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CELL BIOLOGY PROGRAM

# The Philipp Niethammer Lab

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Philipp Niethammer, PhD

Professor

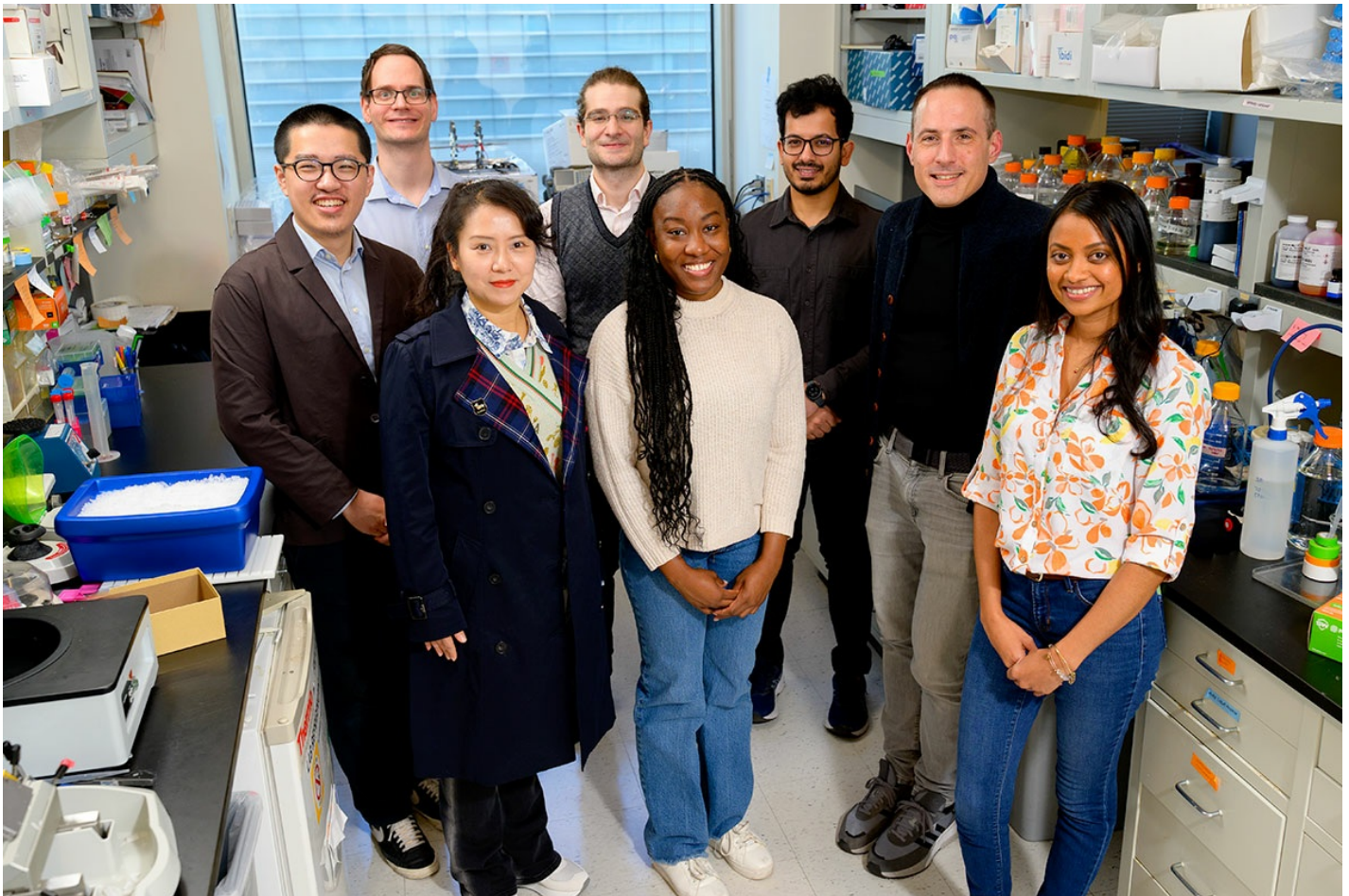
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Interdisciplinary approaches to wound healing, inflammation and regeneration.

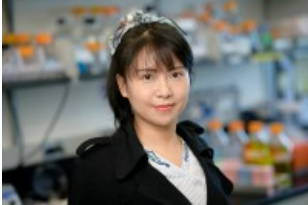
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## Research Projects

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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](#)

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

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[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](#)

[View All Publications](#)

## People

# Philipp Niethammer, PhD

*Professor*

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

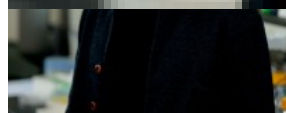
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## Members



Philipp Niethammer  
Principal Investigator



Zaza Gelashvili  
Graduate Student

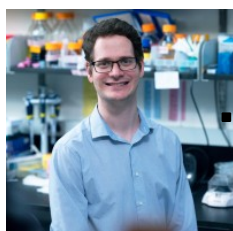


Yanan Ma  
Research Scholar



Tiseanie Hibbert  
Research Technician

## Lab Affiliations



Miklos Lengyel

## Achievements

Dorsett L. Spurgeon  
Distinguished Research Award

(2009)

▪ Louis Gerstner Young Investigator (2012)

Research Scholar



- American Asthma Foundation Scholar (2014)
- Louise and Allston Boyer Young Investigator Award (2018)

Sriivatsan Govinda Rajan  
Research Fellow

## Open Positions

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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

Hansranie Singh

Administrative Assistant [Apply now \(https://www.sloankettering.edu/research-areas/labs/philipp-niethammer/career-opportunities\)](https://www.sloankettering.edu/research-areas/labs/philipp-niethammer/career-opportunities)

## Get in Touch

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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.

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

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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](mailto:ecoi@mskcc.org) .

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