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The Sarat Chandarlapaty Lab

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Sarat Chandarlapaty, MD, PhD
Patricia and James Cayne Chair for Junior Faculty

My lab focuses on understanding the regulation of growth factor signal transduction pathways that are aberrantly activated in cancers, with a focus on those implicated in breast cancer pathogenesis.

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Publications Highlights

[Li Q, Jiang B, Guo J, Shao H, Del Priore IS, Chang Q, Kudo R, Li Z, Razavi P, Liu B, Boghossian AS, Rees MG, Ronan MM, Roth JA, Donovan KA, Palafox M, Reis-Filho JS, de Stanchina E, Fischer ES, Rosen N, Serra V, Koff A, Chodera JD, Gray NS, Chandarlapaty S. INK4 Tumor Suppressor Proteins Mediate Resistance to CDK4/6 Kinase Inhibitors. Cancer Discov. 2022](#)

[Feb;12\(2\):356-371. doi: 10.1158/2159-8290.CD-20-1726. Epub 2021 Sep 20.](#)

[Smith AE, Ferraro E, Safonov A, Morales CB, Lahuerta EJA, Li Q, Kulick A, Ross D, Solit DB, de Stanchina E, Reis-Filho J, Rosen N, Arribas J, Razavi P, Chandarlapaty S. HER2 + breast cancers evade anti-HER2 therapy via a switch in driver pathway. Nat Commun. 2021 Nov 18;12\(1\):6667. doi: 10.1038/s41467-021-27093-y.](#)

[Razavi P, Dickler MN, Shah PD, Toy W, Brown DN, Won HH, Li BT, Shen R, Vasan N, Modi S, Jhaveri K, Caravella BA, Patil S, Selenica P, Zamora S, Cowan AM, Comen E, Singh A, Covey A, Berger MF, Hudis CA, Norton L, Nagy RJ, Odegaard JI, Lanman RB, Solit DB, Robson ME, Lacouture ME, Brogi E, Reis-Filho JS, Moynahan ME, Scaltriti M, Chandarlapaty S. \(2020\). Alterations in PTEN and ESR1 promote clinical resistance to alpelisib plus aromatase inhibitors. Nat Cancer, Mar;1\(4\):382–393.](#)

[Li Z, Razavi P, Li Q, Toy W, Liu B, Ping C, Hsieh W, Sanchez-Vega F, Brown DN, Da Cruz Paula AF, Morris L, Selenica P, Eichenberger E, Shen R, Schultz N, Rosen N, Scaltriti M, Brogi E, Baselga J, Reis-Filho JS, Chandarlapaty S. \(2018\). Loss of the FAT1 Tumor Suppressor Promotes Resistance to CDK4/6 Inhibitors via the Hippo Pathway. Cancer Cell, Dec;34\(6\):893-905.](#)

[Will M, Qin AC, Toy W, Yao Z, Rodrik-Outmezguine V, Schneider C, Huang X, Monian P, Jiang X, de Stanchina E, Baselga J, Liu N, Chandarlapaty S*, Rosen N.* \(2014\). Rapid induction of apoptosis by PI3K inhibitors is dependent upon their transient inhibition of RAS-ERK signaling. Cancer Discov, Mar;4\(3\):334-47.](#)

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People



Sarat Chandarlapaty, MD, PhD

Patricia and James Cayne Chair for Junior Faculty

Physician-scientist Sarat Chandarlapaty studies the regulation of growth factor signaling networks in cancer.

MD, Wake Forest School of Medicine

PhD, University of North Carolina

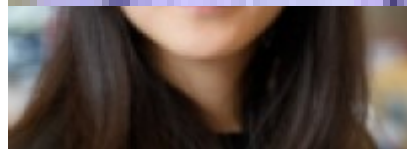
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Catherine Jones
Research Technician



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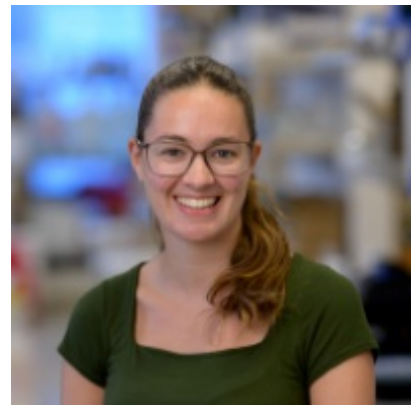
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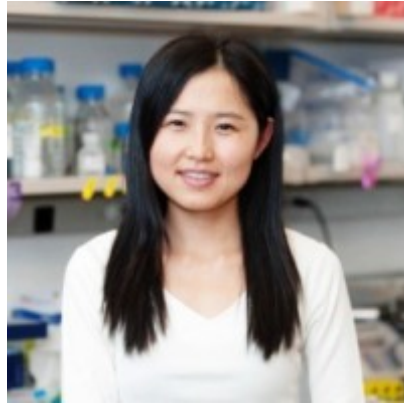
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Elizabeth
O'Connell
Research Technician



Payal Patel
Graduate Student



Hong Shao
Research Lab Manager



Marie Will
Assistant Attending

Lab Alumni
+

Lab Affiliations
+

Achievements

Clinical Investigator Award, Damon Runyon Cancer Research Foundation (2012)

Young Investigator Award, American Society of Clinical Oncology (2007)

Fellow in Biomedical Research, The Dana Foundation (2006)

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Disclosures

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