Tools for Analysis of Membrane Proteins

Brussels, 20 April 2017

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

09h30-09h35 Welcome

SESSION 1: BIOCHEMICAL AND BIOPHYSICAL APPROACHES TO STUDY MEMBRANE PROTEINS

09h35-09h50 **Trainer 1**: Nico Callewaert or Rouslan Efremov
Suggested title: 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**: Cédric Govaerts, Université Libre de Bruxelles, BE
Suggested title: Biophysics and biochemistry of membrane proteins

11h50-12h25 **Trainer 5**: Arnold Driessen, University of Groningen, NL
Suggested title: Biophysics tools for characterizing protein-protein and protein-ligand interactions

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
Suggested title: Drug 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
Suggested title: Expression and purification of functionally active Eukaryotic membrane proteins

16h20-16h55 **Trainer 10**: Werner Kühlbrandt, Max-Planck-Institute of Biophysics, DE
Suggested title: Structural studies of membrane proteins: X-ray crystallography and cryo-EM