Cryo-EMontpellier
Explore the unseen

September, 11th 2024 | 9h00-18h00
Amphithéâtre Flahault, Institut de Botanique
163 rue Auguste Broussonnet
34090 Montpellier

Registration is mandatory

Plenary lecture from
Dr. Richard Henderson
MRC-LMB, Cambridge (UK)
Nobel Prize in Chemistry 2017

Followed by presentations from selected speakers and discussions on the cutting-edge areas of cryo-EM imaging, including the exploration of macromolecular structures, advancements in structural pharmacology and drug design and the transformative insights into cell biology enabled by cryo-tomography.

Submit poster abstracts (max, 1,000 characters) to: cryomontpellier@gmail.com before 2024-08-10
9:00-9:30  Opening by Philippe Augé, president of the University of Montpellier and Pierre-Emmanuel Milhiet, director of the Biology-Health division

9:30-10:30  Plenary lecture by Richard Henderson, Nobel Laureate in Chemistry 2017, MRC laboratory of Molecular Biology, Cambridge, UK. Accomplishments and potential of cryoEM in Structural Biology

10:30-10:50  Coffee break - Poster session

10:50-12:30  SELECTED LOCAL SPEAKERS
10:50-11:10  Bernard Mouillac, IGF  
Cryo-EM structures of the active and inactive conformations of the arginine-vasopressin V2 receptor
11:10-11:30  Joe McKellar, IGMM  
Towards the structure of animal Deltavirus particles
11:30-11:50  Julien Bous, Karolinska  
Structural basis of Frizzled 7 activation and allosteric regulation
11:50-12:10  Julie Finkel, CBS  
DNA origami self-assembly with complex curved surfaces defined in 3D space
12:10-12:30  Guillaume Lebon, IGF  
Conformational diversity in class C GPCR positive allosteric modulation

12:30-13:30  Lunch break - Poster session

13:35-15:20  PLATFORMS
13:35-14:00  Pierre-Emmanuel Milhiet, director of the Biology-Health division  
Introduction
14:00-14:20  Laurence Berry, MRI, Montpellier  
Cryo or not cryo ? That is the question...
14:20-14:40  Joséphine Lai Kee Him, PIBBS-CBS, Montpellier  
CryoEM in Montpellier
14:40-15:00  Célia Plisson, CBI, Toulouse  
From Toulouse, with love and vitreous ice: exploring molecular and cellular structures using cryo-electron microscopy
15:00-15:20  Eaazhaii Kandia, ESRF, Grenoble  
Harnessing the cryo-EM facility at the ESRF for high resolution structural biology

15:20-15:50  KEYNOTE SPEAKER
Andrew Kruse, Harvard Medical School, Boston, USA  
Activation of the RXFP1 relaxin receptor by diverse agonists

15:50-16:10  Coffee break - Poster session

16:10-17:30  SELECTED LOCAL SPEAKERS
16:10-16:30  Charline Mary, CBS  
Structural and functional study of a new channel involved in the virulence of pathogenic bacteria
16:30-16:50  Benjamin Vitre, CRBM  
In vitro reconstituted system shows a functional regulation of the mitotic kinesins HSET by intraflagellar transport protein complexes
16:50-17:10  Philippe Rondard, IGF  
Structure and allosteric modulation of heterodimeric metabotropic glutamate receptors
17:10-17:30  Konstantin Brodolin, IRIM  
Control of gene expression via tuning conformational dynamics of transcription machinery

17:30-18:00  ROUND TABLE AND CLOSING REMARKS