

Report

for Polyamigos and colleagues of the What site on transglutaminases

of the

Gordon Research Conferences

Polyamines 2009

Gordon Research Conferences

Polyamines

Polyamine Genetics, Metabolism, Cellular Homeostasis
And Drug Discovery

June 21-26, 2009

Waterville Valley Resort

Waterville Valley, NH, U.S.A.

Chairs:

Patrick M. Woster & Senya Matsufuji

Vice Chairs:

Lisa M. Shantz & Enzo Agostinelli

Since 1975, the Polyamine GRC has been a multidisciplinary conference focused on the polyamine metabolic pathway, the role of polyamines in cellular homeostasis and the development of small molecules that modulate polyamine metabolism as potential therapeutic agents.

The field brings together researchers interested in the physiological role of polyamines in a wide array of organisms, and researchers interested in therapeutic applications such as cancer and parasitic or bacterial infection.

The Polyamine GRC has been held in conjunction with the second Gordon-Kenan Graduate Research Seminar (GKGRS) on Polyamines for student and postdoctoral scientists.

At the 2009 Conference attended 124 scientists:

The speakers were 24 and the poster presented 67.

**15 of the speakers were from U.S.A., 4 from Europe, 2 from Japan, 1 from Israel
1 from India, 1 from South-Africa**

P.M. Woster welcomed the participants.

**During the sessions, A. Michael commemorated the polyamigos who passed
away last year:**

**Prof. Hayashi, Juanne Jänne and Nello Bagni, who frequently participated at the
Gordon Res. Conferences**

**Olle Heby, who participated to all the previous conferences, made the conclusive
keynotes and presented the history of the Polyamine GRC with many official and non-
official pictures**

TOPICS & SPEAKERS (*discussion leaders in italic*)

- * The Genetics and Epigenetics of Polyamine Metabolism
(*Robert A. Casero, Jr.* / Yi Huang / Olivier Namy / Chaim Kahana)
- * Polyamines in Cellular Homeostasis and Physiology
(*Leena Alhonen* / Myung Hee Park / Keiko Kashiwagi / Jian-Ying Wang /Lise Shantz)
- * Polyamine Biosynthesis: Enzyme Structure, Function and Control
(*Kazuei Igarashi* / Steven Ealick / David Hoffman)
- * Polyamine Catabolism and Transport
(*Heather Wallace* / Susan Gilmour / Kaymar Zahedi / Keith T.Wilson/Takeshi Uemura)
- * Polyamine Function in Plants and Lower Eukaryotes
(*Anthony Michael* / Autar Mattoo / Kiyotaka Hitomi)
- * Polyamine Drug Discovery and Development
(*Eugene Gerner*/ Otto Phanstiel /Nicholas P. Farrell/ Ian Blagbrough / Heinz Gehring)
- * Clinical Application of Drugs Targeting Polyamine Metabolism
(*Laurence Marton* / Andre Bachmann / John Cleveland)
- * Polyamine Metabolism as a Target for Antiparasitic Chemotherapy
(*Sigrid Roberts* / Lynn Soong/ Annette Kaiser / Lyn-Marie Birkholz/ Rentala Madhubala)
- * Keynote Session: Perspectives on Past, Present & Future Polyamine Research
(*Anthony Pegg* / Olle Heby / Carl Porter)

- Short presentation of posters were done by: M.Burns, K.Elliott, M. Geddie, S. Kojima, H.Suzuki, H Tomitori

For the WHAT friends

Researches on transglutaminase were presented by:

- Kiyotaka Hitomi

- Soichi Kojima

- Donatella Serafini Fracassini

Waterville Valley



Waterville Valley City centre



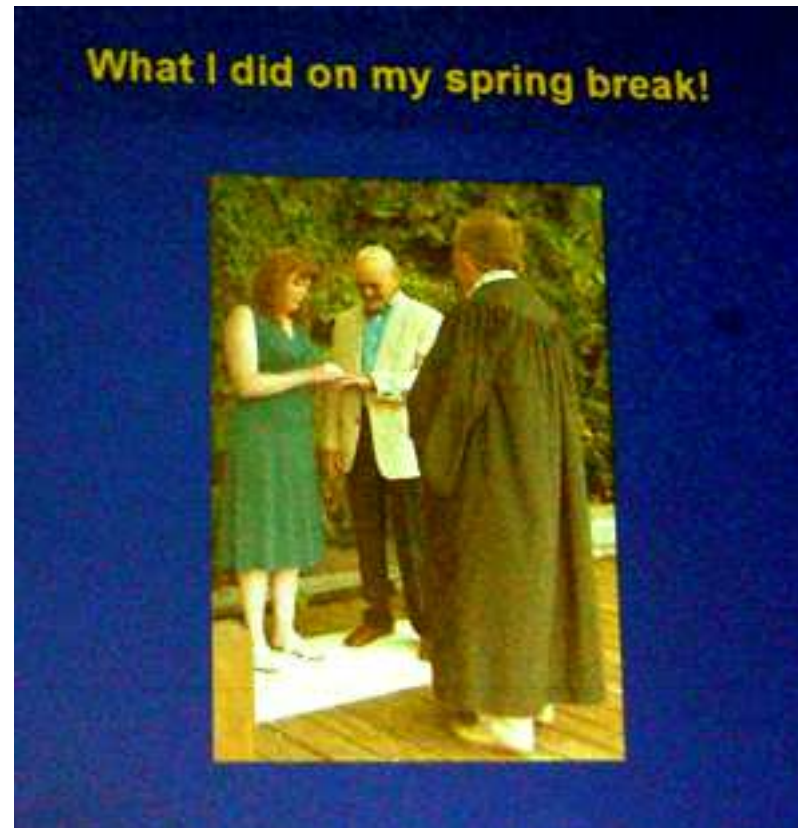
Aspects of the Conference



Patrick Woster
introduces the
Conference



Bob Casero, after a fruitful pray in front of the computer, got married and informed of the event the polyamigos



Scientists



One of the next chairmans: Enzo Agostinelli (co-chair with Lisa Shantz) and of the next co-vice-chairmans Chaim Kahana (with John Cleveland)



Present Chair:
S. Matsufuji with
M.Y. Park and
S. Minocha



Dr A. Mattoo looking at the memorial of Prof. Nello Bagni

The post-doc Valentina Battaglia (Padua University), who will be in charge together with Christina Shields (Johns Hopkins University) of the organization of the next Gordon Research Seminars (in USA) for young researchers. In the picture also the winner of the award for the best poster, PhD O. Perez-Leal (Temple Univ.), looking at the new book on biogenic amines (editor A.Toninello). —————→ next page



Biologically Active Amines and
Related Enzymes: Biochemical,
Physiological and Clinical
Aspects

Editor
Antonio Toninello



TRANSWORLD RESEARCH NETWORK

Contents

1. The role of agmatine on mitochondrial functions

*Antonio Toninello, Valentina Battaglia
and Silvia Grancara*

2. Regulation of serotonin transport in human platelets
by protein kinase activities

*Renzo Deana, Alessandro Zarpellon, Martina Pavanetto,
Caterina Peggion, and Arianna Donella-Deana*

3. Dopamine metabolism in the brain focus on
parkinson's disease

Angela De Iullis, Paola Arslan and Fabio Vianello

4. Experimental studies on the involvement of
polyamines in cardiac remodeling

*Flavio Flamigni, Carla Pignatti, Claudio Muscari,
Emanuele Giordano, Benedetta Tantini, Claudio
Stefanelli, Carlo Guarnieri and Claudio Marcello
Caldarera*

5. Polyamines in brain: Metabolism, transport and
function

Maria Angelica Grillo and Sebastiano Colombatto

6. Storage effects on free polyamines of some species of
mediterranean fish.

Pietro Ruggeri and Venera Faraone

7. Ethanol and polyamines in brain

Thomas M. Weiger and Anton Hermann

8. Uncommon polyamines: occurrence, biosynthesis
and role in stress responses"

Marek Petřiválský and Pavel Peč

9. Evaluation of the measurements of mao activity as
source of H₂O₂ and ros in intact biological systems and
cells

Silvia Bortolami and Lucia Cavallini

10. Some possible pharmacological applications of
copper amine oxidase

*Paola Pietrangeli, Lucia Marcocci, Emanuela Masini,
Rodolfo Federico and Bruno Mondovì.*

11. Aminoaldehydes: reactive products of polyamine
degradation

Marek Šebela and Martin Duchoslav

12. Transglutaminase, protein misfolding and
neurodegenerative diseases

*Daniela Caccamo, Monica Curro', Salvatore Condello,
Nadia Ferlazzo and Riccardo Ientile*

13. Tissue transglutaminase expression in human
astroglial tumours

*Vincenzo Maccaione, M'hamed Aguenouz, Maria
Grazia De Pasquale and Agata Campisi*

14. Role of tissue transglutaminase in neuronal
plasticity during kindling

*Agata Campisi, Marina Maritati, Floriana Laureanti
and Maria Francesca Serapide*

15. Interpreting the action of polyamines: The role
of transglutaminase

*Della Mea M., Serafini-Fracassini D., Iorio R.
and Del Duca S.*

16. From bioassays to molecular biology: The 46
years of a plant polyamine scientist, in memory of
Nello Bagni by his former students and coworkers

*D. Serafini-Fracassini, A. Tassoni, M. Franceschetti
S. Biondi, F. Antognoni, R. Pistocchi, A. Speranza
M. M. Altamura, M. Mengoli, S. Fornalè G.L.
Calzoni, S. Scaramagli, V. Scoccianti, G. Falasca
R. Biasi, P. Mandrioli, G. Puppi, D. D'orazi
J. Creus Allué, M. Della Mea, R. Baraldi
and P. Torrigiani.*

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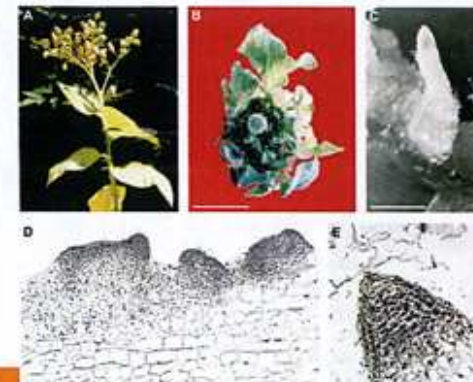
Biologically Active Amines and Related Enzymes: Biochemical, Physiological and Clinical Aspects

Editor

Antonio Toninello

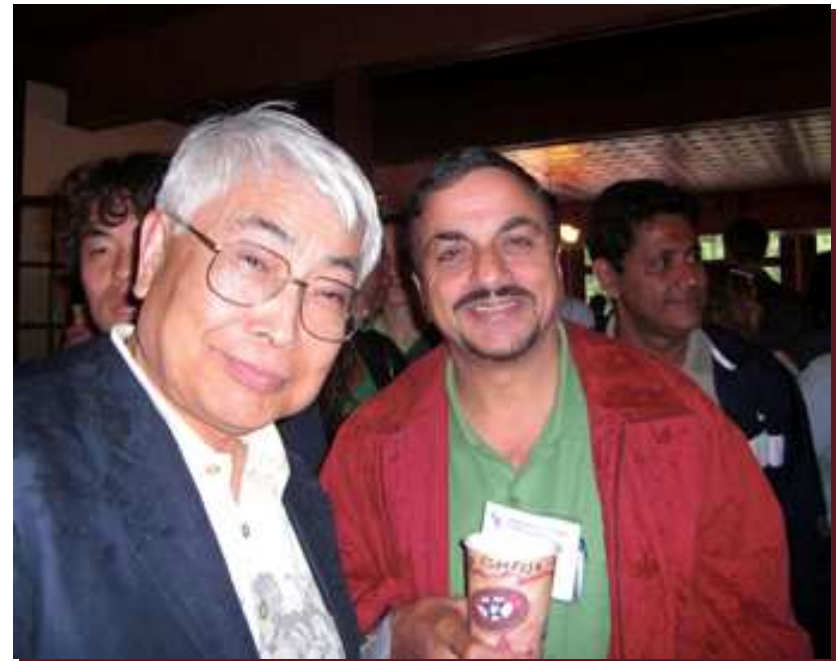
ISBN: 978-81-7895-433-2

Year of Publication: 2009





Coffee-break





Lunch time



Lunch time





The classical picture of the participants...but a minute later it started to rain and everybody spread around

Announcements
and
information

Prof. Igarashi and Agostinelli gave the following information:

QuickTime™ e un
decompressore TIFF (LZW)
sono necessari per visualizzare quest'immagine.

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The **2010 International Polyamine Conference**

will be held on June 14-18th, 2010

Venue: Gotemba Kogen Resort

Secretary: Senya Matsufuji

polyamine@jikei.ac.jp



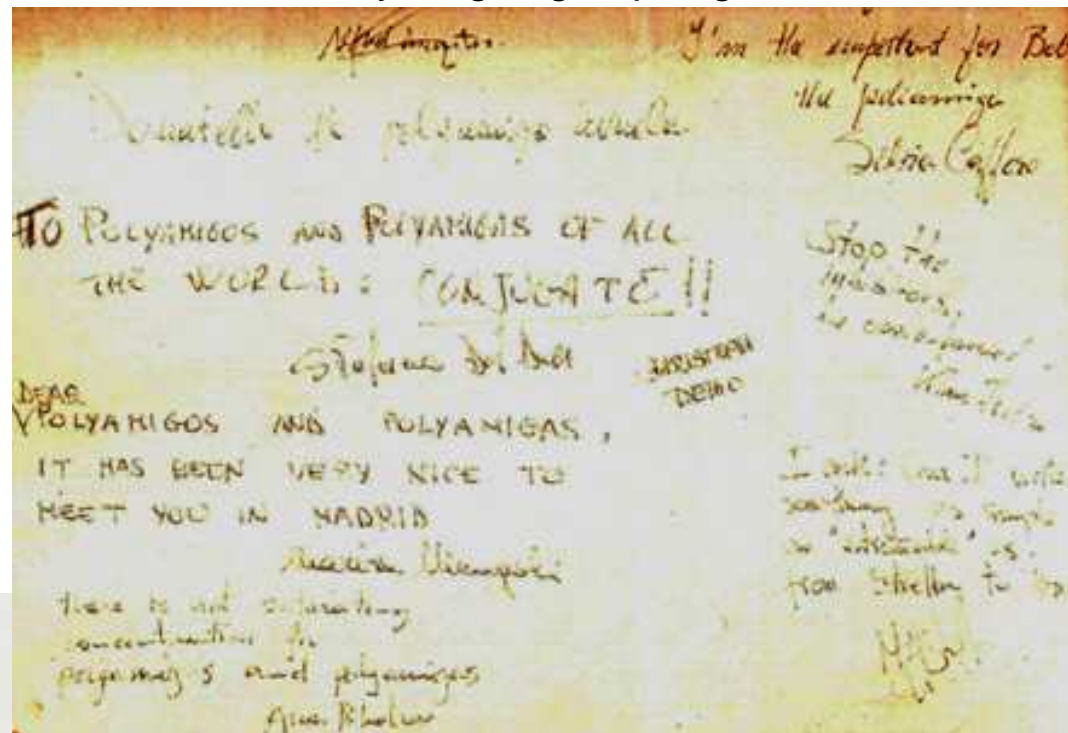
A special issue of **Plant Physiology and Biochemistry** on Plant Polyamines, dedicated to Nello Bagni, with 20 papers will be published in 2010.

Dear Polyamigos

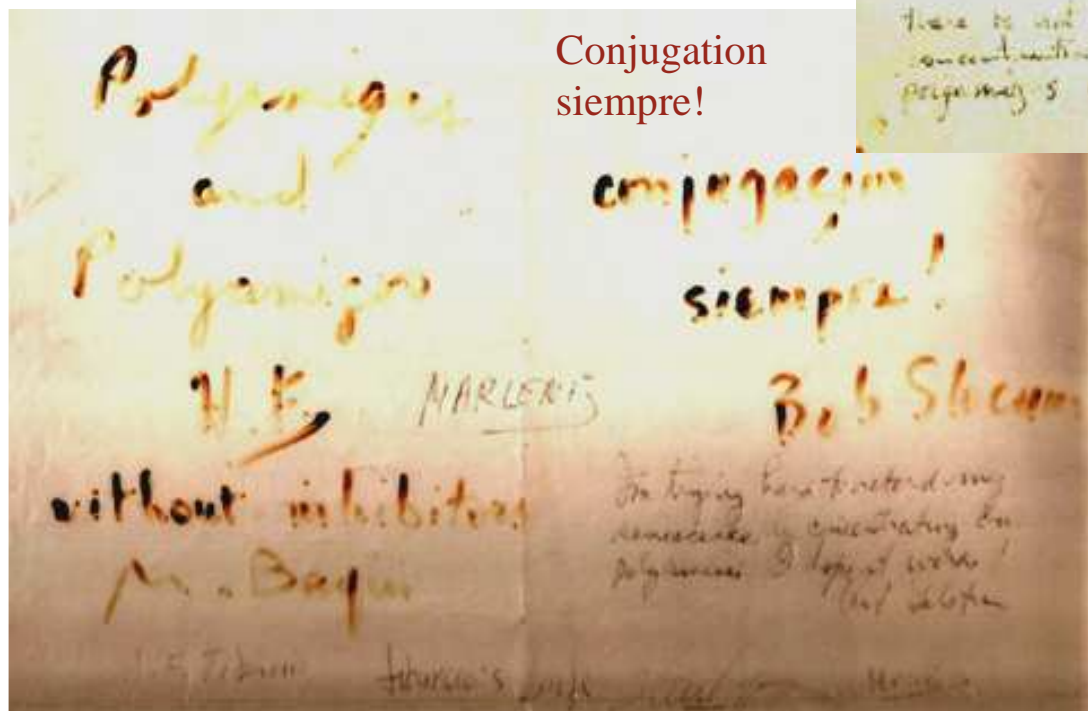
This is the original napkin documenting the institution of the Polyamigos group, signed in a Madrid restaurant in occasion of the course on polyamines held at the Juan March Foundation and organized by AW Galston, H Flores and R Slocum in 1991.

Polyamigos
and
Polyamigas

Without inhibitors



Conjugation
siempre!



Signatures of H Flores, Nello Bagni, Bob Slocum, A Tiburcio, S. Caffaro, S. Del Duca, M. Mengoli, D. Serafini-Fracassini, Marlene ?, Dehio, and others

The next GRC will be held in Waterville Valley in 2011



See you again Polyamigos!