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Cancer Center

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The Tobias Hohl Lab

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FOR THE MEDIA





Tobias M. Hohl, MD, PhD

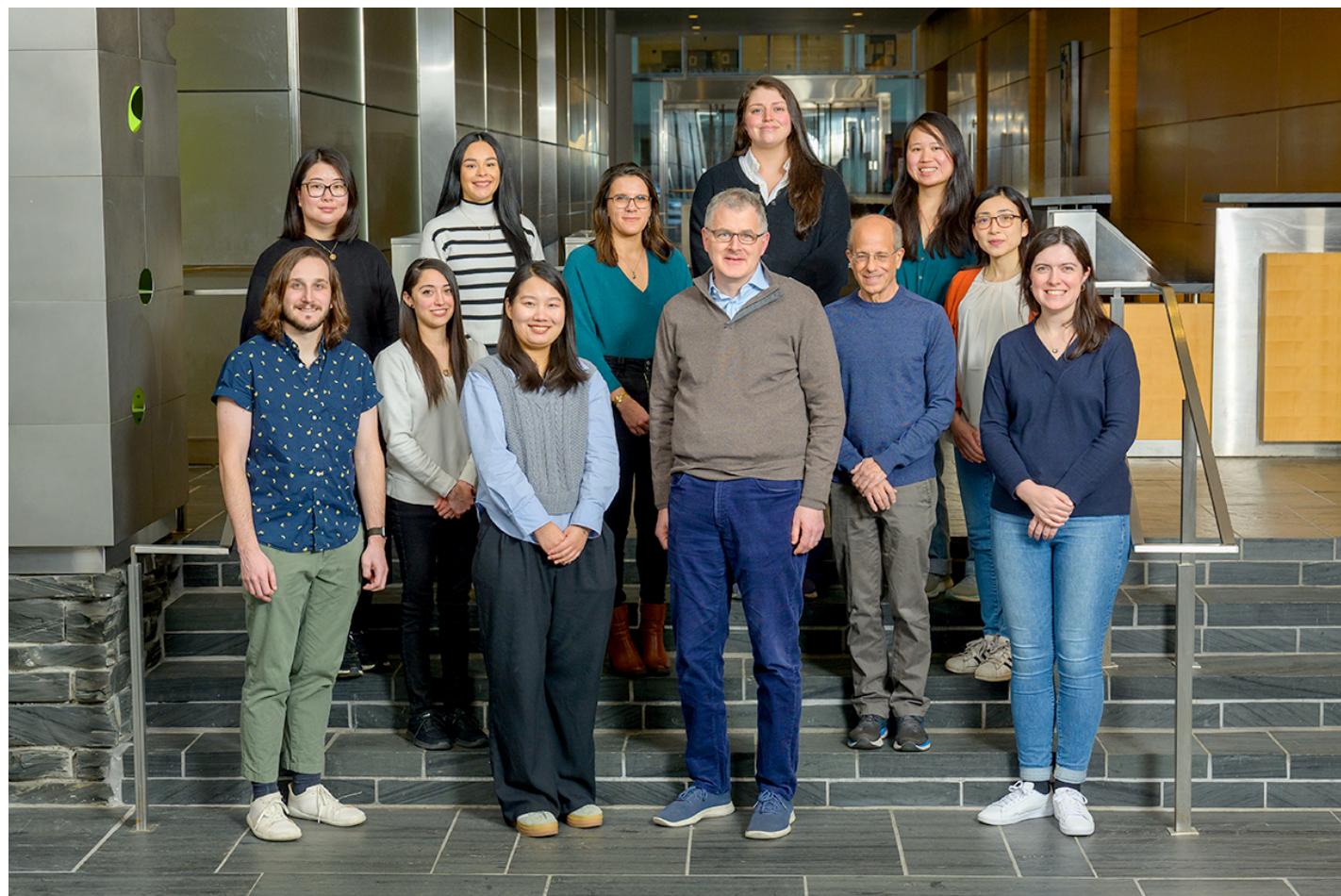
Attending Physician; Member; Chief, Infectious Diseases and Allergy Service

The focus of my research program is to decipher the molecular and cellular basis of immunity against *Candida* and *Aspergillus* species, major causative agents of invasive mycoses in patients with cancer. We have developed fluorescence-based reporters of fungal physiology to examine the outcome of fungal cell-host cell interactions with single-encounter resolution at the portal of infection. Fluorescent *Aspergillus* reporter (FLARE) conidia (i.e., vegetative spores, the infectious fungal propagule) change their fluorescence properties when phagocytes inactivate fungal cells at the portal of infection (Figure 1). Using this bioreporter, we quantify host leukocytes on the basis of

fungal cell uptake and killing of internalized conidia.

This technique enables us to examine leukocyte effectors implicated in fungal uptake and killing, identify and functionally characterize the antifungal activities of neutrophils, monocytes, plasmacytoid dendritic cells, and epithelial cells, and to analyze fungal genetic circuits implicated in pathogenesis. A major goal of this research is to develop an integrated model of sterilizing barrier immunity against inhaled mold pathogens.

[View Lab Overview](https://www.mskcc.org/research-areas/labs/tobias-hohl/overview) (<https://www.mskcc.org/research-areas/labs/tobias-hohl/overview>)

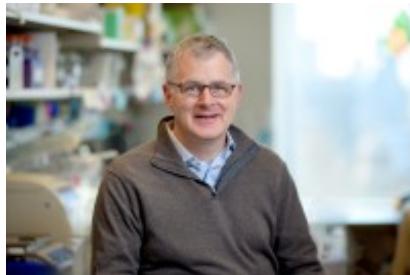


Featured News



[MSK Researchers Discover Source of Deadly Fungal Infections in Bone Marrow Transplant Patients, New Study Finds](#)

A team of researchers led by Memorial Sloan Kettering Cancer Center (MSK) and collaborators at Emory University are shedding new light on deadly fungal infections that develop in bone marrow transplant patients.



[Tobias M. Hohl Elected a 2022 AAAS Fellow](#)

Tobias M. Hohl, MD, PhD, Chief of the Infectious Diseases Service in the Department of Medicine, was elected a 2022 Fellow of the American Association for the Advancement of Science (AAAS), the world's largest scientific society and publisher of the Science journals. This title is one of the most distinguished honors within the scientific community and is designed to recognize leaders for their notable contributions to science.

SCIENCE BYTE



[Insight into How Lungs Repel Infection Could Guide Therapies for Transplant Patients](#)

Learn how immune cells in the lungs trigger invasive fungal cells to self-destruct. The discovery

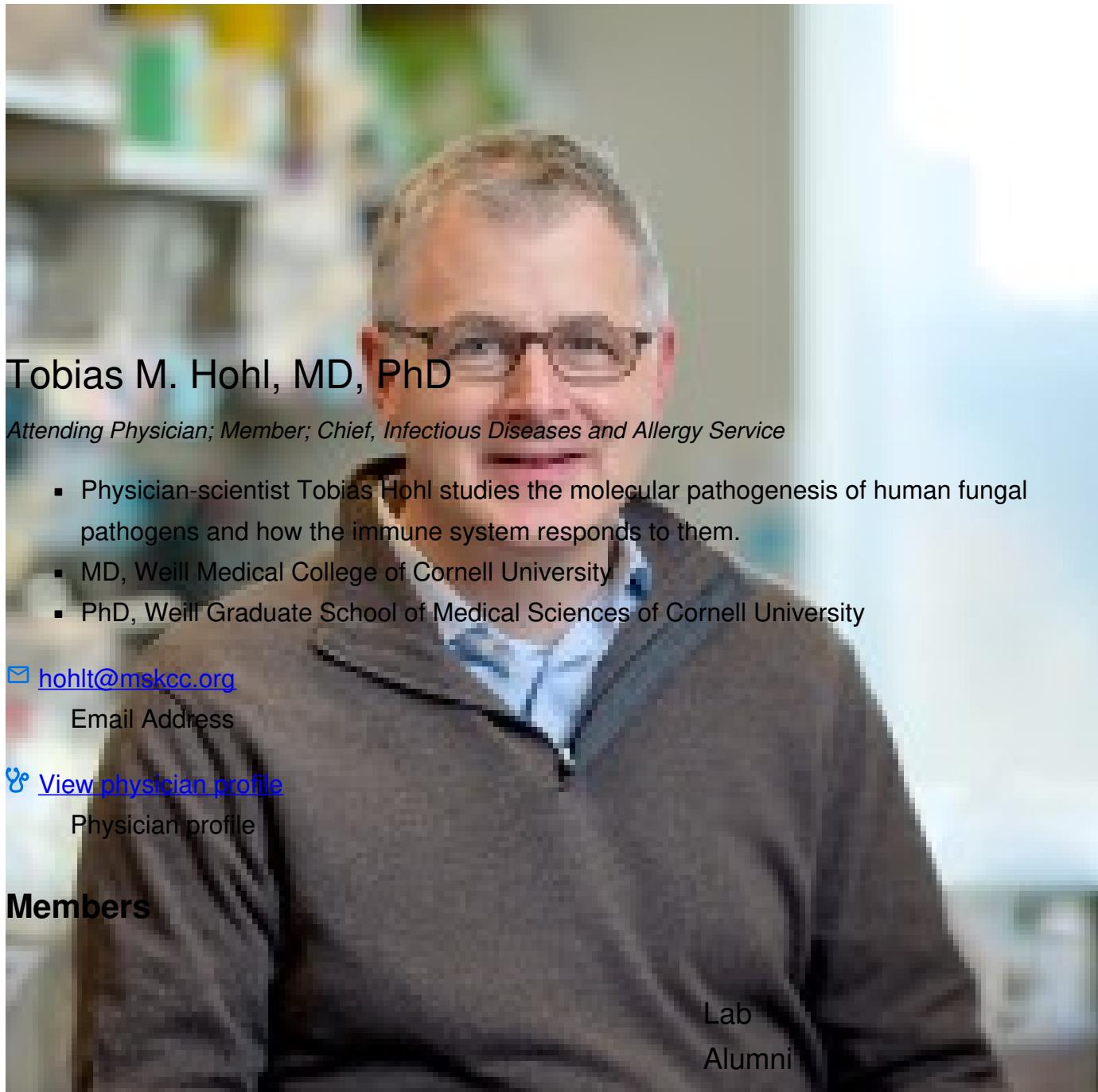
could produce therapies to prevent infection in cancer patients.

Publications Highlights

[GM-CSF-mediated epithelial-immune cell cross-talk orchestrates pulmonary immunity to Aspergillus fumigatus - PubMed](#)

[View All Publications](#)

People



Tobias M. Hohl, MD, PhD

Attending Physician; Member; Chief, Infectious Diseases and Allergy Service

- Physician-scientist Tobias Hohl studies the molecular pathogenesis of human fungal pathogens and how the immune system responds to them.
- MD, Weill Medical College of Cornell University
- PhD, Weill Graduate School of Medical Sciences of Cornell University

 hohlt@mskcc.org

Email Address

 [View physician profile](#)

Physician profile

Members

Lab

Alumni

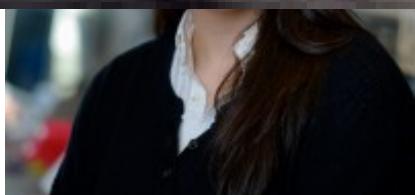
Lab Affiliations

Achievements



Tobias Hohl

Chief, Infectious Diseases and
Allergy Service



Audrey Billips

Research Technician

- Fellow, American Academy of Microbiology (2021)

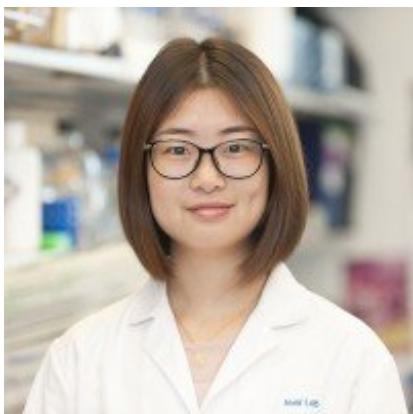
- Member, American Society of Clinical Investigation (2016)
- Investigator in the Pathogenesis of Infectious Diseases, Burroughs Wellcome Fund (2014)
- Fellow, Infectious Diseases Society of America (2012)



Young Investigator Award, American Society of Microbiology (2009)

Open Positions

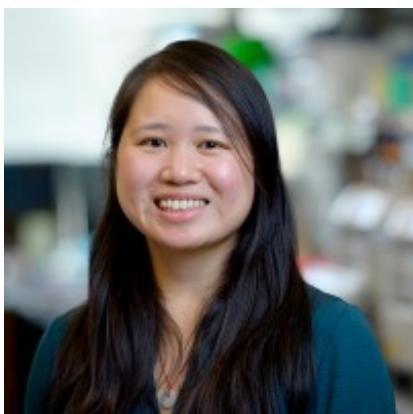
To learn more about available postdoctoral opportunities, please visit our [Career Center](#)



Yahui Guo
Research Fellow



Fitty Liu
Graduate Student



Katrina Mar
Research Fellow



Kennedy Mitchell
MSK Bridge Program Scholar

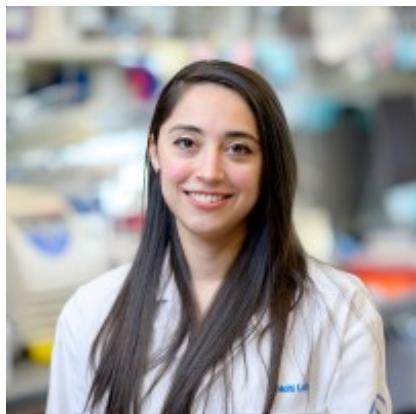
[now \(<https://www.mskcc.org/research-areas/labs/tobias-hohl/career-opportunities>\)](https://www.mskcc.org/research-areas/labs/tobias-hohl/career-opportunities)

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Cristine Salinas
Graduate Student

Ayesha Salman

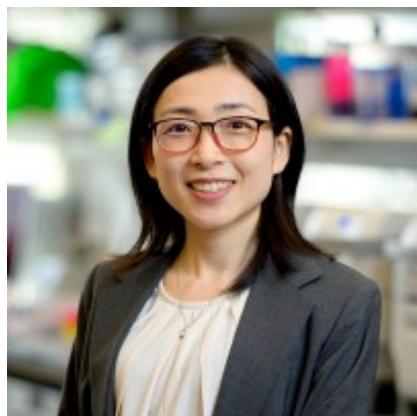
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Samantha Shanker

Senior Administrative Assistant

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Keiko Yasuma-Mitobe
Research Fellow

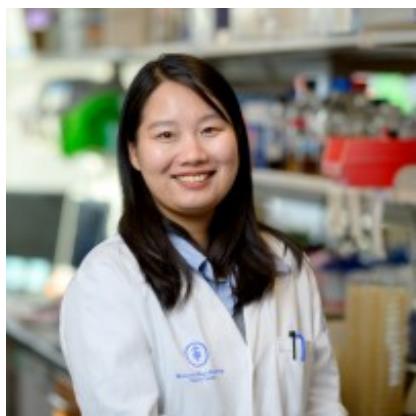
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Disclosures

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.



Yao Yu
Research Scholar

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.

Tobias M. Hohl discloses the following relationships and financial interests:

No disclosures meeting criteria for time period

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 \(https://www.mskcc.org/disclosures\)](https://www.mskcc.org/disclosures)

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