Biochemistry Seminar Series
Faculty Research Seminars – Fall 2017

Jim Gober
Fundamental problems in developmental biology, such as the generation of asymmetry, differential transcription, and the execution of positional information, are all exhibited during the cell cycle of the bacterium, *Caulobacter crescentus*. *Caulobacter* undergoes a fixed sequence of differentiation events within each cell cycle. Cell division yields morphologically and biochemically dissimilar daughter cells; a swarmer cell which possesses a single polar flagellum and a non-motile stalked cell. During the latter portion of the DNA replication phase, the components of the flagellum are synthesized and assembled at the pole of the predivisional cell that is opposite the stalk.

Jose Rodriguez
The Rodriguez lab studies the complex architecture of biological systems - from single biomolecules to cellular assemblies - at high resolution. The work is largely based on diffraction phenomena and combines computational, biochemical and biophysical experiments. The development of new methods is central to this work, particularly using emerging technologies in cryo-electron microscopy, nano and coherent x-ray diffraction, and macromolecular design. Combined, these tools can reveal undiscovered structures that broadly influence chemistry, biology, and medicine.

Friday, December 8, 2017
3440 Molecular Sciences
3:30 pm

Please contact Marla Gonzalez, marla@chem.ucla.edu, x57071 for additional information.