THE 2001 POLYAMINE GORDON RESEARCH CONFERENCE

Program

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Session 1: Metabolism/Regulation
Discussion Leader: Lisa Shantz (Penn State University)

Diane McCloskey (Penn State University):
The relationship between SSAT and cellular resistance to polyamine analogues.

Stephane Pyronnet (McGill University):
Cell-cycle dependent translational control of ODC.

Sidney Morris (University of Pittsburgh):
Arginine metabolic enzymes as potential regulators of polyamine synthesis.

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Session 2: Cell Cycle Regulation/Cell Death
Discussion Leader: Debra Kramer(Roswell Park Cancer Institute)

Stina Oredsson (University of Lund):
Early molecular consequences on cell cycle regulatory proteins by polyamine biosynthesis inhibition.

Kazuei Igarashi (Chiba University):
Physiological functions of polyamines at the molecular level and in vivo.

Craig Byus (University of California at Riverside):
Regulation of gene expression following ODC over expression.

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Session 3: Transgenic Approaches
Discussion Leader: Leena Alhonen (University of Kuopio)

Susan Gilmour (Lankenau Medical Research Center):
Essential role of ornithine decarboxylase and polyamines in epidermal tumorigenesis.

Catherine Coleman (Penn State University):
Targeted expression of SSAT increases susceptibility to chemically-induced skin carcinogenesis.

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Session 4: Transport
Discussion Leader: Carl W. Porter (Univeristy of Buffalo and RPCI)

Chaim Kahana (Weizmann Insitute):
Phosphorylation cascades regulate polyamine transport and ion homeostasis.

Richard Poulin (Laval University):
Mammalian polyamine transport mechanism and novel competitive inhibitors.

Joseph Satriano (University of California, San Diego):
Agmatine, the other polyamine, in mammalian cells.

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Session 5: Plants and Food
Discussion Leader: Nello Bagni (University of Bologna)

Antonio Tiburcio (University of Barcelona):
Localization of polyamine biosynthetic enzymes in plants.

Tony Michael (Institute of Food Research):
Unwrapping the enigma of polyamine function in plants.

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Session 6: Ion Channels
Discussion Leader: Charles Henley (AMGEN)

Anne Delcour (University of Houston):
Polyamines and the control of bacterial outer membrane permeability.

Colin Nichols (Washington University):
Polyamine block of Kir channels: towards a molecular picture.

Jian-Ying Wang (University of Maryland, VA Medical Center):
Regulation of K+ channel expression by polyamines during intestinal epithelial cell migration.

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Session 7: Chemistry
Discussion Leader: Alex Khumatov (Russian Academy of Sciences)

Patrick M. Woster (Wayne State University):
Terminally aralkylated polyamine analogues with significant antiparasitic activity.

Jean-Guy Delcros (University of Renne):
Using or inhibiting the polyamine transport system: one and the same thing?

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Session 8: Enzyme Structure and Function
Discussion Leader: John Cleveland (St. Jude Children's Research Hospital)

Meg Phillips (University of Texas Southwestern):
Structure and functional analysis of Trypanosoma brucei ornithine decarboxylase.

Andrea Mattevi (University of Pavia):
Structural and crystallographic studies on polyamine oxidase.

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Session 9: Parasites
Discussion Leader: Olle Heby (Umea University)

Rolf Walter (Bernhard Nocht Institute):
The bifunctional ODC/AdoMetDC of Plasmodium falciparum and its role and function in the polyamine metabolism of the human malaria parasite.

Nigel Yarlett (Pace University):
Polyamine scavenging by parasitic protozoa.

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Session 10: Clinical Aspects
Discussion Leader: Gene Gerner (University of Arizona)

Bruce Zetter (Harvard Medical School):
Regulation of prostate cell growth by antizyme.

Nancy Davidson (Johns Hopkins University):
Polyamine analogs as treatment for breast cancer.

Graham Shaw (Trinity College, Dublin):
Behavioural indices of polyamine function in the CNS.

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Session 11: Keynote Address
Laurence Marton (SLIL Biomedical)
Therapeutic implications for polyamine analogs in a new paradigm for disease causation.

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