

Single-Molecule Imaging as an Versatile Experimental Tool for Studying Cell Polarity

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The ability to generate, maintain and regulate polarized cellular structure is the hallmark of all biological cells, which requires the coordination of cell-surface receptors, cytoskeletal molecules and various mechanical components of the cell. In this talk I will discuss a few specific cases of cell polarity where single-molecule imaging provided unique mechanistic insights on how the polarity structure is generated and regulated.