



«EVOLUTION, BIOGENESIS AND DYNAMICS OF ENERGY TRANSDUCING MEMBRANES»

LABEX DYNAMO SYMPOSIUM, Paris, France - March 26-29 2019

SYMPOSIUM PROGRAM

Tuesday, March 26 2019

15h–17h : Reception of participants

17h-17h15 : **Francis-André Wollman** : Welcome, Presentation of the DYNAMO Consortium

17h15-18h15 : **Brian Kobilka** (University of Stanford, USA) : « Structural insights into the dynamic process of G protein coupled receptor activation »

18h15-20h15 : Cocktail

Wednesday, March 27 2019

9h-9h45 : **Susan Gottesman** (National Institutes of Health, Bethesda, US) : « Regulatory RNAs, Chaperone Hfq, and the Bacterial Response to Stress »

9h45-10h15 : **Maude Guillier** : « Revisiting translation initiation in bacteria with small RNA control »

10h15-10h45 : **Yves Choquet** : « From bacteria to chloroplasts: evolution of the control of gene expression »

10h45-11h15 : Coffee break

11h15-11h45 : **Wolfgang Hess** (University of Freiburg, Freiburg, Germany) : « Interplay Between Regulatory sRNAs and Protein Factors in the Control of Photosynthesis Acclimation to high light and Low Iron »

11h45-12h15 : **Harald Putzer** : « RNase J : from Cyanobacteria to the chloroplast »

12h15-12h45 **Lionel Benard** : « Nuclear gene organization and mitochondrial function »

12h45-14h15 : Lunch break

14h-14h45 : **Dirk Schüler** (University of Bayreuth, Bayreuth, Germany) : « How microbes make magnets: Biogenesis of membrane-bound magnetic organelles in bacteria »

14h45-15h15 : **Mickael Cohen** : « DYNAMO tangoes with DYNAMINS to reveal fusion principles for mitochondria and thylakoids »

15h15-15h45 : **Antoine Taly** : « Modelling the structure and dynamics of the yeast mitofusin Fzo1 »

15h45-16h15 : Coffee break



**16h15-16h45 : Emmanuelle Bayer** (CNRS, Bordeaux, France) : « Keep in touch: plasmodesmata pores as cellular machines for intra and intercellulaire trafficking in plants »

**16h45-17h15 : Laurent Catoire** : « Illuminating the Energy Landscape of GPCRs: The Key Contribution of Solution-State NMR Associated with Escherichia coli as an Expression Host »

**17h15-17h45 : Christophe Tribet** : « Lipid Nanovesicles with a Functionalized Outer Corona Prepared in Microbial Cell Factories »

**17h45-18h15 : Béatrice Golinelli** : « Crystal structures of [4Fe-4S]-dependent tRNA thiolases reveal a new function of [Fe-S] clusters in biology »

**18h15-19h30** : Poster session

#### Thursday, March 28 2019

**9h-9h45 : Werner Kühlbrandt** (Max Planck Institute, Frankfurt, Germany) : « Mechanistic insights from high-resolution cryoEM structures of ATP synthases »

**9h45-10h15 : Philippe Delepelaire/Yvette Ntsogo** : « Heme acquisition systems in Gram-negative bacteria »

**10h15-10h45 : Lucie Bergdoll** : « Low pH triggers oligomerization and conformational changes of the Voltage-Dependent Anion Channel »

**10h45-11h15** : Coffee break

**11h15-11h45 : Fabien Pierrel** (University of Grenoble, Grenoble, France) : « Biosynthesis of Ubiquinone without dioxygen: how and why »

**11h45-12h15 : Marc Fontecave** : « Solar fuels: bioinspired artificial photosynthetic systems »

**12h15-12h45 : Manuela Zoonens** : « Amphipols: an extending toolbox for structural and functional studies of membrane proteins »

**12h45-14h** : Lunch break

**14h-14h45 : Ron Milo** (Weizmann Institute of Science, Rehovot, Israel) : « Teaching E coli to fix CO<sub>2</sub> »

**14h45-15h15 : Stéphane Lemaire** : « Systems and synthetic biology of photosynthetic carbon fixation »

**15h15-15h45 : Katia Wostrikoff** : « RUBisCO LSU translation is regulated by its assembly state »

**15h45-16h15** : Coffee break



**16h15-16h45 : Durba Sengupta** (National Chemical Laboratory, Pune, India) : « Dissecting molecular determinants of membrane peptide interactions »

**16h45-17h15 : Ingrid Lafontaine** : « Assessment of an antimicrobial origin of organelle targeting peptides »

**17h15-17h45 : Grégory Boël** : « The ABC(F) of the bacterial translation stress response »

**17h45-19h** : Poster session

**19h-20h** : Closing Cocktail

### Friday, March 29 2019

**9h-9h30 : Angela Falciatore** : « Marine diatoms as emerging model systems for photobiology research »

**9h30-10h : Benjamin Bailleul** : « Exploring the diversity of cyclic electron flow »

**10h-10h30 : Frédéric Lemaître** : « Electrochemical diverting of photosynthetic electrons from unicellular algae with exogenous quinones »

**10h30-11h** : Coffee break

**11h-11h30 : Jane Richardson** (Duke University, Durham, USA) : « Past and future visualizations of macromolecules: shapes, interactions, hi-D data, dynamic ensembles... »

**11h30-12h : Ciaran Condon** : « Rae1 (YacP), a new endoribonuclease involved in ribosome-dependent mRNA decay in *B. subtilis*. »

**12h-12h30 : Samuela Pasquali** : « Multifunctional energy landscape for an RNA G-quadruplex: an innate molecular switch »

**12h30-13h : Kyle Tanner** : « Elucidating the RNA substrates and roles of the Ded1/DDX3 subfamily of DEAD-box RNA helicases in gene expression »

**13h-13H10 : Bruno Miroux** : Closing Words