

# Special Seminar

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Inner workings of the  
inflammasome engine:  
basic mechanism and  
therapeutic intervention



University of California  
San Francisco



**The Wu laboratory** of structural and mechanistic immunology focuses on elucidating the molecular and cellular mechanisms that govern the assembly, regulation and therapeutic intervention of supramolecular complexes in innate immunity.

Our current research focuses on inflammasomes, which are cellular machineries for activating inflammatory caspases. Activated caspases process the IL-1 family cytokines and the pore forming protein gasdermin D (GSDMD), and GSDMD pores release the mature cytokines and cause pyroptotic cell death.

There are three pillars for the research in the lab, 1) cryo-EM and other biophysical methods for detailed understanding of molecular complexes, including a large number of membrane proteins, 2) drug screening and validation for potential therapeutics in immune diseases and cancer, and 3) cellular imaging and other tools for the assembly of supramolecular complexes in cells.

**Thursday**  
**June 30, 2022**

12:00–1:00 PM PST

Byers Auditorium, Genentech  
Hall

Join via Zoom:

Meeting ID: 927 0171 4587

Password: 353657

<https://ucsf.zoom.us/j/92701714587?pwd=b2dRY2Vsbk1ZlU3Mk1JLnZlRQUXN5Zz09>

Faculty Host: Yifan Cheng, Ph.D.

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