

EXPLORATORY WORKSHOP 2008

EXTREMOPHILIC MICROORGANISMS: MOLECULAR ADAPTATIONS AND BIONANOTECHNOLOGICAL APPLICATIONS

September 18-19, 2008

Institute of Biology Bucharest, ROMANIA
www.ibiol.ro

Wednesday, September 17

17.00-20.00 *Welcome reception*
Institute of Biology Bucharest

Thursday, September 18

8.30-9.00 Registration

9.00-13.15 **SESSION 1 : Extremophilic microorganisms and their environments**

Welcome introduction

- **Prof. Daniel PRIEUR**, Université de Bretagne Occidentale, IUEM, Plouzané, France
Prokaryotic life under pressure: where, who and how?
- **Prof Emeritus Guy HERVÉ**, CNRS, Université Pierre et Marie Curie, Paris, France
Extremophily in the deep-sea vents environments

Coffee break

- **Dr. Masahiro KAMEKURA**, Halophiles Reserach Institute, Noda, Japan
Enigmatic extreme halophiles and an enzyme nucleoside diphosphate kinase
- **Dr. Madalin ENACHE**, Institute of Biology, Bucharest, Romania
Halophilic archaea from man-made salt lakes in Slanic-Romania
- **Dr. Takashi ITOH**, RIKEN, BioResource Center, Wako, Japan
RIKEN BRC-JCM: a culture collection that supports research on the extremophilic microorganisms
- **Maria-Cristina CIOBANU**, PhD student, Université de Bretagne Occidentale, France
Microbial diversity in Kerguelen and Saint-Paul hot springs

13-15-14.15 *Lunch*

14.15-17.30 **SESSION 1 : Extremophilic microorganisms and their environments (continuation)**

- **Prof. Anicet R. BLANCH**, University of Barcelona, Barcelona, Spain
Achievements and perspectives in Microbial Source Tracking
- **Dr. Teodor G. NEGOITA**, Institute of Polar Research, Bucharest, Romania
- **Dr. Florica TOPARCEANU**, Virology Institute “Stefan Nicolau”, Bucharest, Romania
- **Dr. Alexandra HILLEBRAND**, Institute of Speleology "Emil Racovita", Bucharest, Romania

Coffee break

- **Prof. Ioan I. ARDELEAN**, Institute of Biology, Bucharest, Romania
Salt–adaptation in cyanobacteria increases respiration in the presence and absence of light
- **Prof. Ioana GOMOIU**, Institute of Biology, Bucharest, Romania
- **Prof. Horia BANCIU**, University Babes-Bolyai, Cluj-Napoca, Romania
Living with Two Extremes: The Haloalkaliphilic Sulfur Oxidizing Bacteria
- **Dr. Doina CODREANU**, Institute of Biology, Bucharest, Romania

19.00 Dinner - Restaurant „Carul cu Bere”

Friday, September 19

9.00-13.00 **SESSION 2: Enzymes and molecules from extremophiles**

- **Prof. David R. EVANS**, Wayne State University School of Medicine, Detroit, USA
- **Prof. Hedeel GUY EVANS**, Eastern Michigan University, Ypsilanti, USA
- **Dr. Cristina PURCAREA**, Institute of Biology, Bucharest, Romania
- **Elena POPA**, PhD student, Institute of Biology, Bucharest, Romania

Coffee Break

- **Prof. Gaël ERAUSO**, Université de la Méditerranée, Marseille, France
Diversity of plasmids from hyperthermophilic archaea

- **Prof. Octavian POPESCU**, University Babes-Bolyai, Cluj-Napoca, Romania

- **Dr. Medana ZAMFIR**, Institute of Biology, Bucharest, Romania
Lactic acid bacteria - biodiversity and functional properties

13.00-14.00 *Lunch*

14.00-17.00 **SESSION 3: Nanotechnological applications of extremophiles**

- **Prof. Christopher RENSING**, University of Arizona, Tucson, USA
- **Dr. Carmen M. CISMASIU**, Institute of Biology, Bucharest, Romania
Acidophilic microbiota from Romanian mines involved in bioremediation of heavy metal contamination
- **Dr. Mihaela LAZAROAIE**, Institute of Biology, Bucharest, Romania
Microorganisms adaptation to high concentrations of hydrocarbons

Coffee Break

- **Dr. Gabriela POPESCU**, Institute of Biology, Bucharest, Romania
- **Roxana COJOC**, PhD student, Institute of Biology, Bucharest, Romania
- **Cristina MOISESCU**, PhD student, Institute of Biology, Bucharest, Romania
Magnetosomes from Magnetospirillum griphyswaldens: synthesis, characterization and their potential as magnetic nano- carriers and bio-actuators

Closing remarks

CONTACT

Cristina PURCAREA

Senior Scientist

Institute of Biology Bucharest

Department of Microbiology

296 Splaiul Independentei

060031 Bucharest, ROMANIA

tel. +40 21 223 9072, fax. 40 21 221 9071

cristina.purcarea@ibiol.ro, cri48223@yahoo.com