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1 9 8 9 S E M I N A R S

Morning Transport

- July 10 "Epithelial Impedance: The Real and the Imaginary Parts." D.C. Dawson
- July 17 "Down and Out in the Distal Tubule: Calcium Transport Stimulated by Parathyroid Hormone." P.A. Friedman
- July 24 "How is Chloride Secretion Regulated?" J.D. Valentich
- July 31 "Role of Cardiac Peptides in Fish Osmoregulation." D.H. Evans
- August 7 "Regulation of the Na-K-2Cl Co-transporter in Rectal Gland." B. Forbush III
- August 14 "Regulation of a Cytoskeletal Protein by Alternative mRNA Splicing." E.J. Benz, Jr.
- August 21 "Carbonic Anhydrase in Acid-Base Regulation and Gas Exchange of Marine Fish." E.R. Swenson

Noon

- July 7 6 Minute Research Summaries by 10 MDIBL Investigators
- July 14 "Update of the Physiology of the Teleost Chloride Cell." K. Karnaky, Jr.

"Protein Sorting and Trafficking in Cultured Epithelial Cells." Tom W. Ecay, Ph.D., University of Texas Medical School at Houston
- July 21 6 Minute Research Summaries by 10 MDIBL Investigators
- July 28 Dedication Ceremony of the Homer W. Smith Laboratory at the MDIBL
- August 4 6 Minute Research Summaries by 9 MDIBL Investigators
- August 11 "Role of Taurine in Cell Volume Regulation in the Rectal Gland." F. Ziyadeh

"The Role of Growth Factors on Spermatogenesis." W. Dubois
- August 18 "Cell Volume Regulation in Chloride Cells of the Gill." J. Zadunaisky

"Cell Volume Regulation in Hepatocytes." J.L. Boyer
- August 25 "Role of Glial Cells in Calcium Homeostasis." A.S. Bender

"Crab Urinary Bladder: A Model for Vertebrate Proximal Tubule." D.S. Miller

Evening

- June 28 "The Avian Cornea--A Model for Studying the Roles of Collagens in Embryonic Development." Thomas F. Linsenmayer, Ph.D., Tufts University Medical School
- July 5 "Ion Channels and Their Uses in Living Cells." D.C. Dawson
- July 12 "New Concepts in Ammonium and Potassium Transport in the Thick Ascending Limb of Henle's Loop." S.C. Hebert
- July 19 "Mycoplasma as a Model in Membrane Lipid Research." Shlomo Rottem, Ph.D., The Hebrew University, Hadassah Medical School, Jerusalem, Israel
- July 26 "From Frogs to Man: Discovery of a New Host Defense System Mediated by Ionophoric Peptides." Michael Zasloff, M.D., University of Pennsylvania School of Medicine and The Children's Hospital of Philadelphia
- August 2 "Molecular Interactions Associated with Transepithelial Zinc Movement." Robert J. Cousins, Ph.D., University of Florida
- August 9 THE EIGHTH ANNUAL WILLIAM B. KINTER MEMORIAL LECTURE. "Calcium Transport as an Indicator of Environmental Problems." David B. Peakall, Ph.D., D.Sc., National Wildlife Research Center, Canadian Wildlife Service, Ottawa, Ontario, Canada
- August 16 "Circadian Rhythms in the Visual System of Limulus: From Molecule to Behavior." Len Kass, Ph.D., University of Maine
- August 23 "Calcium Channels: Classification, Regulation and Biological Functions." M. Morad

Special Seminars

- June 14 "The Hidden Life of Rocky Shores." Prof. William H. Amos, Marine Biologist, Nature Photographer and Science Writer, Lyndonville, Vermont
- June 15 "The Ecology of Eel Grass Communities." Prof. William H. Amos
- August 17, 18, 19 - 3 Part Mini-series - "Molecular Biology for the Millions." E.J. Benz, Jr.
- I - "Anatomy and Physiology of the Gene"
- II - "Methods and Applications of Recombinant DNA"
- III - "Mechanisms in the Regulation of Gene Expression"

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