

**2013 GORDON RESEARCH  
CONFERENCE ON POLYAMINES  
&  
2013 GORDON RESEARCH  
SEMINAR : POLYAMINES**

*Program*



**[SUNDAY June 16, 2013]**

**Polyamines in New Arenas of Biology: Stem Cells, Aging and Therapy**  
**Discussion Leader: Keiko Kashiwagi (Chiba Institute of Science)**

**Leah Vardy (Institute of Medical Biology)**

**"A role for polyamine regulators in embryonic stem cell self-renewal and differentiation"**

**Mitsuharu Matsumoto (Kyodo Milk Industry Co. Ltd.)**

**"Promotion of longevity due to upregulation of gut bacterial polyamine production"**

**Robert Casero (Johns Hopkins University)**

**"Amine oxidases: Potential targets for prevention and therapy"**

**[MONDAY June 17, 2013]**

**Translational Control**

**Discussion Leader: Anthony Pegg (Pennsylvania State University College of Medicine)**

**R. Jurgen Dohmen (University of Cologne)**

**"Polyamine-mediated regulation of ornithine decarboxylase antizyme"**

**Myung-Hee Park (NIH)**

**"Role of polyamines and eIF5A in eukaryotic translation"**

**Salim Merali (Temple University School of Medicine)**

**"Modulation of SSAT Translation"**

**Jian-Ying Wang (University of Maryland School of Medicine)**

**"Translational regulation through RNA-binding proteins and microRNAs by polyamines controls gut epithelial homeostasis"**

**4:00 pm - 6:00 pm**

**Poster Session**

**Roles of Polyamines in Metabolism and Disease**

**Discussion Leader: Enzo Agostinelli (University of Rome)**

**Raghu Mirmira (Indiana University School of Medicine)**

**"Polyamines and hypusine in diabetes pathogenesis and treatment"**

**Short Talk: Shirly Brenner (Weizmann Institute of Science)**

**"Inhibition of adipogenesis by polyamine depletion, a mechanistic insight"**

**Keith T. Wilson (Vanderbilt University)**

**"Epidermal growth factor activation and polyamines in Helicobacter pylori-induced DNA damage and gastric carcinogenesis"**

**Kazuei Igarashi (Chiba University)**

**"Toxicity of acrolein produced from polyamines during brain infarction"**

**[TUESDAY June 18, 2013]**

**Polyamine Transport and Ion Channel Functions**

**Discussion Leader: Heather Wallace (University of Aberdeen)**

**Richard Poulin (Laval University)**

**"MBGR-1, a novel antizyme-like repressor of mammalian polyamine**

**transport"**

**Miki Fujita (RIKEN)**

**"Transport of paraquat in plants is mediated by a polyamine transporter"**

**Jacqui Gulbis (WEHI)**

**"Polyamine binding in the conduction pathway of Kir channels and what it reveals: A changing perspective on pore gating"**

**Pierre Paoletti (INSERM)**

**"Molecular action of extracellular polyamines on NMDA receptors"**

**Therapeutic Development and Applications**

**Discussion Leader: Alex Khomutov (Russian Academy of Sciences)**

**Patrick Woster (University of South Carolina)**

**"Epigenetic modulation with synthetic polyamine analogues as a therapeutic strategy"**

**Margaret Phillips (UT Southwestern)**

**"Regulatory control of polyamine biosynthesis in Trypanosoma brucei"**

**Alex Khomutov (Russian Academy of Sciences)**

**"Methylated and charge-deficient polyamine analogues"**

**[WEDNESDAY June 19, 2013]**

**Polyamines in Cancer Development and Therapy**

**Discussion Leader: David Feith (Penn State College of Medicine)**

**Susan K. Gilmour (Lankenau Institute)**

**"Polyamines promote tumorigenesis by generating an immunosuppressive microenvironment"**

**Jonas Nilsson (University of Gothenburg)**

**"Role of polyamines in Myc-induced lymphoma"**

**Lisa Shantz (Penn State College of Medicine)**

**"Keratinocyte differentiation and expansion in mice with altered polyamines"**

**Frank L. Meyskens (UC Irvine)**

**"Followup studies of DFMO plus sulindac for colorectal cancer prevention and the use of DFMO for non-melanoma skin cancer and prostate cancer prevention"**

**4:00 pm - 6:00 pm**

**Poster Session**

**Roles of Polyamines in Bacterial Physiology and Pathogenesis**

**Discussion Leader: Anthony J. Michael (University of Texas Southwestern)**

**Ilana Kolodkin-Gal (Weizmann Institute)**

**"Polyamines play key role in the breakdown of bacterial biofilms"**

**Shin Kurihara (Emory University School of Medicine)**

**"Putrescine importer PlaP contributes to swarming motility and urothelial cell invasion in *Proteus mirabilis*"**

**Anthony J. Michael (University of Texas Southwestern)**

**"The diversity of bacterial polyamine biosynthesis and function"**

**[THURSDAY June 20, 2013]**

**Cancer Therapeutic Trials Targeting the Polyamine Pathway**

**Discussion Leader: John L. Cleveland (Scripps Florida)**

**Michael D. Hogarty (University of Pennsylvania)**

**"Polyamine antagonist therapeutics for the pediatric cancer neuroblastoma"**

**Andre Bachman (University of Hawaii)**  
**"DFMO in pediatric neuroblastoma: Latest progress on Phase I and Phase II clinical trials"**

**Eric A. Lightcap (Millennium Pharmaceuticals)**  
**"Dysregulation of polyamines is the mechanism of cell death by proteasome inhibition"**

**4:00 pm - 6:00 pm**

**Poster Session**

**Keynote Session: How do polyamines do it?**  
**Discussion Leader: Chaim Kahana (Weizmann Institute)**

**TBA (Presentations from GRS or Poster Sessions)**

**Keynote Speaker: Eugene Gerner (Arizona Cancer Center)**  
**"How do polyamines do it?"**

**[FRIDAY June 21, 2013]**

**9:00 am**

**Departure**