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[Research](#)

**Sarah Kishinevsky**

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[News & Events](#)

[Open Positions](#)



I am a fifth-year graduate student in the Weill Cornell Medical College Neuroscience program. My project is a collaborative effort between the laboratories of Dr. Gabriela Chiosis and Dr. Lorenz Studer.

Midbrain dopamine neurons selectively degenerate in Parkinson's disease (PD), yet the underlying environmental and genetic stressors that cause the disease are largely not cell-type specific. Numerous studies suggest that heat shock proteins may perpetuate neurodegenerative events. Our goal is to understand the specific role of heat shock proteins in midbrain dopamine neurons during the progression of PD. I use technology developed in Dr. Studer's lab to differentiate human Parkinson's patient induced pluripotent stem cells (iPSCs) into midbrain dopamine neurons and chemical tools developed by the Chiosis lab to assay the role of heat shock proteins in these cells.

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<https://news.weill.cornell.edu/people/dr-sarah-kishinevsky>

## Publications

[Kishinevsky S, Wang T, Rodina A, Chung SY, Xu C, Philip J, Taldone T, Joshi S, Alpaugh ML, Bolaender A, Gutbier S, Sandhu D, Fattahi F, Zimmer B, Shah SK, Chang E, Inda C, Koren J 3rd, Saurat NG, Leist M, Gross SS, Seshan VE, Klein C, Tomishima MJ, Erdjument-Bromage H, Neubert TA, Henrickson RC, Chiosis G\\*, Studer L\\*. HSP90-incorporating chaperome networks as biosensor for disease-related pathways in patient-specific midbrain dopamine neurons. Nat Commun. 2018 Oct 19;9\(1\):4345. doi: 10.1038/s41467-018-06486-6.](#)

[Human iPSC-based modeling of late-onset disease via progerin-induced aging. Miller JD, Ganat YM, Kishinevsky S, Bowman RL, Liu B, Tu EY, Mandal PK, Vera E, Shim JW, Kriks S, Taldone T, Fusaki N, Tomishima MJ, Krainc D, Milner TA, Rossi DJ, Studer L. Cell Stem Cell. 2013 Dec 5;13\(6\):691-705.](#)

[Regulatory chaperone complexes in neurodegenerative diseases: a perspective on therapeutic intervention. Carman A, Kishinevsky S, Koren J 3rd, Luo W, Chiosis G. Curr Alzheimer Res. 2014 Jan;11\(1\):59-68.](#)

[Synthesis and evaluation of cell-permeable biotinylated PU-H71 derivatives as tumor Hsp90 probes. Taldone T, Rodina A, Dagama Gomes EM, Riolo M, Patel HJ, Alonso-Sabadell R, Zatorska D, Patel MR, Kishinevsky S, Chiosis G. Beilstein J Org Chem. 2013 Mar 15;9:544-56.](#)

[Behavioral characterization of cereblon forebrain-specific conditional null mice: a model for human non-syndromic intellectual disability. Rajadhyaksha AM, Ra S, Kishinevsky S, Lee AS, Romanienko P, DuBoff M, Yang C, Zupan B, Byrne M, Daruwalla ZR, Mark W, Kosofsky BE, Toth M, Higgins JJ. Behav Brain Res. 2012 Jan 15;226\(2\):428-34.](#)

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[Overview](#)

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[Core facilities & resources](#)

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[Overview](#)

[Postdoctoral training](#)

[Gerstner Sloan Kettering Graduate School](#)

[Joint graduate programs](#)

[Programs for college & high school students](#)

## ▼ News & Events

[Overview](#)

[Seminars & events](#)

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