

VIRTUAL TALK

CAPSID 'Seminar Speaker Series' on Modern
Concepts in Structural Biology

given by

Prof. Peijun Zhang

from University of Oxford, Division of Structural Biology and Wellcome Centre
for Human Genetics

Interrogating HIV-1 On A New Level

7.5.2020 at 14:00

Online virtual talk via Zoom

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ANNOTATION

Cryo-electron microscopy is playing a key role in the understanding HIV-1 infection and development of new drugs and therapeutic strategies for HIV-1 prevention and treatment. Over the past decade we have made a significant progress in determining structural mechanisms of HIV-1 capsid assembly, disassembly, maturation, and interactions with many host factors, through developing cutting-edge cryoEM technologies that bring unprecedented resolution and enable *in situ* structures of large assemblies and complexes in their native cellular environment. We use an integrative approach combining structural methods with retrovirology, cell biology and computer simulations, to better understand the infection process. Future cryoEM development, in particular on the correlative *in situ* microscopy, will allow us generate a framework for the development of new therapeutic interventions of HIV-1 and other pathogenic viruses.

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