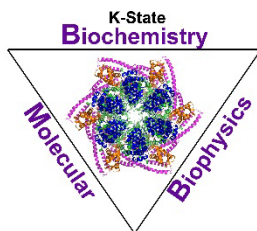


Ackert Hall, Room 120  
Wednesday, November 12 2025  
4:00 P.M.



Coffee and Cookies  
Chalmers Hall, Room 168  
3:45 P.M.

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**Biochemistry**

**&**

**Molecular**

**Biophysics**

**Seminar**

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## **Protein Design Insights from Large Datasets**

**Dr. Joanna Slusky**

Molecular Biosciences, University of Kansas

Protein design relies on a deep understanding of the mimicked protein category. By constructing a large dataset of outer membrane proteins, we discovered features of outer membrane protein biogenesis and evolution. With a second large dataset—of metalloproteins—we revealed key differences between metal binding sites that can and can't catalyze reactions. We are now using these datasets to design novel outer membrane proteins and enzymes.