

## **Session Program**

**6-11 Jun 2021**



**Canadian Association  
of Physicists**

**Association canadienne  
des physiciens et physiciennes**

## **2021 CAP Virtual Congress / Congrès virtuel de l'ACP 2021**

### ***W3-4 Molecular and Cellular Biophysics (DPMB) / Biophysique moléculaire et biophysique cellulaire (DPMB)***

Underline Conference System

## Tuesday 8 June

15:45

### W3-4 Molecular and Cellular Biophysics (DPMB) / Biophysique moléculaire et biophysique cellulaire (DPMB)

**Session** | **Location:** Underline Conference System | **Convener:** Melanie Campbell

15:45–15:50 **(G\*) How did first life emerge on terrestrial planets?**

**Speaker**

Alix Dujardin

15:50–15:55

### MD Simulation and Topological Data Analysis of High Temperature Activity of an Enzyme

**Speaker**

samin tajik

15:55–16:00

### (U\*) Protein Conformational Ensembles for a Disordered Protein Restricted by Separate Biophysical Experiments

**Speaker**

Mr Thomas Tsangaris

16:00–16:05

### (U\*) Quantitatively Analysing Evolutionary Effects in the Transition From Non-Genetic to Genetic Drug Resistance

**Speaker**

Mr Joshua Guthrie

16:05–16:10

### (U\*) The quantitative analysis of gel electrophoresis data using a cloud-based smartphone application

**Speaker**

Udbhav Ram

16:10–16:15

### Ratcheting charged polymers through nanopores: Designing a low pass molecular filter for DNA

**Speaker**

Gary W. Slater

16:15–16:20

### Concentration and Mobility of Activator and Repressor Morphogens in live early Drosophila Embryos

**Speaker**

Lili Zhang

16:20–16:25

### Measurement of elements in toenail clippings using portable X-ray fluorescence

**Speaker**

David Fleming

16:30