

**CHEMISTRY Departmental Seminar**

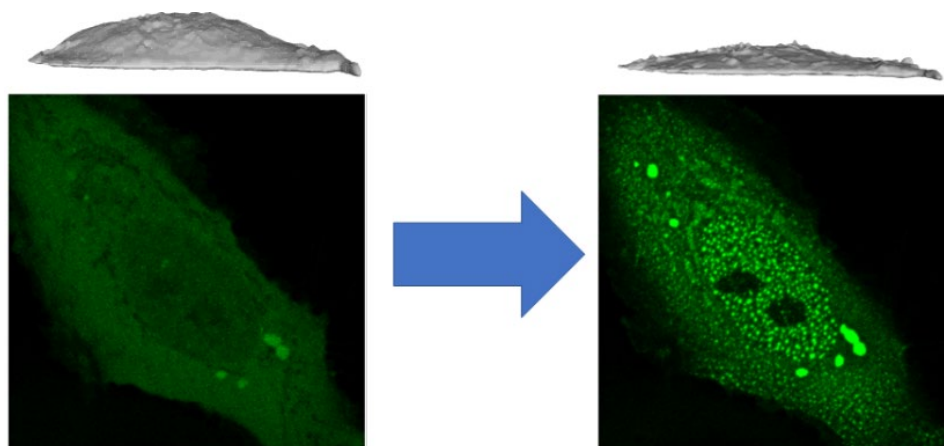
Spring 2019  
CHEM 285/191 Schedule  
Tuesdays at 4:30-5:45PM  
Room Duncan Hall 250

March 26<sup>th</sup>, 2019

**Prof. Shahar Sukenik**  
University of California Merced

***Protein Structure and Function in the Dynamic Cellular Environment***

The cell contains thousands of different molecules that are in constant flux due to external environmental changes or internal cell cycle events. Proteins are thought to be robust to these fluxes; yet this contradicts decades of in vitro experiments highlighting the sensitivity of proteins to solution conditions. Using a combination of live cell microscopy and in vitro biophysical methods, I show that routine changes in the cellular environment can alter protein structure, function, and interaction. I will discuss how cellular environment changes can act as regulatory signals in both health and disease, and how the solution surrounding proteins can be used as a tool to control protein function in the test tube and in the cell.



For more information:

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