

## Mercredi 1<sup>er</sup> Octobre

### Origine de la vie - Évolution

18h00 -18h45: «Minerals, the key to understand bioenergetics mechanisms at the origin of Life»

**Simon Duval** (*BIP, Marseille*)

18h45-19h10: « Demonstration of the role of both tetrathionate reductase Ttr and polysulphide reductase Psr in the respiration of tetrathionate by an environmental bacterium *Shewanella* sp. ANA-3 »

**Gwendoline Degré** (*BIP, Marseille*)

19h10-19h35: «Exploring the diversification of ubiquinone biosynthetic pathways: Experimental and computational characterization of UbiO»

**Emma Bouvet** (*TIMC, Grenoble*)

19h35-21h30: Apéritif d'accueil et repas

## Jeudi 2 Octobre

### Métabolisme énergétique et physiologie I

8h30-9h10: **Julien Prudent** (*MRC, Cambridge*)

9h10-9h35: « A constricted mitochondrial morphology optimizes respiration »

**Maria Angeles Morcillo-Parra** (*IBPC, Paris*)

9h35-10h : « VBIT-4, a widely used inhibitor of VDAC1 oligomerization, induces lipid membrane permeabilization independently of VDAC1 »

**Lucie Bergdoll** (*LISM, Marseille*)

10h-10h30 : Pause

### Métabolisme énergétique et physiologie II

10h30-10h55: « 'Metabolic contest', a new way of controlling the use of carbon sources»

**Frédéric Bringaud** (*MFP, Bordeaux*)

10h55-11h20: «Competition between the dehydrogenases for electron transfer in the respiratory chain of *Saccharomyces cerevisiae*. »

**Corinne Pellon** (*IBGC, Bordeaux*)

11h20-11h45: « The copper ionophore disulfiram improves mitochondrial function in various yeast and human cellular models of mitochondrial diseases »

**Anne-Louise Cayer** (*IBGC, Bordeaux*)

11h45-12h10 : «Relationships between protein O-GlcNAcylation, oxidative stress and inflammatory processes in the macrophage»

**Stéphanie Carvalho** (*Institut Cochin, Paris*)

12h10-14h: Repas

### Métabolisme énergétique et physiologie III

14h-14h25: « An unregulated Uncoupling Protein 1 (UCP1) mutant: New hypotheses on uncoupling mechanisms from in silico to in cellulo »

**François Gellé** (*IBPC, Paris*)

14h25-14h50: « Highlight of a distinct, yet reversible, quinone redox state in cancerous cells »

**Aude Brunel** (*IBGC, Bordeaux*)

14h50-15h15: « The Voltage-Dependent Anion Channel mediates Bax activation during apoptosis »

**Varun Ravishankar** (*LISM, Marseille*)

15h15-15h40: « The Mitonuclear communication in Integrated Stress Response »

**Damien Arnoult** (*UMR-S-MD 1197, Paris*)

15h40-16h10: Présentation Poster Flash + appel à candidature CA GFB

16h10-16h30: Pause

16h30-17h30: Proposition d'un Réseau Thématique – Table ronde

Animation : Stefania Viola (*BIAM – ST Paul-Lez-Durance*)

17h30- 19h00: BD Dis-moi comment tu respires

**Francis Haraux** (*CNRS Edition*)

19h-20h30: Repas

20h30-21h30 : session Posters I

## Vendredi 3 Octobre

### Structure-fonction des complexes bioénergétiques I

8h30-9h10: **Ville Kaila** (*Dpt Bioch & Biophys, Stockholm University*)

9h10-9h35: « Characterization of Pyruvate:Ferredoxin Oxidoreductases (PFOR) from Diverse Organisms »

**Colette Maignet-Magard** (*BIP, Marseille*)

9h35-10h00: « New Insights into the Enigmatic RavA–ViaA Complex of *E. coli* »

**Rodrigo Arias-Cartin** (*Pasteur Institut, Paris*)

10h00-10h20: Pause

### Structure-fonction des complexes bioénergétiques II

10h20: **Manuela Zoonens** (*IBPC, Paris*)

11h00-11h25: « The high diversity of oxygen reactivity in bacterial terminal oxidases »

**Petra Hellwig** (*LBS, Strasbourg*)

11h25-11h50: « Deciphering the hydrogen bonding network and protonation state of semiquinone using EPR spectroscopy: Insights into the PCET mechanism at the quinone binding site of NarGHI. »

**Maryam Seif-Eddine** (*BIP, Marseille*)

11h50-12h15: « Integrative investigation of the long-range coupling in *E. coli* Complex I »

**Adel Beghiah** (*Dpt Bioch & Biophys, Stockholm University*)

12h15-14h: Repas

### Structure-fonction des complexes bioénergétiques III

14h00-14h25: «Redox Potentials of the obligate CIII2CIV2 Supercomplex from *Mycobacterium smegmatis*»

**Frederic Melin** (LBS, Strasbourg)

14h25-14h50: «Structural Characterisation of the Ubiquinone Biosynthesis Complex in *Escherichia coli*»

**Dinh Tuan-Anh** (TIMC, Grenoble)

14h50-15h15: «An alternative mechanism by which If1 prevents ATP hydrolysis by the ATP synthase subcomplex in *S. cerevisiae*.»

**Orane Lerouley** (IBCG, Bordeaux)

15h15: Presentation sponsors

15h45-16h45: AG du GFB

16h45: Pause

17h15: Session Posters II

19h30: Repas Gala

## Samedi 4 Octobre

### Systèmes producteurs d'énergie photosynthétiques et homologues

8h30-9h10 : «The Copper Superoxide Scavenger of Oxygenic Photosynthesis»

**Xenie Johnson** (BIAM, Saint Paul-Lez-Durance)

9h10-9h35 : «Undulatory Photosynthesis: A frequency-domain approach for understanding photosynthetic regulation.»

**Marcelo Orlando** (IBPC, Paris)

9h35-10h00 : «Respiratory oxidases facilitate photosynthetic activation upon light exposure in *Synechococcus elongatus*»

**Fabrizio Iacono** (BIAM, Saint Paul-Lez-Durance)

10h00-10h25 : «A homolog of the cytochrome b6f complex of oxygenic photosynthesis implicated in a respiratory supercomplex with menaquinone.»

**Daniel Picot** (IBPC, Paris)

10h25-11h30: Clôture du congrès

12h-12h30 : Départ navette