POSITIONS OPEN
ASSISTANT PROFESSOR
MOLECULAR BIOLOGY

The Department of Neurology of the Kennedy Krieger Research Institute is seeking applications for an assistant professor position. Applicants must have a Ph.D. and/or M.D. degree with postdoctoral experience in molecular biology. Experience in the design and utilization of experimental systems is desired.

The successful candidate will join an established laboratory interested in mechanisms of neural endothelial differentiation, angiogenesis, microvascular cell interactions, and CNS microvascular cell transplantation. The Kennedy Krieger Research Institute is part of the Johns Hopkins Medical Campus and a concurrent faculty appointment at The Johns Hopkins University School of Medicine will be considered. Applicants should send curriculum vitae, three references, a statement of research interests and cover letter referring to #43-181 to: Human Resources, KENNEDY KRIGER INSTITUTE, 707 North Broadway, Baltimore, MD 21205. Equal Opportunity Employer. Applicants must respond in writing.

University of Waterloo—Applications are invited for a tenure-track ASSISTANT PROFESSORSHIP in Biochemistry starting September 1, 1993, or January 1, 1994. A Ph.D. in Chemistry/ Biochemistry plus postdoctoral experience is necessary. Candidates must be able to establish an independent research program and participate in undergraduate and graduate teaching of biochemistry courses.

In accordance with Canadian Immigration requirements, this advertisement is directed to Canadian citizens and permanent residents of Canada. A complete application must include curriculum vitae, a list of publications, a summary of research interests, an outline of proposed research, and the names and addresses of at least three references. Applications should be sent to: Professor F.R. McCourt, Chair, Department of Chemistry, University of Waterloo, Waterloo, Ontario, Canada, N2L 3G1. The deadline for application is July 31, 1993. This appointment is subject to the availability of funds.

POSITIONS IN BIOLOGICAL SCIENCES

The Department of Biological Sciences, State University of New York College of Optometry, seeks to fill two tenure-track positions at the ASSISTANT/ASSOCIATE PROFESSOR level. Candidates should either have a Ph.D. in pharmacology or a closely related field, or a Ph.D. and an active research program in some of the following areas: oncology, infectious diseases, molecular biology, ocular surface, pathology.

Responsibilities for the positions will include courses in general and ocular pharmacology, and participation in courses in general and ocular biology and microbiology.

Both new faculty members will be expected to develop independent research programs and participate in the training of O.D./Ph.D. students, as well as residents. Candidates should submit curriculum vitae and statement of research interests and plans to: Harry J. Wyatt, Ph.D., Chair, Search Committee, Department of Biological Sciences, State University of New York, State College of Optometry, 100 East 24th Street, New York, NY 10010. Telephone: 212-780-5163. Salaries and benefits competitive. An Equal Opportunity, Affirmative Action Employer.

RESEARCH POSITION IN NEUROLOGICAL DISORDERS OF AGING

The Ohio State University College of Medicine Neuroscience Program is seeking a Ph.D. or M.D. with specific research interests in neurological degenerative disorders of aging. Potential research experience is required with preferences for those trained in either molecular genetics, neuropharmacology or biochemistry. This will be an appointment at the ASSISTANT OR ASSOCIATE PROFESSOR level in the Department of Neurology with joint appointments to Pharmacology and/or Medical Biochemistry. Applicants should forward curriculum vitae, statement of research interests and experience, and the names of three references to: Dr. John A. Mendell, M.D., University of Pennsylvania, Philadelphia, PA 19104-6081. Applications will be accepted until the position is filled. An Equal Opportunity, Affirmative Action Employer.

RESEARCH ASSISTANT/ASSOCIATE PROFEssor

Cognitive Neuropsychologist for Maryland Psychiatric Research Center Department Program, Uni-

versity of Maryland School of Medicine, Ph.D. Req-

uired. Previous research experience in clinical neuro-

science and schizophrenia required. This position will be responsible for clinical, experimental, and neuro-

science research in an outpatient research unit. Send

curriculum vitae to: Robert W. Buchanan, M.D., Maryland Psychiatric Research Center, P.O. Box 21247, Baltimore, MD 21228. Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN
ASSISTANT PROFESSOR
PLANT VIROLOGY

A tenure-track, 12-month position is available at the rank of assistant professor with primary responsibility for research focusing on biological processes relevant to the control, epidemiology or pathogenesis of viruses that infect crops. Areas of research may include, but are not limited to, virus genetics and virology, replication and structure, virus-vector relationships, teaching responsibilities include introductory graduate plant virology and participa-
tion in other courses. A Ph.D. degree is required; teaching and postdoctoral research experience and will-
ings are necessary. Preference given to candidates with an interest in virology. An Equal Opportunity, Affirmative Action Employer.
FACULTY POSITION
JOHNS HOPKINS ONCOLOGY CENTER

Molecular and cellular biology of breast cancer—faculty position. The Johns Hopkins Oncology Center invites applications at the Associate Professor or Professor level for faculty with research focus on the molecular and cellular biology of breast cancer. The Oncology Center is an NCI-designated Comprehensive Cancer Center with interdisciplinary research programs in breast cancer and other solid tumors as well as hematologic malignancies. The range of research programs include molecular genetics, tumor biology, molecular biology, pharmacology and experimental therapeutics, transplantation biology and immunology, and experimental hematoepisies. A new $120 million cancer center building is planned which will include expanded facilities for interdisciplinary research programs.

Applicants should have an M.D. and/or Ph.D. with a major interest in translational research and interaction with a multidisciplinary breast cancer research team including clinicians, pathologists, and basic scientists.

Applicants should submit curriculum vitae and complete bibliography to:
Martin D. Abeloff, M.D.
Director
Johns Hopkins Oncology Center
600 North Wolfe Street
Baltimore, Maryland 21287-8943

The Johns Hopkins University is an EO/AA Employer

Computational Biologist/Informatics Specialist

The Human Genome Center at the Salk Institute has a position open for a Computational Biologist/Informatics Specialist to participate in physical mapping and sequencing efforts involving various human chromosomes and the genomes of model organisms. This NIH and DOE funded Center is involved in a large scale collaborative effort with the Biosciences Division of General Atomics Corporation, the San Diego Supercomputer Center, and the University of California, San Diego, to develop new automation and informatics infrastructure for sequencing the human genome. This research group is highly interactive and interdisciplinary involving biologists, computer scientists, physicists, engineers and professionals from various other physical sciences.

Experience with database programming and Unix platforms, as well as familiarity with biological aspects of physical mapping and sequencing is required. Experience with programming and algorithm development for DNA and protein sequence analysis would also be helpful. Salary and benefits are competitive and the research environment is unusually creative.

Qualified candidates should send a C.V. and three references to:
Dr. Glen Evans
Salk Institute-Human Genome Center
PO Box 85800
San Diego, CA 92186-8580

The Salk Institute is an equal opportunity employer.

Leadership depends on recognizing real potential before anyone else.

SENIOR SCIENTIST
Biotechnology-Biochemistry

You will participate in studies of recombinant cytokine ligand-receptor interaction, including preparation of the complex for structure elucidation. In addition, you will evaluate compounds that are potential agonists or antagonists of cytokine activities; provide leadership in the design of experiments for signal transduction studies; and attempt to identify enzymes or transcription factors that are useful as targets for drug screening. A Ph.D. in Biochemistry with 1-4 years postdoctoral experience is required. Please respond with resume and salary requirements to: Mr. George Czuba, Human Resources, Dept DD93-08, Schering-Plough Research Institute, 2015 Galloping Hill Road, Kenilworth, NJ 07033.

ASSISTANT SCIENTIST
Biochemical Research

We are seeking an Assistant Scientist who has a demonstrated interest in automated equipment, computers and analytical methods. You will participate in the development and running of automated, robotic biochemical assays to screen natural products and synthetic compounds for novel pharmaceutical activities. Qualifications include a BS in Biochemistry with 2-4 years (or a Master's with 0-2 years) of experience; a background with enzymes, receptors, radioisotopes and ELISA methodology would be useful. Please respond with resume and salary requirements to: Mr. George Czuba, Human Resources, Dept DD93-08, Schering-Plough Research Institute, 2015 Galloping Hill Road, Kenilworth, NJ 07033.

We offer competitive salaries commensurate with your experience and education, a comprehensive benefits package, and the personal satisfaction of contributing to important pharmaceutical breakthroughs. We are an equal opportunity employer.

The science of success

Scientists

At Schering-Plough, we've always maintained our commitment to highly focused research, and made a significant commitment in both dollars and effort to discover and develop pharmaceuticals and healthcare products that will best benefit mankind. This kind of forward-thinking is one of the reasons behind our success, and has helped us achieve over $4 billion in annual sales around the world.

We offer impressive opportunities to professionals who share our vision.

ASSISTANT SCIENTIST
Molecular Biology Development

As part of our growing Molecular Biology Development Group, you will become involved in the area of procarctic heterologous gene expression. Responsibilities will involve the design and construction of novel plasmids for high level gene expression of heterologous proteins. You will participate in a dynamic, interdisciplinary team of scientists from our Molecular Biology, Bioengineering, Biosolution and Bioassy Departments to design and develop cyttoplasmic and secretory systems for the expression of eukaryotic proteins.

To qualify for this rewarding opportunity, you must have a BS or MS in a relevant scientific discipline and a maximum of four years of related industrial and/or academic experience. A successful track record in manipulating microbial cultures using recombinant techniques is desirable.

Please respond with resume and salary requirements to: Department PML/DD93-11, Schering-Plough Research Institute, 1011 Morris Avenue, Union, New Jersey 07083.

The Salk Institute for Biological Studies

Computational Biologist/Informatics Specialist

The Human Genome Center at the Salk Institute has a position open for a Computational Biologist/Informatics Specialist to participate in physical mapping and sequencing efforts involving various human chromosomes and the genomes of model organisms. This NIH and DOE funded Center is involved in a large scale collaborative effort with the Biosciences Division of General Atomics Corporation, the San Diego Supercomputer Center, and the University of California, San Diego, to develop new automation and informatics infrastructure for sequencing the human genome. This research group is highly interactive and interdisciplinary involving biologists, computer scientists, physicists, engineers and professionals from various other physical sciences.

Experience with database programming and Unix platforms, as well as familiarity with biological aspects of physical mapping and sequencing is required. Experience with programming and algorithm development for DNA and protein sequence analysis would also be helpful. Salary and benefits are competitive and the research environment is unusually creative.

Qualified candidates should send a C.V. and three references to:
Dr. Glen Evans
Salk Institute-Human Genome Center
PO Box 85800
San Diego, CA 92186-8580

The Salk Institute is an equal opportunity employer.

Schering-Plough Research Institute
POSTDOCTORAL POSITION (NIH)  
AIDS RESEARCH  
HIV Env/CD4 Interactions and Mechanisms of Membrane Fusion


Approaches include design and expression of recombinant proteins (extensive use of vaccinia virus vectors); functional analyses using molecular genetic, biochemical, cell biological and biophysical methods. Successful applicant will take advantage of the diverse expertise and resources in the Laboratory of Viral Diseases and elsewhere on the NIH campus. Salary will be commensurate with experience.

Position available immediately; later starting dates considered. Experience in molecular biology and/or protein and membrane biochemistry helpful but not required. Send CV and name of 3 references to:

Edward A. Berger, Ph.D.  
Laboratory of Viral Diseases, NIAID  
National Institutes of Health  
900 Rockville Pike, Bg. 4, Rm. 229  
Bethesda, MD 20892  
Phone: 301-402-2481 Fax: 301-480-1147

NIH is an Equal Opportunity Employer  •  U.S. Citizenship Required

PHARMACOLOGIST

ZENECA Pharmaceuticals Group (formerly ICI Pharmaceuticals Group), dedicated to the challenge of discovering and developing important new therapeutic agents, has an opening in the Pulmonary Pharmacology drug discovery research group at our suburban Wilmington, Delaware location.

We seek a pharmacologist to perform ligand binding screening assays to characterize potential bradykinin antagonists. The successful candidate will also characterize native and cloned bradykinin receptors in binding and signal transduction assays. BS/MS with 2-5 years of experience in in vitro pharmacological/biochemical assays. The preferred candidate will have knowledge of cell culture techniques and receptor-base assays such as ligand binding and signal transduction.

We offer competitive compensation, comprehensive flexible benefits, a unique investment plan, and the opportunity to join a team of scientists from a broad range of disciplines in an industrial pharmaceutical research environment.

Interested candidates should submit resume to: Melanie M. Lewis, ZENECA Pharmaceuticals Group, 1800 Concord Pike, Wilmington, DE 19897.

ZENECA Pharmaceuticals Group
ZENECA Pharmaceuticals/Stuart Pharmaceuticals
Business Units of ZENECA Inc.
An Equal Opportunity Employer M/F.

POSTDOCTORAL FELLOWSHIP  
in IMMUNOLOGY  
(CELLULAR IMMUNOLOGY)

Applications are invited for a Postdoctoral Fellowship in Cellular Immunology at the Deer Research Laboratory (DRL), University of Otago. The deer research laboratory has an international reputation and collaborative projects worldwide in the field of ruminant tuberculosis (M. bovis) research. The laboratory has developed the deer as a natural large animal model of tuberculosis. The DRL is situated with the Department of Microbiology which has a strong teaching programme in basic immunology with major research programmes involving immunological mechanisms in mycobacterial disease, vaccine development and the effects of stress on the immune system. Applicants should have a PhD and have good practical skills in cell culture, cytokine assays, monoclonal antibody production and FACS analysis.

Applications should quote reference number A93/39 close with the Registrar, University of Otago, PO Box 56, Dunedin, New Zealand, telephone (64) 3 479-7710, fax (64) 3 472-160.

Applications should quote reference number A93/39 close with the Registrar, University of Otago, PO Box 56, Dunedin, New Zealand (Fax (03) 474-1607) on 31 August 1993.

Equal opportunity in employment is University policy.
NATIONAL INSTITUTES OF HEALTH

MOLECULAR BIOLOGIST, CELL BIOLOGIST AND RETROVirologist IN HIV RESEARCH

The Laboratory of Tumor Cell Biology of the Division of Cancer Etiology, National Cancer Institute is accepting applications for a permanent position for a medical doctor with extensive research experience. The position will be at the GS-13 level with a salary range of $46,210 - $60,070.

The successful candidate will be expected to:

1. Conduct original research into the area of HIV-1 neutralizing antibodies at the molecular level. This includes the development and use of immune escape mutants for HIV-1 to define neutralizing epitopes and the development of recombinant antibody libraries for the expression of neutralizing antibodies in bacteria.
2. Serve as Principal Investigator for studies on the molecular aspects of antibody neutralization of HIV-1.
3. Provide expert consultation to the Research Program of the laboratory in matters involving the study of the humoral immune response to HIV-1 and the effects of genetic variability on antibody neutralization.

Candidates with the following qualifications will be given preference:

2. Post-doctoral research experience in molecular virology, particularly with HIV-1 molecular and cellular biology.
3. Strong interest with experience in the development of a research program which utilizes techniques of molecular biology and retrovirology, and molecular immunology to impact the area of the humoral response to HIV-1, with particular emphasis on neutralizing antibodies and viral genetic variation.
4. Extensive experience in site directed mutagenesis.
5. Broad knowledge of the principals of virus entry and neutralization.
6. Familiarity with repertoire cloning, expression, and characterization of human immunoglobin libraries.
7. Ability to effectively communicate in English both orally and in writing.
8. Relevant publications in top scientific journals.

Applicants must be found to be eligible on a Civil Service Register. If interested, please send a C.V. by June 18, 1993 to:

Ms. Patricia Stephenson, National Institutes of Health, Bldg. 37, Rm. 1A07, 9000 Rockville Pike, Bethesda, MD 20892

U.S Citizenship is Required  •  NIH is an Equal Opportunity Employer

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SENIOR RESEARCH SCIENTIST

If your career belongs on the leading edge of scientific research, you belong at Sandoz.

At Sandoz Pharmaceuticals, research is the tool by which we gain the knowledge needed to improve the lives of countless thousands across the country and around the world. That’s why we’ve committed substantial resources to expanding our Research Institute and its state-of-the-art technologies.

If your career belongs on the leading edge of scientific research, you belong at Sandoz.

The Atherosclerosis and Vascular Biology Research group at Sandoz Research Institute is seeking a Senior Research Scientist with expertise in vascular physiology and pharmacology related to vascular diseases including thrombosis and atherosclerosis. The successful candidate should have a Ph.D plus more than 5 years of experience in managing independent research programs in areas of vascular research or disease. The candidate will join a growing interdisciplinary team of vascular biologists, molecular biologists, animal modelers and medicinal chemists with a primary goal of exploring and developing new opportunities for future therapeutic intervention in vascular diseases.

Being part of the research team at Sandoz has many advantages. Our salaries and benefits programs are designed to attract top candidates and provide them with the resources to produce their best. Comprehensive health, dental, and savings plans as well as fitness and athletic facilities are all provided at our attractive location in northwest New Jersey, which also allows for outstanding academic, cultural and outdoor pursuits. For consideration, please forward your curriculum vitae, a statement of research interests and the names and addresses of three references to position #2594MS:

SANDOZ PHARMACEUTICALS CORP
SRI Human Resources Department
Building 122/1st Floor
East Hanover, New Jersey 07936-1080
An Equal Opportunity Employer M/F/D/V

Sandoz
Bringing research to life
UNIVERSITY OF TORONTO
RESEARCH CHAIR IN NUTRITIONAL TOXICOLOGY

Applications are invited for a Research Chair in Nutritional Toxicology. The Chair-holder will be expected to develop a research program utilizing cellular, molecular, or genetic approaches to examine fundamental mechanisms of biological responses relevant to the role of food in chronic disease. The position offers a unique opportunity to collaborate with outstanding medical scientists and with the food industry to advance the understanding of the relationship between diet and health. Applicants should have a Ph.D. in nutritional sciences, and an active research program with a strong publication record.

Funding for this tenure-stream position is salary at the Associate Professor or Professor rank, and guaranteed net research funding for five years of $100,000 per year from the Natural Sciences and Engineering Research Council of Canada. Applications (including curriculum vitae) should be sent to: Dr. Terry Turner, Department of Nutritional Sciences, Faculty of Medicine, University of Toronto, Toronto, Ontario, M5S 1A8. Telephone: 416-978-2422, FAX: 416-978-6882. Application Deadline: October 1, 1993.


POSTDOCTORAL POSITION

ORIENTAL DRUGS RESEARCH

Applications are invited for the above post in the Department of Oriental Drugs Research at the University of Munich. The position is available immediately. Responsibilities will include the development of new drug discovery strategies and the evaluation of compounds for anti-inflammatory, analgesic, and antipyretic activities. Experience in medicinal chemistry and pharmacology is desirable. Applicants should have a Ph.D. degree in medicinal chemistry or a related field. Applications should be sent to: Prof. Dr. R. Wagner, Institute of Pharmaceutical Chemistry, University of Munich, Frauenchiemsee, 82152 Ismaning, Germany. Application deadline: December 31, 1993.

SCIENCE • VOL. 260 • 11 JUNE 1993
Research Molecular Biologists

Pfizer, a U.S. based multinational pharmaceutical company, has earned its reputation as a leader in the industry through its continuing commitment to keeping its pharmaceutical research at the forefront of biomedical science and therapeutic innovation. Consider these exciting research opportunities in the Molecular Genetics and Protein Chemistry Department located at our Central Research Laboratories in Groton, Connecticut.

Cardiovascular Molecular Biology

The Cardiovascular Discovery Group is pursuing the role of growth factors and proto-oncogenes in cardiac hypertrophy and congestive heart failure. We are seeking candidates with a PhD in Molecular Biology and at least 2 years postdoctoral experience in these areas.

Atherosclerosis Gene Transcription

The Molecular Biology Group has considerable interest in the regulation of gene transcription. This position requires a PhD in Molecular Biology and at least 2 years postdoctoral work in a field such as atherosclerosis or lipid research.

In addition to a stimulating research environment, we offer a competitive compensation and benefits package, including generous relocation assistance to this southeastern Connecticut shoreline community. Qualified applicants may send a resume, description of research experience, and names of three references, indicating position desired, to: Mr. Kym Goddu, Personnel Associate, Employee Resources, Pfizer Inc, Central Research Division, Eastern Point Road, Groton, CT 06340. We are an equal opportunity employer.

Central Research
Bringing science to life.
PROTEIN BIOCHEMIST

SmithKline Beecham Pharmaceuticals, a worldwide leader in pharmaceutical research, has an opportunity available for an innovative protein biochemist who specializes in the microisolation, identification and characterization of novel proteins of therapeutic/diagnostic interest.

Employing state-of-the-art protein purification and analytical techniques, you will develop new tools and methodologies for novel protein microisolation and analysis. You will have a strong interface with protein structure and microanalytical groups and will collaborate with interdisciplinary research teams to define and characterize the biological and immunological activities of proteins of interest. Knowledge of photoaffinity labelling, chemical modification and cross-linking of proteins is highly desirable.

The qualified candidate will have a Ph.D. in biochemistry or biological chemistry, a minimum of two years' academic or industrial experience in protein chemistry/enzymology and documented experience with "de novo" protein purification. A background in state-of-the-art protein separation and chromatographic methods including preparative electrophoresis, FPLC and HPLC is necessary and familiarity with microisolation techniques (such as SMART system), cellular fractionation and immunochemical methods is preferred. Demonstrated scientific achievement by publication in recognized scientific journals is required.

Located in our state-of-the-art research facility in suburban Philadelphia, near Valley Forge, PA, SmithKline Beecham offers competitive compensation and comprehensive benefits package. Interested applicants should forward their resumes to: SmithKline Beecham Pharmaceuticals, Employment Administrator, L048, PO Box 1539, King of Prussia, PA 19406-0939. We are an Equal Opportunity Employer, M/F/D/V.

SmithKline Beecham
Pharmaceuticals
Challenging the natural limits.

SIBIA is continuing to expand its interdisciplinary research and development on therapeutics for neurodegenerative diseases. We are currently seeking candidates for:

SCIENTISTS AND/OR
ASSOCIATE SCIENTISTS
IN NEUROSCIENCE

MOLECULAR/BIOCHEMICAL
NEUROPHARMACOLOGY

PhD with 3+ years' postdoctoral experience in molecular pharmacology, with particular emphasis on receptor binding, signal transduction, second messenger systems, including measurement of intracellular calcium using fluorescent techniques.

BS/MS with 3-5 years' experience in biochemical pharmacology (enzymeology, uptake and release studies and/or other studies related to neuropharmacology or ion channels and neurotransmitter receptors).

MOLECULAR
NEUROBIOLOGY:

PhD with 3+ years' postdoctoral research experience in recombinant gene expression in mammalian cells, with particular emphasis on stable expression of CNS receptors and/or ion channels.

NEUROANATOMY:

PhD/MD with training in neuroanatomy brain lesioning, immunohistochemistry, and in situ hybridization techniques. Knowledge of human neuroanatomy desirable.

ELECTROPHYSIOLOGY:

BS/MS with 2-4 years' laboratory experience in preparing, performing, and analyzing whole cell/two electrode voltage clamp experiments to characterize ligand-gated ion channels.

BEHAVIORAL
NEUROPHARMACOLOGY:

PhD Behaviorist with 5+ years' experience in cognition and motor function. Knowledge of models of focal cerebral ischemia is an advantage.

BS/MS with 2-4 years' experience in behavioral techniques including cognitive tests, motor function tests, and models of focal ischemia.

SIBIA offers a salary commensurate with experience, excellent benefits, a superior work location and a national reputation. Send C.V. with names of three references to: Lynn Alba, c/o SIBIA, 505 Coast Bl, South, Suite 300, La Jolla, CA 92037, EOE.
Position in Genetics
The Salk Institute for Biological Studies
The Salk Institute is recruiting an Assistant/Associate Professor in mammalian genetics, emphasizing but not restricted to human genetics. The successful candidate is expected to establish an independent research program focusing on basic biological problems related to development, differentiation, or disease. The position provides an opportunity to interact with other faculty pursuing research in neuroscience, developmental and cancer biology, and to benefit from a human genome center developing state-of-the-art physical mapping and genome sequencing technology. Candidates should submit a C.V., three letters of recommendation, and a brief description of future research directions to:

Dr. Geoffrey M. Wahl
Chair, Genetics Search Committee
The Salk Institute for Biological Studies
10011 North Torrey Pines Road
La Jolla, Calif. 92037
The Salk Institute is an equal opportunity employer.

1994 KEYSTONE SYMPOSIA
on Molecular and Cellular Biology

HOMOTEOPOIESIS
Organizers: David Golde and Jerome Groisman
January 4 - 11, 1994, Breckenridge, Colorado
Sponsored by Amgen, Inc.

MOLECULAR EVENTS IN MICROBIAL PATHOGENESIS
Organizers: Vincenzi Fischetti, Virginia Miller and Marian Neubauer
January 8 - 14, 1994, Santa Fe, New Mexico

IMPROVED CROP AND PLANT PRODUCTS THROUGH BIOTECHNOLOGY
Organizers: Barbara Mazur, Jon Leemans and Richard Flavell
January 9 - 16, 1994, Keystone, Colorado

MOLECULAR MECHANISMS COMMON TO TYPES 1 AND 2 DIABETES
Organizers: Ira Goldfine and Michael Czech
January 14 - 21, 1994, Park City, Utah

THE ADIPOSE CELL
Organizers: Constance Londos, Samuel Cashman and Vincent Mangiagalli
January 14 - 21, 1994, Park City, Utah

MOLECULAR BIOLOGY OF HUMAN GENETIC DISEASE
Organizers: Maino Cohen, Beverly Emanuel, David Ludwir and Arthur Breslau
January 15 - 22, 1994, Copper Mountain, Colorado
Sponsored by SmithKline Beecham Pharmaceuticals

GENE THERAPY
Organizers: Inder Verma and Fred Gage
January 15 - 19, 1994, Copper Mountain, Colorado

INFLAMMATION, GROWTH REGULATORY MOLECULES & Atherosclerosis
Organizers: Russell Ross and Michael Gimbone
January 16 - 23, 1994, Keystone, Colorado
Sponsored by Genentech, Inc. and ZENUECA Pharmaceutical Group

MOLECULAR BIOLOGY OF THE ENDOHELIAL CELL
Organizers: Thomas Edgington, David Loskutoff and Thomas Maccio
January 16 - 23, 1994, Keystone, Colorado
Sponsored by Genentech, Inc. and ZENUECA Pharmaceutical Group

TRANSPOSITION AND SITE-SPECIFIC RECOMBINATION: MECHANISM & BIOLOGY
Organizers: Norman Bird and Jef Boeke
January 21 - 28, 1994, Park City, Utah

ADVANCES AND CONTROVERSIES IN BONE MARROW TRANSPLANTATION
Organizers: Richard Champlin and Robert Peter Gale
January 23 - 30, 1994, Keystone, Colorado
Exclusively Sponsored by Cytokine Development Unit, Sandor Pharmaceuticals Corporation

STEM CELLS
Organizers: Irv Weissman and Ivar Lenischaka
January 31 - February 7, 1994, Taos, New Mexico

TRANSMEMBRANE SIGNAL TRANSDUCTION: STRUCTURE, MECHANISMS, REGULATION AND EVOLUTION
Organizers: Meri F. Hinkova, Tony Hunter, Heidi Hamm, Jim Hinks, Tony Poussin, Edward A. Druz and Alfred Wittinghofer
February 6 - 13, 1994, Keystone, Colorado

PREVENTION AND TREATMENT OF AIDS
Organizer: Dani Bolognesi
February 6 - 13, 1994, Location to be determined
Sponsored by SmithKline Beecham Pharmaceuticals and Specialty Laboratories, Inc.

STEROID/THYROID/RETINOIC ACID SUPER GENE FAMILY
Organizers: John Cidlowski, Jan Ake Gustafsson and Malcolm Ker
February 7 - 13, 1994, Taos, New Mexico

For more information, please contact:

Keystone Symposia, Department S, Drawer 1630, Silverthorne, CO 80498
Phone: (303) 262-1230; Fax: (303) 262-1525

NYU SCHOOL OF MEDICINE AT NYU MEDICAL CENTER

Asst. Research Scientist
NYU Medical Center currently has a (N.I.H.-supported) Post-Doctoral position, available as of August 1, 1993, in the molecular immunology laboratory of Dr. Paolo Casali (Department of Pathology and Kaplan Comprehensive Cancer Center) to study human Ig genes. You will be part of a productive group focusing on the analysis, in vitro expression, and site-directed mutagenesis of human Ig VH and VL genes, with emphasis on those involved in autoimmune diseases, B cell leukemias and lymphomas, as well as the study of newly identified human B cell subpopulations. Experience in molecular biology is essential.

The N.Y.U. School of Medicine, which includes the new Skirball Institute of Biomolecular Medicine, is part of N.Y.U. Medical Center. It has a state of the art research facilities and offers an outstanding scientific environment. It is located in attractive mid-town Manhattan. A wide housing selection is readily available in the immediate vicinity.

Applicants should send their curriculum vitae and names of three references to Ms. M. Singh, Human Resources Dept., NYU Medical Center, 550 First Ave., NY, NY 10016. Resumes must be received by 7/5. EOE, M/F.
POSTDOCTORAL POSITION available immediately, three year NIH-funded project to study glycoconjugates in mammalian cell lines. Requires a Ph.D. in Biochemistry, Chemistry, or related discipline with expertise in carbohydrate and/or protein chemistry. The individual will work on characterization and enzymatic remodeling of oligosaccharides from glycoproteins, using combined chemical/ enzymatic approaches. The candidate should have experience in cell biology or a related field. Send inquiries to: Department #8801, Attention: Dr. J. B. Lloyd, Director, Department of Medicinal Chemistry, ALFRED I. DUFOUNT INSTITUTE, P.O. Box 96, Wilmington, DE 19899. Equal Opportunity Employer.

The Department of Dermatology of the Bowman Gray School of Medicine of Wake Forest University invites applications for a postdoctoral FELLOW or RESEARCH ASSISTANT PROFESSOR to join our basic investigational dermatology laboratory. Our laboratory currently has interests in transcriptional regulation, molecular toxicology, regulation of proteinases and phototaging. Opportunities for teaching and cross appointment in a basic science department exist but are not required. The salary is comparable to that of a faculty member with equivalent degree and experience. Equal Opportunity Employer.

NEUROBIOLOGY OF DRUG ABUSE

A POSTDOCTORAL RESEARCH FELLOWSHIP is available to study neurotransmitter mechanisms relating to brain substrates of cocaine reward and craving. Requirements: must have proof of eligibility to work in the U.S.; M.D. or Ph.D. with experience in drug abuse research; ability to collaborate in a friendly, supportive environment. Development or continuation of an externally funded research program is expected of candidates desiring this position. Applicatıons including curriculum vitae, a statement of interests and goals, and references should be sent to: Steve Penner, Director, Department of Pharmacology, Bowman Gray School of Medicine, Winston-Salem, NC 27187-1071. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIP—The Department of Medical Cell Biology at the Alfred I. duPont Institute seeks a postdoctoral Fellow to participate in an NIH-funded research project on mechanisms of amino acid and iron nutrition in the mammalian embryo. Candidates should have experience in cell biology or a related field. Send inquiries to: Department #8801, Attention: Dr. J. B. Lloyd, Director, Department of Medicinal Chemistry, ALFRED I. DUFOUNT INSTITUTE, P.O. Box 96, Wilmington, DE 19899. Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIP—RESEARCH ASSOCIATE

To study mechanisms of hypertension and cardiomyopathy. Must have a Ph.D. and strong background in molecular biology. Salary depends on experience. Send curriculum vitae and 3 references to: Robert Mak, M.D., Department of Pediatrics, Samuel University School of Medicine, Stanford, CA 94305-5119. (415) 723-8406.

MOLECULAR BIOLOGIST/ MICROBIOBIOLOGIST

The Department of Oral Sciences, Eastman Dental Center, Rochester, New York, seeks applicants for a research faculty position. A Ph.D. is required, with postdoctoral experience and a strong background in molecular biology with emphasis on microbiology. Expertise in plasmid DNA research would be beneficial. The successful candidate will be expected to establish an extramurally funded research program, to interact with other scientists, and to contribute to limited research in the area of dental research. More specifically, this position would be at ASSISTANT or ASSOCIATE PROFESSOR level. Submit curriculum vitae, reprints, and letters of reference to: Mr. L. Bork, Human Resources, Eastman Dental Center, 625 Elmwood Avenue, Rochester, NY 14620. Equal Opportunity Employer/Affirmative Action Employer, M/F/V/H.

LIPID BIOCHEMIST/ MOLECULAR BIOLOGIST

The Department of Oral Sciences, Eastman Dental Center, Rochester, New York, seeks applicants for a research faculty position. A Ph.D. is required, with postdoctoral experience and a strong background in lipid biochemistry, and with a working knowledge of molecular biology. Expertise in lipid function in the human body would be beneficial. The successful candidate will be expected to establish an extramurally funded research program, to interact with other scientists, and to conduct limited graduate teaching. Knowledge of dental development is desirable but not essential. The successful candidate would be at ASSISTANT or ASSOCIATE PROFESSOR level. Submit curriculum vitae, reprints, and letters of reference to: Mr. L. Bork, Human Resources, Eastman Dental Center, 625 Elmwood Avenue, Rochester, NY 14620. Equal Opportunity Employer/Affirmative Action Employer, M/F/V/H.
NATIONAL INSTITUTES OF HEALTH

MOLECULAR BIOLOGIST AND RETROVIROLOGIST IN HIV RESEARCH

The Laboratory of Tumor Cell Biology of the Division of Cancer Etiology, National Cancer Institute is accepting applications for a permanent position for a medical doctor with extensive research experience. The position will be at the GS-13 grade level with a salary range of $46,210 - $60,070.

The successful candidate will be expected to:
1. Conduct original research towards the development of anti-viral gene therapies for treatment of HIV-1 infections and AIDS. Experience in the targeted directed introduction of genes into specific cells by methods such as entry through the endosomal pathway in combination with inactivated adenovirus is critical, as is a familiarity with molecular aspects of the HIV-1 life cycle.
2. Serve as Principal Investigator for experimental studies of HIV-1 infection in vitro, with particular emphasis on the design and delivery of genes which can inhibit HIV-1 replication and expression.
3. Provide expert consultation to the Research Program of the laboratory in matters involving the suitability of different gene delivery techniques and anti-viral genes for the possible treatment of HIV-1 infection.

Candidates with the following qualifications will be given preference:
1. M.D. with background in molecular biology, cellular biology and retrovirology whose training was focused on the HIV life cycle.
2. Post-doctoral research experience in molecular aspects of HIV-1 replication and expression, including molecular aspects of cell tropism.
3. Strong interest and experience in the development of a research program which utilizes techniques of molecular biology and retrovirology to impact the field of human retroviruses, especially HIV-1, and the development and analysis of molecular constructs containing genes which protect target cells from HIV-1 infection.
4. Broad knowledge of the molecular biology of the life cycle of human retroviruses and their interaction with host cells, especially HIV-1 infection of primary T-cells and macrophages.
5. Ability to effectively communicate in English both orally and in writing.
6. Relevant publications in top scientific journals.

Applicants must be found to be eligible on a Civil Service Register. If Interested, please send a C.V. by June 18, 1993 to:

Ms. Patricia Stephenson, National Institutes of Health, Bldg. 37, Rm. 1A07, 9000 Rockville Pike, Bethesda, MD 20892.

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For additional information please write to Division of Biology and Biomedical Sciences, Department M, Campus Box 8226, 660 S. Euclid Ave., St. Louis, MO 63110-1093.

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THERAPEUTIC CORPORATION
ICLARM is a nonprofit, autonomous, nongovernmental, international center with headquarters in the Philippines. The Center pursues strategic research for sustainable aquaculture and fisheries in tropical developing countries, emphasizing sustainable use of natural resources and environmental care, for the benefit of small-scale producers and rural poor.

The Center’s programs focus on three resource systems – inland (principally ponds and rice flood waters), coastal, and coral reef. National research support activities complement the Center’s research work. There is a staff of nearly 200 worldwide.

ICLARM is a member of the CGIAR system and is funded by a number of government agencies and foundations and governed by a 15-member international Board of Trustees.

DUTIES AND RESPONSIBILITIES: The Director General will be based in Manila and have full responsibility for management, direction, and fund-raising under the supervision of the Board. He or she will be responsible for close communication with research and development organizations worldwide and with potential and current donors. The position requires frequent travel.

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(1) Ph.D. plus extensive research experience in one or more of ICLARM’s program areas.
(2) Ability to work with scientists, research institutions, fisheries agencies, and other national, regional, and international governmental and nongovernmental entities.
(3) Proven competence in managerial matters to ensure efficient operation of an international multidisciplinary center.
(4) Proven competence in dealing effectively with fund-raising activities and donor organizations.

The appointment is for an indefinite term and is available immediately. Salary, benefits, and allowances are negotiable, commensurate with the experience of the candidate, and equivalent to those provided by international agricultural research centers. For more information, contact Dr. D.L. Alverson.

APPLICATION: Applications should be addressed to: Dr. D.L. Alverson, ICLARM Search Committee, 4855 21st Avenue West, Suite 200, Seattle, Washington 98199, USA. Telephone: (206) 285 3715.

Fax: (206) 283 8263.

Include complete personal qualifications and experience, with present and previous positions and salaries, and names, addresses, and phone numbers of three personal references.

**CELL BIOLOGIST**

SmithKline Beecham Pharmaceuticals, a world leader in pharmaceutical research, has an exciting, new opportunity for a Molecular Biologist to join its expanding research team. The selected individual will establish and conduct an independent research program in the molecular and cellular mechanisms of glomerular remodeling and, in particular, glomerular matrix production. The successful candidate will have a Ph.D. in Cell Biology, Molecular Biochemistry, Pharmacology, Biochemistry or related discipline with two to eight years of relevant post-doctoral and/or industrial experience. He/She must also have expertise in mesangial, vascular smooth muscle and/or endothelial cell biology. Experience with extracellular matrix, and/or molecular biology is preferred. A strong record of scientific publications, superior oral/written communication skills, and a high level of motivation and organization skills are also required.

Our state-of-the-art research facility is located in suburban Philadelphia, near Valley Forge, PA. We offer a competitive compensation/benefits/relocation package, as well as a stimulating and challenging work environment based on creativity, commitment and teamwork. For confidential consideration, please submit your C.V. and the names of three references to: SmithKline Beecham Pharmaceuticals, Employment Administrator, #L046, P.O. Box 1539, King of Prussia, PA 19406-0939. We are an Equal Opportunity Employer, M/F/D/V.

**Glycobiology: New Perspectives on Human Disease**

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This conference will provide a forum highlighting some of the many recent advances in glycobiological research pertaining to the pathophysiology, diagnosis and treatment of human diseases. A major goal of the conference will be to emphasize and encourage the formation of collaborative interactions among basic science, clinical and biotechnological researchers. Principal topics to be discussed include glycobiology as it relates to:

- **Development**- fertilization, tissue differentiation, angiogenesis
- **Infectious disease**- malaria, leishmaniasis, Herpes, oral bacteria, trypanosomiasis, AIDS
- **Adhesion**- selectins, metastasis, viral infectivity
- **Diagnostics**- tumor & metastasis markers, metabolic diseases, rheumatoid arthritis
- **Therapeutics**- new FDA regulatory paradigms, anti-parasitic agents, mimetics, chemotherapeutics, glycoprotein hormones, gene therapy

There is no registration fee for this conference. For more information contact: Gordon Holt or Donna Krasnewich, Bld. 10, Rm. 95242, NIH, Bethesda, MD, 20892, Tel: (301) 496-9101, Fax: (301) 402-0234.
DRUG METABOLISM SCIENTISTS

Two positions are available to work closely with a multidisciplinary team of chemists, biologists and pharmacologists at our Department of Animal and Exploratory Drug Metabolism. The selected candidates will provide essential pharmacokinetic and metabolism data in both exploratory research programs and preclinical ADME studies required for IND submissions.

MASS SPECTROMETRY - to develop LC/MS/MS based analytical methods for the quantitative and qualitative determination of drugs and metabolites in biological fluids. A B.S. degree in chemistry, analytical chemistry, biochemistry or another closely related discipline with 3-5 years research experience is required. You should be well versed in all aspects of HPLC separation techniques and have some background in drug metabolism and pharmacokinetics. Demonstrated ability to apply techniques of mass spectrometry to problems of drug quantitation and structure elucidation is desired as is familiarity with the operation of a SCIEX API III triple quadrupole mass spectrometer. Publication of original research is highly encouraged.

DRUG METABOLISM - in vivo and in vitro metabolism studies of drugs. An M.S. in chemistry/biochemistry (or a related field) with 1-2 years of research experience, or a B.S. in chemistry/ biochemistry with at least 3 years of research experience or equivalent is required. Some knowledge of drug metabolism with demonstrated strength in modern analytical techniques such as HPLC is desirable. Other desirable experience includes the isolation, purification and characterization of metabolites from biological fluids and handling of radiolabeled chemicals - or - skills in cell culture, organ perfusion, and small animal surgical techniques.

Merck Research Laboratories are located in Rahway, NJ, approximately 25 miles from New York City. Our salaries, benefits, and growth potential are excellent. For consideration, send your resume with the names of three references to Randall J. Bradford, Merck & Co., P.O. Box 2000, ADM31, Rahway, New Jersey 07065, RBG-A3. EEO/AA/VH/ Employer.

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Research Scientists

Stem Cell Biology

Candidates must have a Ph.D. in cell/molecular biology or biochemistry, preferably with an emphasis on hematopoietic cell growth and differentiation, and 2-4 years postdoctoral experience. Your responsibilities will include developing new research programs in the areas of the identification and characterization of new hematopoietic growth factors, stem cell and megakaryocyte biology or receptor biology, as well as complementing on-going projects. If you're interested in this position, please submit a complete curriculum vitae. (Job Code OA-SC-JC-017)

At Amgen, we provide our employees with the freedom to manage their projects, regulate the quality of work, and make decisions within company goals. We back this freedom with meaningful challenge and responsibility, as well as a compensation and benefits package that reflects the level of our commitment. If you're interested in one of the above positions, please submit appropriate information, for confidential consideration, to: Amgen Inc., Staffing, Job Code (See Above), Amgen Center, Thousand Oaks, CA 91320-1789.

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POSTDOCTORAL FELLOW
To work with multidisciplinary group on generation of new tissue equivalents using cultured cells on novel polymer scaffolds. Focus will be on hepatocytes and control of hepatocyte function through matrix interaction. Available immediately. Send curriculum vitae, statement of research interests, and names and addresses of three references to: Dr. Joseph P. Vacanti, M.D., Department of Surgery, Children's Hospital, 300 Longwood Avenue, Boston, MA 02115. Children's Hospital is an Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE Position available to investigate plant/bacterial metabolism in symbiotic nitrogen fixation. Protein chemist who knows or wants to learn molecular biology and microbial physiology would be ideal. Send letter of application with three letters of reference to: Michael Kahn, Institute of Biological Chemistry, Washington State University, Pullman, WA 99164-6840. Telephone: (509) 335-8527, FAX: (509) 335-7643. Salary: $22,032 per year. Begin date: July 1, 1993. Washington State University is an Equal Opportunity Employer. Accommodations for applicants who qualify under the Americans With Disabilities Act are available upon request.

POSTDOCTORAL/RESEARCH ASSOCIATE Position available immediately for individual to participate in research on the molecular genetics of hereditary renal cancer and tumor suppressor genes in an animal model. Candidates with strong background in molecular biology/positional cloning preferred. Opportunity for experience in in situ hybridization and microdissection available. Send curriculum vitae and names of three references to: Dr. Raymond Yeung, c/o Human Resources Department, Fox Chase Cancer Center, 7701Burholme Avenue, Philadelphia, PA 19111. We are an Equal Opportunity/Affirmative Action Employer.

MEDICAL OFFICER (RESEARCH) GS-602-15. Vacancy Announcement: HL-93-30. All applications must be received by July 13, 1993. The National Heart, Lung, and Blood Institute is recruiting a Medical Officer (Research) in the Lipid Metabolism/Atherosclerosis Branch, Division of Heart and Vascular Diseases. Mandatory qualifications are a medical doctorate. Applicants must meet the following selection factors: (1) ability to plan and manage major research programs involving complex administrative/management issues; (2) knowledge of epidemiological and clinical trial research approaches and techniques applicable to cardiovascular medicine; (3) skill in oral communication appropriate to numerous and varied contacts with the scientific community and the general public; (4) interpersonal skills needed in dealing effectively with colleagues and on-government scientists in the course of daily work; (5) professional knowledge of clinical medicine. In addition, there are specific knowledge, skills, and abilities that applicants need to address. Please telephone the Personnel Office for additional information on (301) 496-6477. Salary range from $71,049 to $91,029 per year depending on qualifications. Applicants may be eligible for various bonuses, awards, and allowances. Please submit an Application for Federal Employment (SF-171), curriculum vitae and bibliography to: Susan McGowan, Personnel Management Specialist, Building 31, Room 5A28, NIH, NHLBI, 9000 Rockville Pike, Bethesda, MD 20892. U.S. Citizenship required. NIH is an Equal Opportunity Employer.

GENE THERAPY OF DIABETES—A position to study gene therapy of diabetes in experimental animals is available at the ASSISTANT SCIENTIST level. Ph.D. or M.D. and experience in molecular biology are required. Send curriculum vitae to: Dr. Michael J. MacDonald, University of Wisconsin Medical School, Room 3459, 1300 University Avenue, Madison, WI 53706. Telephone: (608) 262-1195.

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