

Séance 1 / Session 1 – on Zoom

8h45 Mots d’Ouverture / Opening Words – Martin Schmeing, *CRBS Director, McGill University*

Sous la Présidence de / Session Chair: Susanne Bechstedt, *CRBS Executive member, McGill University*

9h00-9h50 Andrew Carter, *MRC-LMB, Cambridge, UK*
Dynein motors: from axons to axonemes

9h50-10h20 Mehran Dastmalchi, *McGill University*
Leveraging plant metabolic diversity to engineer biosynthetic pathways

10h20-10h35 Thomas McAlear, *McGill University - Prix Annuel Excellence du FRQ-S 2020-2021*
The mitotic spindle protein CKAP2 is a potent microtubule assembly factor

10h35-11h25: Ben Engel, *Helmholtz Zentrum München, Neuherberg, Germany*
Exploring molecular landscapes inside cells with *in situ* cryo-electron tomography

Pause / Break

Séance 2 / Session 2 – on Fourwaves

11h35-12h35 Poster session

Diner / Lunch

Séance 3 / Session 3 – on Zoom

Sous la Présidence de / Session Chair: Natalie Zeytuni, *CRBS co-Associate Director, McGill University*

13h05-13h55 Susan Lea, *NCI-CCR, Frederick, USA*
Using protons in the bacterial cytoplasmic membrane

13h55-14h25 Natalie Reznikov, *McGill University*
Multiscale 3D imaging of bone

14h25-14h40 Javier Rodriguez Gonzalez, *McGill University - Prix Annuel Excellence du FRQ-S 2020-2021*
Recruitment and activation of the DNA structure-specific endonuclease Rad1-Rad10

Séance 4/ Session 4 – on Zoom – Two parallel sessions at the same time

Séance 4A/ Session 4A

Sous la Présidence de / Session Chair: Jia Yin Xiao, *CRBS Student Consortium, McGill University*

14h40-14h55 Shannon Sim, *McGill University*
The role of γ -tubulin phosphorylation in the kinesin-5 dependent organization of spindle microtubules

14h55-15h10 Juan Carvajal, *McGill University*
A RNA-ligand docking study to improve the prediction of molecular fingerprints - RNAmigos study case

- 15h10-15h25 **Yeganeh Habibi, McGill University**
Exploring the effects of substrate post-translational modification on the structural dynamics of a lanthipeptide synthetase
- 15h25-15h40 **Francis Noël, Laval University**
The membrane interaction of the S100A16 protein studying with the Langmuir monolayer model and biomolecular modeling

Séance 4B/ Session 4B

Sous la Présidence de / Session Chair: Madeline Shred, *CRBS Student Consortium, McGill University*

- 14h40-14h55 **Mélanie Côté-Cyr, Université du Québec à Montréal**
Guiding the self-assembly of the protein flagellin into immunostimulatory nanoring structures as antigen delivery system
- 14h55-15h10 **Armando Palacios, McGill University**
Machine learning techniques allow direct visualization of complex maturation steps in the ribosome assembly process
- 15h10-15h25 **Corbin Black, McGill University**
Structure of the ciliary outer junction
- 15h25-15h40 **Ismael Abu-Baker, McGill University**
Highly organized arrays of gold nanorings assembled on tobacco mosaic virus coat protein

Pause / Break

Séance 5/ Session 5 – on Fourwaves

15h50-16h50 Poster session

Séance 6 / Session 6 – on Zoom

16h50-17h00 **Présentation des Prix & Remerciements / Presentation of Awards & Closing Words**
Khanh Huy Bui, CRBS Executive member, McGill University

Meet the exhibitors on Fourwaves: 11h35-12h35 and 15h50-16h50

