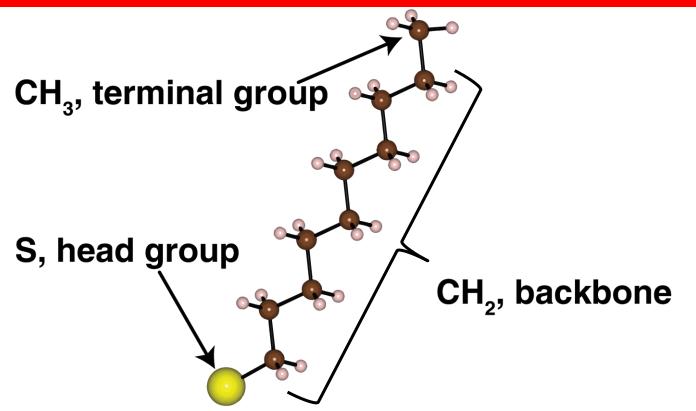
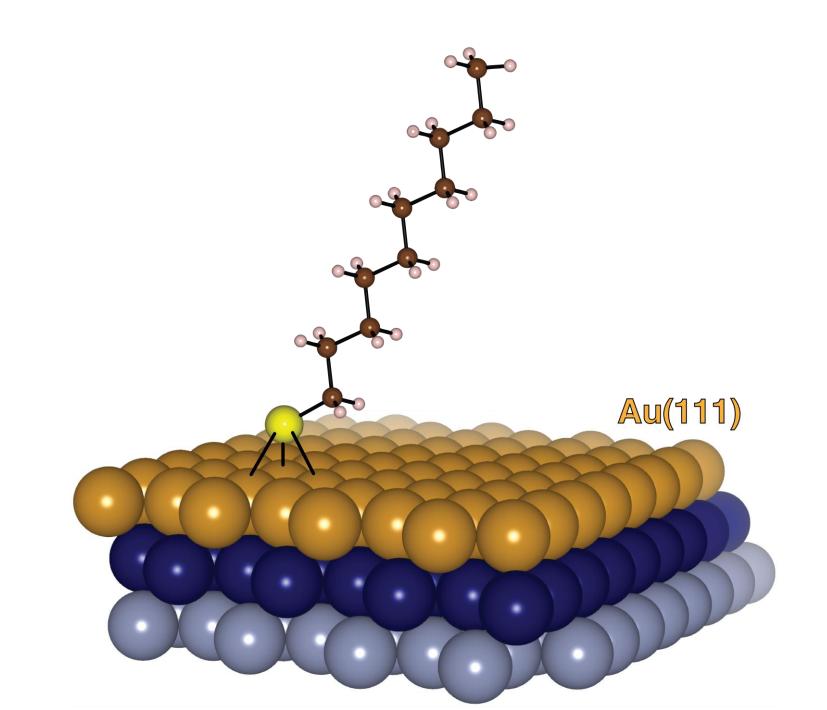
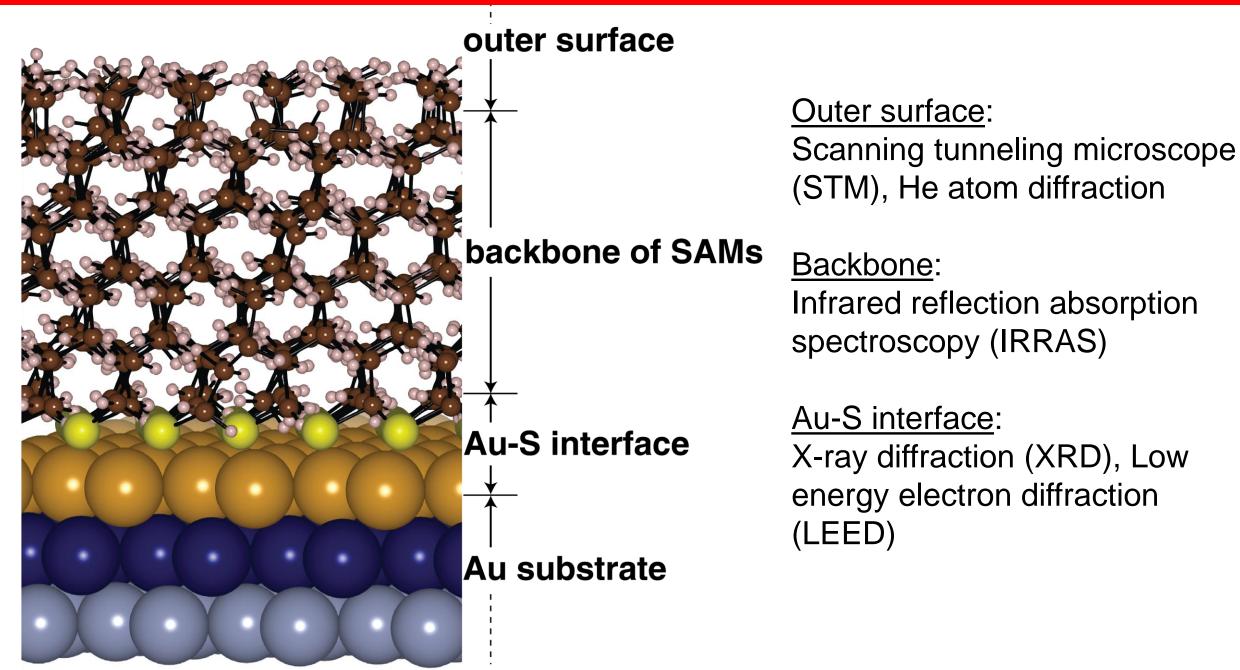
Alkanethiol Self-Assembled Monolayer Structure and Temperature Dependency Juan Zuñiga Advisor: Lloyd Bumm

n-Decanethiol Molecule

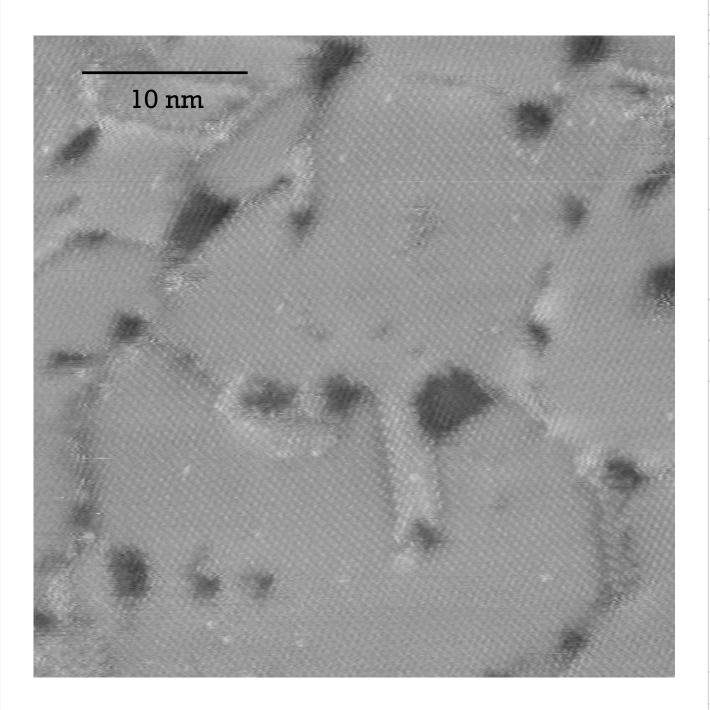




Self-Assembled Monolayer (SAM)



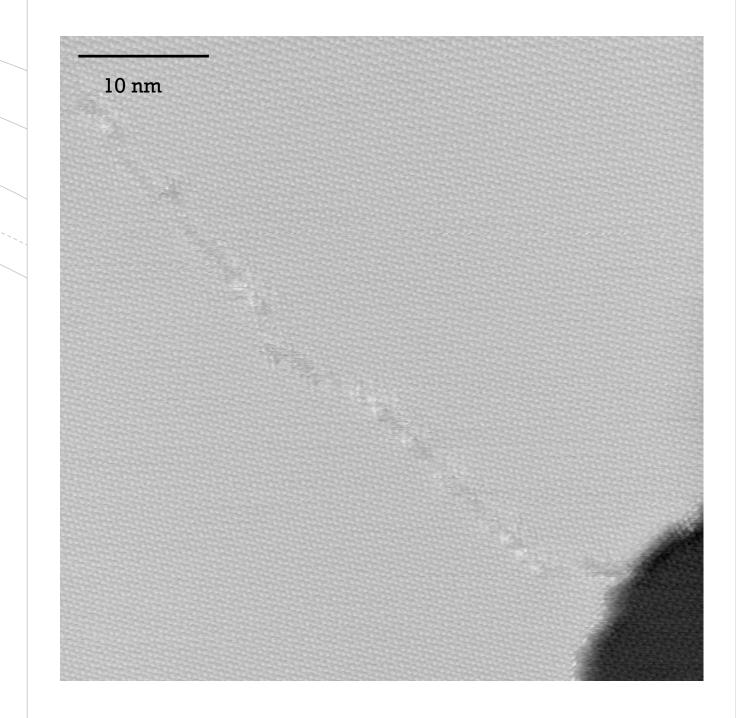
Defects/Irregularities



Low Temperature Deposition

Room Temperature





Pharmacological

Application

Nanotechnology

 Hydrophobic characteristic modification

What will I be doing?

- Decanethiol deposition on Au(111) substrate at temperatures ranging from 80°C to 180°C.
- Studying multiple sample structures using STM
- Determine sample structure dependency on temperature

Pictures and diagrams: Courtesy of the surface and molecular interface group

