

2007 GORDON RESEARCH CONFERENCE ON POLYAMINES

Posters

- 1 . ENZO AGOSTINELLI (UNIVERSITY OF ROME "LA SAPIENZA")
Lysosomotropic Compounds and Polyamine Oxidation Products in Cancer Therapy
- 2 . I D ALGRANATI (FUNDACION INSTITUTO LELOIR)
Trypanosoma cruzi as a model system to study the expression of exogenous genes coding for polyamine-biosynthetic enzymes
- 3 . KERSTI ALM (LUNDS UNIVERSITET)
To be announced
- 4 . SHRIDHAR BALE (CORNELL UNIVERSITY)
Structural insights into putrescine activation of human S-adenosylmethionine decarboxylase
- 5 . SUSANNA BOMAN (UNIVERSITY OF KUOPIO)
Activated polyamine catabolism depletes ATP pools in fetal fibroblasts
- 6 . VERIDIANA CANO (SAO PAULO STATE UNIVERSITY)
Mutational analyses of human eIF5A-1: Identification of amino acid residues critical for hypusine modification and eIF5A activity
- 7 . MARC CERRADA-GIMENEZ (UNIVERSITY OF KUOPIO)
Enhanced gluconeogenesis coupled with glucose sensitivity on a transgenic mouse line with activated polyamine catabolism
- 8 . MANAS CHATTOPADHYAY (LBG, NIDDK, NIH)
Spermidine functions in yeast (*Saccharomyces cerevisiae*)

9 . RUPESH CHATURVEDI (DIVISION OF GASTROENTEROLOGY,
DEPT. OF MEDICINE

Ornithine Decarboxylase Inhibits Nitric Oxide Production in Infiltrating
Gastric Macrophages During *Helicobacter pylori* Infection

1 0 . CAMILA DIAS (UNESP- SCHOOL OF PHARMACEUTICAL
SCIENCES)

Structural modeling and mutational analysis of yeast eIF5A reveal new critical
residues and an essential C-terminal alpha-helix

1 1 . TERAYA DONALDSON (ALBERT EINSTEIN COLLEGE OF
MEDICINE)

Comparative Investigation of Methylthio Activity in Apicomplexan Purine
Nucleoside Phosphorylase

1 2 . DAVID FEITH (PENN STATE UNIVERSITY COLLEGE OF
MEDICINE)

Development of a transgenic mouse model with inducible and tissue-specific
antizyme-1 expression

1 3 . ALISON FRASER (JOHNS HOPKINS UNIVERSITY)

To be announced

1 4 . TACHA ZI FULGHAM (UMEA UNIVERSITY)

Spermidine Synthase, a Myc target and potential target for cancer treatment

1 5 . ANDREW GOODWIN (JOHNS HOPKINS UNIVERSITY)

Enterotoxigenic *Bacteroides fragilis* and inflammatory cytokines induce
spermine oxidase (SMO) in human colorectal cancer cell line HT29/c1

1 6 . AVTAR HANDA/SAVITHRI NAMBEESAN (PURDUE
UNIVERSITY)

Dissecting roles of polyamines in plant growth and development using
forward and reverse genetics

1 7 . KYOHEI HIGASHI (CHIBA UNIVERSITY)

Identification of a Spermidine Excretion Protein Complex (MdtJI)
in *Escherichia coli*

1 8 . WALID HOURY (UNIVERSITY OF TORONTO)

X-ray structure of the *E. coli* inducible Lysine Decarboxylase (LdcI/CadA):
Implications to the bacterial stringent response

1 9 . YI HUANG (JOHNS HOPKINS UNIVERSITY)

Reexpression of aberrantly silenced genes by novel polyamine analogues
through Inhibition of lysine-specific demethylase 1 (LSD1) in human colon
carcinoma cells

2 0 . MERVI HYVONEN (UNIVERSITY OF KUOPIO)

Support of cellular growth by optically active alpha-methylated polyamine
analogues

2 1 . YOSHIHIKO IKEGUCHI (JOSAI UNIVERSITY)

Apoptosis Signal - regulating Kinase 1 affects polyamine contents and the
sensitivity of mouse fibroblasts to polyamine analogs

2 2 . VERONICA JOHANSSON (LUND UNIVERSITY)

Polyamine depletion causes DNA damage in human breast cancer cell lines

2 3 . NAVNEET KAUR (UNIVERSITY OF CENTRAL FLORIDA)

Designing the Polyamine Pharmacophore: Influence of N-substituents on the
transport behavior of polyamine conjugates

2 4 . TUOMO KEINANEN (UNIVERSITY OF KUOPIO)

Control of the regioselectivity and stereospecificity of enzyme catalysis with
small guide molecules

2 5 . PAUL KONG THOO LIN (THE ROBERT GORDON UNIVERSITY)

The in vitro Apoptotic studies of anticancer agent bisnaphthalimidopropyl-
spermidine and spermine derivatives

2 6 . DANA-LYNN KOOMOA (CANCER RESEARCH CENTER OF HAWAII)

The role of putrescine, spermidine and spermine in cell cycle and cell survival in neuroblastoma cells

2 7 . DEBORA KRAMER (ROSWELL PARK CANCER INSTITUTE)

Direct Measurement of SSAT-induced Polyamine Metabolic Flux

2 8 . SHIN KURIHARA (RIKEN BRC-JCM)

A Novel Putrescine degradation Pathway Involves Gamma-glutamylated Intermediates of *Escherichia Coli* K-12

2 9 . JEONGMI LEE (UT SOUTHWESTERN MEDICAL CENTER)

Evolution of substrate specificity in the type IV ornithine decarboxylase family

3 0 . DIANE MCCLOSKEY (PENN STATE COLLEGE OF MEDICINE)

Importance of glutamic acid 247 to catalysis by and inhibition of S-adenosylmethionine decarboxylase

3 1 . SALIM MERALI (TEMPLE UNIVERSITY SCHOOL OF MEDICINE)

Mechanism and tissue specificity of nicotine-mediated lung S-adenosylmethionine reduction and resistance to *Pneumocystis* infection

3 2 . JOHN MITCHELL (NORTHERN ILLINOIS UNIVERSITY)

Antizyme induction and the response of tumor cells to polyamine analogs

3 3 . TRACY MURRAY-STEWART (JOHNS HOPKINS UNIVERSITY)

Inhibition of Lysine Specific Demethylase-1, LSD-1, by Polyamine Analogues in Human Acute Myeloid Leukemia Cell Lines

3 4 . SHORENA NADARAIA (PENN STATE COLLEGE OF MEDICINE)

Structural and Functional Studies of Spermidine Synthase

3 5 . SHANNON NOWOTARSKI (PENNSYLVANIA STATE UNIVERSITY)

Egr-1 as a Putative Transcriptional Regulator of Ornithine Decarboxylase (ODC)

3 6 . MAKIKO OHKIDO (JIKEI UNIVERSITY SCHOOL OF MEDICINE)
Hematopoietic cells are sensitive to high putrescine even before migrating into the fetal liver

3 7 . FRANCISCA SANCHEZ-JIMENEZ (UNIVERSITY OF MALAGA)
A trip towards a multilayer and extended view of amine metabolism assisted by Systems Biology technologies: the need of a consensus group

3 8 . JOLITA SECKUTE (CORNELL UNIVERSITY)
To be announced

3 9 . KOICHIRO SHIOKAWA (TEIKYO UNIVERSITY)
Execution of maternal program of apoptosis in *Xenopus* early embryos exposed to high temperature and/or treated with putrescine, spermidine, spermine, caldopentamine, or caldohexamine

4 0 . ERIKA SODERSTJERNA (LUND UNIVERSITY)
Differential sensitivity to polyamine analogue treatment in neuroblastoma cell lines

4 1 . YUSUKE TERUI (CHIBA INSTITUTE OF SCIENCE)
Syntheses of RpoN, Cra, and H-NS are enhanced by polyamines at the level of translation in *Escherichia coli*

4 2 . YUICHI TSUBOI (KYOTO UNIVERSITY)
A novel putrescine importer, PuuP, of *Escherichia coli*

4 3 . TAKESHI UEMURA (CHIBA UNIVERSITY)
Identification and characterization of polyamine preferential uptake proteins in *Saccharomyces cerevisiae*

4 4 . ANNE UIMARI (UNIVERSITY OF KUOPIO)

Regulation and intracellular localization of the SSAT-EGFP fusion protein

4 5 . LAURIE VON KALM (UNIVERSITY OF CENTRAL FLORIDA)

A *Drosophila* model to identify polyamine-drug conjugates that target the polyamine transporter in an intact epithelium

4 6 . HEATHER WALLACE (UNIVERSTIY OF ABERDEEN)

To be announced

4 7 . XIAOJING WANG (PENN STATE COLLEGE OF MEDICINE)

Localization of spermine synthase and its possible roles

4 8 . ERIN WILLERT (UNIVERSITY OF TEXAS SOUTHWESTERN
MED CENTER)

Trypanosomatid S-adenyosylmethionine decarboxylase is activated by heterodimer formation with an inactive paralog

4 9 . KEITH WILSON (VANDERBILT UNIVERSITY SCHOOL OF
MEDICINE)

Ornithine Decarboxylase Inhibits Nitric Oxide Production in Infiltrating Gastric Macrophages During *Helicobacter pylori* Infection

5 0 . LAN XIAO (UNIVERSITY OF MARYLAND)

Regulation of ATF-2 mRNA Stability by RNA-Binding Protein HuR Following Polyamine Depletion in Intestinal Epithelial Cells