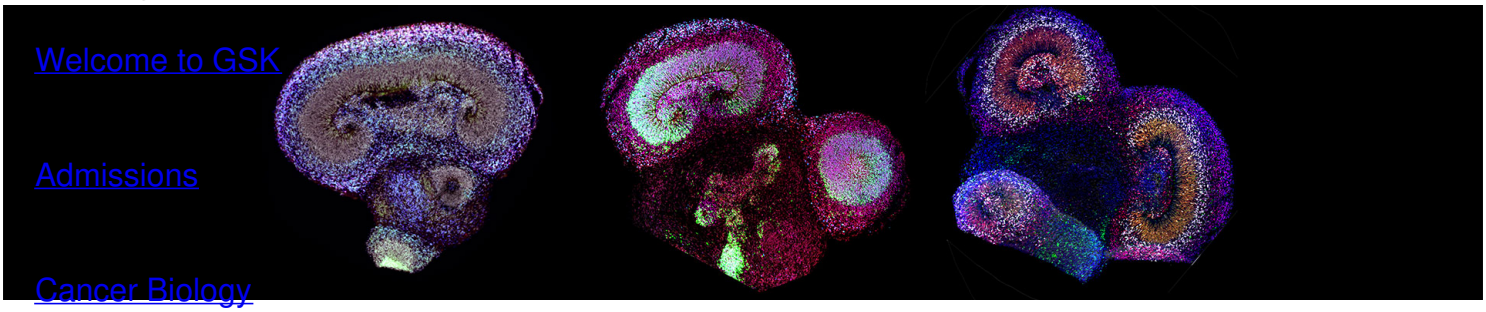
Gerstner Sloan Kettering
Graduate School of Biomedical Sciences



Welcome to GSK

Admissions

Cancer Biology

DEVELOPMENTAL BIOLOGY PROGRAM

Cancer Engineering

The Lorenz Studer Lab

Research

Research

Alumni

Lorenz Studer, MD
Director, Center for Stem Cell Biology

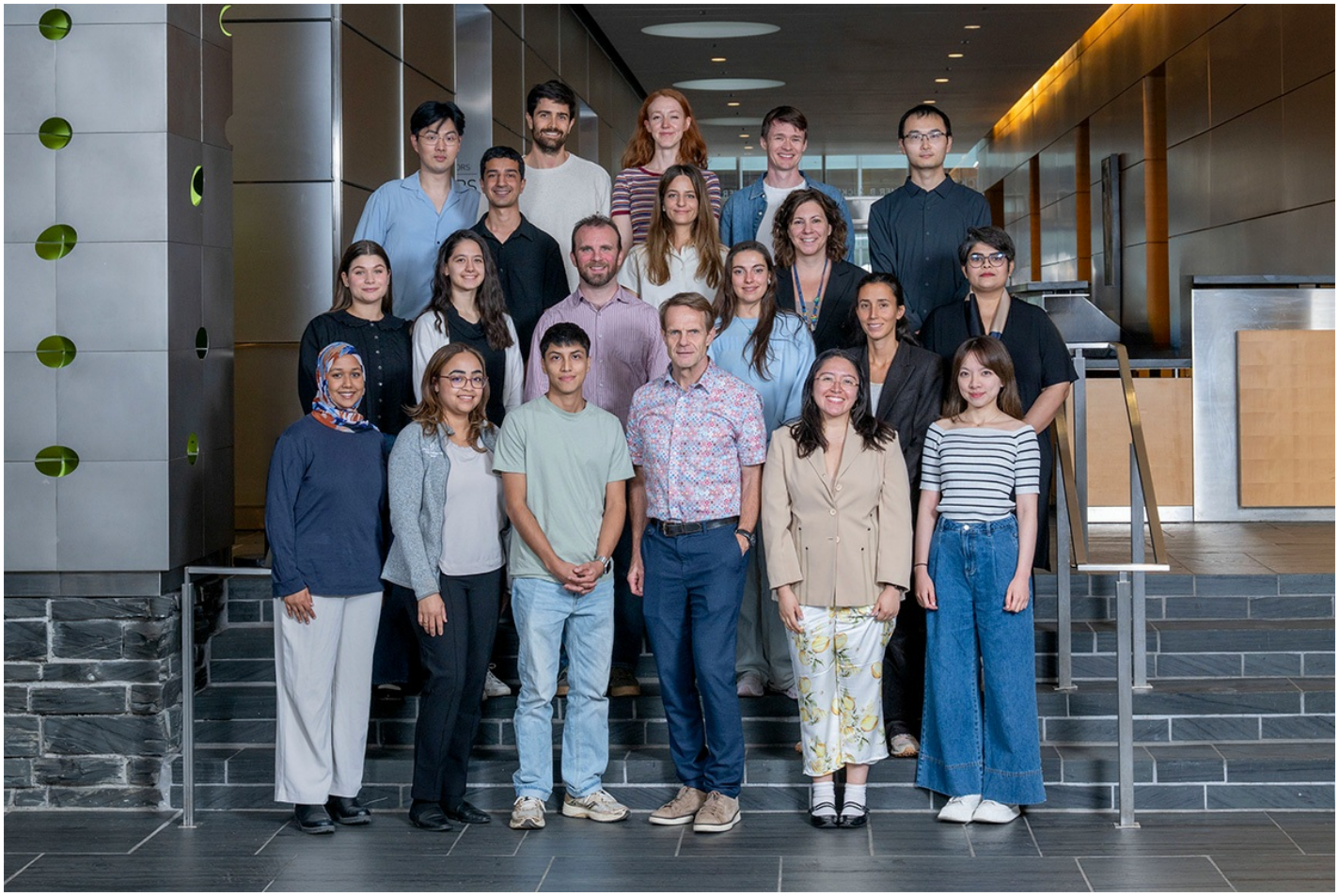
Professor

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.

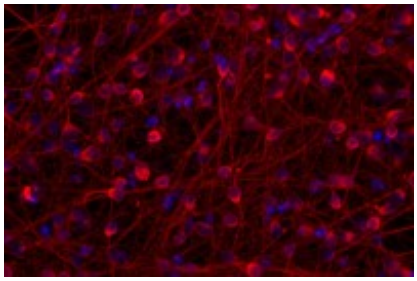
View Lab Overview (https://www.sloankettering.edu/research-areas/labs/lorenz-studer/overview)

Research Projects

- Directing Fate and Age of Human Pluripotent Stem Cells
- Modeling Human Disease Using Pluripotent Stem Cells
- Human Pluripotent Stem Cells in Cell Therapy

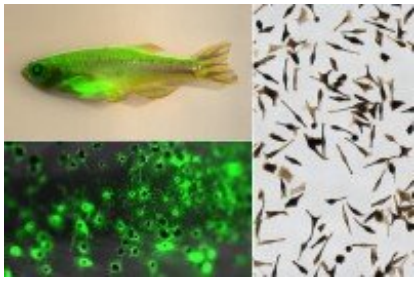


Featured News



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

Chan YH, Liu Z, Bastard P, Khobrekar N, Hutchison KM, Yamazaki Y, Fan Q, Matuozzo D, Harschnitz O, Kerrouche N, Nakajima K, Amin P, Yatim A, Rinchai D, Chen J, Zhang P,

Ciceri G, Chen J, Dobbs K, Belkaya S, Lee D, Gervais A, Aydın K, Kartal A, Hasek ML, Zhao S, Reino EG, Lee YS, Seeleuthner Y, Chaldebas M, Bailey R, Vanhulle C, Lorenzo L, Boucherit S, Rozenberg F, Marr N, Mogensen TH, Aubart M, Cobat A, Dulac O, Emiroglu M, Paludan SR, Abel L, Notarangelo L, Longnecker R, Smith G, Studer L., Casanova JL, Zhang SY. Human TMEFF1 is a restriction factor for herpes simplex virus in the brain. Nature. 2024 Jul 24. doi: 10.1038/s41586-024-07745-x. PMID: 39048830

Kim TW, Koo SY, Riessland M, Chaudhry F, Kolisnyk B, Cho HS, Russo MV, Saurat N, Mehta S, Garippa R, Betel D, Studer L. TNF-NF-κB-p53 axis restricts in vivo survival of hPSC-derived dopamine neurons. Cell. 2024 Jul 11;187(14):3671-3689.e23. doi: 10.1016/j.cell.2024.05.030. Epub 2024 Jun 11. PMID: 38866017

Saurat N, Minotti AP, Rahman MT, Sikder T, Zhang C, Cornacchia D, Jungverdorben J, Ciceri G, Betel D, Studer L. Genome-wide CRISPR screen identifies neddylation as a regulator of neuronal aging and AD neurodegeneration. Cell Stem Cell. 2024 Aug 1;31(8):1162-1174.e8. doi: 10.1016/j.stem.2024.06.001. Epub 2024 Jun 24. PMID: 38917806

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de Luzy IR, Lee MK, Mobley WC, Studer L. Lessons from inducible pluripotent stem cell models on neuronal senescence in aging and neurodegeneration. Nat Aging. 2024 Mar;4(3):309-318. doi: 10.1038/s43587-024-00586-3. Epub 2024 Mar 1. PMID: 38429379

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. PMID: 38297124

View All Publications

People

Lorenz Studer, MD

Director, Center for Stem Cell Biology

Professor

- 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

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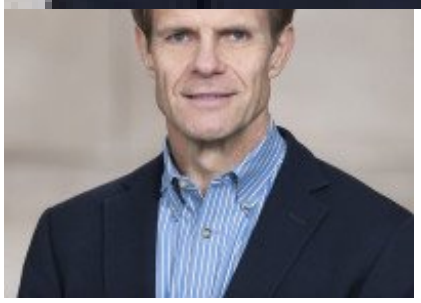
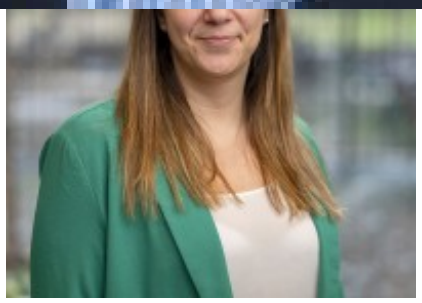
Office Phone

Members



Lorenz Studer
Member



Marta Lisi
Lab Manager

Lab

Alumni

Lab Affiliations

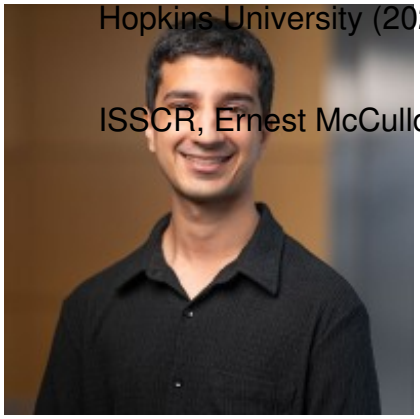
Achievements

- Member, National Academy of Medicine (2024)
- Helis Foundation Prize for Parkinson's disease and Neurodegenerative Research, John's

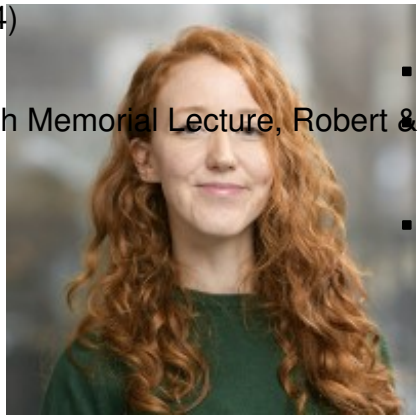
Hopkins University (2024)

ISSCR, Ernest McCulloch Memorial Lecture, Robert & Claire Pasarow Foundation Award (2019)

- ISSCR Achievement Award (2022)
- Jacob & Louise Gabbay Award in Biotechnology & Medicine (2018)



Giridhar Anand
Research Fellow



Silvia Benito Kwiecinski
Research Fellow

Vittoria Bocchi
Research Associate

James Hackland
Senior Research Scientist

Luz Jubierre
Senior Research Scientist

Noopur Khobrekar
Research Fellow

Open Positions

To learn more about available postdoctoral opportunities, please visit our Career Center

To learn more about compensation and benefits for postdoctoral researchers at MSK, please visit Resources for Postdocs

Career Opportunities

Apply

now (https://www.sloankettering.edu/research-areas/labs/lorenz-studer/postdoctoral-fellow-oligodendrocyte-vivo-work-department-neurosurgery)

Get in Touch

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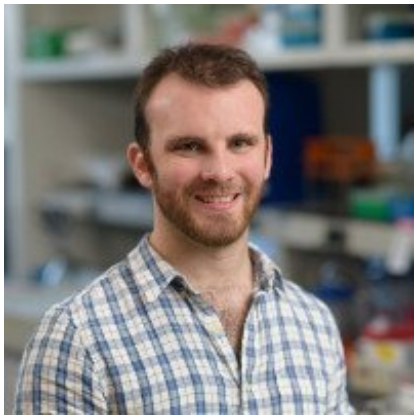
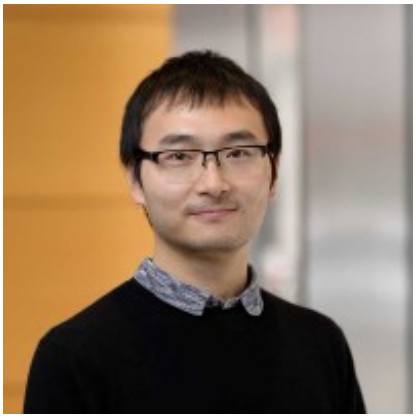
Lab Head Email



Ryan Walsh
Senior Research Scientist

Leslie Weber
Research Scholar - NYSTEM Training Award at the CSCB

Donghe Yang
Research Fellow



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

Alessandro Evangelisti
Graduate Student

Miguel Chavez Pachas
Graduate Student

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Disclosures

Members of the MSK Community 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. These activities outside of MSK further our mission, provide productive collaborations, and promote the practical application of scientific discoveries.

MSK requires doctors, faculty members, and leaders 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. Not all disclosed interests and relationships present conflicts of interest. MSK reviews all disclosed interests and relationships to assess whether a conflict of interest exists and whether formal COI management is needed.

Lorenz Studer discloses the following relationships and financial interests:

- BlueRock Therapeutics

Brea Chernokal

Graduate Student

Maliha Rahman

Graduate Student

Xiaoyi "Claire" Wang

Graduate Student

Carol Alata

MSK Bridge Scholar

Kaylin Sevilla Lopez

Research Technician

Adrianne Nemchik

Research Technician

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

- Roche

Professional Services and Activities

- Rumi Scientific, Inc.

Equity; Professional Services and Activities (Uncompensated)

- Vita Therapeutics, Inc.

Equity; Professional Services and Activities (Uncompensated)

The information published here is a complement to other publicly reported data and is for a specific annual disclosure period. There may be differences between information on this and other public sites as a result of different reporting periods and/or the various ways relationships and financial interests are categorized by organizations that publish such data.

This page and data include information for a specific MSK annual disclosure period (January 1, 2024 through disclosure submission in spring 2025). 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 .

View all disclosures (https://www.sloankettering.edu/disclosures)

Danaysy Frias

Senior Administrative Assistant