

International Symposium Announcement



Glutathione and related thiols in microorganisms and plants

Faculté de Pharmacie de Nancy
 26-29 August 2008

<http://www.thiolmicrob.uhp-nancy.fr>

Meeting's Aim and Scope

A symposium concerning the multiple facets of **Glutathione and related thiols in microorganisms and plants** will be held in Nancy (France) from 26-29 August 2008. A very successful symposium covering also mammalian, plant cells and clinical aspects was held 13 years ago in Luxembourg. In the meantime, mainly in the last ten years, research effort on microbial thiols, in particular (but not only) glutathione, increased strongly. This was because thiols were identified as important components of cell defence against oxidative, metals, xenobiotics, nutritional, osmotic, acid, etc... stresses, but also considering that these derivatives are now recognized as involved in signal transduction mechanisms. Thiols were also identified as playing major roles in cell cycle, from differentiation to apoptosis, and cell organisation as exemplified by aggregation, biofilm formation and also in interaction between microorganisms and plants.

Microorganisms, in particular yeast, are also considered as useful eukaryotic cell models, for example in studies on the oxidative stress and signal transduction mechanisms. Moreover, glutathione is of interest for applications in food, pharmaceutical, cosmetic industry and environmental technology, especially waste water treatment. Different investigation fields will be thus covered in the planned symposium. Publication in a special issue of a FEMS journal, of selected papers

presented at the symposium, will be solicited. We think that so it will be a nice opportunity to create a platform for exchanging ideas, and assembling investigators coming from different horizons.

Full informations concerning the symposium and registration, abstract submission are available on the web site: <http://www.thiolmicrob.uhp-nancy.fr>.

Organizing and scientific committee

Grzegorz BARTOSZ (Poland)
Jean-Claude BLOCK (France)
Joël COULON (France)
Chantal FINANCE (France)
Jean-Pierre JACQUOT (France)
Pierre LEROY (France)
Michel PENNINCKX (Belgium)
Michel TOLEDANO (France)
Martin ZIMMERMANN (Germany)

The three day-scientific programme will feature 29 plenary lectures (*see below current situation*), 15 oral communications and 2 poster sessions covering all the main items cited above.

Scientific programme

Lecturers:	Titles:
Bachhawat (India)	The alternative pathway of glutathione degradation in the yeast <i>Saccharomyces cerevisiae</i> is mediated by a novel enzymatic complex
Bartosz (Poland)	Antioxidants in the protection of <i>Saccharomyces cerevisiae</i> against oxidative stress
Becker (Germany)	Redox metabolism in malarial parasites and its potential as drug target
Conrad (Germany)*	Transgenic mouse models: unique tools to study the role of mammalian glutathione metabolism
Dawes (Australia)	Glutathione homeostasis in yeast and the response of cells to reactive oxygen species
Fairlamb (UK)	Biosynthesis and functions of trypanothione- a key drug target in trypanosomatids
Foyer (UK)*	Compartmentation of glutathione in relation to the cell cycle and light signalling
Frendo (France)*	Glutathione regulates the symbiosis between <i>Medicago truncatula</i> and <i>Sinorhizobium meliloti</i>
Ghezzi (Italy)*	Thiol regulation in innate immunity and inflammation
Grant (UK)	Regulation of redox homeostasis in yeast
Hell (Germany)*	Glutathione reduction and compartmentation in <i>Arabidopsis thaliana</i>
Herrero (Spain)*	The structural and functional complexity of monothiol glutaredoxins

Holmgren (Sweden)*	Life with and without selenium and glutathione
Labarre (France)*	Importance of glutathione in cadmium detoxification in yeast
Li (China)	Glutathione protects <i>Lactococcus lactis</i> against multiple stresses
Love (USA)	Glutathione as an <i>in vivo</i> indicator of chemical stress in complex biological systems
Mullineaux (UK)*	Glutathione-mediated control of antagonistic interactions between abiotic and biotic stress signalling in <i>Arabidopsis</i>
Newton (USA)	Mycothiol biosynthesis and function
Noctor (France)*	Glutathione in the response to oxidative stress in plants
Pawlik-Skworonska (Poland)	Phytochelatin in algae and lichens
Pocsi (Hungary)	Glutathione metabolism of filamentous fungi with industrial significance
Polle (Germany)	Antioxidant systems in symbiotic fungi
Raspor (Slovenia)	<i>to be defined</i>
Reichheld (France)*	Interplay between thioredoxin and glutathione pathways
Rouhier (France)	Antioxidant systems linked to peroxiredoxins in the thermophilic bacteria <i>Thermotoga maritima</i>
Sibirny (Ukraine)	Genetic control of glutathione metabolism in the methylotrophic yeast <i>Hansenula polymorpha</i>
Toledano (France)	<i>to be defined</i> ; key words: yeast, oxidative stress, glutathione, thioredoxins

Winther (Denmark)	Glutathione metabolism <i>Saccharomyces cerevisiae</i> a sensing glutathione redox state using GFP-based sensors
Zimmermann (Germany)	Glutathione metabolism in fission yeast <i>Schizosaccharomyces pombe</i>

Registration fees

400 € (student*: 250 €)

***special grants from FEMS**

It includes:

- Access to all scientific sessions
- Symposium pack including a detailed Program + Abstract Book and an Abstract C
- Lunches (3)
- Coffee Breaks (5)
- Welcome reception and buffet-banquet (1)

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