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The Marilyn Resh Lab



Marilyn Resh, PhD Member

The goal of my laboratory's research is to understand how fatty acylation influences the structure and function of membrane-bound and secreted signaling proteins. Our focus is on the Src family tyrosine protein kinases, Hedgehog and Wnt proteins.

View Lab Overview



Research Projects

Fatty Acylation of Wnt Proteins by Porcupine

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Publications Highlights

Petrova E, Rios-Esteves J, Ouerfelli O, Glickman JF, Resh MD. Inhibitors of Hedgehog acyltransferase block Sonic Hedgehog signaling. Nat Chem Biol. 2013 Apr;9(4):247-9. doi: 10.1038/nchembio.1184. Epub 2013 Feb 17.

Resh MD. Targeting protein lipidation in disease. Trends Mol Med. 2012 Apr;18(4):206-14. doi: 10.1016/j.molmed.2012.01.007. Epub 2012 Feb 17.

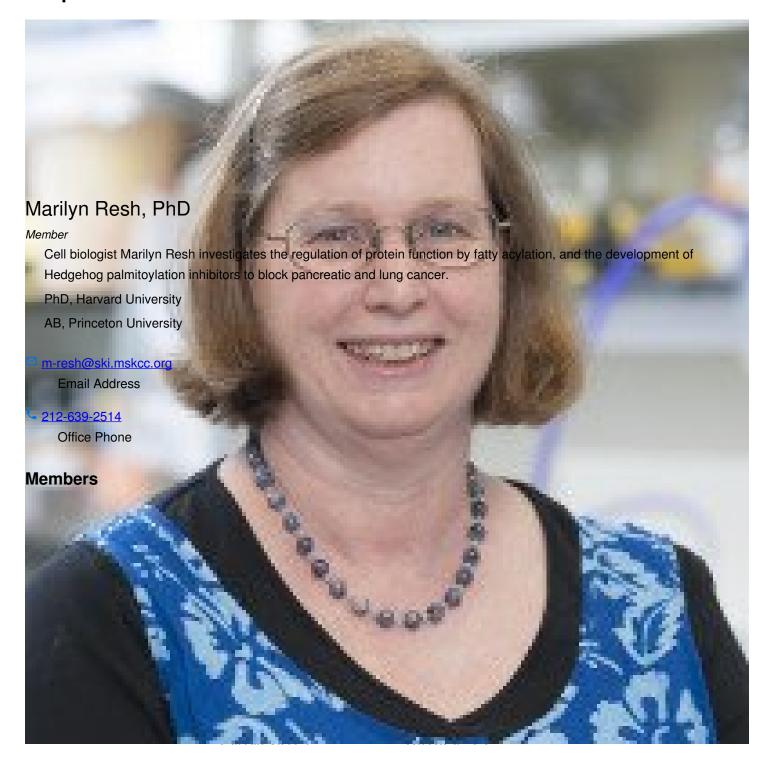
Buglino JA, Resh MD. Hhat is a palmitoylacyltransferase with specificity for N-palmitoylation of Sonic Hedgehog. J Biol Chem. 2008 Aug 8;283(32):22076-88. doi: 10.1074/jbc.M803901200. Epub 2008 Jun 4.

Resh MD. Palmitoylation of ligands, receptors, and intracellular signaling molecules. Sci STKE. 2006 Oct 31;2006(359):re14.

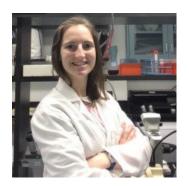
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People



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Adina R.
Schonbrun
Scientific Editor, Periodt
Scientific
Communications/Plant
Editions - Freelance



Jing Zhou, Ph.D.

Postdoctoral Fellow



Raisa Louft-Nisenbaum

Research Technician



Marilyn Resh Member

Lab Alumni

+

Lab Affiliations

+

Achievements

Excellence in Teaching and Mentoring Award, Weill Cornell Graduate School (2009)

Established Scientist, American Heart Association (1994-1999)

Pew Scholar in the Biomedical Sciences, Pew Charitable Trusts (1987-1991)

Discovery of the ""two-signal hypothesis"" for binding of myristoylated proteins to membranes

Discovery of a myristoyl switch mechanism for membrane binding of HIV-1 Gag

Read more

+

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