Yale Systems Biology Institute

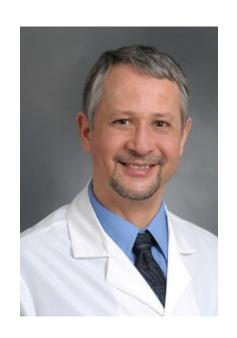
GABOR BALAZSI, PhD

Professor of Physical and Quantitative Biology Stony Brook University

hosted by Andre Levchenko

"Mapping the fitness landscapes of cancer by noise-aware protein level control"

Various steps in chemoresistance or metastasis can be conceptualized as cells exploring phenotypic fitness landscapes, such as cell survival or invasiveness versus the average and variance of protein levels. I will illustrate the utility of phenotypic fitness landscapes in elucidating processes fundamental to chemoresistance and metastasis and provide examples of how we can infer such landscapes experimentally, upon combining noise-controlling synthetic gene circuits with genome modification in human cancer cells.



Wednesday, May 11 at 1:00 pm
Yale West Campus Conference Center
800 West Campus Drive, Event Room A West
Haven, CT
Lunch will be served