MAY 13, 2003

Tuesday 9:00 am - 5:00 pm

Ford Auditorium University of Michigan Hospital

## GENETIC INSIGHTS INSTITUTE SCIENCES INSTITUTE STANDAL SYMPOSIUM INSIGHT STANDAL SYMPOSIUM INSTITUTE STANDAL SYMPOSIUM INSIGHT SANDAL SANDAL



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# GENETIC INSIGHTS INTO BIOLOGY AND DISEASE

### David Ginsburg

Ginsburg is the Warner-Lambert/Parke-Davis Professor of Medicine in the Departments of Internal Medicine and Human Genetics and a Howard Hughes Investigator at the University of Michigan. He is also a Senior Research Scientist in the Life Sciences Institute. He received his B.A. in 1974 from Yale University and an M.D. from Duke University in 1977.

His research program centers on the molecular genetics of inherited bleeding and clotting disorders. The molecular basis of you Willebrand disease is a particular focus, with current work aimed at characterizing major modifier genes in a mouse genetic model.



MORNING SESSION
Huda Akil moderator

9:05-9:10 am Welcome Alan Saltiel

University of Michigan

9:10-10:10 am

Leptin SCD1 and the Biological Basis of Obesity Jeffrey Friedman

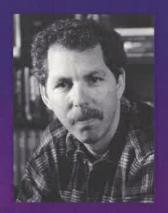
Jeffrey Friedman

Howard Hughes Medical Institute Rockefeller University

10:10-10:30 am Break

10:30 Gene Chel Hele

11:30



### Jeffrey Friedman

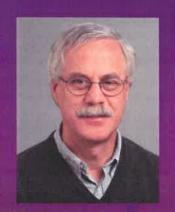
Friedman is the Marilyn M. Simpson Professor at the Rockefelter University and a Howard Hughes Investigator. He is also the Director of The Starr Foundation Center for Human Genetics. He received his M.D. from Albany Medical College in 1977, and his Ph.D. from The Rockefelter University in 1986. After completing a residency in Internal Medicine at Albany Medical Center Hospital, Dr. Friedman came to Rockefeller as a Postgraduate Fellow and Associate Physician in 1980.

His research studies the molecular mechanisms that regulate body weight and metabolism. Current research is aimed at understanding the genetic basis of obesity in humans and the neural mechanisms by which leptin regulates feeding behavior.

### Joseph Nadeau

Nadeau is a Professor of Genetics at Case Western Reserve University School of Medicine. He was a founding member of the International Mammalian Genome Society and a founding editor of Mammalian Genome. He was founder and director of the Mouse Genome Informatics Project (1989-1994) and founder of the Mouse Gene Expression Database Project (1992-1994). He received his Ph.D. in Population Biology from Boston University in 1978.

His research focuses on the genetic and phenotypic dissection of selected mouse models of human multifactorial disease traits. His laboratory is developing new kinds of mouse genetic resources for complex trait analysis. He has pioneered the mathematical analysis of comparative genetic maps as a means for studying genome organization and evolution. His current work focuses on the evolution of gene families and physiological pathways.



## AFTERNOON SESSION

John Lowe, moderator

l l:30 am tic Defenses Against esterol Accumulation n Hobbs

laghes Medical Institute y of Texas Southwestern Medical School 1:45 - 2:30 pm

Inherited Disorders of Bleeding and Clotting David Ginsburg

Howard Hughes Medical Institute

2:45 - 3:30 pm

Building hearts: perturbations, for networks, and so Joseph Nadeau

Center for Computational Genom Case Western Reserve University

3:45 - 4:00 pm Coffee Brea

m Lünch Break



### Helen Hobbs

Hobbs is the Director of the McDermott Center for Human Growth and Development, a Howard Hughes Institute Investigator, and a Professor of Internal Medicine and Molecular Genetics, as well as Chief of the Division of Medical Genetics in Internal Medicine at The University of Texas Southwestern Medical School. She received her B.A. at Stanford University in 1974, and an M.D. from Case Western Reserve University School of Medicine in 1979.

Her research focuses on genetic determinants of plasma lipid levels, LDL metabolism and the role of ABC transporters in lipid transport. Her laboratory is investigating the ways in which dysregulation in the uptake and trafficking of dietary lipids contributes to human diseases, in particular coronary atherosclerosis, gallstones, and metabolic syndromes.

### Min Han

Han is a Professor of Molecular, Cellular and Developmental Biology and a Cancer Center Member at the Health Science Center at the University of Colorado at Boulder. He is also an Associate Investigator at the Howard Hughes Medical Institute and the Guest Professor at Fudan University in Shanghai. He carned his B.S. in Biochemistry at Peking University in Beijing in 1982 and a Ph.D. in Molecular Biology at the University of California at Los Angeles in 1988.

Han's laboratory has focused on postembryonic development of the model organism Caenorhabditis elegans aiming at understanding the mechanisms of signal transduction, cell differentiation and tissue morphogenesis. His laboratory is also studying several human disease genes including those involved in macular degeneration.



genetic Inctional Insterns biology 4:00 - 4:45 pm

C. elegans genetics: nuclear positioning and beyond Min Han

Howard Hughes Medical Institute University of Colorado

5:00 pm Adjourn

The Life Sciences Institute at the University of Michigan is at the nexus of a campus-wide effort to expand learning and teaching in the life sciences. Its multidisciplinary team of researchers is focused on Genetics, Genomics and Proteomics; Molecular and Cellular Biology; and Structural, Chemical and Computational Biology. This fall, the Institute's charter faculty will begin moving into a new 230,000 square foot wet lab facility located in the heart of the Ann Arbor campus.

The annual LSI symposium is designed to highlight recent scientific developments and to encourage the exchange of ideas. It also provides an opportunity for the state of Michigan's students and scientists to interact with and learn from prominent scientific leaders.

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