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1 9 9 1 S E M I N A R S

Morning Transport

- July 8 "Functional signatures for transport proteins: Looking backward toward the future" David C. Dawson, Ph.D., University of Michigan Medical School
- July 16 "Epithelial chloride channels and the cystic fibrosis gene: The function junction" Raymond A. Frizzell, Ph.D., University of Alabama at Birmingham
- July 22 "Molecular biology, transport and immunology - 'mix and match'" Alison Morrison-Shetlar, Ph.D., Max-Planck Institut fuer Systemphysiologie, Dortmund, Germany
- July 29 "The actin cytoskeleton in the epithelial cell" Richard M. Hays, M.D., Albert Einstein College of Medicine, Prof. Yuri Natochin, M.D., Ph.D. and Rimma Parnova, Ph.D., Sechenov Institute of Evolutionary Physiology, Leningrad, USSR
- August 5 "Cloning and sequencing of cardiac C type natriuretic peptide (CNP) and gene in the spiny dogfish shark, Squalus acanthias" John N. Forrest, Jr., M.D., Yale University School of Medicine, J. Paul Schofield, M.D. and D. Stephen C. Jones, Ph.D., MRC Molecular Genetics Unit, Cambridge, England
- August 12 "Expression cloning of membrane transport systems" James L. Boyer, M.D., Yale University School of Medicine
- August 19 "Progress in the Na,K,Cl-cotransporter in shark rectal gland" Bliss Forbush III, Ph.D., Yale University School of Medicine
- August 26 "Band 3 and skate RBC volume regulation" Leon Goldstein, Ph.D., Brown University

Morning Toxicology

- July 19 "Mechanisms of metal toxicity in vascular smooth muscle" David H. Evans, Ph.D., University of Florida
- July 26 "Effect of mercurials on the membrane transport of organic molecules by invertebrate red cells" Robert L. Preston, Ph.D., Illinois State University
- August 9 "Sodium-cotransport systems and cadmium" Rolf Kinne, M.D., Ph.D., Max-Planck-Institut fuer Systemphysiologie, Dortmund, Germany

Noon

- July 5 "Experimental analysis of animal cell division" Raymond Rappaport, Ph.D., Mount Desert Island Biological Laboratory

"Stimulation of chloride secretion in the shark rectal gland: Role of atrial natriuretic peptide" Karl Karnaky, Jr., Ph.D., Medical University of South Carolina

July 12 "Regulation of spermatogenesis in shark" J. Michael Redding, Ph.D., Tennessee Tech University

Several short presentations by the following: Gary W. Conrad, Ph.D., Kansas State University; Gregg A. Kormanik, Ph.D., University of North Carolina at Asheville; David S. Miller, Ph.D., NIH/NIEHS; Robert L. Preston, Ph.D., Illinois State University; Richard Solomon, M.D., Harvard Medical School and New England Deaconess Hospital

July 19 "Testing the free radical theory of aging" Barbara Kent, Ph.D., Mount Desert Island Biological Laboratory

"Toward an alternate cytochrome oxidase: The photochemical action spectrum for reversal of co-inhibition in skate gastric mucosal cells" George W. Kidder III, Illinois State University

"Regulation of spermatogenesis: The shark testis model" Gloria V. Callard, Ph.D., Boston University

July 26 "Electrogenic Na/H antiporter: Beginning Molecular studies" David W. Towle, Ph.D., Lake Forest College

"Molluscan models of mammalian reperfusion injury: Free radicals revisited", James A. Dykens, Ph.D., Grinnell College

August 2 "Evolution and regulation of a calcium binding protein gene" Nelson B. Horseman, Ph.D., University of Cincinnati Medical School

Evening

July 3 "Cell to cell communications in ovarian development" John J. Eppig, Ph.D., The Jackson Laboratory, Bar Harbor, Maine

July 10 "Directional cell movements during embryogenesis" J.P. Trinkaus, Ph.D., Yale University

July 17 "Biological motors and embryo development" Dan Kiehart, Ph.D., Harvard University

July 24 "Estrogen regulation of uterine proto-oncogene expression" George M. Stancel, Ph.D., The University of Texas Medical School at Houston

July 31 (William L. Doyle Lecture) "Adenosine receptors and signaling in the nephron" William S. Spielman, Ph.D., Michigan State University

August 5 "The 'new' endocrinology" Howard A. Bern, Ph.D., University of California at Berkeley

- August 7 THE TENTH WILLIAM B. KINTER MEMORIAL LECTURE. "Environmental health: Global and local issues" David P. Rall, M.D., Ph.D., NIH/NIEHS
- August 14 "Exploring the life history of the sodium pump" Douglas M. Fambrough, Ph.D., The Johns Hopkins University

Special Seminars

- July 18 "Islands: Crucibles of Evolution" Prof. William H. Amos, Marine Biologist, Nature Photographer and Science Writer, Lyndonville, Vermont. Public lecture to enhance MDIBL's educational program for high school and undergraduate students funded by the Pew Foundation, Burroughs Wellcome Fund and the Hearst Foundation
- July 18 CURRENT RUMOR IN MOLECULAR TECHNIQUES - Topic: "Making cDNA libraries using items available at Don's Shop & Save" - Informal discussion. D. Stephen C. Jones, Ph.D., MRC Molecular Genetics Unit, Cambridge, England
- July 23 CURRENT RUMOR IN MOLECULAR TECHNIQUES - "Pulling a rabbit out of a shark: Uses of nucleic acid homology and PCR" J. Paul Schofield, M.D., MRC Molecular Genetics Unit, Cambridge, England
- July 30 CURRENT RUMOR IN MOLECULAR TECHNIQUES - Topic: "Egg on my face: Life with the xenopus oocyte" - Round table discussion. Leader, David S. Miller, Ph.D., NIH/NIEHS
- August 8 "Future Science: Young Scientists at work today!" Local and national high school and college students participating in exciting hands-on training programs at the MDIBL and The Jackson Laboratory describe their research projects.

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