

**2011 GORDON RESEARCH
CONFERENCE ON POLYAMINES
&
2011 GORDON RESEARCH
SEMINAR : POLYAMINES**

Program



[SUNDAY June 19, 2011]

Genetic and Epigenetic Control of Gene Expression

Discussion Leader: Jian-Ying Wang (University of Maryland)

Stephen B. Baylin (Johns Hopkins University)

"Origins of abnormal DNA methylation patterns in cancer"

Robert A. Casero, Jr. (Johns Hopkins University)

"Epigenetic targets for polyamine analogues"

Richard Poulin (Laval University)

Short Talk: "Polyamine transport: dealing with an ESCRT agency"

[MONDAY June 20, 2011]

Drug Discovery and Development

Discussion Leader: Otto Phanstiel (University of Central Florida)

R. Kiplin Guy (St. Jude Children's Research Hospital)

"Screening for new inhibitors of ODC"

Alex Khomutov (Russian Academy of Sciences)

"Unexpected possibilities to investigate the regulation of polyamine metabolism using novel C-methylated polyamine derivatives"

Jason Zell (University of California, Irvine)

"Polyamine inhibition as colorectal cancer risk reduction: clinical and translational perspectives"

Andre Bachmann (University of Hawaii at Hilo)

"Novel polyamine inhibitor drug combinations and advancement of DFMO to a neuroblastoma clinical trial"

Post-Translational Modifications I: eIF5A and Hypusine

Discussion Leader: Myung Hee Park (NIH)

Cleslei F. Zanelli (UNESP)

"eIF5A interacts functionally with eEF2 in yeast"

Raghavendra G. Mirmira (Indiana University)

"Role and regulation of hypusination during pancreatic islet stress"

[TUESDAY June 21, 2011]

Parasite Pathogenesis

Discussion Leader: Annette Kaiser (University of Applied Sciences Cologne)

Margaret A. Phillips (University of Texas Southwestern)

"Regulation of polyamine biosynthesis in *Trypanosoma brucei*"

Lyn-Marie Birkholtz (University of Pretoria)

"Functional genomic analyses of the antimalarial properties of polyamine analogues and biosynthesis inhibitors"

Sigrid Roberts (Pacific University)

"The role of *Leishmania*-derived arginase in host infections"

Marie-Pierre Hasne (Oregon Health and Sciences University)

"Polyamine transport in *Trypanosoma cruzi*"

Control of Cell Signaling

Discussion Leader: Heather Wallace (University of Aberdeen)

Roberto Amendola (ENEA Rome)

"Spermine oxidase and reactive oxygen species in neuronal cells"

Kazuei Igarashi (Chiba University)

"Correlation of acrolein produced from polyamines with brain infarction-induced cell damage"

[WEDNESDAY June 22, 2011]

Biosynthetic and Catabolic Diversity

Discussion Leader: Ian Blagbrough (University of Bath)

Anthony J. Michael (University of Texas Southwestern)

"The diversity of polyamine biosynthesis"

David W. Christianson (University of Pennsylvania)

"Evolution of Structure and Mechanism in Arginase and Polyamine Deacetylase"

Birgit Draeger (Martin Luther University)

"Evolution of putrescine N-methyltransferase from spermidine synthase"

Ivaylo Ivanov (University College Cork)

"Polyamines in translational (auto)regulation - lessons from fungi and animals"

Post-Translational Modifications II: Antizymes and their Inhibitors

Discussion Leader: Takami Oka (Wakunaga Pharmaceuticals)

Rafael Penafiel (University of Murcia)

"Antizyme inhibitor 2: functional and structural aspects"

Senya Matsufuji (Jikei University)

"Regulation of c-Myc by antizyme 2 and its biological significance"

[THURSDAY June 23, 2011]

Disease Models

Discussion Leader: Susan Gilmour (Lankenau Institute for Medical Research)

Keith T. Wilson (Vanderbilt University)

"Ornithine decarboxylase and spermine oxidase in *Helicobacter pylori*-induced immune dysregulation and gastric carcinogenesis"

David J. Feith (The Pennsylvania State University)

"Models with inducible expression of AdoMetDC and Antizyme"

TachaZi Plym Forshell (Umea Univeristy)

"Targeting polyamine biosynthetic enzymes results in chemoprevention in mouse models of Myc-induced tumorigenesis"

Leena Alhonen (University of Eastern Finland - Kuopio)

"Polyamine metabolism in hematopoiesis"

Keynote Session

Discussion Leader: Peter McCann (University of Cincinnati College of Medicine)

Presentations from student GRS

Introduction: Peter McCann

Anthony E. Pegg (The Pennsylvania State University)

Keynote: "Advances in our understanding of polyamine metabolism"

[FRIDAY June 24, 2011]

Departure