trodes together with a computerized electrochemical protocol. The carbon fiber electrode tip is only 35 μm in diameter and is 100 to 200 μm long, thus assuring local measurements. Concentrations as low as 10 nM can be detected. The electrode response time is less than a second, and the sampling rate is up to 25 samples per second. Medical Systems. Circle 146.

Fluorescence Imaging System

The Lasertrak-3000 is a high-performance, cost-effective imaging system that makes use of laser-induced fluorescence to detect and quantify DNA and proteins separated by gel electrophoresis. It also functions as a laser transmission densitometer for scanning visibly stained gels and autorads. The unit scans a sample up to 25 cm by 20 cm in minutes. DNA fragments between 0.005 and 400 ng can be detected on a gel in a single scan using ethidium bromide as the fluorescent stain. Changing sample holders is all that is required to operate the laser in densitometer modes. Absorbance measurement over a 0.4 O.D. range is possible. Instrumentation Development. Circle 147.

Exploratory Data Analysis Software

Cornerstone for Windows is exploratory data analysis software for engineers and technical professionals that combines the power of statistical software with the ease and familiarity of a spreadsheet. The program transcribes spreadsheets by bringing large volumes of data to life in an interactive, graphical environment. With simple mouse clicks, megabytes of data can be transformed into graphical representations, allowing users to visualize data relationships and then perform numerical analysis. The graphics are dynamically linked to let users explore data and visualize relationships through a range of graphs, including line plots, scatter plots, box plots, histograms, bar graphs, interval plots, and three-dimensional graphs. BBN Software Products. Circle 148.

Literature


Chemicon 1995 Research and Diagnostic Products includes more than 600 new products, including neuroimunolesioning reagents; an expanded line of cell surface marker antibodies; new cytokine reagents, including enzyme-linked immunosorbent assay kits for quantitative determinations; plates for cell adhesion assays; products for gel electrophoresis and immunoblotting; and new antibodies to transcription factors, adhesion molecules, enzymes, lectins, and estrogen and progesterone receptors. Chemicon International. Circle 150.

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POSITIONS OPEN

ASSISTANT PROFESSOR MARINE MICROBIOLOGY

The Center for Deep-Sea Ecology and Biotechnology at Rutgers University seeks candidates for a tenure-track ASSISTANT PROFESSOR position in Marine Microbiology. The successful candidate should have expertise in isolation, culture and biochemical characterization of microorganisms from deep-sea environments with special reference to industrial biotechnology and biodegradation. The individual will be expected to work with microorganisms from various deep-sea environments. Opportunities exist with the Center for Aquacultural Molecular Biology, the Center for Theoretical and Applied Genetics, and the Institute of Marine and Coastal Sciences. Responsibilities will include teaching courses at the undergraduate and graduate levels and is required and development of independent extramural research funding will be expected. Academic line will reside within the Department of Biochemistry and Microbiology at Rutgers. A letter of application, curriculum vitae, and the names of three references should be sent by May 15, 1995, to: Dr. Richard A. Lutz, Center for Deep-Sea Ecology and Biotechnology, Institute of Marine and Coastal Sciences, Dudley Road, Cook Campus, P.O. Box 231, New Brunswick, NJ 08903. Telephone: 908-932-8959 ext. 200; FAX: 908-932-6557; Email: RLUTZ@zodiac.rutgers.edu. Rutgers is an Equal Employment Opportunity/Affirmative Action Employer.

CLINICAL AND LABORATORY FACULTY POSITIONS

Faculty positions at the ASSISTANT and ASSOCIATE PROFESSOR levels are available within the Bone Marrow Transplant Program at Thomas Jefferson University. The program is part of the NCI-designated Cancer Center located at Jefferson. Research programs are currently under development in the areas of mismatched allogeneic BMT, graft versus host effects, gene correction in hematolymphoid cells, "intracellular transformation" of stem cells against retroviral pathogens, and other related areas. Individuals with backgrounds in transplantation immunology, hematoepoesis, molecular biology, retrovirology or other related basic disciplines, or in clinical investigation are encouraged to apply. Select candidates would also be given a joint appointment in the Center for Human Retrovirology, directed by Dr. Roger J. Pomerantz. For further information, contact: Neal Flohrenberg, M.D., Thomas Jefferson University, 1025 Walnut Street, Suite 1014, Philadelphia, PA 19107-5083. Telephone: 215-955-1965; FAX: 215-923-9131. We are an Equal Employment Opportunity.

ASSISTANT/ASSOCIATE PROFESSOR

Applications are invited from individuals for a TENURE-TRACK position in the Department of Pharmacology and Toxicology at the Medical College of Georgia. The successful candidate should have a Ph.D. and/or M.D. and must be an independent extramurally funded research program utilizing cellular approaches. We desire applicants with an interest in neurosenory mechanisms who can collaborate with investigators from several disciplines to study neural regulation of cardiovascular function. However, individuals with outstanding research accomplishments in related areas will also be considered. Teaching responsibilities will be in medical and graduate courses. Competitive salary, laboratory space and start-up funds are available. Please send a curriculum vitae, a letter describing research plans and the names of three references to: Dr. R. William Caldwell, Chair, Department of Pharmacology and Toxicology, Medical College of Georgia, Augusta, GA 30912-2300. The Medical College of Georgia is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR in Natural Resources—GIS/Remote Sensing

The Department of Natural Resources at Pennsylvania State University has an opening at rank of Assistant Professor in tenure-track, academic position. Teach undergraduate courses in GIS and remote sensing; develop a graduate course and a research program in area of specialization. Responsibilities on May 1, 1995, and continues until position is filled. Contact: Dr. David E. Capen, GIS/Remote Sensing Search Committee, School of Natural Resources, University of Vermont, Burlington, VT 05405. Telephone: 802-656-2684; Email: capen@gavia.snr.uvm.edu. The University of Vermont is an Equal Opportunity/Affirmative Action Employer with a strong institutional commitment to racial, cultural, and gender diversity.

OPHTHALMOLOGY

Molecular Biologist/Electrophysiologist

The Ophthalmology Research Unit of the Maisonneuve-Rosemont Hospital Research Center, affiliated with the University of Montreal, invites applications for a postdoctoral position as the ASSISTANT/ASSOCIATE PROFESSOR at the Ph.D. level. The successful candidate will be expected to join one of our three research groups: cornea, glaucoma and diabetic retinopathy. Duties of the position include the development of a vigorous independent research program employing modern methods and involvement in graduate training. Positions available upon July 1, 1995. Send curriculum vitae, names/addresses of three references, and full research plans to: Dr. H. Boisjoly, Director, Ophthalmology Research Unit, Maisonneuve-Rosemont Hospital, 5689 Boulevard Rosemont, Montreal, Quebec H1T 2H1 Canada.

NORTH EAST MISSOURI STATE UNIVERSITY

Visiting Assistant Professors of Biology

Up to three, nine-month REPLACEMENT POSITIONS, starting August 1995. Each position will involve teaching lecture and laboratory sections of Introductory Biology for non-majors, and possibly other courses for Biology majors. Ph.D. strongly preferred. Applicants should send curriculum vitae, evidence of teaching effectiveness, three letters of reference, and all undergraduate and graduate transcripts to: Dr. Michael E. Nelson, Head, Division of Science, Northeast Missouri State University, Kirksville, MO 63501. Complete applications will be reviewed starting May 15, 1995. Northeast Missouri State University is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR. The Infectious Disease Division at the University of Pennsylvania has an opening at rank of Assistant Professor in tenure-track. Candidate must have a strong research program. Preference given to investigators interested in microbial pathogens or HIV molecular biology. Send curriculum vitae to: Harvey M. Friedman, M.D., Chief, Infectious Disease, 536 Johnson Pavilion, University of Pennsylvania, Philadelphia, PA 19104-6073. Equal Opportunity/ Affirmative Action Employer/Minority/Female/Disabled/Veteran.
Explorations
IN GENETIC RESEARCH

SCIENTIST (M.D. OR PH.D.)
GENE EXPRESSION

The Lung Gene Therapy Program at The Hospital for Sick Children (HSC), a major teaching hospital affiliated with the University of Toronto, is looking for an individual to develop an independent research program investigating general aspects of gene expression with emphasis on the lung. Interactions with strongly established groups in Lung Biology and Genetics will be encouraged. Start-up support and laboratory space will be made available within the HSC Research Institute. This position leads to a permanent staff position. Research Institute Scientists are normally cross-appointed to the University of Toronto.

Applicants should submit their curriculum vitae, a brief description of research interests and the names of three referees by July 31, 1995 to: Dr. Hugh O’Brodovich, Director of Respiratory Research, The Hospital for Sick Children, 555 University Avenue, Toronto, Ontario, Canada M5G 1X8.

Dr. Thomas J. Braciale
C/o Administrator
Beirne B. Carter Center for Immunology Research
University of Virginia
MR4/Box 4012 Health Sciences Center
Charlottesville, VA 22908
The University of Virginia is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply.

THE HOSPITAL FOR SICK CHILDREN

POSTDOCTORAL FELLOW
Molecular Immunology

SmithKline Beecham Pharmaceuticals, a worldwide leader in pharmaceutical research, has an exciting opportunity for a Postdoctoral Fellow to join our newly formed Department of Molecular Immunology. This unit, consisting of forty molecular biologists and immunologists, focuses on cytokines, cytokine receptors, B and T cell biology, and antibody engineering. Disease areas include autoimmunity, R.A., asthma, allergy and diabetes. Using the DNA sequence base available through our mass sequencing effort and other innovative approaches, the unit identifies novel targets relevant to immune modulation.

The selected Postdoctoral Fellow will join a multi-disciplinary research group in the area of recombinant antibody technology with an initial focus on the application of phage display to search for novel surface antigens on subsets of hematopoietic and lymphoid cells.

Requirements include a Ph.D. in Molecular Biology, Immunology or related discipline. A technical expertise in Molecular Biology and extensive scientific background in Immunology strongly preferred.

Located in our state-of-the-art research facility in suburban Philadelphia, SmithKline Beecham offers a competitive compensation package. For confidential consideration, please send a resume and salary requirements to: SmithKline Beecham Pharmaceuticals, Job # HS-0066, PO Box 401, Conshohocken, PA 19428. We are an Equal Opportunity Employer, M/F/D/V.

SmithKline Beecham Pharmaceuticals
Challenging the natural limits.

ALPHAGENE

AlphaGene is a new biotechnology company which develops high-quality and innovative gene libraries for the emerging biotechnology industry. We utilize these libraries for efforts to map the human genome, and develop novel approaches in the biologic and genetic analysis of human disease.

AlphaGene is recruiting highly-motivated molecular biologists for the following positions:

POSTDOCTORAL SCIENTIST
RESEARCH ASSOCIATE
SENIOR SCIENTIST

Candidates must possess a Ph.D. degree in molecular biology with extensive experience in cloning, DNA sequencing, and expression of heterologous genes in prokaryotic and eukaryotic cells. Experience in the synthesis of gene libraries, PCR, and in-situ mutagenesis is highly desirable. Scientific talent, dedication, achievement focus, and teamwork skills are a must.

AlphaGene, located by biologists from Harvard Medical School, is located in the Boston/Cambridge area, amidst strong academic institutions and a growing community of "leading-edge" biotechnology companies. AlphaGene offers a competitive salary, a generous benefits package, opportunities for growth, and an "environment of excellence" for professional and commercial success. Qualified candidates are requested to submit, in confidence, a cover letter, their curriculum vitae, and two references to: Dr. George Scheele, AlphaGene Resources, Building 96, 13th Street, Charlestown, MA 02129. An Equal Opportunity Employer M/F/D/V.
APPLICATIONS INVITED FOR THE POSITION OF ASSOCIATE PROFESSOR OF BIOLOGY AT SAGINAW VALLEY STATE UNIVERSITY.

The Department of Biology at Saginaw Valley State University invites applications for the position of Associate Professor of Biology. The successful candidate will have expertise in teaching and research in areas related to vertebrate physiology, endocrinology, cellular and molecular biology, and neuroscience. The ideal candidate will have a Ph.D. in Biology or a closely related field and a proven record of teaching and research. Applications are due by May 1, 1995.

VERTEBRATE PHYSIOLOGIST


CLEVELAND CLINIC FOUNDATION RESEARCH INSTITUTE

Manager, Scientific Equipment Aids

The Cleveland Clinic Foundation Research Institute, The Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44195. The Cleveland Clinic Foundation is an Equal Opportunity/Affirmative Action Employer.

DIRECTOR OF MEDICAL RESEARCH

Applications are invited for the position of SCIENTIFIC DIRECTOR of the Lawson Research Institute (LRI) and VICE-PRESIDENT RESEARCH at St. Joseph’s Health Sciences Center at McMaster University. The LRI has a growing reputation in the medical field, and the successful candidate will have a strong commitment to advancing research in the biomedical sciences.

Applications are due by May 31, 1995. Positions available immediately.

Yale University School of Medicine

Yale University School of Medicine invites applications for the position of ALBERT WILLIAMS PROFESSOR OF MEDICAL INFORMATICS. The successful candidate will have a record of achievement in research and teaching in an area of medical informatics, and will demonstrate a capacity for leadership and program development. The Williams Professor should have a commitment to scholarship that emphasizes the impact of information technology on scientific research, education, and health care. Potential areas of research include the role of information processing on clinical decision making, the management of complex medical data, and the use of information technology to support the development of effective educational tools.

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Applications are due by May 31, 1995. Positions available immediately.
Assistant Professor

The Salk Institute for Biological Studies invites applications for a position in the area of molecular genetics of animal development. Candidates should have a Ph.D. and/or M.D., substantial training in molecular biology and genetics, and a record of significant research. We will consider applications from investigators working in both established (e.g. C. elegans, Drosophila, chick, Xenopus and mouse) and emerging (e.g., zebrafish) experimental systems.

The Salk Institute has extensive research programs in gene expression, molecular neurobiology, developmental biology, signal transduction, cell growth, structural biology and cancer, and is located within walking distance of other major basic and medical research facilities. Thus, the successful candidate will have access to a large number of colleagues and technical support facilities to aid in program development. Please submit a curriculum vitae, a description of present and future scientific endeavors. In addition, please arrange to have three confidential letters of recommendation sent directly to the Search Committee. Send all materials to: Developmental Genetics Search Committee, The Salk Institute for Biological Studies, 10010 N. Torrey Pines Rd., La Jolla, CA 92037.

The Salk Institute is an Equal Opportunity Employer.
POSTDOCTORAL RESASSOCATE ASSOCIATE positions are available for recent Ph.D.'s with experience in molecular biology, microbiology, or genetics. Projects involve HIV vaccine development using novel fusion proteins and development of methods for targeting retroviral specificities. Send curriculum vitae, reprints of publications and names of three references to: Dr. Abraham Pinter, Laboratory of Retroviral Biology, Public Health Research Institute, 445 First Avenue, New York, NY 10016.

POSTDOCTORAL POSITION

A POSTDOCTORAL ASSOCIATE position is available to work in a research laboratory whose current research involves studies of DNA replication, mechanisms of E. coli and human chromosomes. Projects include biochemistry of initiation and regulation, mechanism of fork propagation, and analysis of protein structure by X-ray crystallography techniques. Qualified candidates should possess an M.D. or Ph.D.

Please forward your curriculum vitae and three letters of recommendation to: Michael O'Donnell, Ph.D., Microbiology, Neuroscience, and Immunology, 1300 York Avenue, New York, NY 10021; and John Kuryla, Ph.D., Laboratory of Molecular Biology, The Rockefeller University, 1230 York Avenue, New York, NY 10021. Equal Opportunity Employer.

POSTDOCTORAL POSITION

MOLECULAR MEDICINE

University of Connecticut Health Center

Position available for project aimed at selected delivery of specific gene sequences by either recombinant or natural delivery systems. Research experience in molecular and/or cellular biology is necessary. Interested applicants should send a brief description of research experience, curriculum vitae and name/address of three references to: Petro Taspouras, M.S., Department of Pediatrics, University of Connecticut Health Center, Farmington, CT 06030-1515. An Affirmative Action Employer/Minority/Female/Person with Disabilities/ Vietnamet.

BACTERIAL SIGNAL TRANSDUCTION

POSTDOCTORAL POSITION available immediately to study the molecular mechanisms of signal transduction in bacterial chemotaxis. Will use genetic, biochemical, and biophysical techniques to investigate the impact of phosphorylation on protein structure-function, and the mechanism of protein phosphorylation and dephosphorylation on signal transduction. Experience and interest in bacterial biology are necessary, and the names and telephone numbers of three references to: Dr. Robert Bourret, Department of Microbiology and Immunology, University of North Carolina, Chapel Hill, NC 27599-7390. Email: bourret@med.unc.edu; FAX: 919-962-8103. UNC Chapel Hill is an Equal Opportunity/Affirmative Action Employer.

MOLECULAR MICROBIOLOGY

POSTDOCTORAL POSITION

Available for an enthusiastic Ph.D. to study the regulation of mRNA processing in prokaryotes. The position will pursue ongoing studies on the cloning of known ribonuclease genes and investigation of their function, and will use genetic methods to identify other proteins that are involved in mRNA processing. Ph.D. with experience in molecular biology and protein purification is required. Submit curriculum vitae and arrange for three letters of reference to be sent to: Dr. David Bechhofer, Department of Surgery, Box 1020, Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574. An Equal Opportunity Employer.

POSTDOCTORAL POSITION—ECOLGY

Theoretical and empirical modeling of geographic scale habitat associations of North American birds. Two year period, starting June 1995. Expertise in GIS, population biology, ornithology, and statistical skills desired. Ph.D. or near completion required. Must be willing to adhere to University standards of conduct. Send curriculum vitae and three letters of recommendation to: Dr. Brian A. Maurer, Department of Zoology, Brigham Young University, Provo, UT 84602. Telephone: 801-378-2426; Email: maurerb@acd1.byu.edu.
The Population Council
VICE PRESIDENT
CENTER FOR BIOMEDICAL RESEARCH

The Population Council, a non-profit independent research organization devoted to research and training in reproductive health and population sciences, is seeking a Vice President to direct its Center for Biomedical Research. The Center, which is located on the campus of Rockefeller University, has a staff of over one hundred scientists and support personnel who undertake studies in basic and applied aspects of reproductive biology and medicine. Its objective is to achieve advances in reproductive health research that could be applicable to the needs of people throughout the world. The Vice President is responsible for the scientific direction of the laboratory, establishment of fund-raising priorities, general supervision of the laboratory, and integration of the Center’s work within the overall international program of the Population Council. Candidates should have an M.D., Ph.D. or equivalent degree and a strong record of scientific achievement and leadership, successful administrative experience and demonstrated ability to form consensus in establishing and achieving policy objectives. Please address expressions of interest, accompanied by resumes, in confidence to:

Margaret Catley-Carlson, President
Chair, Search Committee
The Population Council
One Dag Hammarskjold Plaza
New York City, NY, 10017

All resumes should be received prior to June 30, 1995.
The Population Council is an Affirmative Action/Equal Opportunity Employer.
COLUMBIA UNIVERSITY Human Genetics Postdoctoral Research Fellows

Applications are invited for two positions to study the genetics and regulation of heritable diseases in humans. Projects include genetic mapping of single-locus and multigenic disease loci; positional cloning of disease genes; and the development of new strategies for the study of complex traits. The successful applicant must have a Ph.D. or equivalent degree. Further information can be obtained from: Dr. Thomas Maniatis, Department of Molecular Genetics, Columbia University, New York, NY 10032.

POSTDOCTORAL POSITION Molecular and Cellular Tumor Immunology

To study molecular and gene therapy approaches to cancer immunotherapy in animal systems and in human translational research, available July 1995. Applicants must possess a Ph.D. and demonstrate experience in molecular and cellular immunology. Send curriculum vitae and three letters of recommendation to: Dr. Francis Sette, Department of Immunology, Room 3-201, Columbia University, 630 West 168th Street, New York, NY 10032.

ATOMIC STRUCTURE AND MECHANISMS OF METALLOSYNTHASES Postdoctoral Position

Applications are invited for a postdoctoral position in the laboratory of Dr. Barry Howard Siegelbaum, Department of Pathology, Columbia University, New York, NY 10032. The candidate will be involved in the study of metalloenzymes, including metallo-lyases, metallo-proteinases, and metallo-transporters. Experience in metalloprotein chemistry would be an advantage. Interested candidates should apply by May 1, 1995, to: Dr. Barry Howard Siegelbaum, Department of Pathology, Columbia University, New York, NY 10032.

POSTDOCTORAL POSITIONS AVAILABLE COLUMBIA UNIVERSITY School of Medicine

Positions are available in the Department of Neuroscience for individuals with experience in behavioral neuroscience, neuroimaging, and/or pharmacology. Applicants should have a Ph.D. or equivalent degree. Send curriculum vitae and the names and addresses of three references to: Dr. Michael Sheng, Department of Neurobiology, Columbia University, New York, NY 10032.

POSTDOCTORAL OPPORTUNITY POSTDOCTORAL RESEARCH FELLOWS IN GENE EXPRESSION AND TRANSLATION AVAILABLE

The laboratory of Dr. Steven Shockett, Department of Molecular Biology, Columbia University, New York, NY 10032, is seeking a postdoctoral fellow to work on the molecular basis of translation initiation in eukaryotes. The fellow will be expected to develop skills in recombinant DNA technology and mammalian cell culture. Applicants should have a Ph.D. or equivalent degree in molecular biology or biochemistry. Interested candidates should apply by March 1, 1995, to: Dr. Steven Shockett, Department of Molecular Biology, Columbia University, New York, NY 10032.

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The fulfillment of seeing your ideas happen. At Schering-Plough, we invest over $620 million annually to advance the process of discovery and development. To the dedicated scientist, this means a greater opportunity to see your work extend and enhance lives the world over.

SENIOR SCIENTIST/ MACROMOLECULAR CRYSTALLOGRAPHER Structure-Based Drug Design

An excellent opportunity is now available for a PhD Macromolecular Crystallographer with 2-4 years of related experience to be involved in both the determination of new protein structures and the iterative structure-based drug design process. You will also participate in integrating the crystallography component of the Structural Chemistry Department into our drug discovery programs. This department already includes a computer-aided drug design group in addition to a team of biophysical chemists specializing in purification, characterization and crystallization of target proteins. To be considered for this position, you must reference Dept. DD-94-33.

SENIOR SCIENTIST Structural Chemistry

As a member of a dynamic team of scientists involved in structure-based drug design, you will contribute your talent and knowledge of enzymology to elucidate the mechanism of catalyses and define substrate specificity of enzymes that are targets for drug development. You will also have ample opportunity for interaction with experts in x-ray crystallography, molecular modelers and other scientists involved in the design of enzyme inhibitors.

To qualify, you will need a PhD in Biochemistry, Chemistry or Biophysical Chemistry and 2-4 years of postdoctoral experience. Background must include training in enzymology combined with a high level of expertise in enzyme catalysis, design of inhibitors, protein purification and application of physical analytical methods for protein characterization. To be considered for this position, you must reference Dept. DD-95-08.

ASSOCIATE SCIENTIST Biochemistry/Protein Chemistry

Join a team of scientists responsible for the examination and characterization of enzyme targets in drug research. To qualify, you will need a BS degree and at least 4 years of related experience or an MS and 2 years of related experience. Background to include ability to use classical biochemical techniques such as methods purification, refolding of proteins and physicochemical characterization of proteins in addition to thorough knowledge of enzyme mechanisms, kinetics and the structural chemistry of proteins. To be considered for this position, you must reference Dept. DD-95-10.

SENIOR SCIENTIST Drug Metabolism

Our Exploratory Drug Metabolism Group, which is responsible for all drug metabolism activities related to drug discovery, has a newly created position for a Senior Scientist to be involved in the development of bioanalytical methods for the analysis of drug candidates in biological matrices. You will also design and conduct in vivo and in vitro studies to answer specific questions regarding absorption, distribution, metabolism, elimination and pharmacokinetics of drug candidates.

To qualify for this exceptional career opportunity, you will need a PhD in Chemistry, Biochemistry or related discipline and at least 3 years of postdoctoral experience in drug metabolism and pharmacokinetics research. Background must include strong method development skills with modern analytical techniques such as capillary electrophoresis, HPLC-electrochemical detection, micropore HPLC and GC in addition to excellent written and oral communication skills. To be considered for this position, you must reference Dept. DS-95-03.

ASSOCIATE SCIENTIST Drug Metabolism

Join our Exploratory Drug Metabolism Group where you will participate in a variety of studies such as analytical method development, and analysis of biological samples for drug candidates and metabolites. You will also conduct in vivo and in vitro studies to answer specific questions regarding absorption, distribution, metabolism, elimination and pharmacokinetics of drug candidates.

To qualify, you will need a BS degree and 4-7 years of experience or an MS and 2-5 years of experience in drug metabolism and bioanalytical method development. Must be able to use modern analytical techniques (HPLC, GC, CE). Knowledge of in vitro techniques and in vivo surgery in addition to computer skills are desirable. To be considered for this position, you must reference Dept. DS-95-03.

ASSISTANT SCIENTIST Drug Metabolism/Drug Safety

Lafayette, NJ Location

Our Drug Safety Evaluation Center in Lafayette, NJ has an excellent opportunity for a qualified scientist to be responsible for in vitro and in vivo studies involving the induction and inhibition of drug metabolizing enzymes. To qualify, you will need a BS degree and 2-4 years of related experience or an MS and 0-2 years of experience. Background must include experience with organic and/or protein biochemistry plus knowledge of electrophoresis/immunoblotting techniques and analytical methods development including HPLC. Experience with radiochemicals and computers is preferred. To be considered for this position, you must reference Dept. DS-05-07.

We offer an excellent compensation package including a competitive salary and comprehensive benefits. For prompt, confidential consideration, we invite you to forward a resume indicating the Dept. Code for your position of interest and salary requirements to: Human Resources Department, K-15-1, MS#1255, Schering-Plough Research Institute, 2015 Galloping Hill Road, Kenilworth, NJ 07033-0539. We are an equal opportunity employer. We regret we are unable to respond to each resume. Only those selected for an interview will be contacted.
The Center for the candidates polysaccharide-protein preferred; regulation includes they or authorities. Requirements: (1) Ph.D., M.D., protein. Investigations and related kines to science that safety, one to more of the following skills. (1) antigen processing and presentation of polysaccharide-protein conjugate vaccines. Emphasis will be placed on compartmental localization of various epitopes of these vaccines; (2) bacteriology, especially Bordetella Pertussis, and the defining of antigens and new vaccine delivery systems that stimulate protective mucosal immune responses; (3) mechanisms by which viral envelope glycoproteins mediate cell fusion. This includes mammalian cell expression systems and gene cloning; (4) recombinant DNA techniques such as expression of recombinant proteins, in vitro mutagenesis, signal transduction, and gene cloning; (5) cytokine networks as they relate to vaccines and vaccine development; (6) molecular basis for the regulation of apolipoproteins, lipids and the development of atherosclerosis in vitro and in vivo. Specific areas include ontogeny/phylogeny, hormonal, heavy metal and cytokine regulation, particularly as affecting apoB mRNA editing.

Requirements: (1) Ph.D., M.D., or Sc.D. in the biological or physical sciences or hold other earned research doctoral degree in the biological or physical sciences that is recognized in US academic circles as equivalent to the Ph.D. is preferred; (2) no more than five years post-doctoral at the time of appointment is preferred.

In addition, interested candidates should have training and/or experience in one or more of the following or related areas: cell biology, cytokines, cytokine biology, growth factors, molecular biology, microbiology, immunology, cellular immunology, molecular immunology, immunochemistry, biochemistry, protein chemistry, protein biochemistry, and virology. Preference will be given to candidates with specific experience relevant to the topics listed under research above. Candidates should also have highly developed analytical, written and oral skills.

Location: Offices and laboratories are strategically located on the campus of the National Institutes of Health in Bethesda, Maryland, or in close proximity to the campus. Length of Appointments: Appointments are made initially for one year and may be extended to a second and third year. Salary: Salary range is $28,860 to $54,960 depending on years of relevant postdoctoral experience. Apply: Send a Curriculum Vitae along with bibliography, statement of research interest, transcripts, names of three references, plus name of dissertation and/or thesis advisor to:

Diagnostics Sales

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Our Diagnostics Group serves the clinical diagnostics market worldwide. Continued introduction of new products has created a need for sales representatives in several U.S. cities. Career paths include sales and product management leading to general management.

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For consideration, please send your resume to: Bio-Rad Laboratories, 4000 Alfred Nobel Dr., Dept. 304, Hercules, CA 94547. EOE MFDV.

SCIENTIST/SR. SCIENTIST

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Ortho Diagnostic Systems Inc. provides diagnostic reagents and instrument systems to hospital and commercial clinical labs and blood donor centers. Products include diagnostic systems for coagulation, infectious diseases, immunology and blood banking.

We have an immediate opportunity in central New Jersey for a candidate with good oral and written communication skills and the ability to interact effectively on a multi-functional team. To qualify at the Scientist level, you should have a BS/MS with 5+ years experience or a Ph.D. with 0-3 years experience. The Senior Scientist level requires a BS/MS with 7+ years experience or a Ph.D. with 3-5 years. At least one year of laboratory experience in hemostasis and knowledge of thrombosis are required, as is familiarity with in vivo diagnostic product development. Experience with laboratory instrumentation and computers, and knowledge of CGMPs are also requisite.

The successful candidate must be able to plan, conduct and direct experimentation for assigned projects; participate in the design of chemical or plant equipment and/or processes for manufacturing reagents/products; and coordinate phases of work with outside suppliers. We will look to you to investigate/develop new methods and technologies for project advancement.

We offer a competitive salary and comprehensive benefits including medical/dental insurance, 401(k) plan, and the Johnson & Johnson LIVE FOR LIFE Wellness Program with on-site fitness center. Please forward a copy of your resume, suitable for scanning and input into our database (i.e., clean/clear, no graphics and preferably unfolded), to: Dept. 259, Johnson & Johnson Recruiting, P.O. Box 16597, New Brunswick, NJ 08906-6597.

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POSTDOCTORAL ASSOCIATE POSITIONS
THE UNIVERSITY OF IOWA

Please contact the appropriate department to express your specific interest:

ANATOMY: Dr. J.P. Long, Interim Head, Bowen Science Building.

BIOCHEMISTRY: Alan G. Goodridge, Professor and Head, Bowen Science Building.

DERMATOLOGY: Postdoctoral Associate in Dermatology for the study of cell biology of cutaneous cells including epidermal cells, sweat gland cells, and hair follicular cells. Basic qualifications: M.D., Ph.D. or equivalent. Desirable: expertise in cell culture, membrane transport of cultured cells and/or molecular biology of eukaryotic cells. Pay is $18-21,000 plus fringe - one to three years depending on NIH funding. Send resume and references to Kenzo Sato, M.D., Ph.D., Department of Dermatology.

INTERNAL MEDICINE: Openings available in all disciplines in the Internal Medicine Department, College of Medicine, the University of Iowa. Contact Francois M. Abboud, M.D., Professor and Head, or Michele Pugh, Human Resources, SE320 GH, (319)356-7290.

MICROBIOLOGY: Dr. Michael Apicella, Professor and Head, Bowen Science Building.

OBSTETRICS/GYNECOLOGY/PHARMACOLOGY: Postdoctoral Associate position is available in the Gynecologic Oncology Research Laboratory. Research area includes molecular genetics of oncogene/tumor suppressor gene expression in ovarian cancer. Contact Richard E. BuUer, M.D., Ph.D. Associate Professor, Director, Division of Gynecologic Oncology, Departments of Obstetrics & Gynecology and Pharmacology. Phone: 319-356-2015.

OTOARYNGOLOGY: Dr. Bruce Gantz, Interim Head.

PATHOLOGY: Richard G. Lynch, M.D., Professor and Head, 144 Medical Laboratories. Research activity in all areas of pathology.

PEDIATRICS: Dr. Frank H. Morris, M.D., Professor and Head.

PHARMACOLOGY: Dr. Arthur A. Spector, Professor and Interim Head, Bowen Science Building. Openings in all areas of pharmacology and toxicology.

PHYSIOLOGY & BIOPHYSICS: Robert E. Fellows, M.D., Ph.D. Professor and Head, Bowen Science Building.

UROLOGY: Position available to begin August 1, 1995 for research in a fully equipped basic science laboratory. Research is centered around the role of various growth factors in male germ cell maturation and the molecular aspects of male infertility. Background experience must include molecular biology techniques, e.g. in situ hybridization, RT-PCR, and plasmid cloning, morphological techniques, e.g. immunostaining, and RNA analysis/detection. Experience with mammalian embryo culture and transgenic mice is desirable, but not required. Send curriculum vitae and the names/telephone numbers of 3 references to: Dr. Jay Sandlow, Department of Urology. Fax: (319) 356-3800. A Ph.D. or equivalent is required. Desirable qualifications are based on Project Investigator's interest for research. Women and minorities are strongly encouraged to apply. The University of Iowa, College of Medicine, Iowa City, Iowa, 52242, is an Equal Opportunity/Affirmative Action Employer.

SAIC Frederick, a Division of Science Applications International Corporation, has immediate opportunities under the direction of Dr. Matthew A. Gonda in the Laboratory of Cell and Molecular Structure at the National Cancer Institute's Frederick Cancer Research and Development Center (NCI-FCRDC) located in Frederick, MD.

TRANSGENIC MOUSE TECHNOLOGY
Scientist/Postdoctoral Fellow: Ph.D. w/ 0-3 years experience in manipulating mouse embryos to produce transgenic mice. Will produce a variety of transgenic mouse models for Cancer- and AIDS-related projects in an established facility and participate in the development of knock-out gene technology in ES cells for the production of chimeric mice. Some supervisory responsibilities.

IMMUNOTOXINS
Scientist/Postdoctoral Fellow: Ph.D. (molecular biology) to participate in a project to genetically engineer antibody binding domains to lytic peptides for use in the clinical treatment of cancer.

MOLECULAR BIOLOGY
Sr. Research Technician: BS/MS w/2-5 years experience in DNA sequencing, PCR, cDNA cloning, and gene expression in eukaryotic/prokaryotic vectors. Must have hands-on experience with use of computers in DNA/protein sequence analysis.

VIRAL RECEPTORS
Postdoctoral Fellow: Ph.D. (molecular biology) to participate in a project to identify, clone, and characterize cellular receptors used by lentiviruses and study molecular mechanisms of virus-host interactions that control virus entry.

IMMUNOPATHOGENESIS
Postdoctoral Fellow: Ph.D. (immunology) to characterize the involvement of the immune response in AIDS-related transgenic mouse models in the development of chronic inflammatory disease. Must have hands-on experience in blastogenesis, ADCC, CTL, and NK assays, knowledge of inflammatory cytokines, and tissue culture of primary cells. The working environment provided by the NCI-FCRDC is a campus-like setting in Frederick, MD near Baltimore and Washington, DC. SAIC Frederick offers an attractive salary and benefits program, including insurances, 401(k) savings plan, relocation assistance, and more. For consideration, forward CV/resume, references, publications list, and salary requirements to: Barbara J. Norton-Gill, Technical Recruiter, SAIC Frederick, NCI-FCRDC, P.O. Box B, Frederick, MD 21702. EOE, M/F.

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POSTDOCTORAL ASSOCIATE POSITIONS
THE UNIVERSITY OF IOWA

Please contact the appropriate department to express your specific interest:

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BIOCHEMISTRY: Alan G. Goodridge, Professor and Head, Bowen Science Building.

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OTOARYNGOLOGY: Dr. Bruce Gantz, Interim Head.

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PHARMACOLOGY: Dr. Arthur A. Spector, Professor and Interim Head, Bowen Science Building. Openings in all areas of pharmacology and toxicology.

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Senior Research Associate and Director
DNA Sequencing and Molecular Biology Core

The University of Cincinnati College of Medicine is seeking an individual to direct a new, College-wide service oriented, DNA sequencing core facility. Primarily responsible for carrying out moderate-scale automated DNA sequencing from diverse templates for both basic research and diagnostic purposes. Supervision of a technician and some administrative duties are also required. The individual should have a doctorate degree (MD, PhD, or equivalent), proven expertise in the techniques of automated sequencing, more than two years of hands-on experience with an ABI (or similar) automated sequencer and associated hardware/software, and publications indicative of such expertise.

A letter outlining relevant experience, curriculum vitae and 3 letters of reference should be sent to:

Robert F. Highsmith, Ph.D.
Professor and Assoc. Dean for Research
University of Cincinnati
College of Medicine
P.O. Box 670576
Cincinnati, Ohio 45267-0576

The University of Cincinnati is an equal opportunity employer. Applications from minorities are encouraged.
**Metabolism and Pharmacokinetics BS/MS Associate Research Scientist**

Work as part of a team providing metabolic and pharmacokinetic data to drug discovery programs. These studies will play a critical role in the selection of IND candidates.

Responsibilities include developing bioanalytical methods (HPLC, LC/MS) for quantitation of new drug candidates and their metabolites in biological matrices, performing in vitro and in vivo studies to determine the metabolism and pharmacokinetics of these compounds, and presenting research findings.

Requirements include a BS/MS degree in analytical chemistry, pharmaceutical chemistry, biochemistry or a related science, with a minimum of 3 years relevant research experience. Experience with quantitative bioanalytical techniques, laboratory data analysis and computer data handling is essential. Experience with in vitro and in vivo models used in metabolism and pharmacokinetic studies is highly desirable.

Please fax/resume to: Bristol-Myers Squibb Pharmaceutical Research Institute, Human Resources Dept. MH-0830, P.O. Box 5101, Wallingford, CT 06492-7660. FAX (203) 893-7762. Equal Opportunity Employer.
UNIVERSITY OF CALIFORNIA
VICE PRESIDENT
CLINICAL SERVICES DEVELOPMENT

The University of California invites nominations and applications for the new position of Vice President–Clinical Services Development. The UC sponsors the nation’s largest health sciences education program, and operates five academic medical centers (Davis, Irvine, Los Angeles, San Diego, and San Francisco campuses) with a total permanent active bed (plant and equipment) of $1.8 billion which function in highly competitive health services markets with relatively high levels of managed care penetration, maximum pricing leverage exerted by large purchasing cooperatives, declining utilization rates, and accelerating integration and consolidation of providers.

Responsibilities include providing oversight and coordination for the development of UC’s clinical enterprise activities (mergers, acquisitions, partnerships, contracts, product line development, marketing and related capital and other investment funding, etc.); support and coordination for preparation of medical center-specific and University-wide clinical enterprise strategic plans for clinical enterprise activities; review and analysis of clinical enterprise transactions requiring Regental or system-wide review, and communication with the Board of Regents relative to clinical enterprise activities.

Candidates should have significant experience as the CEO of a hospital or medical/health sciences center; a broad understanding of health care economics; extensive knowledge of the managed care marketplace; and an appreciation of the unique goals and responsibilities of academic medical centers.

Send applications and nominations accompanied by current resumes to: The President, University of California, 300 Lakeside Drive, 22nd Floor, Oakland, California 94612-3550. Deadline: May 31, 1995, to be assured full consideration. An Equal Opportunity, Affirmative Action Employer.

THE INTERNATIONAL LIVESTOCK RESEARCH INSTITUTE
(ILI)
POSITION ANNOUNCEMENT
ADVERTISEMENT - IMMUNOLOGIST SC/95/1

The International Livestock Research Institute (ILI) has a global mandate for research to enhance the role of livestock in sustainable agricultural production systems in Africa, Asia and the Latin American/Caribbean region. ILRI is sponsored by the Consultative Group on International Agricultural Research (CGIAR), which supports sixteen agricultural research centres world-wide. ILRI incorporates the resources of the International Laboratory for Research on Animal Diseases (ILRAD) and the International Livestock Centre for Africa (ILCA).

ILI is recruiting a highly motivated individual for a senior scientific position which offers excellent leadership and research opportunities in a development-oriented, science-based international research organization.

Immunologist - SC/95/1
An Experienced Immunologist is required for a senior position in the Trypanosomiasis Programme. The successful candidate will provide leadership to a group of scientists and their technical support staff, with active projects on regulation of bovine immune cell functions, as they relate to control of parasitaemia and genetically resistant calves. The group is able to capitalise on the opportunities provided by comparisons of responses to infection in cattle of resistant and susceptible breeds, and also in a crossbred trypanotolerance population segregation.

The successful applicant will have a first degree in an appropriate biological science and a Ph.D. in an area of contemporary immunology. Experience in molecular immunology, particularly in terms of cytokine function, is essential. Experience in immunology of haemoproteozoa infections of mammals would be an advantage.

Conditions for appointments:
Initial contracts will be for three years and may be renewed. ILRI offers internationally competitive terms of service. The salary is paid in US dollars. Relocation, housing, annual leave travel, and education allowances are provided in addition to generous pension and insurance benefits.

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1 Year Assignment

We are seeking a recent graduate in chemistry or related field for the design and research of oligonucleotide therapeutic agents and lipid-based intravenous drug delivery systems. Candidate must possess skills in spectroscopic methods, physical chemistry, organic synthesis, lipid or protein chemistry, or molecular biology. Excellent writing skills are essential.

We offer an attractive compensation and benefits package. For immediate consideration, please send your resume with salary history to: Vestar, Inc., Dept. SCI-0141, 650 Cliffside Drive, San Dimas, CA 91773. We are an Equal Opportunity Employer.

FERMENTATION SPECIALIST

The University of Iowa Center for Biocatalysis and Bioprocessing (CBB) seeks a qualified fermentation scientist to lead hands-on responsibilities for the day-to-day operation of the Center’s new fermentation/bioprocessing facility. The position also involves promoting facility capabilities and developing grant opportunities. The candidate must possess:

• An advanced degree.
• Significant experience in small/large-scale microbial growth, fermentation optimization, fermentation & subcellular harvesting/ fractionation procedures, and associated chemical/biochemical analyses.
• Excellent communication skills.
• GLP experience.

The CBB’s new 13,000 sq. ft. facility serves the teaching, research, and outreach needs of more than 30 faculty research teams, representing six UI departments. By fall 1995, the CBB labs will be completely equipped with 22 fermentors (2L experimental - 1500L pilot scale models) and a full range of harvesting/analytical instrumentation.

Proposed annual salary $40,000 - $50,000 plus significant fringe package, pending experience. Please send a curriculum vitae and three letters of reference to:
Dr. John P. N. Rosazza, Director, The University of Iowa, Center for Biocatalysis and Bioprocessing, Oakdale Research Park, 2501 Crosspark Road, Suite C100, Iowa City, IA 52242-5080. Phone (319)-335-4900, FAX (319)-335-4901. Applications will be received until the position is filled by August 1, 1995.

The University of Iowa is an Affirmative Action/Equal Opportunity Employer. Minorities and women are encouraged to apply.

Georgetown University
Medical Center

GUMC seeks junior and senior faculty candidates for its new Institute in Cognitive and Computational Sciences (GICCS).

Faculty applicants should exhibit demonstrated expertise, productivity, and originality in the Institute’s areas of interest: computational neuroscience, cognitive science, and brain imaging. A demonstrated track record in securing competitive grant support is highly desirable.

Review of applications will begin immediately. Send detailed Curriculum Vitae and names of at least three references (with both telephone and fax numbers) to: Alan I. Faden, M.D., Dean of Research and Graduate Education and Director, GICCS, Georgetown University Medical Center, Medical Dental Building (Rm. NW103), 3900 Reservoir Road, NW, Washington, DC 20007. E-mail to afaden@macpost.odr.georgetown.edu

An Equal Opportunity/ Affirmative Action Employer.
POSTDOCTORAL POSITION
MOLECULAR MODELING/SIMULATION

A position is available immediately for computer modeling and simulations of proteins and peptides. A Ph.D. degree in computational chemistry or related fields is required. Experience in protein structure study is desirable. Send curriculum vitae of reference to Dr. S. Seng, Research Institute, FE8, Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44195.

POSTDOCTORAL POSITION is available immediately to study male germ cell genetic modification (Proc. Natl. Acad. Sci. U.S.A. 91, 11298, 11303). Experience in molecular biology is required. Send curriculum vitae, names of three references and a letter describing research skills and interests to Dr. L. R. Brinster, School of Veterinary Medicine, University of Pennsylvania, 3850 Baltimore Avenue, Philadelphia, PA 19104.

INSTITUTE OF GENOMIC MEDICINE MOLECULAR BIOLOGIST/GRANTS SCHOLAR POSITION

The Institute of Genomic Medicine (IGM), a nonprofit organization dedicated to mapping the human genome and understanding the genetic causes of disease, seeks to hire a molecular biologist with exceptional conceptual and writing skills, who has the desire and capacity to serve as GRANTS SCHOLAR for a highly qualified team of scientists. Candidates must have a Ph.D. degree in molecular biology with strong interests in the cell biology and genetics of human disease. Recent postdoctoral experience is essential. Scientific talent, dedication, achievement focus, and teamwork skills are a must.

The IGM, founded by scientists from Harvard Medical School, is located in the Charlestown Navy Yard, amidst strong academic institutions. The IGM offers a competitive academic salary, opportunities for growth, and an “environment of excellence” for professional success. Qualified candidates should submit a cover letter, their curriculum vitae, samples of scientific writing, and two letters of reference to Dr. George Schoels, Institute of Genomic Medicine, Building 96, 13th Street, Charlestown, MA 02129. An Equal Opportunity Employer.

GENERAL SURGERY RESEARCH LAB TECH II

A RESEARCH LAB TECH II position is currently available with the Cannon Research Facility of the Carollinas Medical Center and the Charlotte-Mecklenburg Hospital Authority, a diverse and comprehensive premier teaching and research medical center. Perform and maintain cell cultures and experiments involving growth factors and cell cycle regulation using a variety of techniques including cell culture, microscale, and large scale procedures. Must have a B.S. degree in biological sciences with two years of documented experience performing tissue cultures; antibody purification experience is desired. We offer excellent salary and benefits. Qualified candidates please send curriculum vitae to:

The Charlotte-Mecklenburg Hospital Authority
Human Resources
P.O. Box 32861
Charlotte, NC 28223
Telephone: 800-942-6689
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THE BURROUGHS WELLCOME FUND

PROGRAMS OFFICER. The Burroughs Wellcome Fund (BWF), a private nonprofit foundation, is seeking an individual to develop, direct, manage, and evaluate BWF competitive award programs in biomedical sciences. A doctoral degree (or equivalent) and knowledge of the academic research environment is strongly desired. Salary range is $45,000 to $55,000, with competitive benefits package. Interested applicants should submit a letter of application and curriculum vitae to:

Mary G. Weeks, Vice President, Programs
The Burroughs Wellcome Fund
4709 Creekstone Drive, Suite 100
Mankato, MN 56006-9771
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COURSES AND TRAINING

PLANT BIOCHEMISTRY 1995

The DOE/NSF/USDA Triagency-supported Plant Biochemistry Research and Training Center at Washington State University will conduct a training course in plant biochemistry July 15-28, 1995. The course is designed to teach fundamental principles as well as the latest advances in areas including structure function of plant organelles; ion transport; photosynthesis; carbohydrate and lipid biosynthesis and metabolism; nitrogen fixation and amino acid metabolism; synthesis, catabolism, physiology and mechanism of action of plant hormones; and synthesis and catalysis of unique plant products such as terpenoids, alkaloids, cyanoglucosides, phenylpropanoids; signaling mechanisms in plant defense responses toward pests and pathogens; metabolic regulation; protein synthesis and intracellular targeting of macromolecules. Funds have been allocated to partially offset travel and housing expenses for up to 40 participants. For further information and an application form, contact: Ms. Karen Maertens, PBRTC, Institute of Biological Chemistry, Washington State University, Pullman, WA 99164-6438. Telephone: 509-335-5496; FAX: 509-335-7643; Email: maertens@wsuw1.csc.wsu.edu.

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