

Ben O'Shaughnessy, Ph.D.
Chemical Engineering
Columbia University



Mechanics of Cell Division by the Actomyosin Contractile Ring

We use mathematical modeling and experiments to study cytokinesis, in close collaborations with experimentalists. We seek to establish how the cytokinetic ring works as a cellular machine: how do the thousands of components collectively generate tension, how does the machine constrict and what is the role of the ring? My seminar will present our progress toward answering these questions in fission yeast, where quantitatively establishing mechanisms is a long term feasible goal because, relatively speaking, the ring is so well characterized experimentally.

Monday, May 1, 2017

BASS 305

3:45 Tea 4:00 Seminar

Host: Erdem Karatekin

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Contact: shanna.lavacca@yale.edu