



**International Courses on Toxicology 2009
Center for Neurosciences and Cell Biology
University of Coimbra, Portugal
May 5-8, 2009**

**“Mitochondria: Between Life and Death”
Organized by the Cell and Molecular Toxicology Research Area**

Place

Auditório da Reitoria, University of Coimbra, Portugal

Invited Speakers

Vladimir Skulachev (University of Moscow, Russia)
Robert Lightowlers (Newcastle, UK)
Enrique Cadenas (University of South California, USA)
Fabio Di Lisa (University of Padova, Italy)
David Nicholls (Buck Institute, USA)
Dean Jones (Emory University, USA)
Mauro Esposti (University of Manchester, UK)
Michael Duchen (University College of London, UK)
Vitor M. C. Madeira (University of Coimbra, Portugal)
Paula Ludovico (University of Braga, Portugal)

Day I – Tuesday, May 5

10:00-11:00 – Opening lecture: Vladimir Skulachev “***Mitochondria-targeted plastoquinone derivative interrupts execution of a senescence program***”
11:00-12:00 – Dave Nicholls “***Monitoring mitochondrial bioenergetics in intact cells***”
12:00-12:15 - Coffee break – poster session
12:15-13:15 – Michael Duchen “***Look - no dyes: what can we learn from measurements of autofluorescence?***”
14:30 – 15:30 – Mauro Esposti “***Are mitochondria active killers or victims of the death program?***”
15:30-17:00 – Selected oral presentations (CO1-CO7). Moderator: Vladimir Skulachev

Day II – Wednesday, May 6

9:00-10:00 – Dean Jones “***Radical-free biology of oxidative stress: The redox hypothesis***”
10:00-11:00 – Enrique Cadenas “***Mitochondrial oxidative / nitrosative stress and the thiol/disulfide exchange system***”
11:00-11:15 - Coffee break – poster session
11:15-12:15 – Fabio Di Lisa “***Mitochondrial dysfunction and myocardial ischemia***”
12:15 – 13:15 – Paula Ludovico “***Mitoplayers in yeast cell death***”
15:00 – 16:00 – Robert Lightowlers “***Knowing when to stop - translation termination in the human mitochondrion***”
16:00-17:30 – Selected oral presentations (CO8-CO15) Moderator: Vladimir Skulachev

Day III – Thursday, May 7

9:00-10:00 – Enrique Cadenas “**Mitochondrial bioenergetics in neurodegeneration**”

10:00-11:00 – David Nicholls “**Energy crises in neurons - a life and death decision**”

11:00-11:15 - Coffee break – poster session

11:15-12:15 – Fabio Di Lisa “**Mitochondrial ROS formation and cardiac diseases**”

12:15 – 13:15 – Mauro Esposti “**Intermixing of mitochondria with other organelles during cell death**”

14:00 – 15:00 – Poster session

FREE TIME FOR CITY TOURS

Day IV – Friday, May 8

9:00-10:00 – Michael Duchen “**Mitochondria as ATP consumers: cell biology of the endogenous inhibitor protein, IF1**”

10:00-11:00 – Robert Lightowlers “**Why do we need to polyadenylate human mitochondrial messenger RNA**”

11:00-11:15 - Coffee break – poster session

11:15-12:15 – Closing Seminar: Vitor Madeira “**Legacy obstinacies in Biochemistry**”

15:00 – 16:00 – Poster session

16:00 – 17:00 –CNC Friday seminar: Dean Jones “**Mitochondrial thioredoxin and glutathione systems**”