



Gerstner Sloan Kettering  
Graduate School of Biomedical Sciences

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CELL BIOLOGY PROGRAM

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## The Philipp Niethammer Lab

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Faculty

[Cancer Engineering](#)

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Philipp Niethammer, PhD

Professor

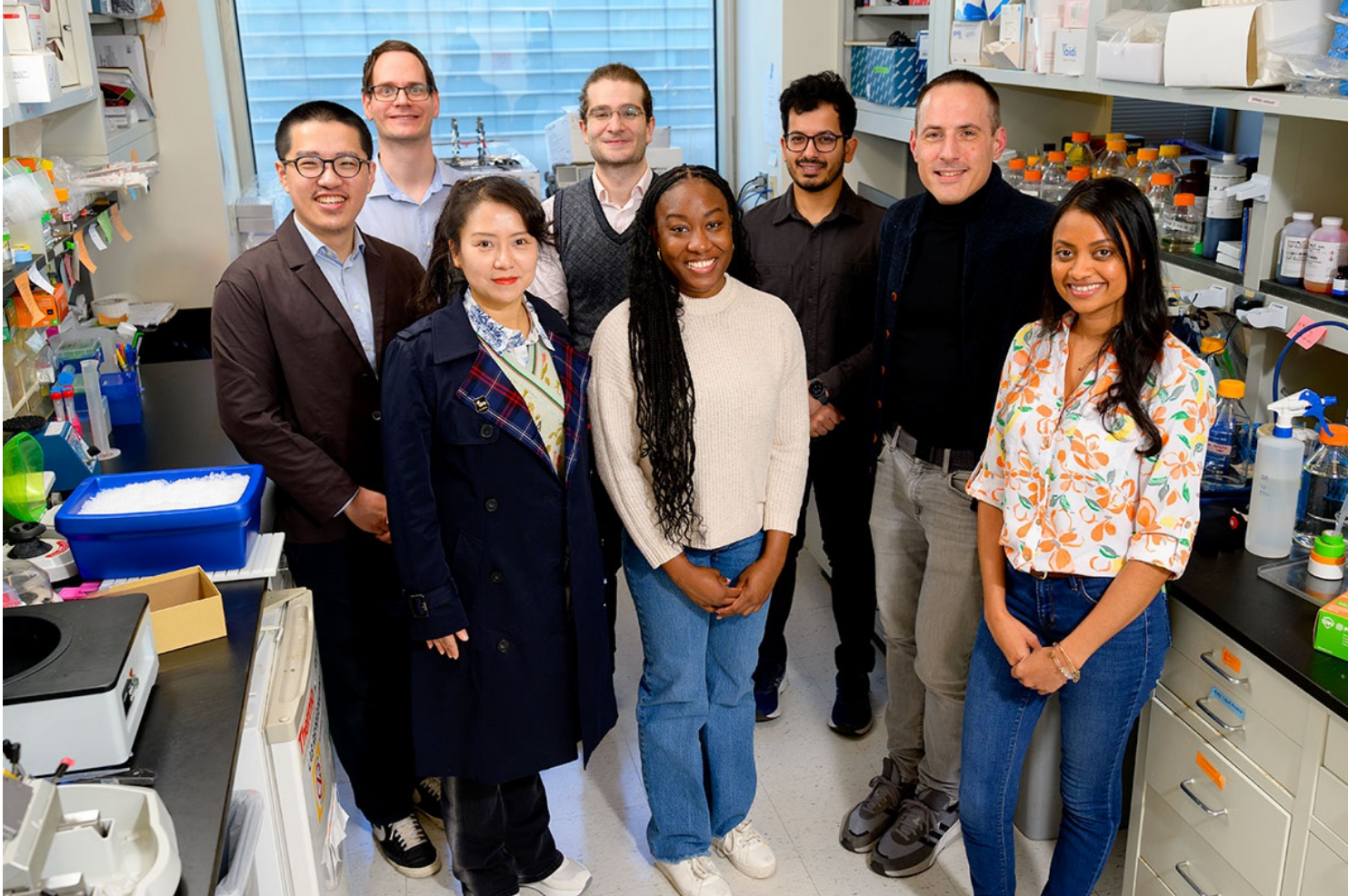
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Interdisciplinary approaches to wound healing, inflammation and regeneration.

[View Lab Overview](#) →

## Research Projects

### [Projects](#)



## Featured News



[Go Fish: Why MSK Researchers Use Zebrafish To Study a Cancer-Linked Inflammation Pathway](#)

A study led by postdoctoral researcher Yanan Ma from the lab of cell biologist Philipp Niethammer shows why diversity also matters in model animal research.

#### FINDING



### [Don't Scratch That Mole? Scientists Are Learning More about Inflammation and Cancer](#)

It's not only what's inside your cells that determines your cancer risk. It's what surrounds them too.

## Publications

Katikaneni A, Jelcic M, Gerlach GF, Ma Y, Overholtzer M, Niethammer P. Lipid peroxidation regulates long-range wound detection through 5-lipoxygenase in zebrafish. *Nat Cell Biol.* 2020 Sep;22(9):1049–1055. PMID: 32868902

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Riegman M, Sagie L, Galed C, Levin T, Steinberg N, Dixon SJ, Wiesner U, Bradbury MS, Niethammer P, Zaritsky A, Overholtzer M. Ferroptosis occurs through an osmotic mechanism and propagates independently of cell rupture. *Nat Cell Biol.* 2020 Aug 31; PMID: 32868903

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Jelcic M, Wang K, Hui KL, Cai X-C, Enyedi B, Luo M, Niethammer P. A Photo-clickable ATP-Mimetic Reveals Nucleotide Interactors in the Membrane Proteome. *Cell Chem Biol.* 2020 Aug 20;27(8):1073–1083.e12. PMID: 32521230

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Stoddard M, Huang C, Enyedi B, Niethammer P. Live imaging of leukocyte recruitment in a zebrafish model of chemical liver injury. *Sci Rep.* 2019 Jan 10;9(1):28. PMCID: PMC6328554

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Jelcic M, Enyedi B, Niethammer P. Quantitative imaging of endogenous and exogenous H<sub>2</sub>O<sub>2</sub> gradients in live zebrafish larvae. *Methods Mol Biol.* 2019;1982:283–299. PMID: 31172479

## People




Philipp Niethammer, PhD


*Professor*

Cell biologist Philipp Niethammer investigates tissue damage responses with advanced imaging approaches in zebrafish.

PhD, European Molecular Biology Laboratory, Heidelberg, Germany

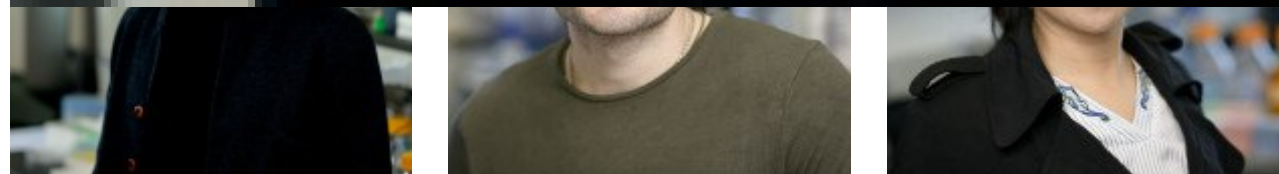
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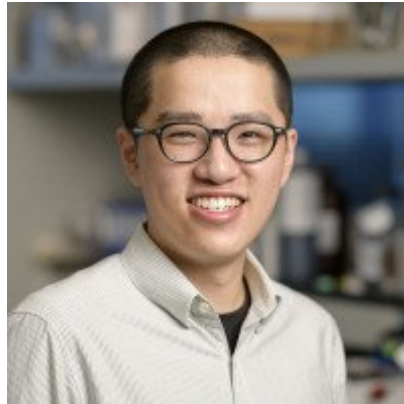
## Members





Philipp  
Niethammer  
Principal Investigator

Zaza Gelashvili  
Graduate Student



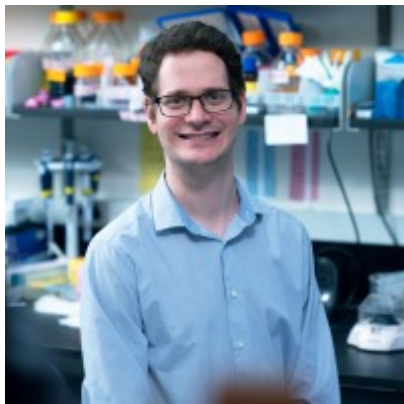
Yanan Ma  
Research Scholar



Zhouyang Shen  
Graduate Student



Tiseanie Hibbert  
Research Technician



Miklos Lengyel  
Research Scholar

Sriivatsan Govinda  
Rajan  
Research Fellow

Hansranie Singh  
Administrative Assistant

Lab Alumni  
+

Lab Affiliations  
+

## Achievements

Dorsett L. Spurgeon Distinguished Research Award (2009)

Louis Gerstner Young Investigator (2012)

American Asthma Foundation Scholar (2014)

Louise and Allston Boyer Young Investigator Award (2018)

## 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](#)

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## Career Opportunities

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## Get in Touch

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## 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.

Philipp Niethammer discloses the following relationships and financial interests:

American Association for Anatomy

Professional Services and Activities (Uncompensated)

American Society for Biochemistry and Molecular Biology

Professional Services and Activities (Uncompensated)

American Society for Cell Biology (ASCB)

Professional Services and Activities (Uncompensated)

European Molecular Biology Organization

Professional Services and Activities (Uncompensated)

National University of Singapore

Professional Services and Activities (Uncompensated)

University of Virginia

Professional Services and Activities

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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.

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