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Keynote 5: Structure-guided approaches to malaria vaccines

Wednesday, 17 May 2023 08:45 (45 minutes)

Malaria is one of the most deadly diseases to affect humanity and it is caused by a parasite which has co-evolved with humans for millennia. It has proved hugely challenging to develop a vaccine to target this adaptable and changeable parasite. I will talk about how we use structural approaches to design improved vaccine immunogens, showing how we combine structural biology methods to understand the key host-parasite interactions in malaria and to determine the epitopes of the most effective growth-neutralising antibodies. Finally I will discuss how we use structure-guided protein design to make novel vaccine immunogens focused to induce only the most effective antibody responses.

Select Topic 1

Unmet Medical Needs

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Modern Methods in Structural Biology and Dynamics

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Session Classification: Unmet Medical Needs