



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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Philipp Niethammer, PhD

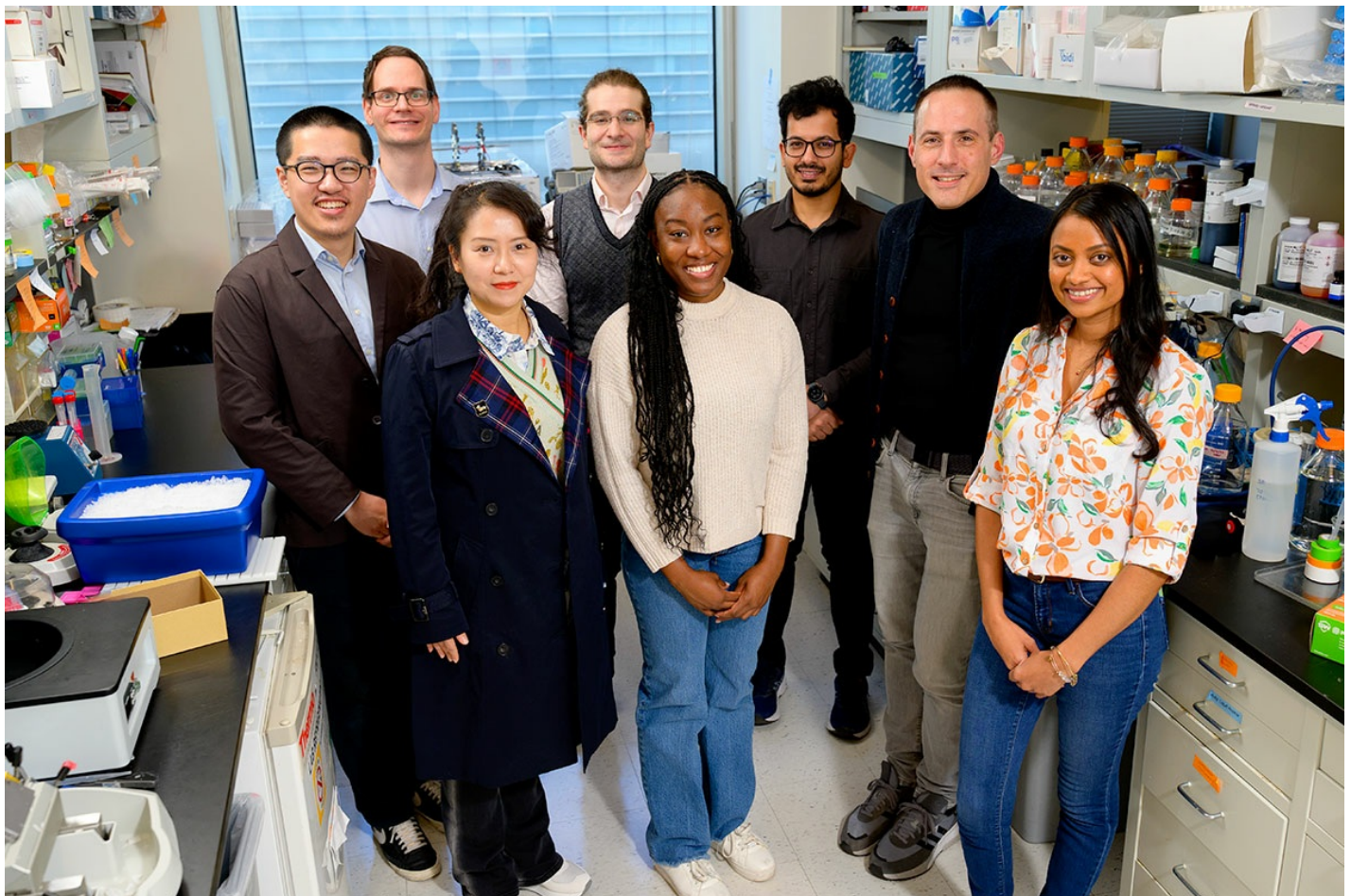
Professor

Interdisciplinary approaches to wound healing, inflammation and regeneration.

[View Lab Overview \(https://www.sloankettering.edu/research-areas/labs/philipp-niethammer/overview\)](https://www.sloankettering.edu/research-areas/labs/philipp-niethammer/overview)

Research Projects

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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 Highlights

[Ma Y, Hui KL, Gelashvili Z, Niethammer P. Oxoeicosanoid signaling mediates early antimicrobial defense in zebrafish. Cell Rep. 2023 Jan 31;42\(1\):111974. PMID: 36640321. PMC36640321](#)

[Shen Z, Lengyel M, Niethammer P. The yellow brick road to nuclear membrane mechanotransduction. APL Bioeng. 2022 Mar 25;6\(2\):021501. PMID: 35382443. PMC35382443](#)

[Shen Z, Belcheva KT, Jelcic M, Hui KL, Katikaneni A, Niethammer P. A synergy between](#)

[mechanosensitive calcium- and membrane-binding mediates tension-sensing by C2-like domains. Proc Natl Acad Sci U S A. 2022 Jan 4;119\(1\):e2112390119. PMID: 34969839. PMC34969839](#)

[Niethammer P. Components and Mechanisms of Nuclear Mechanotransduction. Annu Rev Cell Dev Biol. 2021 Oct 6;37:233-256. PMID: 34213953. PMC34213953](#)

[Katikaneni A, Jelcic M, Gerlach GF, Ma Y, Overholtzer M, Niethammer P. Author Correction: Lipid peroxidation regulates long-range wound detection through 5-lipoxygenase in zebrafish. Nat Cell Biol. 2021 May;23\(5\):566. PMID: 33850303. PMC33850303](#)

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People



Philipp Niethammer, PhD

Professor

- Cell biologist Philipp Niethammer investigates cell fate responses with advanced imaging approaches in zebrafish
- PhD, European Molecular Biology Laboratory, Heidelberg University, Germany

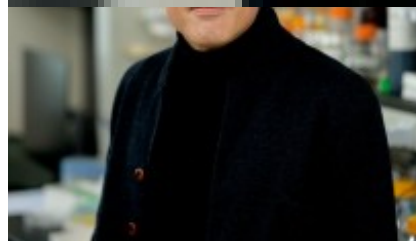
✉ niethamp@mskcc.org

Email Address

☎ [212-639-5332](tel:212-639-5332)

Office Phone

Members



Philipp Niethammer
Principal Investigator



Zaza Gelashvili
Graduate Student

Lab Affiliations

Achievements

- Dorsett L. Spurgeon Distinguished Research Award (2009)
- Louis Gerstner Young Investigator

- (2012)



Yanan Ma
Research Scholar



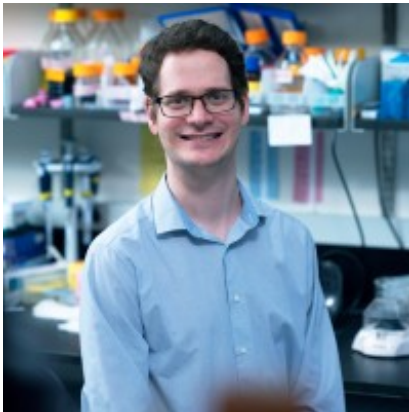
Tiseanie Hibbert
Research Technician

- 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](#)



Miklos Lengyel
Research Scholar

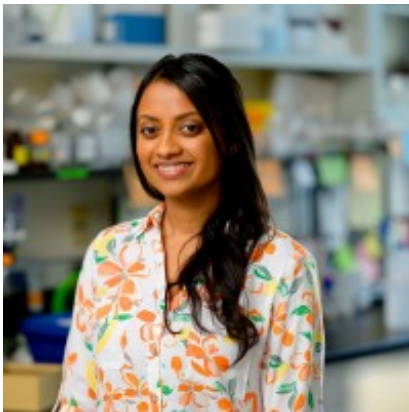


Sriivatsan Govinda Rajan
Research Fellow

Career Opportunities

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Hansranie Singh
Administrative Assistant

Get in Touch

✉ niethamp@mskcc.org

Lab Head Email

☎ [212-639-5332](tel:212-639-5332)

Office Phone

☎ [212-639-4998](tel:212-639-4998)

Lab Phone

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.

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 Laboratory**
Professional Services and Activities (Uncompensated)
- **European Molecular Biology Organization**
Professional Services and Activities (Uncompensated)
- **Gordon Research Conferences**
Professional Services and Activities (Uncompensated)
- **Mount Sinai Health System**
Professional Services and Activities
- **National University of Singapore**
Professional Services and Activities (Uncompensated)
- **University of Virginia**
Professional Services and Activities

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 .

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