

2001

ANNUAL SYMPOSIUM

OF RYAN FELLOWS

AT SQUAM LAKE

May 10 12, 2001



DARTMOUTH COLLEGE

MINARY CONFERENCE CENTER

HOLDERNESS, NEW HAMPSHIRE

Program

Thursday, May 10, 2001

5:00 pm Cocktails

6:00 Dinner

7:30 Speaker: Robert Brackenbury, Ph.D.

Professor
Cell Biology, Neurobiology and Anatomy
Cell-Cell Interactions and Tumor Metastasis

Friday, May 11, 2001

7:30 am Breakfast

SCIENTIFIC SESSION I - Robert F. Highsmith, Ph.D., Chair

Associate Dean and Director

Office of Research and Graduate Education

University of Cincinnati College of Medicine

8:30-8:50 My N. Dang, Dartmouth

Sgk (Serum- and Glucocorticoid- Inducible Protein Kinase) Regulates
Sodium Current in Mammalian Cortical Collecting Duct Cells

8:50-9:10 Josef Kurtz, Harvard

Mechanisms Involved in the Induction of Donor-Specific Tolerance Across
a Full MHC Barrier Through BMT and Costimulatory Blockade

9:10-9:30 Susan A. McDowell, Cincinnati

Mediation of Nickel-Induced Acute Lung Injury by Nitric Oxide

9:30-9:50 Edmund A. Griffin, Jr., Harvard

Light-Independent Role Of Cry1 and Cry2 in the Mammalian Circadian
Clock

9:50-10:10 Keith J. DiPetrillo, Dartmouth

TNF Alters Renal Ca and Na Transport in Diabetic Rats Through Chronic

and Acute Actions

10:10-10:30 Karen Liby, Cincinnati

Prolactin as an Autocrine Growth Factor in Human Breast Cancer

10:30-10:50 Nicholas Stavropoulos, Harvard

A Functional Role For *Tsix* Transcription In Blocking *Xist* Rna Accumulation And X-Inactivation In *cis*

10:50 Coffee Break

SCIENTIFIC SESSION II - J. Andrew Daubenspeck, Ph.D., Chair,

Professor of Physiology, Adjunct Professor of Biomedical Engineering, Dartmouth Medical School

11:00-11:20 Katharine A. Hintz, Dartmouth

The High Affinity IgG receptor on Human Monocytes CD64(Fc γ RI), is Upregulated Following Intravenous Endotoxin Administration

11:20-11:40 Henning F. Horn, Cincinnati

P53-Dependent Cellular Toxicity of Constitutive Map Kinase Activation is Controlled by Waf1 Phosphorylation On SER125

11:40-12:00 Catherine Ackley, Dartmouth

The Ability of Gata Protein Family Members to Direct Erythroid Specific Chromatin Structure Reorganization And Gene Expression

12:00-12:20 pm Alo C. Basu, Harvard

Interactions Between Neurosecretory Systems Modulating Aggression in the Lobster

12:20-12:40 Mei Zhang, Cincinnati

Disruption Of The IGF-I Receptor In Bone by Cre-Mediated Gene Targeting

12:40-1:00 Laura Guogas, Harvard

Structural Studies of a Viral RNA -Peptide Complex

1:00 Lunch and Free Time

5:00 Cocktails

6:00 Dinner

7:00 Albert J. Ryan Fellowship Foundation Report

Robert Manley, Don Keller

7:30 Speaker: Lisa Marie Kozlowski, Ph.D

Program Director, *Sciences Next Wave*

What's beyond the "light at the end of the tunnel"?

Saturday, May 12

7:30 am Breakfast

SCIENTIFIC SESSION III - Iain Cartwright, Ph.D., Chair

Associate Professor and Graduate Program Director

Molecular Genetics, Biochemistry and Microbiology

University of Cincinnati College of Medicine

8:30-8:50 Todd S. Davidson, Dartmouth

Identification of a Novel Modulator of the Immune Response

8:50-9:10 Shengwen Zhang, Cincinnati

Opioid Receptor-Like Receptor Or11:

Signaling and Interaction with Opioid Receptors

9:10-9:30 Mari A. Takasu, Harvard

Eph Receptors Interact with Nmda Receptors and Regulate Excitatory Synapse Formation and Function

9:30-9:50 Kimberlee S. Mix, Dartmouth

Inhibition of Matrix Metalloproteinases With a Synthetic Triterpenoid: Potential Involvement of Nuclear Hormone Receptor PPAR- γ

9:50-10:10 Stacey K. Ogden, Cincinnati

Hepatitis B Viral Transactivator Hbx Alleviates P53 Mediated Repression of Alpha-Fetoprotein Gene Expression

10:10-10:30 Heather Prince, Dartmouth

Iron Uptake and Regulation in the Bradyrhizobium Soybean Symbiosis

10:30 Coffee Break

SCIENTIFIC SESSION IV - Joceyln Spragg, Ph.D., Chair

Faculty Director, Minority Programs and Special Academic Resources, and Chair, Harvard Ryan Fellows Selection Committee
Harvard Medical School

10:40-11:00 Elissa P. Lei, Harvard

Messenger RNAs Are Recruited For Nuclear Export During Transcription

11:00-11:20 Shawn Jeffries, Cincinnati

Neoplastic Transformation by Notch Requires Nuclear Localization

11:20-11:40 Kyle S. MacLea, Dartmouth

Structure And Processing of Human Deoxyribonuclease II

11:40-12:00 K. Sturm-Ramirez, Harvard

The Effect of Bacterial Vaginosis Treatment on Inflammation and Hiv-1 Shedding in Women

12:00-12:20 pm Timothy H. Sulahian, Dartmouth

Development of an Elisa to Measure Soluble Cd163 in Biological Fluids

12:30 Lunch and Departure