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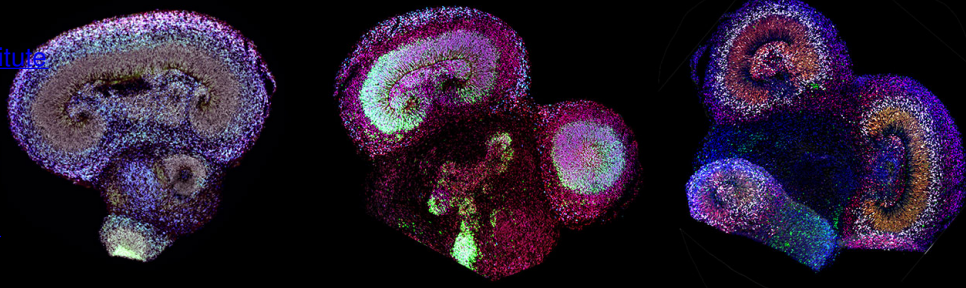


Memorial Sloan Kettering
Cancer Center

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DEVELOPMENTAL BIOLOGY PROGRAM

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The Lorenz Studer Lab

[Developmental Biology Program](#)

Research



Lorenz Studer, MD
Director, Center for Stem Cell Biology

Our laboratory aims at exploiting recent advances in stem cell biology to develop radically new therapies for degenerative disease and cancer. The main focus in the lab is on the biology and application of human embryonic stem (ES) and human induced pluripotent (iPS) cells. Pluripotent stem cells can provide a truly unlimited source for deriving therapeutically relevant cell types for applications in human disease modeling or regenerative medicine.

[View Lab Overview](#) →

Research Projects

The Lorenz Studer Lab

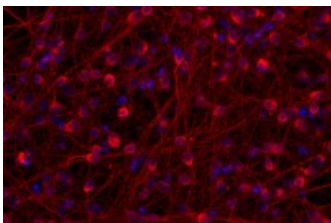
[Directing Fate and Age of Human Pluripotent Stem Cells](#)

[Modeling Human Disease Using Pluripotent Stem Cells](#)

[Human Pluripotent Stem Cells in Cell Therapy](#)

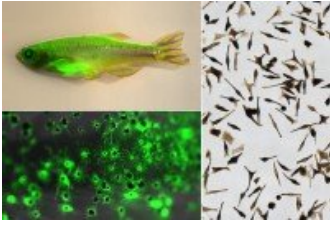


Featured News



[MSK Researchers Hack Neurons' Internal Clocks To Accelerate the Study of Neurological Diseases](#)

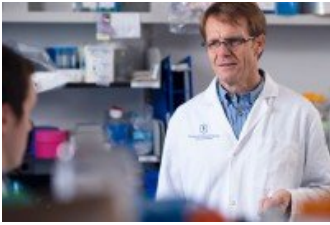
New research led by MSK has uncovered a way to “hack” neurons' internal clocks to speed up their development. The approach promises to accelerate research into neurological disease.



[Why Are Only Some Cells ‘Competent’ to Form Cancer? MSK Scientists Say Context Is Key](#)

Experiments with zebrafish and human pluripotent stem cells reveal the necessary ingredients, besides genetic mutations, that fuel the development of melanoma.

Q&A



[Taking Aim at Parkinson’s Disease: A Conversation with Developmental Biologist Lorenz Studer](#)

In an interview in September 2020, Dr. Studer spoke about what he hopes he and his fellow investigators can accomplish with this generous support.

[View All Featured News](#)

Publications Highlights

Ciceri G, Baggiolini A, Cho HS, Kshirsagar M, Benito-Kwiecinski S, Walsh RM, Aromolaran KA, Gonzalez-Hernandez AJ, Munguba H, Koo SY, Xu N, Sevilla KJ, Goldstein PA, Levitz J, Leslie CS, Koche RP, Studer L. [An epigenetic barrier sets the timing of human neuronal maturation](#). Nature. 2024 Jan 31. doi: 10.1038/s41586-023-06984-8. Online ahead of print. PMID: 38297124

Hergenreder E, Minotti AP, Zorina Y, Oberst P, Zhao Z, Munguba H, Calder EL, Baggiolini A, Walsh RM, Liston C, Levitz J, Garippa R, Chen S, Ciceri G, Studer L. [Combined small-molecule treatment accelerates maturation of human pluripotent stem cell-derived neurons](#). Nat Biotechnol. 2024 Jan 2. doi: 10.1038/s41587-023-02031-z. Online ahead of print. PMID: 38168993

Fan Y, Hackland J, Baggiolini A, Hung LY, Zhao H, Zumbo P, Oberst P, Minotti AP, Hergenreder E, Najjar S, Huang Z, Cruz NM, Zhong A, Sidharta M, Zhou T, de Stanchina E, Betel D, White RM, Gershon M, Margolis KG, Studer L. [hPSC-derived sacral neural crest enables rescue in a severe model of Hirschsprung’s disease](#). Cell Stem Cell. 2023 Mar 2;30(3):264-282.e9. doi: 10.1016/j.stem.2023.02.003. PMID: 36868194

Yang L, Kim TW, Han Y, Nair MS, Harschnitz O, Zhu J, Wang P, Koo SY, Lacko LA, Chandar V, Bram Y, Zhang T, Zhang

W, He F, Pan C, Wu J, Huang Y, Evans T, van der Valk P, Titulaer MJ, Spoor JKH, Furler O'Brien RL, Bugiani M, D J Van de Berg W, Schwartz RE, Ho DD, Studer L, Chen S. [SARS-CoV-2 infection causes dopaminergic neuron senescence.](#) Cell Stem Cell. 2024 Feb 1;31(2):196-211.e6. doi: 10.1016/j.stem.2023.12.012. Epub 2024 Jan 17. PMID: 38237586

Giacomelli E, Vahsen BF, Calder EL, Xu Y, Scaber J, Gray E, Dafinca R, Talbot K, Studer L. [Human stem cell models of neurodegeneration: From basic science of amyotrophic lateral sclerosis to clinical translation.](#) Cell Stem Cell. 2022 Jan 6;29(1):11-35. doi: 10.1016/j.stem.2021.12.008. PMID: 34995492

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People

Lorenz Studer, MD

Director, Center for Stem Cell Biology

The Studer laboratory investigates human stem cells as tools to understand normal and pathological development in the nervous system and to develop cell-based strategies for regenerative medicine.

MD, Universitat Bern

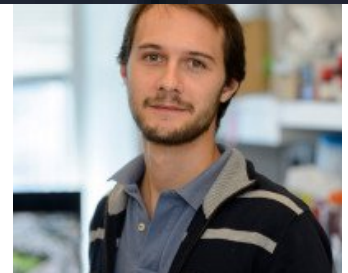
✉ studerl@mskcc.org

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Office Phone

Members



Gabriele Ciceri

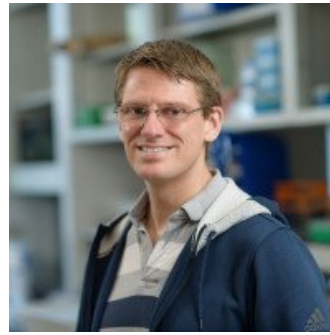
Senior Research Scientist



James Hackland
Senior Research Scientist



Luz Jubierre
Senior Research Scientist



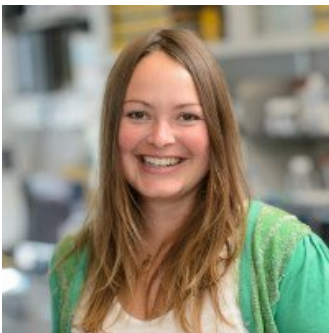
**Johannes
Jungverdorben**
Senior Research Scientist



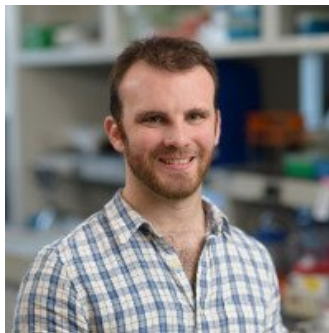
Noopur Khobrekar
Research Fellow



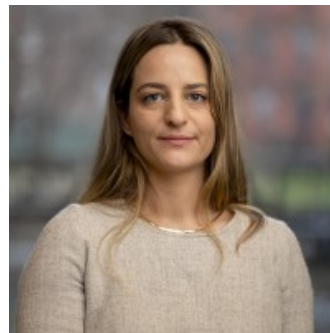
Dylan Ritter
Research Scholar



Nathalie Saurat
Senior Research Scientist



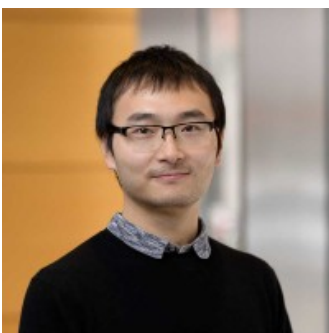
Ryan Walsh
Senior Research Scientist



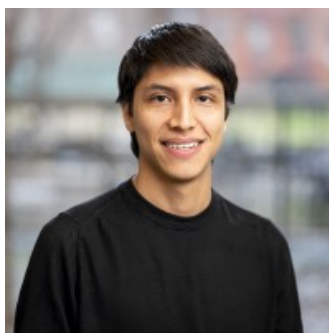
Leslie Weber
Research Associate



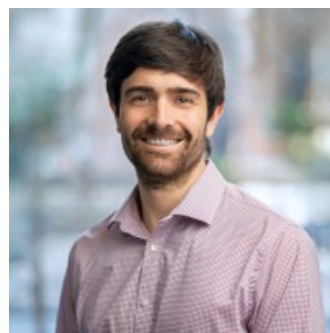
Donghe Yang
Research Fellow



Zhe Yang, PhD
Research Fellow -
NYSTEM Training Award
at the CSCB



**Miguel Chavez
Pachas**
Graduate Student



**Alessandro
Evangelisti**
Graduate Student



Andrew Minotti
Graduate Student



Maliha Rahman
Graduate Student



**Berkiye
Sonustun**
Graduate Student, Rita L.
Montalcini Fellow



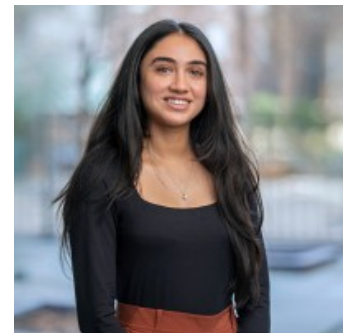
**Xiaoyi "Claire"
Wang**
GSK Student



**Nan
Xu**
Graduate Student



Jalwa Afroz
Research Technician

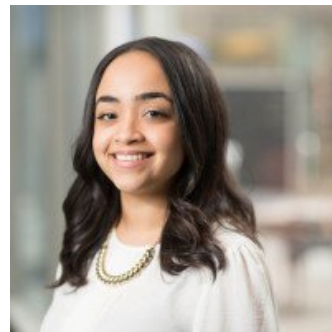


**Param
Amin**
Research Technician



Kaylin Sevilla Lopez
Research Technician

**Trisha
Sikder**
Research Technician



Danaysy Frias
Senior Administrative

Lab Alumni

+

Lab Affiliations

+

Achievements

ISSCR Achievement Award (2022)

Jacob & Louise Gabbay Award in Biotechnology & Medicine (2018)

Ogawa-Yamanaka Stem Cell Prize, Gladstone Institutes (2017)

MacArthur Fellow (2015)

Member, American Society of Clinical Investigation (2014)

Read more

+

Lab News & Events

UPCOMING EVENT

[Genetic, Cellular, and Intercellular Strategies of Human Brain Development](#)

Thursday, May 30, 2024 - 2:00 PM to 3:00 PM

Memorial Sloan Kettering Cancer Center

Rockefeller Research Laboratories

430 East 67th Street

Room RRL-116

New York, NY 10065

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To learn more about compensation and benefits for postdoctoral researchers at MSK, please visit [Resources for Postdocs](#)

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Get in Touch

✉ studerl@mskcc.org

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Lab Phone

Disclosures

Doctors and faculty members often work with pharmaceutical, device, biotechnology, and life sciences companies, and other organizations outside of MSK, to find safe and effective cancer treatments, to improve patient care, and to educate the health care community.

MSK requires doctors and faculty members to report (“disclose”) the relationships and financial interests they have with external entities. As a commitment to transparency with our community, we make that information available to the public.

Lorenz Studer discloses the following relationships and financial interests:

BlueRock Therapeutics

Intellectual Property Rights; Professional Services and Activities

DaCapo Brainscience, Inc.

Equity; Professional Services and Activities (Uncompensated)

Fujifilm Cellular Dynamics, Inc.

Intellectual Property Rights

Luxa Biotechnology, LLC

Professional Services and Activities

Neurona Therapeutics

Equity; Professional Services and Activities (Uncompensated)

Roche

Professional Services and Activities

Rumi Scientific, Inc.

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Vita Therapeutics, Inc.

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This page and data include information for a specific MSK annual disclosure period (January 1, 2022 through disclosure submission in spring 2023). This data reflects interests that may or may not still exist. This data is updated annually.

Learn more about MSK's COI policies [here](#). For questions regarding MSK's COI-related policies and procedures, email MSK's Compliance Office at ecoi@mskcc.org.

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