

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

*For those unable to attend in person,
please email benita.palmer@yale.edu for the Zoom link.*

