steven S. Gross, Ph.D.: Biology and chemistry of nitric oxide and its related signaling pathways.

Barbara L. Hempstead, M.D., Ph.D.: Role of neurotropic growth factors in regulating vascular growth and vascular lesion formation.

Takashi Mikawa, Ph.D. and Donald A. Fischman, M.D.: Role of peptide growth factors in vasculogenesis.

Domenick J. Falcone, Ph.D.: Macrophage proteinase cascades and arterial tissue remodeling.

Candidates who are experienced in techniques in cell and molecular biology should send their full CV including names of three references to: **Professor David P. Hajjar, Director of the Center of Vascular Biology, Cornell University Medical College, 1300 York Avenue, New York, New York, 10021 USA.** Closing date: June 15, 1997

*Cornell University Medical College is an Equal Opportunity Employer.*

## EMBARK ON A CAREER OF SCIENTIFIC DISCOVERY.

At Parke-Davis Pharmaceutical Research Division of Warner-Lambert, our dedicated R&D professionals apply the best analytical, drug metabolism and pharmacokinetic skills to discover and develop new drugs. This commitment to helping patients around the world has made us an innovative leader in the international pharmaceutical industry. Currently, we're looking for skilled researchers to join our world-class team.

### DIRECTOR BIOANALYTICAL

The selected individual will lead formation of a bioanalytical section designed to quantitate drugs, metabolites, and biological markers of dynamic effect; direct departmental bioanalytical resources (HPLC, LC/MS/MS, immunoassay) for preclinical and clinical support, and manage interactions with contract laboratories. A Ph.D. degree in Chemistry or Analytical Chemistry

## PHARMACOKINETICS & DRUG METABOLISM

with 10 years or more experience of pharmaceutical analysis in biological matrices is required. Exceptional supervisory and interpersonal skills, and familiarity with GLP are essential. Job Code: TH-97117

### CONTRACT LABORATORY MANAGER

Taking primary responsibility for all contracted assays, you will select analytical sites for drugs, metabolites and biological/pharmacological markers and monitor the quality of external analytical information. A BS in Chemistry with 11-13 years' broad biological and quantitative experience or an MS with an 8-10 year background is required. Knowledge of a variety of analytical systems (LC, MS, GC, RIA) is required as is expertise in QC and assay validation. Prior experience in managing contract laboratory interactions is essential. Job Code: LJB-97126

### MANAGER, PRECLINICAL PK/PD MODELING

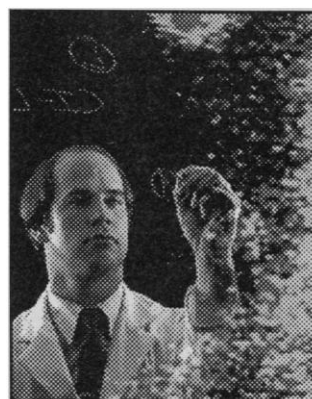
The selected individual will manage department animal colonies, supervise pharmacokinetic and radiotracer studies in rodents, primates and dogs

and design and develop animal models for pharmacokinetic/pharmacodynamic studies. A Ph.D. in Pharmacokinetics along with 4-6 years' animal surgery experience or DVM with 6+ years' experience developing animal models for pharmacokinetic/pharmacodynamic applications are required. Supervisory skills and AALAS certification are preferred. Job Code: LJB-97125

### SENIOR SCIENTIST

As you provide metabolic characterization data for use in drug discovery and development, you will develop and apply mass spectrometry-based metabolic profiling and structure identification techniques for in vitro and in vivo metabolism studies. A Ph.D. with 3-6 years' postgraduate experience or an MS with 5-10 years' experience using mass spectrometry in drug disposition studies is required. A hands on background with LC/MS/MS instruments is also required. Job Code: LJB-97153

Members of our world-class pharmaceutical team enjoy competitive salaries, benefits and career growth potential. For consideration please mail, fax or e-mail a resume\*, indicating the Job Code of interest, to: Parke-Davis, Human Resources Department.



2800 Plymouth Road, Ann Arbor, MI 48105. Fax: (313)998-3394.

E-mail: resume@aa.wl.com.

\*Submit resume on laser-quality white paper, with legible 10 point or larger type, and avoid boldface, italics, borders, etc.



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## ANNOUNCEMENT

### CALL FOR PROPOSALS

*James S. McDonnell  
Centennial Fellowships*

The James S. McDonnell Foundation will award up to 10 \$1,000,000 research fellowships to early career scientists and scholars. The fellowships will be awarded across five areas:

- **Astrophysics and Cosmology**
- **Human Cognition**
- **Global and Complex Systems**
- **Human Genetics**
- **History and Philosophy of Science**

Applications are due December 15, 1997. All information and application guidelines are available at [www.jsmf.org/centennial](http://www.jsmf.org/centennial) or can be obtained via email by contacting [centennial@jsmf.org](mailto:centennial@jsmf.org), or by writing Centennial Fellowship Program, James S. McDonnell Foundation, 1034 South Brentwood Blvd., Suite 1850, Saint Louis, MO 63117 USA

## SYMPOSIUM

### THE EUKARYOTIC NUCLEUS

A SYMPOSIUM SPONSORED BY THE NATIONAL INSTITUTE FOR CHILD HEALTH AND HUMAN DEVELOPMENT

November 15-18, 1997. Airlie Conference Center, Warrenton, Virginia.

Conference Organizers: Dr. Mary Dasso, LME/NICHD; Dr. Melvin DePamphilis, LMGR/NICHD; Dr. Rohinton Kamakaka, LME/NICHD

You are invited to the First NICHD Symposium on the Eukaryotic Nucleus, a conference concerning topics related to the biology of the nucleus. Six oral presentation sessions and two poster sessions are planned. Confirmed symposium speakers include:

Stephen A. Adam (Northwestern University)	Henry L. Levin (NICHD)
C. David Allis (University of Rochester)	Jennifer Lippincott-Schwartz (NICHD)
Titia de Lange (Rockefeller University)	Yoshihiro Nakatani (NICHD)
John F. X. Diffley (ICRF)	Kciko Ozato (NICHD)
Gideon Dreyfuss (University of Pennsylvania)	Karl Pfeifer (NICHD)
Gary Felsenfeld (NIDDK)	Robert G. Roeder (Rockefeller University)
Joeseeph G. Gall (Carnegie Institute)	John W. Sedat (UCSF)
Patricia J. Gearhart (NIA)	Alexander Strunnikov (NICHD)
Daniel E. Gottschling (Fred Hutchinson Cancer Center)	David A. Wassarman (NICHD)
Michael Green (University of Massachusetts)	Susan R. Wente (Washington University)
Lawrence Grossman (Johns Hopkins University)	Richard D. Wood (ICRF)
Thomas J. Kelly (Johns Hopkins University)	Roger Woodgate (NICHD)
Richard D. Klausner (NICHD)	Alan P. Wolffe (NICHD)
Ronald A. Laskey (Cambridge University)	Carl Wu (NCI)
	Richard A. Young (Whitehead Institute)

A single conference fee of \$517.00 + tax will cover registration, accomodation and meals. Further information, application, and abstract materials are available from: Ms. Susan Jordan, Conference on the Eukaryotic Nucleus, NICHD, Bldg. 18T, Rm. 101, Bethesda, MD 20892-5430. Tel.: 301-496-6368. Fax: 301-402-0078. Email: [nucleus@helix.nih.gov](mailto:nucleus@helix.nih.gov). Deadline for receipt of applications is August 1, 1997.



The Novartis Forschungsinstitut is a Vienna-based pharmaceutical research centre representing an important element in the international drug discovery effort of the Novartis group.

## Immunodermatology Unit

offers a

### Postdoctoral Position

that is immediately available for the target search and validation of new dendritic cell structures and their functional characterization.

Candidates must have a good immunological/biochemical background as well as experimental skills in generation, purification and use of monoclonal antibodies. Experience in animal experimentation and cell culture is essential; advanced know-how in protein purification, expression systems and protein/antibody analysis (FACS) would be an advantage.

We are seeking a colleague with good teamwork and problem solving skills and an established publication record. In return, we offer competitive salary, state-of-the-art facilities and equipment.

To apply, please send a full curriculum vitae with names of references to:

**Novartis Forschungsinstitut GmbH**  
attn. Ms. Marion Kala, Personnel Department  
Brunner Straße 59, A-1235 Vienna, Austria  
*We are an equal opportunity employer.*



### RESEARCH GRANTS

The American Health Assistance Foundation invites applications from researchers at non-profit institutions for the following programs:

**Alzheimer's Disease Research:** Grant awards of up to \$100,000 per year for up to two years (renewable) for research into the causes and treatment of Alzheimer's disease.

**National Glaucoma Research:** Grant awards of up to \$25,000 per year for up to two years (renewable) for research into the causes and treatment of glaucoma.

**National Heart Foundation:** Starter grants of up to \$15,000 for one year (renewable) for research into the cause and treatment of stroke or cardiovascular disease. To qualify for a starter grant, the investigator must be an assistant professor (or equivalent) beginning an independent research career.

Application deadlines for all programs: Tuesday, September 16, 1997. Please note that this date is earlier than in previous years.

For information and application forms contact: **Research Grants Department, American Health Assistance Foundation, 15825 Shady Grove Road, Suite 140, Rockville, MD 20850. Telephone: 301-948-3244. Or visit our website: <http://www.ahaf.org>**



## Max-Planck-Institut

für Wissenschaftsgeschichte

### The Max-Planck-Gesellschaft zur Förderung der Wissenschaften e.V.

at the Max Planck Institute for the History of Science offers outstanding junior scholars (doctorate awarded 1992 or thereafter) the opportunity to set up two

#### Independent Research Groups

in the history of science and related fields. Projects dealing with issues of proof and deductivity in the sciences, or with the literary forms and architectural spaces by means of which scientific knowledge is transmitted are particularly welcome, but the primary criterion for selection will be proven ability to conduct internationally recognized research of high quality.

The position of Research Group Director is at the C-2 or C-3 level in the German university system (assistant or associate professor in U.S. system), with a five-year contract. In addition, the Max-Planck-Gesellschaft guarantees a research budget and the salaries of one research scholar (assistant professor level) and a secretary to be chosen by the Research Group Director.

*Women are encouraged to apply.*

*Qualifications being equal, precedence will be given to candidates with disabilities.*

Applicants should send a curriculum vitae, list of publications, names of references, and a brief (circa 2500 words) description of previous research and planned project for the Research Group no later than August 31, 1997 to:

**Max Planck Institute for the History of Science**  
Verwaltungsleitung  
Wilhelmstraße 44, 10117 Berlin, Germany

### MANCHESTER BIOSCIENCES INCUBATOR CHIEF EXECUTIVE OFFICER

The Manchester Biosciences incubator (MBI) is a ground breaking £35M project that has been established to develop biotechnology businesses. It is backed by the EU, the University of Manchester and private investors. The MBI is constructing its own, state-of-the-art building (7,000 sq m) due to be completed in January 1999 which, combined with the volume of ongoing projects, means that the incubator is now seeking a CEO to lead the next, exciting stage of its development. This is a challenging and rewarding opportunity; key responsibilities include the overall management of the MBI, development of its portfolio of intellectual property, projects, and spin-out companies, establishing corporate venturing, and raising further seedcorn finance.

The ideal candidate will have a higher degree in a bioscience subject plus bio/pharmaceutical experience in research, business development and strategy. The individual must have management experience, commercial credibility and a clear record of success. A competitive remuneration package will be negotiated.

Applications (including a full CV) with names and addresses of three referees should be addressed to:

**Professor John Hickman, c/o G.38 School of Biological Sciences, 1.30 Stopford Building, University of Manchester, Manchester M13 9PT**

to whom informal enquiries can also be made:

**tel: + 44 (0) 161 275 5440 fax: + 44 (0) 161 275 5600**  
**email: [jhickman@man.ac.uk](mailto:jhickman@man.ac.uk)**

The closing date for applications is 30 June. All applications will be dealt with in the strictest confidence.



## The University of Auckland New Zealand

The University of Auckland is the largest university in New Zealand with a student population approaching 25,000. Staff are vigorously developing and strengthening its already strong reputation for teaching and research. The University aims to have 25% of its students in postgraduate study within the next five years. Auckland is the country's commercial, industrial and communications centre, and at the heart of its fastest growing region. It offers an attractive range of lifestyles and activities.

The University has the following vacancies available for which it invites applications:

### **Chair in Organic Chemistry**

Department of Chemistry

**Vacancy UAC.838**

**Closing date: 21 July 1997.**

### **Lectureship & Senior Lectureship/Associate-Professorship in X-Ray Crystallography**

(Structural Biology)

School of Biological Sciences

**Vacancy UAC.851**

**Closing date: 7 July 1997.**

### **Lectureship/Senior Lectureship in Biotechnology/Microbiology**

School of Biological Sciences

**Vacancy UAC.859**

**Closing date: 7 July 1997.**

### **Conditions & Procedures for Vacancies**

Further information and Conditions of Appointment should be obtained from the Academic Appointments Office, telephone 64-9-373 7599 ext 5097, fax 64-9-373 7023, email: [appointments@auckland.ac.nz](mailto:appointments@auckland.ac.nz)

**Three copies** of applications must reach the Registrar, The University of Auckland, Private Bag 92019, Auckland, New Zealand, by the closing date specified.

Further information about The University of Auckland can be found at <http://www.auckland.ac.nz/ua/geninfo.html>

**Please quote the relevant Vacancy Number in all correspondence.**

W B NICOLL, REGISTRAR



### **New Zealand**

*The University has an equal opportunities policy and welcomes applications from all qualified persons*



**ICRAF**

INTERNATIONAL CENTRE FOR  
RESEARCH IN AGROFORESTRY

## **Vacancy Announcement DIRECTOR OF DEVELOPMENT**

The International Centre for Research Agroforestry (ICRAF) is an international research organization supported by the Consultative Group on International Agricultural Research (CGIR). Its ultimate purpose is to contribute to improving human welfare and environmental resilience through improved agroforestry systems.

ICRAF seeks to fill the position of Director of Development who will oversee ICRAF's new Development Division, which focuses on accelerating impact of agroforestry innovations and enhancing the capacity and institutional strengths of national institutions. The work is carried out through 6 regional programs in Southern Africa, Eastern African Highlands, the Sahel, Humid West Africa, Humid Tropical Latin America, and Humid Tropical Southeast Asia, comprising 20 collaborating countries. The individual will supervise a multidisciplinary team of 68 professional staff with an annual budget of approximately US\$9 million.

As a key member of ICRAF's senior management team, the Director is actively involved in the overall guidance of the Centre. Duties include implementing ICRAF's strategy and medium term plan, administering an efficient management system, and interacting with donor agencies.

Candidates must have a Ph.D. degree or equivalent in an applied biophysical or social science, with a personal track record of having carried a research project through actual implementation that resulted in tangible impacts on farmer fields in the tropics. English competence is essential while French or Spanish are highly desirable. Successful experience in working in a multicultural environment and leading a multidisciplinary team is highly desirable.

An internationally competitive salary and benefits package will be provided. The contract is for continuing appointment up to 10 years, subject to 1-year probation period, satisfactory performance and adequate funding. ICRAF offers a collegial and gender-sensitive working environment. The position will be based at ICRAF's headquarters in Nairobi, Kenya and requires frequent travel.

Applicants are invited to send a detailed curriculum vitae, including date of birth, salary details, and the names and addresses of 3 referees (including telephone, fax numbers, and email address). All correspondence should be addressed to the **Head of Human Resources, International Centre for Research in Agroforestry, P.O. Box 30677, Nairobi, Kenya; Tel: +254 2 521450; email: [r.lecuyer@cgnet.com](mailto:r.lecuyer@cgnet.com); fax: +254 2 521001.**

*Applications will be considered until 1 August 1997 or until the position is filled. Women are particularly encouraged to apply.*

## PHD CELL BIOLOGIST/PHARMACOLOGIST

SmithKline Beecham, a world renowned innovator in consumer healthcare and pharmaceutical R&D, continues to experience outstanding success. As a result, we seek to add a PhD Cell Biologist/Pharmacologist to our industry-leading scientific team.

The individual selected for this position will establish and conduct an independent research program in organ remodeling with particular emphasis on prostate and renal diseases. The successful candidate will have a PhD in Cell Biology, Pharmacology, Biochemistry or related discipline with 2-8 years of relevant postdoctoral and/or industrial experience. Qualifications should include expertise in cell biology and immunocytochemistry. Experience in molecular biology would be an advantage. A strong record of scientific publications, superior oral/written communication skills and a high level of motivation and organization skills are also required.

Located in a state-of-the-art research facility in suburban Philadelphia, SmithKline Beecham offers a competitive compensation/benefits/relocation package and a stimulating work environment. Qualified candidates should forward a resume and salary requirements to: SmithKline Beecham Pharmaceuticals, Job Code H7-0233, P.O. Box 2646, Bala Cynwyd, PA 19004. *Indicating Job Code is essential.* For more information on SmithKline Beecham, visit our Web site at <http://www.sb.com>. We are an Equal Opportunity Employer, M/F/D/V.

**SB**  
**SmithKline Beecham**  
Pharmaceuticals

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## FACULTY POSITIONS

**ASSISTANT, ASSOCIATE, AND FULL PROFESSOR** -- The Center for Molecular Medicine and Genetics is expanding its research and training programs in human genetics and gene therapy. Candidates with expertise in human genetics or gene therapy are encouraged to apply, especially in three target research areas: neuromuscular, cardiovascular, and early vertebrate development. Both tenure-track and University-funded research-track positions are available. Senior candidates must be established independent investigators with outstanding research accomplishments and demonstrated ability to obtain extramural research funding. Excellent research laboratories and support facilities are available in the School of Medicine, which is part of one of the largest medical centers in the United States:

<http://cmmg.biosci.wayne.edu/recruit.html>

Applicants should send a complete curriculum vitae, a brief description of current and future research (3 pages) and recommendations from at least three references to:

**Dr. John Kamholz, Chair of the Search Committee**  
**Center for Molecular Medicine and Genetics**

**Wayne State University**  
**3216 Scott Hall**  
**540 East Canfield**  
**Detroit, MI 48201**

*Wayne State University is an equal opportunity/affirmative action employer and invites applications from all qualified individuals. All buildings, structures, and vehicles at WSU are smoke-free. Wayne State University -- People working together to provide quality service.*



## POSTDOCTORAL POSITIONS BIOLOGIC STUDIES OF PROSTATE CANCER

The Mayo Clinic Cancer Center has funded several new postdoctoral fellowship positions to characterize biochemical, molecular genetic, and molecular cytogenetic alterations important for the initiation and progression of prostate carcinoma. The selected candidates will be appointed for one or two years. Several faculty members will serve as sponsors including: Donald J. Tindall, Ph.D: Biology of androgen resistance and novel markers of prostate cancer progression; Charles Y. F. Young, Ph.D: Biology of the hGK genes; Robert B. Jenkins, M.D: Molecular cytogenetic studies of prostate cancer; Stephen N. Thibodeau, Ph.D: Molecular genetic and linkage studies of prostate cancer. Strong backgrounds in biochemistry, molecular genetics and/or molecular cytogenetics are desirable. Applicants should mail/fax their curriculum vitae and the names and Fax numbers of three qualified references to:

**Mr. Michael Pfenning, Research Services**  
**Mayo Clinic**  
**200 First Street SW**  
**Rochester, MN 55905**  
**Fax 507/284-1772**

Applications will be accepted until July 30, 1997.  
*Mayo Foundation is an affirmative action and equal opportunity educator and employer.*



## Scientists Group Leaders

Eisai Research Institute of Boston, Inc., a corporation dedicated to innovative pharmaceutical research, currently has openings for highly creative and motivated scientists in our facility near Boston, MA. We are part of a global network of research facilities owned by Eisai Co., Ltd., one of Japan's major pharmaceutical companies.

**Molecular Geneticist / Molecular Biologist** - A position is available for Ph.D. applicants with demonstrated expertise in analysis of mouse genetic models and genetic mapping. Reference 97MSC-LAGL

**Molecular Biologist** - A position is available for Ph.D. who has extensive experience in physical mapping, DNA sequencing and mutation detection. Reference 97MSC-GIGL

**Bioinformatics Scientist** - A position is available for Ph.D. in either biological or computer sciences with extensive experience in developing bioinformatics infrastructure, in organizing in-house and public domain genomic databases, to facilitate gene discovery. Reference 97MSC-BIGL

All candidates must have excellent communication skills, the ability to supervise others and desire to work as part of a multi-disciplinary team.

We offer excellent compensation, benefits, and working environment. Interested candidates should send a resume with reference code to:

**Eisai Research Institute of Boston, Inc.**  
**Attn.: GEFA**  
**10 New England Business Center, Suite 302**  
**Andover, MA 01810**  
**or E-mail: [mm1\\_hr@eisai.com](mailto:mm1_hr@eisai.com)**

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**Tenure Track Position  
Assistant Professor Equivalent  
Molecular Human Carcinogenesis  
Laboratory of Human Carcinogenesis  
Division of Basic Sciences**

A tenure-track position is available for a Ph.D., M.D., or M.D./Ph.D. scientist to develop an independent research program investigating the molecular carcinogenesis of human lung, liver, or esophageal cancer. Candidates should have extensive experience and a record of scientific accomplishment in the functional analyses of cellular and viral genes involved in the neoplastic transformation of human cells. Expertise in both cellular and molecular biology is required. Experience in protein chemistry also is desirable. Candidates should have a substantial number of quality, peer-review published reports; and invited presentations at national and international conferences. Support by a technician, a doctoral fellow, and resources to equip a laboratory will be provided to the successful candidate. A two-page statement of research interests and goals should be submitted in addition to three letters of recommendation and a curriculum vitae to: **Mr. Patrick Miller, National Cancer Institute, NIH, 41 Library Drive, MSC 5055, Room A206, Bethesda, MD 20852, (301) 496-3667.** Applications must be received within one month of this announcement. *The National Cancer Institute is an Equal Opportunity Employer. Selection for this position will be based solely on merit, with no discrimination for non-merit reasons such as race, color, religion, gender, national origin, politics, marital status, physical or mental disability, age, sexual orientation, or membership or nonmembership in an employee organization.*

## POSTDOCTORAL FELLOWS

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*In accordance with Canadian immigration requirements, this advertisement is directed primarily, but not solely, to Canadian citizens and permanent residents. Women, aboriginal peoples, members of visible minorities and persons with disabilities are encouraged to apply. More information can be obtained at <http://www.uottawa.ca/academic/med/cellmol/> after July 1, 1997.*



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- Norton, J. C., McA. Physick, W. E. Wright, J. W. Shay and D. R. Corey. Inhibition of human telomerase activity by peptide nucleic acids. *Nature Biotechnology* 19: 121-125 (2001).

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