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Shefali Krishna, PhD
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Dissertation

[Regulation of Lysosome Trafficking and Nutrient Homeostasis \(2017\)](#)

Mentor

[Michael Overholtzer, PhD](#)

Start Year

2010

End Year

2017

Education

National University of Singapore

During my undergraduate studies, I was working on understanding how tumor cells evade cell death, and I became really interested in the cell biology of tumor cells. I knew I wanted to pursue a scientific career, and a PhD was the next step. Pursuing science is often like solving puzzles — and you never run out of things to discover! Gerstner Sloan Kettering has a great combination of strong labs working in basic sciences, as well as clinical research, which helps in bringing the research from the bench to the bedside. Since I am interested in understanding tumor biology at the cellular level, I really liked the cancer and basic biology emphasis in the GSK PhD program. I focus on cell biology in general and its dysregulation in human diseases. In particular, I want to study the dynamics of cellular organelles, like lysosomes, and the roles they play in regulating cellular processes.

Fellowships

[Robert B. Catell Fellowship](#) (2011-2012)

Publications

[Zaritsky A, Tseng YY, Rabadán MA, Krishna S, Overholtzer M, Danuser G, Hall A. \(2017\) Diverse roles of guanine nucleotide exchange factors in regulating collective cell migration. *J Cell Biol.* 216, 1543-1556. PMID: PMC5461017](#)

[Krishna S, Overholtzer M. \(2016\) Germ Cells Get by with a Little Cannibalistic Help from Their Friends. *Dev Cell.* 39, 631-633.](#)

[Krishna S, Overholtzer M. \(2016\) Mechanisms and consequences of entosis. *Cell Mol Life Sci.* 73, 2379-86. PMID: PMC4889469 \[Available on 2017-06-01\]](#)

[Krishna S, Palm W, Lee Y, Yang W, Bandyopadhyay U, Xu H, Florey O, Thompson CB, Overholtzer M. \(2016\). PIKfyve Regulates Vacuole Maturation and Nutrient Recovery following Engulfment. *Dev Cell.* 38, 536-47.](#)

[Krishna S, Overholtzer M. \(2014\) Milk makes lysosomes lethal. *Nat Cell Biol.* 16, 1029-31.](#)

[Krajcovic, M., Krishna, S., Akkari, L., Joyce, J., and Overholtzer, M. \(2013\) mTOR regulates phagosome and entotic vacuole fission. *Mol Biol Cell.* 24, 3736-3745. PMID: 24088573; PMID: PMC3842999.](#)

[Krishna S, Low IC, Pervaiz S. \(2011\) Regulation of mitochondrial metabolism: yet another facet in the biology of the oncoprotein Bcl-2. *Biochem J.*, 435, 545-51.](#)

[View a full listing of Shefali Krishna's journal articles.](#)

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