



Tools for Analysis of Membrane Proteins

Brussels, 20 April 2017

Scientific committee

Nico Callewaert (VIB-UGent Center for Medical Biotechnology)
Rouslan Efremov (VIB-VUB Center for Structural Biology Research)
Mark Veugelers (VIB Technology Watch team)

09h30-09h35 Welcome

SESSION 1: BIOCHEMICAL AND BIOPHYSICAL APPROACHES TO STUDY MEMBRANE PROTEINS

09h35-09h50 **Trainer 1:** Rouslan Efremov, VIB-VUB Center for Structural Biology Research, BE
Introduction to membrane proteins

09h50-10h20 **Trainer 2:** Tim Dafforn, School of Biosciences - University of Birmingham, GB
Detergent free production of membrane proteins

10h20-10h50 **Trainer 3:** Anass Jawhari, Calixar, FR
Stabilization of native and functional membrane proteins for drug discovery

10h50-11h15 Coffee

SESSION 2: MEMBRANE PROTEIN INTERACTIONS

11h15-11h50 **Trainer 4:** Cedric Govaerts, Université Libre de Bruxelles, BE
Lipids and membrane proteins: united we stand, divided we fall

11h50-12h25 **Trainer 5:** Arnold Driessen, University of Groningen, NL
Single molecule approaches to analyze protein-protein interactions during protein translocation

12h25-13h30 Lunch



SESSION 3: SIGNALING/CELL BIOLOGY ACROSS MEMBRANES AND DRUG DEVELOPMENT

- 13h30-14h05 **Trainer 6:** Robert Tampé, Institute of Biochemistry, Goethe-University Frankfurt, DE
Suggested title: Imaging membrane proteins
- 14h05-14h40 **Trainer 7:** Chris Tate, MRC Laboratory of Molecular Biology, UK
Stabilization of membrane proteins in specific conformations for structural studies and drug screening
- 14h40-15h15 **Trainer 8:** Graeme Fraser, Euroscreen, BE
Context and interpretation of screening assays targeting signal-transducing membrane proteins
- 15h15-15h45 Coffee

SESSION 4: STRUCTURAL BIOLOGY OF MEMBRANE PROTEINS

- 15h45-16h20 **Trainer 9:** Bernadette Byrne, Imperial College London, GB
Expression and characterization of eukaryotic transporter proteins for structural studies
- 16h20-16h55 **Trainer 10:** Werner Kühlbrandt, Max-Planck-Institute of Biophysics, DE
Mitochondrial membrane protein complexes and the resolution revolution in cryoEM