This kit is designed to measure specifically alpha-rat atrial natriuretic polypeptide (alpha-rANP) and its related peptides by a competitive radioimmunoassay. It is intended for in vitro protocols only. The antiseraum used for this assay was raised against synthetic alpha-rANP.

This kit contains sufficient reagents for 125 RIA tubes.

Catalog #RIK 9103

Contents:
- Triton X-100/water
- RIA buffer (powder)
- Standard alpha-rANP (lyophilized powder)
- Rabbit antiseraum specific for alpha-rANP (lyophilized powder)
- 125I alpha-rANP (lyophilized powder)
- Goat anti-rabbit IgG serum (lyophilized powder)
- Normal rabbit serum (lyophilized powder)
- Instructions/flow sheet for the RIA protocol
- Instructions for calculating the results and graph paper for plotting the results.

CAUTION: Investigational Device. Limited by law to investigational use. For research use only. Not for use in diagnostic procedures.

Sensitivity:
IC50 8 pgm/tube

Specificity:
Peptide % Cross Reactivity
alpha-rANP 100
Atriopeptin III 2
Atriopeptin II 1
Atriopeptin I 1
ANF (8-33) (alpha-rANP 3-28) 1
alpha-hANP (Met12-alpha-rANP 0.2
rANF (13-28) <0.001
rANF (18-28) 0
Somatostatin 0
Oxytocin 0
Arg9 Vasopressin 0

Peninsula Laboratories, Inc.
611 Taylor Way
Belmont, CA 94002 U.S.A.
Phone: CA (415) 592-5392
Out of State: (800) 922-1516
Telex: 175211 (PEN LABS BLMT)

Pen Labs Europe, Ltd.
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Jackson Street, St. Helens
Merseyside, England WA9 3AJ
Phone: St. Helens 62108 (0744)
Telex: 629705 PENEUR
KUWAIT FOUNDATION FOR THE ADVANCEMENT OF SCIENCES (KFAS)

INVITATION OF NOMINATIONS FOR KUWAIT ANNUAL PRIZES

The Kuwait Prizes were institutionalized to recognize distinguished accomplishments in the arts, humanities and sciences.

The prizes are awarded annually in the following categories:
A. BASIC SCIENCES
B. APPLIED SCIENCES
C. ECONOMIC AND SOCIAL SCIENCES
D. ARTS AND LETTERS
E. ARABIC AND ISLAMIC CULTURE

The prizes for 1985 will be awarded in the following fields:
A. Environmental Science
B. Corrosion
C. Social and Economic Aspects of Community Development in the Arab World.
D. Literary Biographies
E. Mechanics in Arab Heritage

BACKGROUND
1. Two prizes are awarded in each field: a prize to recognize the output of a distinguished Kuwaiti and a prize to recognize the output of a distinguished Arab.
2. Nominations for these prizes are accepted from academic and scientific centers, learned societies, past recipients of the prizes, and peers of the nominees. No nominations are accepted from political entities.
3. The output submitted must have been published during the last ten years.
4. Each prize consists of a cash sum of K.D. 10,000/- (U.S. Dollar 35,000), a gold medal, and a certificate of recognition.
5. Nominators must state clearly what distinguished work qualifies their candidate for consideration.
6. The results of KFAS findings regarding the selection of winners are final.
7. The papers submitted for nominations will not be returned regardless of the outcome.
8. Each winner is expected to deliver a lecture concerning the contribution for which he was awarded the prize.

Nominations, including complete curriculum vitae and updated lists of publications by the candidates and four copies of each paper published, should be addressed before October 31, 1985 to:

Director General
Kuwait Foundation for the Advancement of Sciences
P.O. Box 25263, Safat
Kuwait.

VENTURE DRUG DEVELOPMENT CAPITAL OPPORTUNITIES

Available to develop potential new drugs discovered by independent investigators in academic, government or private institutions.

We are a Swiss development and financial institution and would be pleased to consider preliminary non-confidential proposals on novel chemical or biological compounds which have already shown evidence of therapeutic potential. For further information write to:

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Science and Engineering: Diversity and Convergence

26-31 May 1985
Los Angeles

For further information, see the 8 March or 5 April issues of Science or call (202) 842-9530.
PERSONNEL PLACEMENT

SCIENCE publishes each Friday, except the last Friday of the year. Advertising is accepted only in writing, no abbreviations. Any deadline in ad must be at least 2 weeks after date of issue in which ad appears. Also, personnel advertising is accepted only with the understanding that the advertiser does not discriminate among applicants on the basis of race, sex, religion, age, color, national origin, handicap, or sexual preference.

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21 June issue (mailed 7 June): 28 June
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25 July issue (mailed 11 July): 14 July
22 August issue (mailed 8 August): 29 August
2 September issue (mailed 15 September): 29 September
20 September issue (mailed 6 October): 27 October
28 October issue (mailed 14 October): 31 October
5 November issue (mailed 21 November): 8 November
26 November issue (mailed 12 December): 14 December

POSITIONS WANTED

Biomedical Writer/Editor. One of Washington, D.C.'s busiest and most productive independent professionals, specializing in animal sciences annual meeting. To maintain a healthy policy, seeks return to West Coast roots in a responsible and challenging scientific/technical editorial position. Negotiable on percent time and compensation; if you can only afford me half-time, I'll work for you half-time. Self-employed for 9 years as founder and sole owner of Robert Enron Service, serving clients coast to coast, making approximately $50,000 annual income from an office at home. Requires a responsible, efficient, and certifiably not a clock-watcher. Clients include universities, health and human services agencies, White House Conference; editorial service firms; magazine, journal, and book publishers; manufactur- ers; and others. Rare combination of basic research, clinical laboratory, and university teaching background, plus extensive newspaper, scientific, magazine, scholarly journal, data-base, and special report experience, demonstrated ability to explain highly technical informa- tion clearly for readers of any level, plus extensive computer experience, including telecommunications and original programming for editorial work. Original writing. Interviewing. Literature search/analysis. Copy-editing. Rewriting. Computer-assisted indexing. Supervision/technical review of literally thousands of articles written by other science writers. Awards. Highly- respected, excellent references. Peter L. Petrikas, Ph.D., M.P.H., 3604 Bel Pre Road, Silver Spring, Md. 20906. Telephone: 301-940-4220.

Clinical Cytogeneticist. Ph.D. Experienced in CVS, chromosome free tissue, cancer cytogenetics, research, and teaching. Box 117, SCIENCE.

Immunologist. Ph.D. Academic and industrial re- search experience in cellular and molecular immu- nology, lymphocyte development, hybridoma and monoclonal antibodies. Excellent publications and references. Seeking academic or industrial position. Box 108, SCIENCE.


Molecular Electronics. Innovative scientist wishes to form or join strong group in molecular electronics and chemical sensors in academic, industrial, entre- preneurial, or international setting. Box 120, SCI- NCE.

Plant Scientist, Ph.D., 1975. Research and teaching experience in plant tissue culture (carrot and con- fers), plant physiology. Seeks academic or industrial position. Box 114, SCIENCE.

Radiation/Photobiologist, Ph.D., 1982. Three years experience in radiation biology, in cultured cell and experimental animal systems. Clinical application of hematopoietic mediator pho- todynamic therapy. Desires to research position in established laboratory. Box 121, SCIENCE.

POSITIONS OPEN

ACADEMIC GENERAL SURGEON at the University of Michigan Medical Center with emphasis in peripheral vascular surgery. Candidates should have an M.D. degree, A.B.S. certification, demonstrated skills as a clinical general surgeon, with special interest in and experience with special interest and experience in caring for patients with peripheral vascular disease, prior related research, and teaching and administrative experience. Send curriculum vitae and names of three references to: Robert H. Bartlett, M.D., Professor and Head, Section of General Surgery, The University of Michigan Hosp- itals, D2254 Medical Professional Building, Box 044, Ann Arbor, Michigan 48109. The University of Michi- gan is an equal opportunity, affirmative action Em- ployer. PCN 18.

ACADEMIC GENERAL SURGEON at the University of Michigan Medical Center with emphasis in burn surgery. Candidates should have an M.D. degree, A.B.S. certification, demonstrated skills as a clinical general surgeon, with special interest and experience in burn surgery, with special interest and experience in caring for burn patients, prior related research, teaching and administrative experience. Send curriculum vitae and names of three references to: Robert H. Bartlett, M.D., Professor and Head, Section of General Surgery, The University of Michi- gan Hospitals, D2254 Medical Professional Building, Box 044, Ann Arbor, Michigan 48109. The University of Michigan is an equal opportunity, affirmative action Em- ployer. PCN 141.

ACADEMIC SURGEONS at the University of Michigan Medical Center with emphasis in surgical oncology. Candidates should have an M.D. degree, A.B.S. certification, demonstrated skills as a clinical general surgeon, with special interest and experience in surgical oncology, prior related research, teaching, and administrative experience. Send curriculum vitae and names of three references to: Robert H. Bartlett, M.D., Professor and Head, Section of General Surgery, The University of Michi- gan Hospitals, D2254 Medical Professional Building, Box 044, Ann Arbor, Michigan 48109. The University of Michigan is an equal opportunity, affirmative action Em- ployer. PCN 250.

ACADEMIC SURGEON at the University of Michigan Medical Center with emphasis in burn surgery. Candidates should have an M.D. degree, A.B.S. certification, demonstrated skills as a clinical general surgeon, with special interest and experience in burn surgery, with special interest and experience in caring for burn patients, prior related research, teaching and administrative experience. Send curriculum vitae and names of three references to: Robert H. Bartlett, M.D., Professor and Head, Section of General Surgery, The University of Michi- gan Hospitals, D2254 Medical Professional Building, Box 044, Ann Arbor, Michigan 48109. The University of Michigan is an equal opportunity, affirmative action Em- ployer. PCN 253.

Immediate opening for Ph.D. as ASSISTANT CHAIRMAN, EXPERIMENTAL PATHOLOGY. Experi- ence in neurobiological or psychobiological research in the areas of behavioral and neurochemistry of the brain. Responsibilities: interacting with University administra- tion at all levels; overseeing departmental and research grant accounts; coordination of departmental teaching, graduate student recruiting and finan- cial aid, and so forth. Duties are largely administra- tive but applicants interested in contributing to teaching or research are welcome. Application and curriculum vitae to: Dr. Christine Enroth-Cugel, Chairman, Department of Neurobiology, Northwestern University, Evanston, Illinois 60201. Northwestern is an Equal Opportunity Employer.

ASSISTANT PROFESSOR. The Department of Biochemistry is seeking a person with significant experi- ence in the areas of bacterial chemotaxis and neuro- chemistry of mammals. Strong training in chemistry, neurobiology, and microbiology required. Ph.D. in molecular biology is required; postdoctoral expe- rience for more than 3 years preferred. A candidate should have demonstrated skills in the areas of sensory transduction of oxygen in bacteria and ca- rotid body and to assume normal academic responsi- bilities. Only U.S. citizen may apply. Applicants for the position should provide curriculum vitae, a short description of their research plan, and names of three references by 14 June 1985. Application and references to: Dr. Charles Slattery, Department of Biochemistry, School of Medicine, Loma Linda University, Loma Linda, Calif. 92350.

24 MAY 1985

1021
Cryo-Techniques for Electron Microscopy
September 22-27, 1985
a laboratory course at the
Duke University Marine Laboratory

Principal faculty: John Shelburne, Peter Ingram, Ann LeFurgy, John Silcox

Attendance limited to 12

For more information contact:
Woods Hole Educational Associates
Box EM, Woods Hole, MA 02543
(617) 540-5594

Soybean Geneticist

Immediate opening for Soybean Geneticist. The soybean geneticist carries out basic and applied research involving the following areas: Plant genetics, Plant breeding and cytogenetics. This research impacts the quality and quantity of grain yield and production efficiency in soybeans. Responsibilities include design, interpretation and evaluation of experimental protocols and data and management of program resources. In addition, the incumbent will be asked to develop and complete testing of genetically improved soybeans. Research would be conducted in the basic areas of genetics and breeding. This position requires a Ph.D. degree in Plant Genetics and either one year's documented post-doctoral experience in a job of the type being offered or two years' documented postdoctoral experience in soybean genetics. The two years' experience in soybean genetics must have included at least six months' documented experience in all of the following three areas, which six months' periods may have overlapped: a) soybean cytogenetics, b) soybean germplasm evaluation and c) field work which included plot design and statistical analysis. Also required is a demonstration of the ability of the applicant to carry out the design of complete genetic experiments and thorough evaluation and communication of the experimental results obtained from those genetic experiments. The applicant must document that he or she has general knowledge of the techniques involved in both tissue culture and bioengineering. The applicant must have a documented working knowledge of computer utilization. Also required is demonstration by the candidate of personal skills enabling him or her to work effectively with other scientists in both biological and biochemical programs. Salary: $35,000 to $43,000, commensurate with experience. Qualified candidates should send resumes and documentation of above minimum requirements to June Carroll #298467, Job Service; Missouri Division of Employment Security; 505 Washington Avenue; St. Louis, Missouri 63101. Equal Opportunity Employer M/F/H/V.

POSITIONS OPEN

ASSISTANT PROFESSOR

Applications are invited for a position at the level of assistant professor in the Department of Pharmacology of the Yale University School of Medicine. Applicants must have the Ph.D. degree, postdoctoral experience, and a strong commitment to develop antinociceptive agents for the treatment of pain, a bio-organic chemist or a medicinal chemist with interest and experience in the design and synthesis of cancer chemotherapeutic agents. In elucidation of the molecular mechanisms by which these express their cytotoxic actions. Interested candidates should send curriculum vitae, description of areas of research interests, and the names of three individuals who are able to assess the candidate's abilities by 1 July 1985 to: Dr. John P. Perkins, Department of Pharmacology, Yale University School of Medicine, New Haven, Conn. 06510. A. Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR—PLANT ECOLOGY

Tenure-track, 2-year position available 1 September 1985; Ph.D. required. Successful candidate will be expected to conduct research in the vicinity of the Kellogg Biological Station. Teaching responsibilities include an undergraduate field course in plant ecology and graduate level courses. Send curriculum vitae, reprints, statement of research interests, and three letters of recommendation by 15 June to: Search Committee, Kellogg Biological Station, Michigan State University, Hickory Corners, Michigan 49060. An Affirmative Action/Equal Opportunity Employer.

ASSOCIATE DEAN AND DIRECTOR

The associate dean and director is responsible for coordinating the mission of the New Mexico Agricultural Experiment Station and accepts other appropriately delegated responsibilities assigned by the dean of the College of Agriculture and Home Economics. Applicants should have an earned doctoral and administrative experience is desirable. Candidates should have an outstanding scientific experience in any area of research, plus knowledge of the teaching, research, and extension organization unique to land-grant universities. Applicants should submit curriculum vitae, and three letters of references to: Dr. Alvin S. Levine, Assistant Dean and Director, Terre Haute, Indiana University School of Medicine, 135 Holmedale Hall, Terre Haute, Ind. 47809. Indiana University is an Equal Opportunity/Affirmative Action Employer.

ASSOCIATE PROFESSOR OF MEDICINAL CHEMISTRY

Applications are solicited for a 12-month tenure-track position at the assistant professor level in pharmacology. The successful applicant will have an earned doctorate in pharmacology and have the potential to develop an independent research program. A significant portion of time will be spent teaching pharmacology to medical students. Experience in educational activities is, therefore, desirable. Interested candidates should provide a curriculum vitae, description of areas of research interests, and the names of three individuals who are able to assess the candidate's abilities by 1 July 1985 to: Dr. John P. Perkins, Department of Pharmacology, Yale University School of Medicine, New Haven, Conn. 06510. A. Equal Opportunity/Affirmative Action Employer.

IN VITRO FERTILIZATION LABORATORY POSITION

Position available for a gamete physiologist/embryologist to direct a private in vitro fertilization laboratory in Orlando, Florida. Must have experience in in vitro embryology or related techniques. Salary commensurate with experience. Send letter of application and curriculum vitae to: Gary W. DeVane, M.D. Box J-294 Department of Obstetrics/Gynecology University of Florida College of Medicine Gainesville, Fla. 32610 Telephone: 904-392-5680 Affirmative Action/Equal Opportunity Employer

ENDOCRINOLOGY. Assistant professor. One-year position, starting 15 September 1985, to teach endocrinology and basic endocrine opportunities available. Position available for recent Ph.D. or faculty on leave. Submit curriculum vitae and two letters of recommendation by 1 July 1985 to: Dr. Frank L. Moore, Department of Zoology, Oregon State University (OSU), Corvallis, Ore. 97331. OSU is an Affirmative Action/Equal Opportunity Employer and complies with Section 504 of the Rehabilitation Act of 1973.

THE UNIVERSITY OF MICHIGAN COLLEGE OF PHARMACY FACULTY POSITION IN MEDICINAL CHEMISTRY

Assistant, associate, or full professor, The University of Michigan, College of Pharmacy. Candidates must have a Ph.D. in medicinal chemistry, organic chemistry, biochemistry, or a closely related discipline and an established independent research program. Position requires tenure-track and graduate medicinal chemistry. Detailed resume, publications list, reprints of three recent publications, a list of current grant support, and letters of three recommendations should be sent to:

Dr. L. B. Townsend
Chairman, Search Committee
College of Pharmacy
The University of Michigan
Ann Arbor, Michigan, 48109
A nondiscriminatory, Affirmative Action Employer

SCIENCE Vol. 228 1022
POSITIONS OPEN

CHEMIST
An advanced technologies company is looking for a very special person to work directly with its president and founder. The candidate should have an in-depth knowledge of chemistry, be of exceptional intelligence, and be driven by scientific curiosity. The work must require the candidate to develop new technologies and processes. This position requires a candidate who has the maturity to work well with an extremely gifted and talented scientist.

Degree and prior experience are only an aspect of what is important to fill this position.

Résumés are to be sent to: R. D. Jacquin, Vice President, 470 Main Road, Towaco, New Jersey 07082.

DIRECTOR CENTER FOR ALCOHOL STUDIES
The University of North Carolina at Chapel Hill (UNC-CH) seeks a director for the Center for Alcohol Studies, an interdisciplinary center established for the purpose of conducting, coordinating, and promoting basic, clinical, and social and epidemiologic research on the causes and consequences of alcohol use and abuse. The Center is supported with stable core funding by the state of North Carolina, supplemented by research grants and contracts from federal and other sources.

The director is the chief administrative officer of the Center and reports to the dean of the School of Medicine. Candidates should have the M.D., Ph.D., or equivalent degree and be in a strong position to deal with alcohol problems. The candidate should demonstrate the ability to develop and maintain a major research program and to attract substantial grant and contract funding. The position requires the candidate to have at least eight years of experience in alcohol-related research and to have demonstrated the capacity to have a major impact on alcohol research in the country. Appointment at the level of associate or full professor is possible for qualified candidates.

Nominations should be received by 31 July 1985 by: William E. Laustie, M.D., Chair, Search Committee for the Director of the Center for Alcohol Studies, Office of the Dean, School of Medicine, University of North Carolina at Chapel Hill, Chapel Hill, N.C. 27514. UNC-CH is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

FACULTY POSITION—VIROLOGY
The Department of Virology and Epidemiology, Baylor College of Medicine, invites applications for a full-time, permanent academic appointee in a research-oriented department. We seek an innovative individual with a strong foundation in animal virology to establish and direct a competitive, high quality research program in MOLECULAR VIROLOGY and to contribute to the departmental graduate program. Appointment will be made at the assistant professor level; salary will be competitive. Applicants should have a Ph.D. or M.D. degree and postdoctoral training. Interested persons should reply by 15 June 1985, by sending curriculum vitae, statement of research interests, and the names of three references to: Dr. Janet S. Butel, Search Committee, Department of Virology and Epidemiology, Baylor College of Medicine, 1 Baylor Plaza, Houston, Texas 77030. Baylor College of Medicine is an Equal Opportunity Employer.

UNIVERSITY OF TORONTO
The Botany Department, University of Toronto, is seeking candidates for FACULTY POSITIONS at the ASSISTANT PROFESSOR level under the NSERC University Research Fellowship program. Although applications are invited from suitably qualified candidates whose research interests are in the area of plant molecular biology and genetics, plant pathology, or developmental plant biology, candidates in all areas of plant sciences will be considered. Salary will be at the assistant professor level and commensurate with experience. The successful candidate(s) will be expected to initiate and direct independent research programs, collaborate with other faculty in the department in the development of new programs, and teach courses in the area of expertise. The successful applicants' appointments would start as soon as possible after April 1986. Send curriculum vitae and three letters of reference to: Dr. J. P. Williams, Chairman, Department of Botany, University of Toronto, Toronto, Ontario, Canada M5S 1A1. Closing date for receipt of applications is 1 August 1985. In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents.

BOEHINGER INGELHEIM PHARMACEUTICALS, one of the fastest growing U.S. pharmaceutical firms, (a part of one of the top 15 pharmaceutical companies in the world) is seeking an experienced Clinical Research Physician to join its expanding Headquarters staff.

The person selected will have an M.D. degree and experience in clinical medicine and in performing drug studies. The ability to design as well as to monitor clinical programs is essential. Knowledge of IND and NDA processes, and other activities involving FDA requirements would be a plus. Evidence of an ability to function in a large organization is also important, with the final goal of bringing a new drug to market.

This position is in our Ridgefield facility which is ideally located near Westchester County, New York, and Danbury, Connecticut. Our compensation package provides you with competitive salaries and benefits that include medical insurance, tuition assistance, savings plan, a unique vacation program and more.

Please send resume with salary history/requirements to: Director, Employee Relations, BOEHRINGER INGELHEIM PHARMACEUTICALS, 90 East Ridge, P.O. Box 368, Ridgefield, Connecticut 06877. We are an equal opportunity employer m/f.

Boehringer Ingelheim
EXECUTIVE DIRECTOR
Program in Mathematical Sciences Education

The National Research Council (NRC), the principal operating arm of the National Academy of Sciences and the National Academy of Engineering, and a nationally prominent non-profit, non-governmental institution located in Washington, DC, invites applications for the position of Executive Director of its prospective Board on Mathematical Sciences Education. The new Board will be a major resource of expertise and analysis of issues arising in the U.S. system of education in the mathematical sciences, with initial emphasis in precollege education. Through its activities the Board will serve as a forum where educators, school officials at the state and local level, the mathematics teaching profession, mathematics associations, and others may address issues of mutual responsibility.

The Executive Director will manage the Board as one of the major program units of the NRC. Responsibilities include providing advice directly to the Chairman of the NRC, program initiation, administration and review, financial oversight, and staff recruitment and supervision. A Ph.D. or equivalent is desirable. Candidates should have a minimum of 10 to 15 years of experience relating broadly to U.S. resources, issues and programs in mathematical sciences education. Substantial leadership experience is required in program development, policy analysis, and the formulation of workable reform ideas. Familiarity with the activities of state and local government, education and science education programs, the relevant activities of national scientific and professional organizations, and contract and grant procedures as well as teaching experience in mathematics is desirable. Salary in $60's.

Applicants should send a resume to the Executive Officer, National Research Council, 2101 Constitution Ave., NW, Washington, DC 20418. An Equal Opportunity Employer.

POSITIONS OPEN
WANTED—DIRECTOR OF FERTILITY LABORATORY
Ph.D. with sperm background wanted to run private fertility laboratory and IVF program now functioning in Charleston, South Carolina. Excellent opportunity to be part of a growing center. Send curriculum vitae to: Great W. Patton, Jr., M.D., 315 Calhoun Street, Charleston, S.C. 29401. Telephone: 803-722-3294.

The University of Michigan Medical School, Department of Anesthesiology, may have, from time to time, several positions available at the INSTRUCTOR THROUGH PROFESSOR level. Board-certified or eligible anesthesiologist qualified to obtain Michigan licensure. Research, clinical, didactic experience necessary. Reply to: Box 122, SCIENCE.

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POSITIONS OPEN
Science: NEUROSCIENCE RESEARCH POSITIONS available for postdoctoral scientist interested in adult and/or child psychopathology. Tenure-track available for individuals with established competence. Generous benefits. New York State position in Rockland suburb of New York City. Send curriculum vitae to: Search Committee, NATHAN S. KLINE INSTITUTE FOR PSYCHIATRIC RESEARCH, Orangeburg, N.Y. 10962. An Equal Opportunity Employer, M/F.

POSTDOCTORAL POSITION. Microbial and molecular mechanisms of infectious disease: Experience with HPLC and eukaryotic membrane receptors desirable. Multidisciplinary approach with R. M. Weiner and R. R. Colwell, Department of Microbiology. Submit curriculum vitae and names of three referees to: Dr. Dale B. Benar, Department of Zoology, University of Maryland, College Park, Md. 20742. An Equal Opportunity Employer.

POSITIONS OPEN
POSITIONS OPEN FOR FACULTY POSITION IN PHYSIOLOGY.

The Department of Biochemistry and Biophysics, University of California, Davis, invites applications for a full-time, 11 month, tenure-track appointment as assistant professor of biochemistry and assistant biochemist in the Agricultural Experiment Station. A Ph.D. or equivalent degree in biochemistry or closely related field; postdoctoral experience of at least 2 years is preferred. Preference will be given to applicants from individuals with demonstrated research competence in the general areas of molecular biology or cell and developmental biology. The primary responsibilities will involve participation in graduate and undergraduate biochemistry courses, advising students, and guiding students in biochemistry. Applications must be received by 15 August 1985. Applicants should submit a resume, curriculum vitae, and letters of recommendation from three referees to: Dr. James G. Townsel, Chairman, Department of Biochemistry and Biophysics, University of California, Davis, California 95616.

The University of California is an Equal Opportunity Employer and invites applications from all qualified individuals.

FACTOR POSITIONS IN PHYSIOLOGY

We are seeking applicants for tenure-track positions in the Department of Physiology of Meharry Medical College. In selecting candidates, we hope to complement an existing departmental strength in neuroscience and neuroendocrinology and to assign teaching responsibility for the cardiovascular sections of the medical and dental curricula. In addition to teaching and participation in the department's graduate training efforts, successful candidates will be expected to perform productive research and achieve extramural funding support. Applicants must have a Ph.D. degree (or equivalent) and postdoctoral experience. Send curriculum vitae, brief description of research interest, and addresses of three references to: Dr. James G. Townsel, Chairman, Department of Physiology, Meharry Medical College, 1005 D. B. Todd Boulevard, Nashville, Tenn. 37208. These positions are available 1 July 1985. An Affirmative Action/Equal Opportunity Employer.

The Department of Biology and the Rosenstiel Research Center of Brandeis University invite applications from MOLECULAR IMMUNOLOGISTS for a faculty position at the assistant or associate professor level. Applicants must have a strong record of independent research contributions in immunology that includes work in molecular genetics. Excellence in teaching is also expected. Send curriculum vitae, a short description of accomplished and planned research, and names of three referees to: Dr. Alfred Nisonoff, Rosenstiel Center, Brandeis University, Waltham, Mass. 02254. Deadline for application is 1 August 1985. Brandeis University is an Equal Opportunity/Affirmative Action Employer.

Job description: POSTDOCTORAL ASSOCIATE to work on a project on cellular drug metabolism of anthracyclines and cell proliferation.

Duties include setting up experiments involving biochemical analytical procedures, such as fluorometric and HPLC assays for monitoring of drugs and their metabolites in cells and body fluids. Interpretation of data and interaction within a multidisciplinary program.

Qualifications: A recent Ph.D. in chemistry/biochemistry with experience in analytical biochemistry and/or molecular biology is essential. Should be capable of working with minimal supervision. Training in cell biology is a plus. Send curriculum vitae and three letters of reference to: A. Krishan, Ph. D., Comprehensive Cancer Center (D-64), University of Miami School of Medicine, P.O. Box 616960, Miami, Florida 33101.

POSTDOCTORAL POSITIONS available in magnetic resonance. We seek qualified people with Ph.D. in chemistry, physics, or biophysics with experience in nuclear magnetic resonance spectroscopy. Experience in imaging contrast agents and participation in research on biological dynamics, nuclear magnetic relaxation dispersion spectroscopy, magnetic field imaging contrast agents, in vivo magnetic resonances. The laboratory is well equipped. Please send resume by 7 June to: Robert G. Brown, University of Rochester Medical Center, Box 648, 601 Elmwood Avenue, Rochester, New York 14642. The University of Rochester is an Equal Opportunity Employer.
POSTDOCTORAL POSITION IN NEUROENDOCRINOLOGY

An immediate opportunity is available to study catecholamine interactions with hypothalamic and pituitary hormones. A number of projects are available for selection by the candidate. These include: (i) electrical recordings and function of ion channels, (ii) catecholamine biosynthesis and turnover, and (iii) regulation of hormone secretion by hypothalamic fragments and cultured pituitary cells. Candidates should have a strong background in either neurobiology, endocrinology, electrophysiology, or biochemistry. Experience with enzyme assays, receptors, HPLC, electrical recordings, or tissue culture is desirable. Send curriculum vitae and names of three references to: Dr. Nira Ben-Jonathan, Department of Physiology and Biophysics, Indiana University School of Medicine, 635 Barnhill Drive, Indianapolis, Indiana 46223.

An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION IN DEVELOPMENTAL NEUROBIOLOGY AND NEUROTOXICOLOGY

An immediate opportunity for a postdoctoral researcher position is available in developmental neurobiology and neurotoxicology. The research includes development and differentiation of macrogial cell types, microglial cells and their reaction to injury. The laboratories are also engaged in the study of the effects of heavy metals on growth and development of the CNS. Backgrounds in immunology, immunocytochemistry isolation and characterization of proteins and biomolecules, cell cultures, and basic morphological techniques will be helpful. Send curriculum vitae and names of references to: Dr. Ben H. Choi, Division of Neuropathology, Department of Pathology, University of California, Irvine, Irvine, California 92717.

An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately for study of molecular genetics and biochemistry of transcription factors. Background in biochemistry, genetics, or molecular biology is required. Send curriculum vitae and names of three references to: Dr. Richard C. Deonier, Molecular Biology, ACBFR 406-mc 1481, University of Southern California, Los Angeles, Calif. 90089-1481. An Equal Opportunity Employer.

POSTDOCTORAL POSITIONS to study genes involved in minor progression, metastasis, and resistance to chemotherapeutic drugs. Techniques to be utilized include recombinant DNA methodology, in-gel DNA renaturation, orthogonal gel electrophoresis, and cell culture. Background in molecular biology and biochemistry is desirable. Salary competitive and commensurate with experience. Please send résumé and three letters of reference to: Dr. Igor Roninson, Center for Genetics, University of Illinois at Chicago, 866 South Wood Street, Chicago, Ill. 60612. The University of Illinois is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION available immediately to participate in studies on the molecular biology of cytomegaloviruses. Minimum qualifications are a Ph.D. in biochemistry, molecular biology, or experience in virology, genetics, protein or nucleic acid chemistry is desirable. Send curriculum vitae and names of three references to: Dr. Mark F. Stinski, Department of Microbiology, University of Iowa School of Medicine, Iowa City, Iowa 52242.

An Equal Opportunity Employer.

POSTDOCTORAL POSITION available after 1 October. Cell biology—biochemistry laboratory studying isolated cardiac membrane channel proteins seeks immunologist for immunofluorescence and immunoelectron microscopic investigations. Applicant should have doctorate and experience with poly- and monoclonal antibody techniques. Send curriculum vitae, description of research interests, and references to: Dr. Ernest Page, Department of Medicine, BCH Box 137, The University of Chicago, 5841 South Maryland Avenue, Chicago, Illinois 60637. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS (Ph.D. or M.D.) available in developmental genetics and molecular biology. Candidates must be U.S. citizens. Send résumé and three names of references to: Dr. Dorothy Bennett, Sloan-Kettering Institute for Cancer Research, 1275 York Avenue, New York, N.Y., 10021.
EXECUTIVE DIRECTOR

Commission on Engineering and Technical Systems

The National Research Council (NRC), the principal operating arm of the National Academy of Sciences and the National Academy of Engineering, a nationally prominent non-profit, non-governmental institution located in Washington, DC, invites applications for the position of Executive Director of the Commission on Engineering and Technical Systems. The Commission is a major resource of expertise and analysis of issues and problems arising in engineering and technical systems. The Commission’s activities include twelve major boards that carry out studies spanning: engineering manpower; manufacturing technology; advanced science and technology in such important areas as materials; natural hazards engineering, hazards prediction and reduction; building research; marine engineering, energy engineering aeronautics research and development; and space engineering, among others.

The Executive Director manages the Commission as one of eight major program units of the NRC. Responsibilities include providing advice to the Chairman of the NRC, program initiation, administration and review, development of funding and budgets, and supervision of staff. A Ph.D. or equivalent is desirable with a broad background in engineering and the physical sciences. Candidates should have a minimum of 10 to 15 years of experience relating broadly to national engineering. Substantial leadership experience is required in program development, policy analysis, and policy formulation supervision of projects, staff and quality of reports and advice from the work of the Commission. Familiarity with activities of government research and development agencies, and contract and grant procedures and with industry and institutions of higher education is essential.

Applicants should send resume to Executive Officer, National Research Council, 2101 Constitution Ave., N.W., Washington, DC 20418.

An Equal Opportunity Employer.

POSTDOCTORAL POSITION in EVOLUTIONARY MOLECULAR BIOLOGY available immediately. Two projects: (i) Gene structure in archaeabacteria—transposable element behavior, development of in vitro transcription/translation systems, and transformation systems. (ii) Multigene family evolution—dispersed and clustered eukaryotic 5S genes. Send curriculum vitae and names of three references to: Dr. W. Ford Doolittle, Department of Biochemistry, Dalhousie University, Halifax, Nova Scotia, Canada, B3H 4H7. Telephone: 902-424-3569.

Children’s Hospital—Harvard Medical School.

POSTDOCTORAL RESEARCH on the isolation and purification of an inhibitor of tumor neoangiogenesis derived from cartilage. The research may also involve the development of biological assays. Background in biochemistry, biology, or chemistry desirable. Send resume to: Dr. Robert Langer, Children’s Hospital, Department of Surgery, 300 Longwood Avenue, Boston, Mass. 02115.

POSTDOCTORAL POSITION in immunology, available immediately for Ph.D. to study structure/function of B cell surface molecules. Early events in activation of immunodeficient versus normal B cells. Prefer experience with cellular immunologic and/or immunochemical techniques. Please send curriculum vitae and the names of three references to: Dr. Edward Clark, Department of Microbiology and Immunology, SC-42, University of Washington, Seattle, WA 98195. The University of Washington is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH, PLANT MOLECULAR BIOLOGY. Postdoctoral positions in regulation of gene expression in higher plants. Send curriculum vitae and three letters to: Dr. Thomas W. Okita, Institute of Biological Chemistry, Washington State University, Pullman, Wash. 99164-6340.

POSTDOCTORAL POSITION available immediately for 2 years to work on neurotoxins which affect dopaminergic and serotonergic systems. The project requires extensive HPLC with electrochemical detection of catecholamines and indoleamines with enzyme assisted utilizing UV or fluorescence spectroscopy. Recent Ph.D. with experience in HPLC/ECD strongly preferred. Curriculum vitae and three letters of recommendation to: Dr. C. G. Wong, University of Southern California School of Medicine, Department of Ophthalmology, 1200 San Pablo Street, Los Angeles, Calif. 90033. Telephone: 213-224-7918.

POSTDOCTORAL POSITION Available for recent Ph.D. in microbiology or biochemistry. Studies of bacterial cell wall, cell surface, and secreted proteins. Program involves use of both traditional biochemical, genetic, and immunological (monoclonal antibody) techniques. Ability to work independently is essential. Send curriculum vitae and three letters of recommendation to: Robert E. Scott, M.D., Head, Section of Experimental Pathology, Mayo Clinic and Foundation, Rochester, Minn. 55905. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately, to participate in ongoing studies of the neurobiological, pharmacological, and behavioral interaction of abused substances. Strong background in either behavioral pharmacology, behavioral neurochemistry, or the experimental analysis of behavior is desirable. Send curriculum vitae and three letters of recommendation to: Dr. James E. Smith, Department of Pharmacology, Louisiana State University School of Medicine, P.O. Box 33932, Shreveport, La. 71130. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE to conduct research in physiology of hypothalamic neuroendocrine systems at the Laboratories for Molecular Neuroendocrinology and Diabetes (LMNED), Tulane University Medical Center, New Orleans, Louisiana. Ph.D. in related field required. Expertise in molecular biology, peptide purifications, immunoassays, HPLC, and FPLC. Support at NIH stipend level provided, starting June 1985. Challenges potential with research in association with the United States-Japan Cooperative Biomedical Research Laboratories in newly established facilities. Development of independent research related to neuroendocrinology is encouraged. Send curriculum vitae and three letters of reference to: Dr. Akira Aimiura, Director, LMNED, Helbert Research Center, Tulane University, Belle Chasse, La. 70037.

POSTDOCTORAL RESEARCH ASSOCIATE position available immediately to work on biochemical and genetic aspects of biotoper biosynthetic pathway. Scope of research opportunities will range from characterization of PKU cofactor variant mutations in man to comparative biochemical studies in rats, Drosophila, and lower organisms. Experience with HPLC and enzymatic methodologies essential. Opportunities available for collaboration with recombinant DNA group and large Drosophila genetic group. Salary range: $18,000 to $20,000. Send resume and letters of reference to: Dr. Edwin W. Naylor, Department of Reproductive Genetics, Magee-Womens Hospital, Pittsburgh, Pa. 15213.

PROFESSOR OF NEUROBIOLOGY

Applications desired for senior level, tenured position in neurobiology, beginning 1 September 1986 in the Department of Biology, University of Virginia. Curriculum vitae, statement research and teaching goals, and names of five references should be sent by 30 June 1985 to: Professor Oscar L. Miller, Jr., Chairman, Neurobiology Search Committee, Department of Biology, Gilmer Hall, University of Virginia, Charlottesville, Va. 22901. An Equal Opportunity/Affirmative Action Employer.

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SCIENCE, VOL. 228
RESEARCH SCIENTIST

An opportunity exists for a motivated scientist to conduct innovative exploratory experimentation on adipose cell metabolism within the framework of a multidisciplinary research team working in the area of domestic livestock growth and development. With a strong molecular understanding of lipid metabolism, the applicant will be expected to draw from the fields of neurobiology, peptide biology, endocrinology and cell biology to establish a basic research program in adipose cell differentiation, metabolism, nutrient flux/energetics or a related area.

The minimum qualifications include a Ph.D. and two years of post doctoral or related experience in biochemistry, cell biology or nutrition. Demonstrated ability in enzymology, protein/lipid purification, tissue culture, cell fractionation and radio ligand preparation is highly desirable. Familiarity with large animals will be helpful.

Kalamazoo is a medium-sized Southwestern Michigan community with immediate access to a mix of excellent cultural, educational and recreational pursuits including numerous lakes and four-season climate. Upjohn offers an excellent salary, commensurate with experience and an outstanding benefits program.

For confidential consideration, please call inside Michigan, COLLECT 616-323-6767 or from outside Michigan, TOLL FREE 1-800-253-8600, ext. 3-6767, to request an employment application sent to you immediately. Please refer to Ad Number 17479-A when calling.

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24 MAY 1985
POSTDOCTORAL POSITIONS available 1 July 1985. One position will involve studies on the molecular basis of the genetic deficiency of pyrimidine pathway enzymes and possible associated immunodeficiency in hereditary orotic aciduria; the other position will focus on the mechanisms of DNA amplification associated with cellular resistance to chemotherapeutic agents. Both positions require the use of molecular biology techniques. Experience in genomic library construction, DNA sequencing, and expression vectors will be advantageous but not required. Starting salary of $20,000 per year. Send curriculum vitae, a summary of research experience and future interests, and names, addresses, and telephone numbers of three references to: Dr. B. Parker Suttle, Division of Biochemical and Clinical Pharmacology, St. Jude Children's Research Hospital, 332 North Lauderdale, P.O. Box 318, Memphis, Tenn. 38101. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available during 1985/1986 in the Developmental Biology Center, University of California, Irvine, California 92717. Recent Ph.D. required, preferably in cell, molecular, or developmental biology, neurobiology, or genetics. Positions are for research with Dr. Scott Fraser (patternning of neural development; cell communication through gap junctions); Dr. Susan Bryant (limb development and regeneration in amphibians and mammals); Dr. Hans Bode (stem cell differentiation, pattern formation); or Dr. J. Lawrence Marsh (molecular genetics of Drosophila). U.S. citizenship or permanent residency status required. For more information, contact the individuals above. To apply, submit resume and description of research interests and experience, and have three letters of recommendation sent to: The Director, Developmental Biology Center (address above). Deadline for applications: 1 August 1985. The University of California is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL/RESEARCH ASSOCIATE positions are immediately available in nuclear structures and functions. One project involves primary transcripts, heterogeneous nuclear RNA, and small nuclear RNA. The other deals with the identification and characterization of the genes of the blood group antigens. Background in biochemistry, molecular biology, and DNA recombinant technology is essential. Applicant will join in active research program in recombinant DNA technology. Job security with opportunity for advancement, competitive salary, excellent benefits. Send curriculum vitae and letters of reference to: Dr. Oscar Pogo, Head, Department of Cell Biology, Kimball Research Institute, New York Blood Center, 310 East 67 Street, New York, N.Y. 10021. Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE positions are available for summer or fall 1985 to study the induction of cytochrome P-450 isozymes by the alcohol dehydrogenase inhibitors, pyrazole, and 4-methylpyrazole. Experience in protein purification and characterization will be necessary. Appointment for 2 years. Salary negotiable. Please send resume, brief summary of research experiences, and three letters of recommendation to: W. S. Parr, Department of Biochemistry, MOUNT SINAI SCHOOL OF MEDICINE, One Gustave L. Levy Place, New York, N.Y. 10029. An Equal Opportunity Employer.

POSTDOCTORAL/RESEARCH ASSOCIATE positions are immediately available in nuclear structures and functions. One project involves primary transcripts, heterogeneous nuclear RNA, and small nuclear RNA. The other deals with the identification and characterization of the genes of the blood group antigens. Background in biochemistry, molecular biology, and DNA recombinant technology is essential. Applicant will join in active research program in recombinant DNA technology. Job security with opportunity for advancement, competitive salary, excellent benefits. Send curriculum vitae and letters of reference to: Dr. Oscar Pogo, Head, Department of Cell Biology, Kimball Research Institute, New York Blood Center, 310 East 67 Street, New York, N.Y. 10021. Equal Opportunity Employer.

RESEARCH ADMINISTRATOR IPM SPECIALIST
To head a research program on pests and diseases of potato and tomato in Boulder, sponsored by the Agency for International Development (AID), Spanish capability, strong background in IPM, and experience in research administration required. Position is for 1 year, possibly beginning July 1985, on a Personal Services Contract with AID. Address inquiries and resumes to: Ag B, AID/AG R, Room 413, SA-18, Washington, D.C. 20523; telephone: 703-235-8886. AID is an Equal Opportunity Employer.

RESEARCH ASSISTANT PROFESSOR, ELECTROPHYSIOLOGY
Research faculty position available at the University of Arizona College of Medicine. Major responsibilities will be development of a research program in myocardial electrophysiology. Candidate will work closely with clinical electrophysiologists. Will have joint appointment in the Department of Medicine and Physiology and have opportunity to teach in the Department of Physiology. Ph.D. degree and postdoctoral training are prerequisite. Send summary of research plans, curriculum vitae, and names and addresses of three references to: Dr. Frank I. Marcus, Cardiology Section, University of Arizona Health Sciences Center, Tucson, Arizona 85724, by 15 July 1985. The University of Arizona is an Equal Opportunity/Affirmative Action Employer.

RESEARCH BIOCHEMIST—Federal Service. The Letterman Army Institute of Research, San Francisco, California, is seeking a Ph.D. biochemist to conduct independent research in protein biochemistry. Areas of investigation include protein structure, modification, purification, antigenic determinants, hemoglobin structure and function; and plasma fractionation and storage. Must be U.S. citizen. Salary: $37,599 to $48,876. Send resume and publication list to: C. Swift, SGRD-ULZ-RM, Letterman Army Institute of Research, Presidio of San Francisco, Calif. 94129. An Equal Opportunity Employer.
Artificial Intelligence

This collection of articles from Science by M. Mitchell Waldrop explores the newly emerging field of artificial intelligence, AI. What AI has really accomplished, where might it plausibly be expected to go, and what are its limits? In particular, the articles focus on the foundations of AI—the effort to understand the phenomenon of intelligence. Included are such topics as expert systems, natural language understanding, computer vision, and parallel processing. This series is available now.

Single copies $2.00; twenty or more $1.00 each. Orders must be prepaid.

Write to AAAS, Dept. AI, 1515 Massachusetts Ave., N.W., Washington, D.C. 20005.
POSITIONS OPEN

RESEARCH ASSISTANT or ASSOCIATE PROFESSOR to join multidisciplinary team investigating new approaches to brain tumor therapy. Individual should have Ph.D. in pharmacology, molecular biology, neurochemistry or related area. Some experience in cancer research, pharmacology, or tumor biology is required. Position available immediately. Send curriculum vitae, list of publications, salary requirements and names and addresses of three references to: Dr. A. A. Morantz, Brain Tumor Institute, 2316 East Meyer Boulevard, Kansas City, Mo. 64132.

Position: RESEARCH ASSISTANT PROFESSOR. This position is part of a horse blood typing program.

Location: Department of Veterinary Science, University of Kentucky, Lexington, Ky. 40546-0076.

Qualifications: Ph.D. must have a Ph.D. degree in genetics, biochemistry, or in a closely related field. Experience with polycrylamide gel electrophoresis and isoelectric focusing will be beneficial to the applicant.

Job description: The appointee will be responsible to develop a program to test horses for genetically determined biochemical polymorphisms for use in identification and parentage analyses. Strong background in synthetic organic chemistry is preferred. Current research should include mutation analysis for eight genetic systems. This program should also include research to uncover additional polymorphic loci, to determine genetic variation at new loci, and to determine the significance of genetic variation in horses. The program will include test for biochemical polymorphisms in other gene products, the program which includes testing for blood group markers, lymphocyte markers, and biochemical polymorphisms in serum proteins.

Salary: Commensurate with qualifications and experience. This is a non-tenure-track position.

Availability: The position is presently open for applicants until until filed. Those interested may apply in writing, enclosing curriculum vitae and the names of three persons who might provide a letter of recommendation to:

Dr. Ernest Bailey
Department of Veterinary Science
University of Kentucky
Lexington, Ky. 40546-0076
Telephone: 606-257-3656

RESEARCH MANAGER—CARDIOVASCULAR DISEASES. To lead a biological research group responsible for novel therapeutic agents for cardiovascular diseases. The candidate must have an M.D. or a Ph.D. in pharmacology. A strong background in synthetic organic chemistry is preferred. At least 10 years of academic or industrial experience in cardiovascular pharmacology is required. The candidate must have a minimum M.S. degree in a natural science with a strong background in immunology and genetics. Previous laboratory experience preferred. Salary: $115,000. Send curriculum vitae and a list of publications to: R. Shils, Delaware State Department of Labor, P.O. Box 929, Newark, Delaware 19714-0929. Job reference number 600314.

Position: RESEARCH SPECIALIST. The work is in a horse blood typing laboratory.

Location: Department of Veterinary Science, University of Kentucky, Lexington, Ky. 40546-0076.

Qualifications: Ph.D. must have a minimum M.S. degree in a biological science with a strong background in immunology and genetics. Previous laboratory experience preferred. Salary: $115,000. Send curriculum vitae and a list of publications to: R. Shils, Delaware State Department of Labor, P.O. Box 929, Newark, Delaware 19714-0929. Job reference number 600314.

Position: RESEARCH ASSOCIATE. Research assistant position available now for M.D., Ph.D., or M.D./Ph.D. graduate or with postdoctoral experience. Current emphasis in the laboratory is on molecular mechanisms that regulate gene expression in terms of differentiation of neurons and related endocrine cells. Send resume and the names of two references to: Dr. William Neufeld, M.D., Department of Neurological Surgery, Weillman Research Building, Boston, Mass. 02114.

RESEARCH ASSOCIATE

To perform research involving the molecular mechani- sm of eukaryotic chromatin assembly. Duties include the design and execution of experiments, communication of information and results, and supervision of research technicians and graduate stu- dents. The position requires an M.S. in life sciences (biochemistry, molecular biology, or microbiology for physiology), at least 2 years of research experience in biochemistry, and a demonstrated knowledge of affinity chromatography, mammalian cell culture, and eukaryotic chromatin structure as evidenced by publication of original research. Forty hours per week for antigens and toxins of bacteria, viruses, or Protozoa that cause intestinal diseases in animals; collaborates in studies to clone and sequence the gene for the virulence of bacteria and Protozoa. Salary: $6,250-$11,400.

RESEARCH ASSOCIATE POSITIONS. Areas of research include microbial genetics and azo- and polyaromatic hydrocarbons. Applications, including characterization of metabolic and their interaction with, and activation of carcinogenicity. Salary: $26,000-$30,000; availability of funds for at least 2 years of postdoctoral training. Duties are to perform research in biochemis- try or biochemistry or pharmacology required; related experience preferred. Candidates will work with collaborators involved in the synthesis of potential metabolites of the carcinogens. Position to provide opportunities for developing new areas of scientific interest. Send résumé and three references to: Director, Great Lakes Labora- tory, State University of New York at Buffalo, 1300 Elmwood Avenue, Buffalo, N.Y. 14222. Telephone: 716-878-5422.


RESEARCH SCIENTISTS IN ORGANIC CHEMISTRY

The Dana-Farber Cancer Institute, affiliated with Harvard Medical School, announces openings for Ph.D. scientists in organic chemistry with a back- ground in synthesis. Some experience in biochemis- try would be desirable. Applicants will join a team involved in research and development of immuno- toxins as regimens for treatment of human cancers. Appointment will be at either the postdoctoral or junior level depending on experience. Applicants should arrange to have two and three letters of recommendation be sent to: Dr. Walter A. Blättler, Division of Tumor Immunology, Dana- Farber Cancer Institute, 44 Binney Street, Boston, Mass., 02115. An Affirmative Action/Equal Opportu- nity Employer.

TECHNICAL POSITIONS BIOTECHNOLOGY

NPI, a firmly established plant research and product company is seeking technical personnel in technical pos- itions (M.S. or B.S.) in molecular biology. The posi- tion requires experience in recombinant DNA tech- niques. Please send curriculum vitae, including names of three references, to:

Dr. R. K. Prakash
NPI
417 Wakara Way
Salt Lake City, Utah 84108

POSITIONS OPEN

RESEARCH PROGRAM MANAGER. Research sci- entists and engineers with experience in proposal evaluation and grant management are invited to join our team managing a multi-million dollar re- search program. A Ph.D is required, and knowledge of technical management. Current salary is $25,870 and is available after 1 July. Send curriculum vitae and three references by 10 June to: Alice Schmitt, Kansas Science Council, 200 Main Street, Suite 210, Little Rock, Ark. 72201. An Equal Opportunity/Affirmative Action Employer.

The Department of Chemistry at Purdue University solicits applications for a SENIOR FACULTY POSITION in physical chemistry, with specialization in photochemistry, photochemistry, or related areas. Applicants must have established a clear interna- tional stature in research. Curriculum vitae, a detailed description of research, and three letters of recommendation should be sent by 15 July 1985 to: Professor L. Purdie, Head, Department of Chemistry, Purdue University, West Lafayette, Indi- ana 47907. Purdue is an Equal Opportunity/Affirmative Action Employer.

TECHNICAL DIRECTOR ELECTRON MICROSCOPE LABORATORY

The University of Texas Health Science Center at San Antonio is currently recruiting for a director, Electron Microscopy Facility. Individual to head Electron Microscopy Facilities, including TEM, SEM, and STEM. Experience in biological and structural microscopy, as well as applications, must be demonstrated. Some experience in management of large, complex facilities. Interested applicants should submit résumé to: The University of Texas Health Science Center at San Antonio, Personnel Office, 7703 Floyd Curl Drive, San Antonio, Texas 78284.

Equal Opportunity/Affirmative Action Employer.

FEELWISHES

MEDICAL ONCOLOGY RESEARCH FELLOWSHIP

Positions available July 1985 for a 3-year fellowship at the Fox Chase Cancer Center. The fellowship provides extensive clinical management and research experience. The subsequent years are devoted to a career in inter-disciplinary research and training. Laboratory opportunities are available throughout the Center, including the Institute for Cancer Research. General areas of interest include developmental and tumor biology, molecular genetics, viral and clinical carcinogenesis, basic immunology, pharmacology, and MRI spectroscopy. Individuals Board-eligible or certified in internal medicine who are interested in an academic oncology career should apply: Robert F. Lippok, M.D., Chief, Medical Director, Fox Chase Cancer Center, Philadelphia, Pa. 19111.

POSTDOCTORAL FELLOWSHIPS, summer 1985. The Institute for Medical Research, a National Cancer Institute funded institute investigating growth plate dynamics, osteoporosis, and electrical osteoregulation. Requires knowledge of biomechanics, specifically bone histology, and an understanding of bone physiology. Salary: $15,000 to $20,000, depending on experience. Send curriculum vitae to: Dr. Louis Lippok, Department of Orthopaedic Surgery, University of Nebraska Medi- cal Center, 42nd and Dewey Avenue, Omaha, Neb. 68105. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP available 1 Sep- tember 1985 to engage in an active research program on aspects of the development of the mammalian oocyte, in vivo and in vitro. Applicants must have significant experience in mammalian oocyte culture and developmental conditions. Familiarity with cell biolo- gical techniques including tissue culture, electron microscopy, and animal model systems would be desirable to the successful candidate. Send curriculum vitae and a list of publications to: Dr. Everett Anderson, Department of Cellular Biology, and the Laboratory of Human Reproduction and Reproductive Biology, Harvard Medical School, 50 Shattuck Street, Boston, Massachusetts 02115. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP TO STUDY MOLECULAR BIOLOGY OF GLOBIN GENE EXPRESSION IN HUMANS. Opening in Division of Pediatric Hematology, Department of Pediatrics, University of Michigan School of Medicine, to be filled immediately by M.D. or Ph.D. with experience in nucleic acids. Position is supported by N.I.H. Grant MT-051, and must be U.S. citizens or permanent residents. Send résumé to: Dr. Samuel S. Jaffe, Children's Hospital of Philadelphia, 34th and Civic Center Boulevard, Philadelphia, Pa. 19104. An Affirmative Action/Affirmative Action Employer.

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ENGENICS

Engenics is a BIOPROCESS DEVELOPMENT COMPANY committed to international leadership in providing innovative and economic processes and systems for making, purifying and using a wide range of biologically-derived materials.

Engenics, located on the San Francisco Peninsula, has opportunities for those highly qualified professionals (PhD, MS, or BS level) with at least two years of applicable industrial experience in the following areas:

- MOLECULAR BIOLOGY
- MICROBIOLOGY
- BIOCHEMISTRY
- PROTEIN CHEMISTRY
- ANALYTICAL CHEMISTRY
- FERMENTATION ENGINEERING
- SEPARATIONS ENGINEERING
- BIOCHEMICAL REACTOR & PROCESS DESIGN
- BIOCHEMICAL PLANT DESIGN,
  COST ANALYSIS, AND OPERATIONS

If you would be challenged by an entrepreneurial, results-oriented position with an excellent salary and benefits package, including an opportunity for equity participation, please send your resume to:

ENGENICS, INC.
3760 HAVEN AVENUE
MENLO PARK, CALIFORNIA 94025

VETERINARY PATHOLOGIST

The Upjohn Company, a research oriented pharmaceutical company, has a position open in its Pathology and Toxicology Research Unit for a Veterinary Pathologist. The incumbent will design, conduct, and evaluate toxicity studies on human and animal health pharmaceuticals under development. He/she will participate on an interdisciplinary research team such as Infectious, Central Nervous System, or Cardiovascular Diseases, etc., and will also conduct research in toxicologic pathology and mechanisms of toxicity.

Requirements for the position include:

1) a DVM or equivalent
2) advanced training in veterinary pathology (Board Certification by American College of Veterinary Pathologists preferred)
3) demonstrated research ability (Ph.D. Veterinary Pathology preferred)
4) excellent oral and written communicative skills

For confidential consideration, please call from outside Michigan TOLL FREE 1-800-253-8600 and ask for extension 3-6767; or call from Michigan COLLECT 616/253-6767 to request an employment application be sent to you immediately. Please refer to ad number 17732-H when calling.

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INVITRON

CELLULAR AND MOLECULAR BIOLOGISTS

INVITRON has several immediate openings for researchers with expertise in molecular or cellular biology.

Openings include:

Ph.D. level molecular and/or cell biologists and experienced mammalian tissue culture technicians to work in INVITRON's Research Division in San Carlos, California located just minutes south of San Francisco.

Experienced mammalian cell culture technicians to work in our St. Louis, Missouri manufacturing facility.

INVITRON is a dynamic young company devoted to the development of large-scale mammalian cell culture. We offer excellent compensation, benefits, and opportunity for personal growth. Interested candidates are requested to submit detailed curriculum vitae, including publications and the names of three references to:

Personnel Director
INVITRON
8000 Maryland Ave. Suite 860
Clayton, Mo. 63105

Section Head
Microbiological Research & Development

G. D. Searle, a respected leader in pharmaceutical research and development, has a key leadership position available that will play a very significant role in its biotechnology based R&D programs.

The candidate should have a Ph.D. in enzymology, microbiology, biochemistry, microbial genetics, or a related discipline. Industrial experience in fermentation processes, enzymology, and a background in genetic engineering is preferred.

This position will be highly visible within the company and provide an opportunity for significant impact upon the achievement of R&D and business objectives.

It is important that the candidate have excellent communication and coordination skills to interact with other parts of the organization in the planning and executing of biotechnology process activities. In addition supervisory and management skills should have been demonstrated.

We offer an excellent benefit package, salary commensurate with experience and full relocation allowance. If you feel you meet the above qualifications and are interested in a unique opportunity to demonstrate scientific creativity and leadership skills in a highly professional environment, please submit your resume, including salary requirements, in confidence, to:

Barbara Gardner
#7DZ-12
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Skokie, Illinois 60077

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This POLYVAR widefield photomicroscope, for example, offers:
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