



Contribution ID : 17

Type : Poster

Uncovering mechanisms of viral protein multifunctionality using a hybrid structural biology approach

Viruses form extensive interfaces with host proteins to modulate host biology. The interfaces are typically formed by multifunctional viral proteins with diverse arrays of cellular proteins and are conventionally viewed as discrete protein-protein complexes. However, the sheer size/complexity of the interactomes challenges this view. Here, we aim to use an array of structural biology techniques such as SAXS, NMR and Mass spectrometry, with a focus on the lyssavirus proteins to uncover those fundamental mechanisms underlying protein multifunctionality and decipher the mechanism of host immune evasion. This should provide significant benefits in identifying new strategies for treating viral infections, but also enhance the development of multi-disciplinary approaches to solve complex biological problems involving intrinsically disordered proteins.

Level of Expertise

Experience Researcher

Presenter Gender

Man

Pronouns

He/Him

Do you intend to attend UM2022

In person - Melbourne

Students Only - if available would you be interested in student travel funding

Students Only – Do you wish to take part in the Student Poster Slam

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Yes

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Session Classification: Poster

Track Classification: Life Science & Structural Biology