

2003 GORDON RESEARCH CONFERENCE ON POLYAMINES

Program



Session 1: Metabolism/Regulation

Discussion Leader: Eugene W. Gerner (University of Arizona)

Anthony E. Pegg (Pennsylvania State University):

Overview of polyamine metabolism.

Emanuele Giordano (University of Bologna):

Coordinate biochemical cross-talk among arginine-dependent enzymatic pathways in the hypertrophic heart.

Colin Hafrey (Institute of Food Research):

Polyamines and translation inhibition.



Session 2: Homeostasis I (Oxidases/Transport)

Discussion Leader: Heather M. Wallace (University of Aberdeen), John L. A. Mitchell (Northern Illinois University)

Carl W. Porter (Roswell Park Cancer Institute):

New insights into polyamine catabolism based on SMO and PAO.

Robert A. Casero (John Hopkins University School of Medicine):

Polyamine catabolism, a matter of life and death.

Keiko Kashiwagi (Chiba University):

Polyamine transport in eukaryotic and prokaryotic cells.

Flavio Flamingi (University of Bologna):

Polyamine and signaling pathways in mammalian cells.



Session 3: Homeostasis II (Antizyme)

Discussion Leader: John Atkins (University of Utah)

Tongwen Wang (Virginia Mason Research Institute):
Antizyme-dependent degradation in BMP-mediated signaling pathways.

Senya Matsufuji (Jikei University School of Medicine):
An upstream element for the antizyme frameshift signal.

Philip Coffino (University of California, San Francisco):
ODC not busy being born is busy dying.



Session 4: Chromatin/Gene Activation

Discussion Leader: Olle Heby (Umea University)

Subhash Minocha (University of New Hampshire):
Regulation of gene expression in relation to polyamine metabolism.

Andrew Maniotis (University of Illinois at Chicago):
Unexpected differences among normal versus malignant cell DNA
sequestration or exposure:
targeting oncogene deregulation with polyamines.



Session 5: Parasites

Discussion Leader: Nigel Yarlett (Pace University)

Sigrid Roberts (Oregon Health Sciences University):
Polyamines in *Leishmania*: elucidation of a pathway.

Margaret Phillips (University of Texas Southwestern Medical Center):
(Protozoal polyamines: Cell organization and antioxidant protection.)

Salim Merali (New York University School of Medicine):
S-adenosylmethionine, polyamines and *Pneumocystis carini*.



Session 6: Transgenics/Cancer

Discussion Leader: Lisa Shantz (Pennsylvania State University), Frank Berger
(University of South Carolina)

Juhani Janne (University of Kuopio):

Genetic engineering of polyamine catabolism in transgenic rats and mice.

John Cleveland (St. Jude Children's Research Hospital):

Regulation and role of ODC in MYC-induced tumorigenesis.

Debora Kramer (Roswell Park Cancer Institute):

Activated polyamine catabolism and cancer prevention.

Thomas O'Brien (Lankenau Medical Research Center):

Anti-polyamine therapy of squamous cell carcinoma.



Session 7: Enzyme Structure

Discussion Leader: Margaret Phillips (University of Texas Southwestern
Medical Center)

Steve Ealick (Cornell University):

Structural studies on polyamine biosynthetic enzymes.



Session 8: New Leads/Clinical Aspects

Discussion Leader: Stina Oredsson, (University of Lund) Lawrence Marton
(SLIL Biomedical)

Ben Frydman (SLIL Biomedical):

Novel synthetic polyamine analogs which inhibit growth of cancer tumor
xenografts in nude mice.

Elena Martinez (University of Arizona):

Genetic variant in the ornithine decarboxylase gene and aspirin use suppress
polyamine levels

to reduce risk of colorectal neoplasia.

Victor Levin (M. D. Anderson Cancer Center):

Efficacy of DFMO with PVC in randomized phase III study of patients with
anaplastic gliomas.



Session 9: Keynote Address

Seymour Cohen

Some views on the past and present status of polyamine research.