

# 2003 GORDON RESEARCH CONFERENCE ON POLYAMINES

<<Poster Presentations>>

[Poster Session I]

1. C. Illingworth, M. Mayer, K. Elliott, M. Collier, C. Hanfrey, A. J. Michael  
Institute of Food Research, UK)

Functional identification of an *Arabidopsis* agmatine iminohydrolase: diverse bacterial origins of the plant polyamine biosynthetic pathway.

2. M. Yoshida, K. Kashiwagi, A. Ishihama, K. Igarashi, (Chiba  
University/Nippon Institute of Biological Sciences, Japan)

Identification of polyamine modulons and regulation of gene expression by the modulons.

3. Y. Terui, D. Saito, M. Ohnuma, E. Kawashima, and T. Oshima (Tokyo  
University of Pharmacy and Life Science, Japan)

Effects of unique polyamines in an extreme thermophile, *Thermus thermophilus* in various DNA damages.

4. Y. Sato, Y. Terui, T. Oshima, S. Matsufuji (Toko University of Pharmacy  
and Life Science/Jikei University School of Medicine, Japan)

Effects of branched polyamines from *Thermus thermophilus* on antizyme frameshifting.

5. N. Murai, Y. Murakami, S. Matsufuji (Jikei University School of Medicine,  
Japan)

Cellular localization of antizyme and identification of NES in antizyme1.

6. M. Ohkido (Jikei University School of Medicine, Japan)

An essential role for antizyme1 in the fetal liver hematopoiesis.

7. T. K. Thane, J. L. A. Mitchell (Northern Illinois University, USA)  
Characterization of mammalian antizyme inhibitor.
8. Abrams, Christen, Eberhard, Lindsay, Gavin, Michael, Silveira, Alexandra,  
Toth, Charles (USA)  
Characterization of the antizyme gene family in *Xenopus laevis*.
9. C. L. DeBlecourt, J. L. A. Mitchell (Northern Illinois University, USA)  
Characterization of antizyme-1 in mammalian cells.
10. A. L. Subhi (USA)  
Polyamines and their rate-limiting enzyme ornithine decarboxylase (ODC)  
regulate cellular proliferation and differentiation.
11. J. M. Ackermann (USA)  
DNAzyme-mediated intervention of ODC activity.
12. C. S. Coleman, A. E. Pegg (Pennsylvania State University College of  
Medicine, USA)  
Mammalian putrescine biosynthesis.
13. K. Luersen, D. Ndjonka, Y. Zou, X. Bi, P. Woster, E. Liebau, R. D. Walter  
(Bernhard Nocht Institute for Tropical Medicine, USA)  
Regulation of nematode S-adenosylmethionine decarboxylases.
14. X. Wang (University Drive Hershey, USA)  
Overexpression of human spermine synthase gene in Gy mice.
15. M. K. Chattopadhyay, C. W. Tabor, H. Tabor (National Institutes of  
Health, USA)  
Spermidine formation from spermine in yeast by an amine oxidase: one  
enzyme two functions.
16. Y. Wang, T. M. Stewart, W. Devereus, A. Hacker, B. Frydman, P. M.  
Woster, R. A. Casero Jr. (Johns Hopkins University School of Medicine,

USA)

Properties of purified recombinant human polyamine oxidase, PAOh1/SMO.

17. S. Vujcic, P. Liang, P. Diegelman, D. L. Kramer, C. W. Porter (Roswell Park Cancer Institute, USA)

The use of functional genomics to identify a novel spermine-directed oxidase and the polyamine oxidase involved in polyamine back-conversion.

18. Y. Chen, S. Vujcic, D. L. Kramer, C. W. Porter (Roswell Park Cancer Institute, USA)

The use of small interfering RNA to dissect apoptotic events deriving from perturbations in polyamine catabolism1.

19. K. Nishimura, K. Murozumi, A. Shirahata, M. H. park, K. Kashiwagi, K. Igarashi (Chiba Univeristy, Japan/National Institute of Health, USA)

Independent role of eIF5A and polyamines in cell proliferation.

20. A. Childs, C. Decker, R. Parker, M. H. Park, E. W. Gerner (University of Arizona/National Institute of Health, USA)

Polyamine-dependent RNA processing.

21. T. Uemura, H. Tomitori, K. Tachihara, K. Kashiwagi, K. Igarashi (Chiba University, Japan)

Cellular localization of TPO proteins and regulation of TPO activity by phosphorylation.

22. S. M. Wilson (University of Ave, USA)

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23. I. Holm (Mna Kristianstad, Sweden)

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[Poster Session II]

24. T. D. Ward, P. M. Woster, C. J. Bacchi, C. Lopez (Wayne State University, USA)

Polyamine analogues with antitrypanosomal and antimicrosporidial activity selectively inhibit trypanothione reductase.

25. P. V. Kong, T. Lin (University of Aberdeen, UK)

The role of polyamine derived drugs in the inhibition of parasite.

26. I. D. Algranati (Argentina)

Expression of oat Adc gene in *T. Cruzi Epimastigotes*.

27. M. P. Hasne (USA)

Functional characterization of LmPOT1 a polyamine transporter gene in *Leishmania major*.

28. R. A. Hillary, L. M. Shantz, A. E. Pegg (University Drive/Hershey Medical Center, USA)

Cardiac lethality of combined overexpression of ornithine decarboxylase and the alpha-1B adrenergic receptor.

29. M. T. Hyvonen, L. Alhonen, R. Sinervirta, M. Pietila, J. Janne (University of Kuopio)

Acute pancreatitis is not associated with oxidative stress in transgenic rats overexpressing spermidine/spermine N1-acetyltransferase.

30. R. M. Adibhatla (USA)

Polyamine response to CNS injury: For better or for worse?

31. T. D. Ward, P. M. Woster, R. A. Casero, A. Hacker, R. Smith, E. Hager (Wayne State University, USA)

Cell death by anoikis: the story of 39-TDW-47C.

32. M. Holst, S. M. Oredsson (Lund University, Sweden)  
Release of cytochrome *c* from mitochondria in human breast cancer cell lines treated with the spermine analogue *N1,N11*-diethylnorspermine.
33. H. M. Zhang, J. N. Rao, X. Guo, L. Liu, T. Zou, J.-Y. Wang (University of Maryland School of Medicine/Baltimore VA Medical Center, USA)  
Polyamine depletion induces resistance to apoptosis through activation of PI-3K/Akt signalling pathway in intestinal epithelial cells.
34. D. J. Feith, D. K. Bol, L. M. Shantz (Pennsylvania State University College of Medicine, USA)  
Induction of ornithine decarboxylase activity is a necessary step for Mek-induced skin carcinogenesis.
35. R. F. Coburn, C. B. Baron (University of Pennsylvania School of Medicine, USA)  
Polyamines and phosphoinositide metabolism in H160 cells.
- 36 A. S. Bachmann (Cancer Research Center of Hawaii, USA)  
The anti-proliferative effect of ODC and SAMDC inhibitors on the growth of N-Myc amplified or non-N-Myc amplified neuroblastoma cells.
37. A. Hughes, H. M. Wallace (University of Aberdeen, UK)  
NSAID and selective COX-2 inhibitor induced cytotoxicity and changes in polyamine metabolism that are independent of COX expression.
38. N. A. Ignatenko, N. babbar, K. Blohm-Mangone, J. Padilla-Torres, R. A. Casero, E. W. Gerner (University of Arizona, USA)  
Inhibition of intestinal carcinogenesis in mice by sulindac involved induction of polyamine catabolism.
39. K. Kee, S. Vujcic, D. K. kramer, B. A. Foster, C. W. Porter (Roswell Park Cancer Institute, UK)  
Activation of polyamine catabolism as a novel strategy for treating and/or preventing prostate cancer.

40. D. E. McClosky (University of Hershey, USA)  
Polyamine analogue resistance in prostate cancer cell lines.

41. H. F. Yerushalmi, K. Blohm-Mangone, P. Yamauchi, J. Padilla-Torres, H. Zhang, N. Ignatenko, H. Holubec, C. M. Payne, E. W. Gerner (University of Arizona, USA)  
Gene-diet interactions in arginine-dependent intestinal carcinogenesis and apoptosis.

42. A. V. Fraser, K. Thompson, P. M. Woster, H. M. Wallace (University of Aberdeen, UK/Wayne State University, USA)  
Prevention of polyamine analogue toxicity in human leukaemic cells.

43. D. Datta (India)  
Controlled therapeutic angiogenesis induced by the polyamine(s), mostly bi-amine(s).

44. J.-G. Delcros, O. Phanstiel (CNRS, France/University of Central Florida, USA)  
Polyamine passports: synthesis and biological evaluation of anthracene-polyamine conjugates.

45. R. A. Gardner, C. Wang, J.-G. Delcros, L. Cannon, F. Konat, H. Carias, J. Biggerstaff, O. Phanstiel (CNRS, France/University of Central Florida, USA)  
Development of new polyamine transfection agents.

46. R. S. Weeks (USA)  
Synthesis and development of polyamine-like small molecules for treatment of autoimmune and inflammatory diseases.