LATENT TRANSFORMING GROWTH FACTOR β1 ACTIVATION IN SITU

Also in this issue: Genetics of human obesity
Adriamycin cardiomyopathy
Fellowships for Biological and Biomedical Sciences

The Howard Hughes Medical Institute announces the 1998 competitions for fellowship programs that support training in fundamental biological and biomedical research. Awards, based on international competitions, focus on research directed to understanding basic biological processes or disease mechanisms. Fellowships may be held at academic or nonprofit research institutions.

Predoctoral Fellowships in Biological Sciences

Up to five years of support for full-time graduate study toward a Ph.D. degree in biostatistics, cell biology, epidemiology, genetics, immunology, neuroscience, or structural biology. Applicants must not have completed the first year of postbaccalaureate graduate study in biology. Application deadline: mid-November.

Postdoctoral Research Fellowships for Physicians

Three years of support for training in fundamental research subsequent to at least two years of postgraduate clinical training and no more than two years of postdoctoral research training. Application deadline: early December.

Research Training Fellowships for Medical Students

An opportunity for medical students in the United States to explore a burgeoning interest in fundamental research. Support is awarded for one year of full-time fundamental research in a laboratory at the student's medical school or another institution (except NIH in Bethesda, Maryland). Application deadline: early December.

Research Scholars at the National Institutes of Health

Under this joint HHMI–NIH program, medical students in the United States spend an intensive year in research in the intramural program at NIH in Bethesda, Maryland. Residence is provided at the Cloister on the NIH campus. Application deadline: early January.

1998 Program Announcements and Applications

For Predoctoral Fellowships: Howard Hughes Medical Institute
Hughes Fellowship Program Office of Grants and Special Programs
The Fellowship Office Department AE98
National Research Council 4000 Jones Bridge Road
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The Howard Hughes Medical Institute, an Equal Opportunity Employer, welcomes applications from all qualified candidates and encourages women and members of minority groups to apply.
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This volume is the first modern and systematic book devoted to vascular morphogenesis during the embryonic period. The book describes our current knowledge of vascular morphogenesis, emphasizing problems related to angiogenesis and the use of state-of-the-art techniques, including computer modeling. The included highly detailed protocols will enhance the practical interdisciplinary spirit of the volume. The book will be a valuable reference to anyone interested in angiogenesis. In addition, this book will serve as an introduction to the field for computer specialists seeking new and exciting applications for computer modeling.

J.F. ROBY, Iowa State University, Ames

ESSENTIALS OF CARBOHYDRATE CHEMISTRY

Carbohydrates are the most widely distributed naturally occurring organic compounds on the Earth. They make up much of our food, clothing and shelter, and are as vital to national economies as they are to our diet. The chemistry of carbohydrates is remarkably diverse and has progressed enormously since the seventeenth-century discovery that carbohydrates have the basic formula C\(_n\)H\(_{2n+1}\)O\(_n\). Essentials of Carbohydrate Chemistry is the first comprehensive treatment of carbohydrate chemistry in many years. It examines the structures, reactions, modifications, and properties of carbohydrates, their industrial applications, and the history of the field of carbohydrate chemistry. Written for students as well as practicing scientists, this volume will be of interest to a wide range of disciplines influenced by carbohydrates such as biochemistry, chemistry, food and nutrition, microbiology, pharmacology and medicine.

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The FASEB Journal: An Announcement
Restructuring the Research Communications Section

Starting July 1, 1996, a new procedure for handling original research manuscripts will be implemented on a trial basis in an effort to define new guidelines for submitted Communications. Rather than compete for manuscripts with the many high quality, specialty journals sponsored by our member societies, The FASEB Journal will seek articles that integrate one or more disciplines—preferably those that apply modern molecular biological methods, along with functional studies—to the study of biological questions that bear on developmental biology, pathophysiology, or molecular medicine.

During this trial period, authors are asked not to submit completed manuscripts as in the past; instead, authors should send by FAX a one- or two-page letter describing the findings they wish to submit and a third page containing the Abstract of the proposed paper. The description of the research findings should include statements that answer the following questions:

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