**Program of the second transnational Redox meeting**

Faculté des sciences, Vandoeuvre-lès-Nancy, Université de Lorraine

**Day 1, May 18th**

9:00 - 9:45 Coffee – Welcome

9:30 - 9:45 Introduction

**Session 1. GSH-related mechanisms and enzymes**

10:00 - 10:30 Plenary lecture by A. Meyer (Univ. Bonn)

 To be determined

10:30 - 10:50 A. Hecker (Univ. Lorraine)

Structure-function analysis of poplar dehydroascorbate reductases, key enzymes involved in the recycling of ascorbate in plants

10:50 - 11:10 C. Riondet (Univ. Perpignan)

 GRXS17, an iron-sulfur glutaredoxin is acting in meristem development and heat stress tolerance

11:10 - 11:30 T. Roret (Univ. Lorraine)

 Diverse structural forms involving BolA proteins

11:30 - 12:00 Plenary lecture by C. Gatz (Univ. Göttingen)

 CC-type glutaredoxins interact with TIFY proteins to regulate transcription

12:00 - 13:30 Lunch

13:30 - 16:00 Poster session

16:00 - 16:30 Coffee break

**Session 1. GSH-related mechanisms and enzymes**

16:30 - 17:00 Plenary lecture by C. Didierjean (Univ. Lorraine)

 Structure function relationship studies of the fungal GSTome

17:00 - 17:20 K. Diederich (Univ. Heidelberg)

 Stress-induced protein S-glutathionylation in trypanosomes

17:20 - 17:40 H. Pégeot (Univ. Lorraine)

 The poplar Phi class glutathione transferase in depth: expression, activity and structure

**Session 2. Trx-dependent reactions**

17:40 - 18:00 D. Gütle (Univ. Freiburg/Lorraine)

 Redox regulation in the Calvin cycle: the phosphatases of *Physcomitrella patens*

18:00 - 18:30 Plenary lecture by P. Frendo (Univ. Nice Sophia-Antipolis)

 Thioredoxins s regulate the nitrogen-fixing symbiosis in *Medicago truncatula*

19:30 Diner together

**Day 2, May 19th**

**Session 3. NO and peroxide signaling and detoxification**

8:30 - 9:00 Plenary lecture, S. Rahuel-Clermont (Univ. Lorraine)

Molecular basis of H2O2 signaling by thiol peroxidases: mechanisms responsible for the specificity of the Orp1/Yap1 redox relay in *S. cerevisiae*

9:00 - 9:20 D. Cerveau (CEA Cadarache, Univ. Aix-Marseille)

 Physiological relevance of plant 2-Cys peroxiredoxin overoxidation level and oligomerization status

9:20 - 9:40 B. Morgan (Univ. Kaiserslautern)

 Applying novel genetically-encoded sensors to understand cellular H2O2 homeostasis

9:40 - 10:00 C. Gaucher (Univ. Lorraine)

 S-nitrosation of the Angiotensin 1 Receptor: Implication in blood vessels tone regulation

10:00 - 10:40 Coffee break

**Session 4. Redox metabolism in mitochondria**

10:40 - 11:10 Plenary lecture J. Riemer (Univ. Köln)

 Redox aspects in mitochondrial calcium signaling

11:10 - 11:30 S. Boschi-Müller (Univ. Lorraine)

Insights into the catalytic mechanism of 3-mercaptopyruvate sulfurtransferase: a mitochondrial enzyme involved in H2S production

11:30 - 11:50 V. Peleh (Univ. Kaiserslautern)

 Molecular dissection of the mitochondrial Mia40 oxidoreductase

**12:00 Concluding remarks, end of the meeting**

**Snacks and drinks before departure**

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