

Seminar 2016



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Molecular Mechanisms of Actin Nucleation

Actin is one of the most abundant and conserved eukayotic proteins. Actin nucleation, defined as the formation of actin oligomers from G-actin monomers, is the rate-limiting step for de novo actin assembly in many fundamental cellular processes. In cells, actin nucleation is precisely and tightly regulated through a diverse set of actin nucleators. However, due to their fleeting nature, actin nuclei have long eluded structural investigation. Our lab has developed a novel double-mutant strategy, which allows the capture of actin nuclei in action. In the seminar, I will discuss the molecular mechanisms of actin nucleation based on the crystal structures and functional studies of three eukaryotic tandem-actin-binding nucleators.



Friday September 9, 2016 2:30 PM Laufer Center Lecture Hall 101 *Host: Jin Wang*



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