

North Carolina State University
Chancellor's Faculty Excellence Program
"Modeling the Living Embryo" Cluster presents:

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(<https://www.i3s.up.pt/research-group?x=15#about>)



February 23rd, 2021
Tuesday @ 11am

"Cooperation between actin filament crosslinkers during cytokinesis"

Zoom: <https://ncsu.zoom.us/j/97654757526?pwd=cDZOeDRQYjZkN1JXMHE4eXQ5UjZLQT09>

Our team investigates the process of cytokinesis, the last step of cell division that physically partitions the mother cell into two daughter cells. This process relies on the assembly and constriction of an actomyosin contractile ring at the cell equator, which is integrated in the surrounding actomyosin cell cortex. Our research is focused on the molecular mechanisms behind the rapid assembly of this specialized actomyosin network, and the generation and propagation of force required for its contractility. I will present our latest findings on the contribution of F-actin crosslinkers, the molecules that keep F-actin network connectivity during filament sliding by myosin.