



**UNIVERSITÀ DEGLI STUDI DI MILANO
DIPARTIMENTO DI SCIENZE BIOMOLECOLARI E
BIOTECNOLOGIE
FEMS
SIMGBM**

WORKSHOP

***Pseudomonas* in the Test Tube and in the Environment**

A celebration of Enrica Galli's legacy at the time of her retirement

PROGRAMME

Milan, January 28-29, 2010

Università degli Studi di Milano, Sala Napoleonica, Via S. Antonio 12

Thursday 28

14:00-14:45 Registration.

SESSION 1 Chair: **Martino Bolognesi**, *Milan, Italy*

14:45-15:15 **Enrico Decleva**, *Rector of the University of Milan*
Welcome address.

15:15-16:00 Keynote Lecture:
Paul Williams, *Nottingham, UK*
Quorum sensing and *Pseudomonas aeruginosa*: a tale of regulatory networks and multi-functional signal molecules

16:00-16:30 **Dieter Haas**, *Lausanne, Switzerland*
Food for *Pseudomonas* - food for thought

16:30-17:00 Break

17:00-17:30 **Jan Roelof van der Meer**, *Lausanne, Switzerland*
Eating junk: the strange and versatile ways of evolution in *Pseudomonas*

17:30-17:50 **Marta Putrinš**, *Tartu, Estonia*
Glucose-dependent autolysis of *Pseudomonas putida*¹

17:50-18:20 **Juan L. Ramos**, *Granada, Spain*
Transcriptional and post-genomic analysis of a *Pseudomonas putida* solvent-tolerant strain

21:00 Social dinner (Reservation required)

Friday 29

SESSION 2 Chair: Paola Barbieri, Varese, Italy

- 09:15-10:00 Keynote Lecture:
Victor de Lorenzo, Madrid, Spain
Refactoring the architecture of the regulatory circuit of the TOL plasmid of *Pseudomonas putida* for an increased response to environmental chemicals
- 10:00-10:30 **Hermann J. Heipieper, Leipzig, Germany**
Adaptive mechanisms of *Pseudomonas* strains to cope with toxic organic compounds and other forms of stress
- 10:30-10:50 **Anu Hynninen, Helsinki, Finland**
Zn/Cd/Pb resistance mechanisms of *Pseudomonas putida* KT2440¹
- 10:50-11:10 **Guennaëlle Dieppois, Geneva, Switzerland**
CzcR : a global regulator linking metal and antibiotics resistance in *Pseudomonas aeruginosa*¹
- 11:10-11:40 Break
- 11:40-12:10 **Fergal O'Gara, Cork, Ireland**
Pseudomonas species: paradigm organisms for the study of microbe–host interactions
- 12:10-12:30 **Miguel Ángel Matilla, Granada, Spain**
Genetic characterization of the unique *Pseudomonas putida* GGDEF/EAL response regulator, a trait induced in the rhizosphere¹
- 12:30-12:50 **Anne-Sophie Blier, Evreux, France**
C-type natriuretic peptide (CNP) modulates *Pseudomonas aeruginosa* PAO1 LPS structure and enhances bacterial adhesion through a eukaryotic-like natriuretic-receptor binding site¹
- 12:50-14:30 Lunch Break
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SESSION 3 Chair: **Gianni Dehò**, *Milan, Italy*

- 14:30-15:00 **Victoria Shingler**, *Umeå, Sweden*
Pseudomonas putida as a model for understanding integration of transcriptional adjustments to metabolic stress
- 15:00-15:20 **Teresa del Peso Santos**, *Umeå, Sweden*
Multiple distinct mechanisms control transcription from the unusual σ^{70} -Pr promoter for the aromatic-sensor DmpR ¹
- 15:20-15:50 **Giovanni Bertoni**, *Milan, Italy*
Bends, swivels and hindrances in the transcriptional wiring of the TOL plasmid regulatory network to its host *Pseudomonas putida*
- 15:50-16:20 **Pierre Cornelis**, *Brussels, Belgium*
Iron homeostasis in pseudomonads
- 16:20-16:40 Break
- 16:40-17:00 **Carolina Alvarez-Ortega**, *Madrid, Spain*
Effect of MexEF-OprN overexpression on *Pseudomonas* quinolone signal production ¹
- 17:00-17:30 **Alessandra Polissi**, *Milan, Italy*
Understanding lipopolysaccharide biogenesis in Gram-negative bacteria, a target for novel antibacterial drug design
- 17:30-18:15 **Ananda Chakrabarty**, *Chicago, Illinois (USA)*
Promiscuous drugs from *Pseudomonas aeruginosa*: rationally versus intelligently designed drugs
- 18:15-18:30 Concluding remarks - end of the meeting
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¹ Young Scientist's selected presentations