



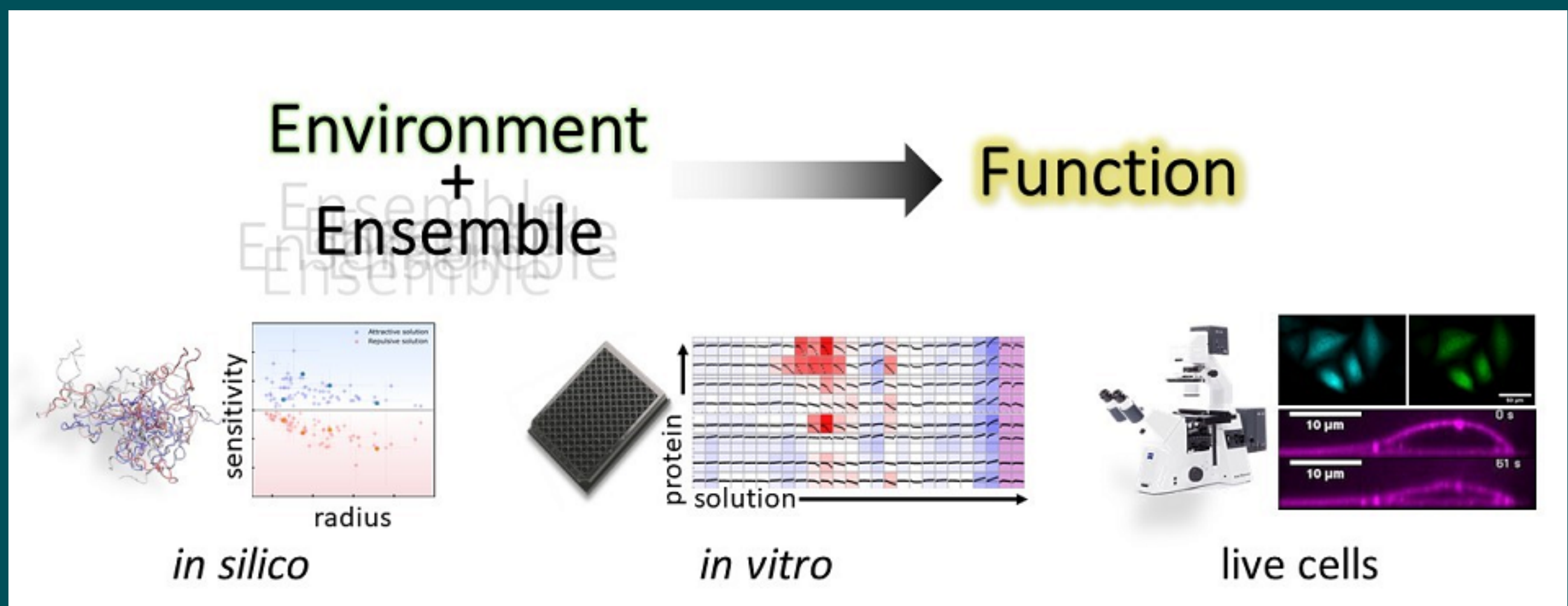
Chemical & Physical Sciences

UNIVERSITY OF TORONTO

MISSISSAUGA

COLLOQUIUM SEMINAR SERIES

OBSERVING DISORDERED PROTEINS INSIDE THE CELL



The physicochemical conditions inside the cell are spatially and temporally dynamic, varying in response to both routine internal cell cycle events and to external environment changes. For many of the cell's proteins, these changes are negligible. Yet for intrinsically disordered proteins regions (IDPs), which make up over a third of the human proteome, such physical chemical changes in the intracellular solution can dramatically affect structure and function. I will tell about our lab's efforts to decipher how IDPs behave in the cellular environment using a combination of computational simulations, *in vitro* experiments, and live cell microscopy. Using these complementary techniques I will show how the ability of IDPs to sense and respond to their environment can have long-ranging implications to protein function in both health and disease.

COLLOQUIUM SEMINAR SERIES

featuring

Professor Shahar Sukenik, University of California, Merced Chemistry & Biochemistry Department

Wednesday October 5, 2022 | 3:30pm

Join via zoom: <https://utoronto.zoom.us/j/81609726082>