



## Phase Transition in T Cell Signaling



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Xiaolei majored in the Biological Sciences Program in Peking University as an undergraduate. He obtained his Ph.D. degree at Harvard University in the subject of Cell and Developmental Biology. As a postdoc fellow in Ron Lab at UCSF, Xiaolei discovered how phase separation of signaling molecules promotes T cell activation. This work reveals a new biophysical principle that could potentially govern a variety of signaling pathways. Xiaolei was awarded Mingde Scholarship at Peking University, Richard J. HerrNSTein Prize for dissertation at Harvard University, and CRI Irvington Postdoc Fellowship from Cancer Research Institute. Xiaolei newly joined the Department of Cell Biology at Yale School of Medicine as an assistant professor.

### Selected Publications

1. Hui E, Cheung J, Zhu J, **Su X**, etc., Vale RD. T cell costimulatory receptor CD28 is a primary target for PD-1-mediated inhibition. *Science*. 2017 Mar 31;355(6332):1428-1433.
2. **Su X\***, etc. , Vale RD\$. Phase separation of signaling molecules promotes T cell receptor signal transduction. *Science*. 2016 Apr; 352(6285):595-9. (\*Co-first author, \$Co-corresponding author)
3. **Su X**, Arellano-Santoyo H, Portran D, Gaillard J, Vantard M, They M, and Pellman D. Microtubule sliding activity of a kinesin-8 promotes spindle assembly and spindle length control. *Nature Cell Biology*. 2013 Aug; 15(8): 948-57
4. Su X, Qiu W, Gupta ML Jr, Pereira-Leal JB, Reck-Peterson SL, Pellman D. Mechanisms underlying the dual-mode regulation of microtubule dynamics by kip3/kinesin-8. *Molecular Cell*. 2011 Sep 2;43(5):751-63.

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