

2005 GORDON RESEARCH CONFERENCE ON POLYAMINES

<<Monday's Poster Session>>

1. Enzo Agostinelli (University of Rome, La Sapienza)
Bovine serum amine oxidase and spermine potentiate the cytotoxicity induced on human cancer cells by different anti-cancer drugs.
2. Naveen Babbar (Johns Hopkins Hospital)
Induction of spermidine/spermine N1 acetyl transferase (SSAT) by tumor necrosis factor-alpha (TNF α) in various cancer cells.
3. Cyrus Bacchi (Pace University)
Polyamine metabolism in Microsporidia.
4. Andre Bachmann (University of Hawaii at Manoa)
Polyamine depletion induces p27Kip1 and leads to retinoblastoma protein Rb-mediated G1 cell cycle arrest in MYCN-amplified human neuroblastoma cells.
5. Upal Basuroy (University of Arizona)
Role of Caveolin-1 and caveolar endocytosis in polyamine uptake by human colon cancer cells.
6. Manas Chattopadhyay (National Institutes of Health/NIDDK)
Molecular and cellular functions of polyamines in *S. cerevisiae*.
7. Rupesh Chaturvedi (University of Maryland)
Spermine oxidase (polyamine oxidase 1) facilitates innate immunity: Depletion of spermine enhances nitric oxide production and killing of *Helicobacter pylori* by macrophages.
8. April Childs (University of Arizona)
The effects of eIF5A on p-body formation, translation and RNA decay.

9. Woonyoung Choi (University of Texas MD Anderson Cancer center)
Identification of polyamine catabolism regulator SSAT as a target for chemotherapy by functional genomics.
10. Jean-Guy Delcros (Groupe Cycle Cellulaire)
TBA
11. Jennifer Fleischer (Johns Hopkins University)
Characterization of the roles of the polyamine catabolic enzymes SSAT and SMO in determining cellular analogue response.
12. Alison Fraser (Johns Hopkins University)
Effect of antizyme knockdown in human lung tumor cells.
13. Susan K. Gilmour (Lankenau Institute for Medical Research)
Polyamines stimulate p53 acetylation and transcriptional activity.
14. Amy Hacker (Johns Hopkins University)
Spermine oxidase SMO (PAOh1), not N1-acetylpolyamine oxidase (PAO), is responsible for polyamine catabolism-produced H₂O₂: The combined role of SSAT and SMO (PAOh1) induction in response to exposure to a polyamine analogue in human breast cancer cell lines.
15. Kyohei Higashi (Chiba University)
Enhancement of +1 frameshift by polyamines during translation of prokaryote polypeptide release factor 2.
16. Martina Holst (Lund University)
Differential polyamine analogue effects in four human breast cancer cell lines.
17. Yoshihiko Ikeguchi (Josai University)
Effect of polyamines on differentiation of murine chondrogenic cell line ATDC5.
18. Aki Jarvinen (A. I. Virtanen Institute for Molecular Sciences)

The activities of polyamine and spermine oxidases with stereospecifically defined substrates.

19. Veronica Johansson (Lund University)

Correlation between DNA ligase I activity and sensitivity to treatment with a polyamine analogue

20. Tomonobu Kusano (Tohoku University)

Tobacco ZFT1, a transcriptional repressor with a Cys₂/His₂ type zinc finger motif that functions in spermine-signaling pathway.

21. Ursula Mangold (Children's Hospital/Harvard Medical School)

Antizyme and antizyme inhibitor localize to centrosomes and regulate centrosome amplification.

22. Jacques Moulinoux (University of Rennes)

Polyamine deficient diet against pain.

23. Noriyuki Murai (Jikei University School of Medicine)

Phosphorylation of antizyme 2.

24. Tracy Murray-Stewart (Johns Hopkins University)

Identification and characterization of SMO-5, an active spermine oxidase isoform homologous to the nuclear localized mSMOu.

<<Tuesday's Poster Session>>

25. Manas Chattopadhyay (National Institutes of Health/NIDDK)

Studies on the regulation of ornithine decarboxylase in yeast: Effect of deletion in the *MEU1* gene.

26. Susan K. Gilmour (Lankenau Institute for Medical Research)

Transient suprabasal induction of ornithine decarboxylase activates keratinocytes and stromal cells in mouse skin.

27. Kazuhiro Nishimura (Chiba University)

Lack of internal ribosome entry site in the 5'-UTR of ornithine decarboxylase mRNA.

28. Marcos Oliveira (University of Kentucky)

A new function for polyamines in pathogenic bacteria *Y. pestis*: a new role in biofilm formation.

29. Jack Olson (University of South Alabama)

Ornithine decarboxylase (ODC) and c-myc: determinants of lung endothelial cell (EC) proliferative heterogeneity.

30. Sofia Origanti (Pennsylvania State University)

Multiple mechanisms of ODC regulation in Ras transformed rat intestinal epithelial cells (RIE-1).

31. Otto Phanstiel (University of Central Florida)

Investigations of cell-selective drug delivery using the polyamine transporter.

32. Grace Polanski (Albert Einstein College of Medicine)

Inhibitor of methylthioadenosine phosphorylase alter polyamine biosynthesis.

33. Ning Qu (University of Arizona)

The Pai operon in *Bacillus subtilis* encodes two polyamine-regulated genes affecting sporulation and growth.

34. Rainer Schrader (Max Planck Institute for Biochemistry)

Involvement of the hypusine containing protein in NMD and mitochondrial respiration.

35. Rona Scott (Louisiana State University Health Science Center)

Inhibition of polyamine catabolism by Epstein-Barr Virus.

36. Koichiro Shiokawa (Teikyo University)

SAMDC mRNA-induced apoptosis and putrescine-induced malformation in *Xenopus laevis* embryos.

37. Erika Soderstjerna (Lund University)
A new potential anticancer drug in the treatment of neuroblastoma.
38. Denis Soulet (Chul Research Center)
TBA
39. Baiqing Tang (Fox Chase Cancer Center)
The methionine salvage pathway compound 4-methylthio-2-oxobutanoic acid causes down-regulation of ornithine decarboxylase, growth inhibition and apoptosis.
40. Thynn Thane (Northern Illinois University)
Investigating physiological functions of antizyme inhibitor.
41. Charles Toth (Providence College)
Characterization of antizyme activity in a yeast transposon mutagenesis system.
42. Keith Wilson (University of Maryland School of Medicine)
Spermine oxidase (polyamine oxidase 1) facilitates innate immunity: depletion of spermine enhances nitric oxide production and killing of *Helicobacter pylori* by macrophages.
43. Patrick Woster (Wayne State University)
Polyamine transition metal complexes as potential antitumor agents.
44. Nigel Yarlett (Pace University)
Modulation of host cell polyamine by the enteric parasite *Cryptosporidium parvum*.
45. Clelei Zanelli (Sao Paulo State University)
eIF5A is involved with cell polarity in the yeast *Saccharomyces cerevisiae*.
46. Brian Zid (Caltech)
Polyamines and the aging process in *Drosophila*.

47. Yanlin Wang (Johns Hopkins University School of Medicine)

Overexpression of N1-acetylpolyamine oxidase (PAO) in human cancer cells
alters cellular response to specific antitumor polyamine analogues:
Mechanism for drug resistance.