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IMMUNOLOGY PROGRAM

# **The Jayanta Chaudhuri Lab**

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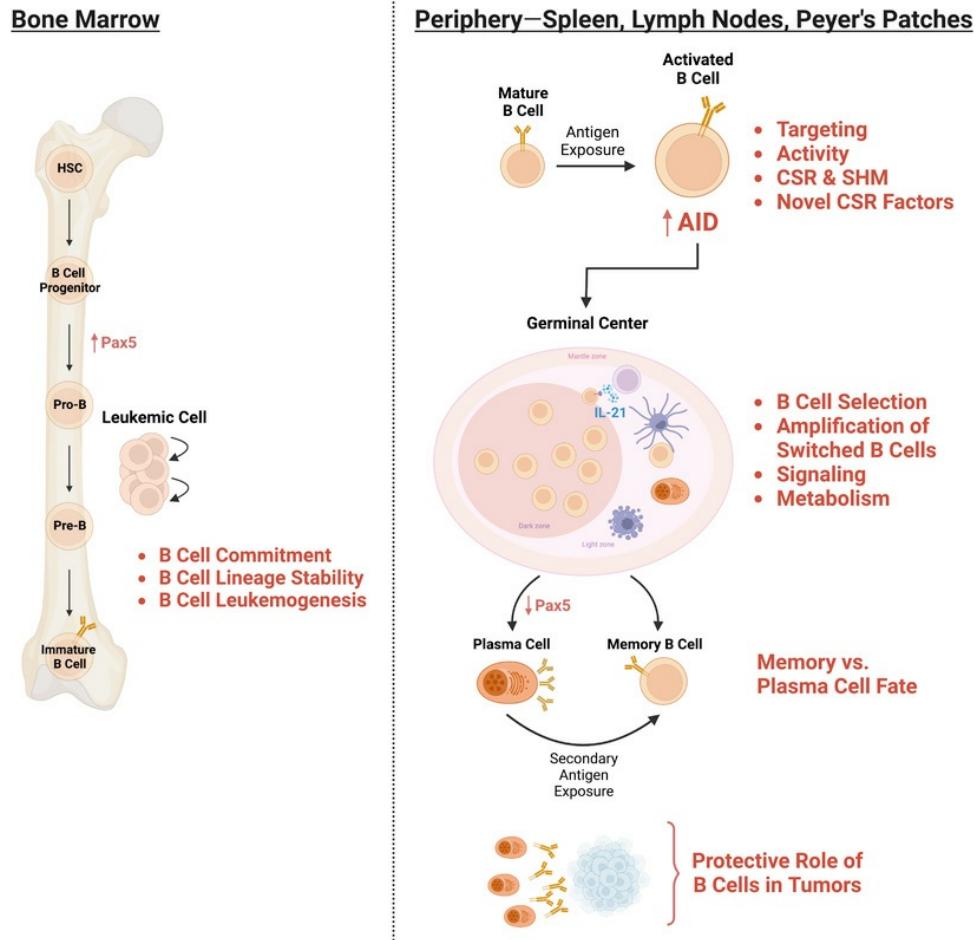
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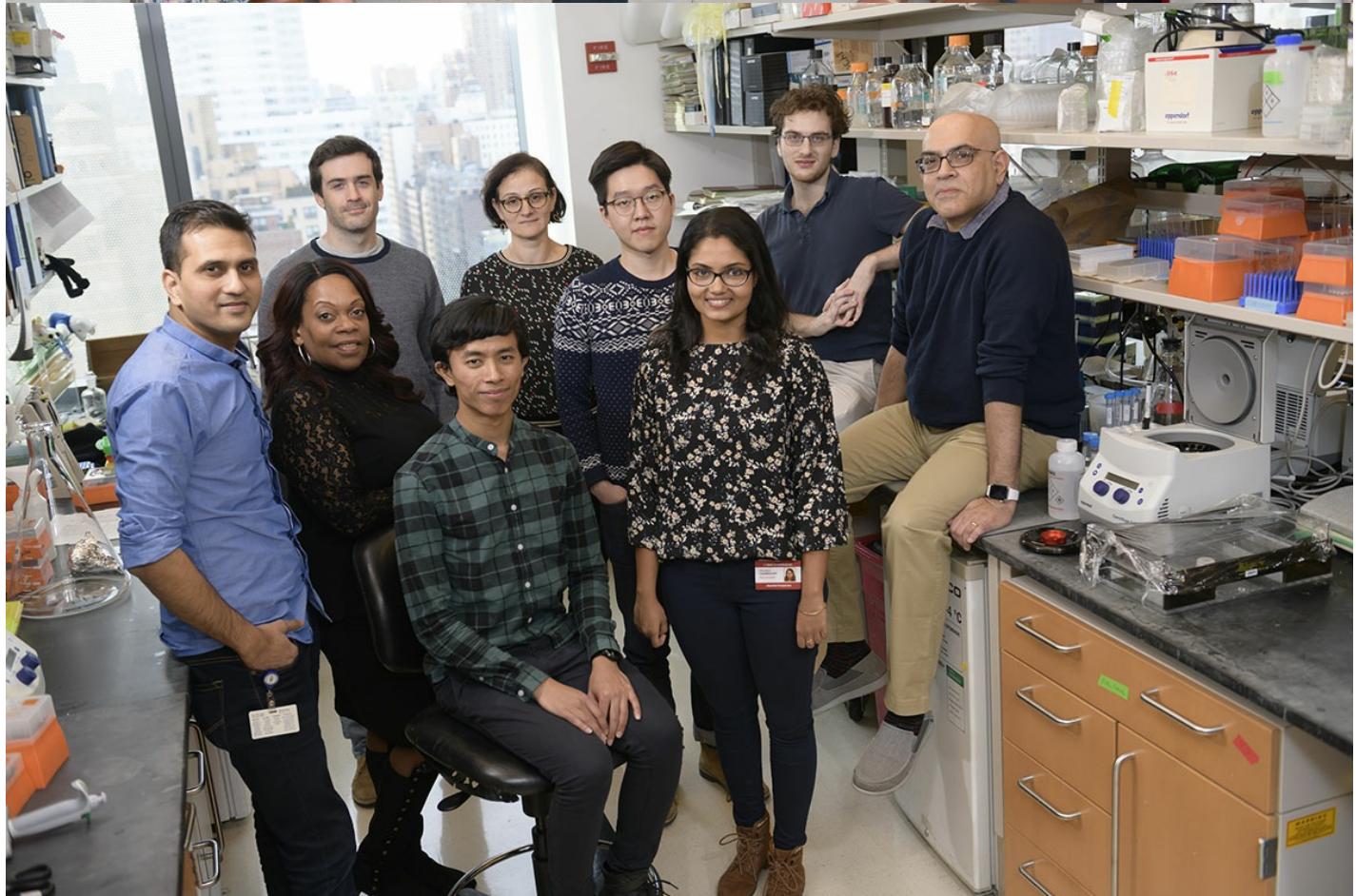
Jayanta Chaudhuri, PhD

## Laboratory of Molecular and Cellular Immunology

*Recombination, genomic integrity, and heterogeneity in B cells*



[View Lab Overview \(<https://www.sloankettering.edu/research-areas/labs/jayanta-chaudhuri/overview>\)](https://www.sloankettering.edu/research-areas/labs/jayanta-chaudhuri/overview)



## Featured News

### IN THE LAB



### [SKI Research Reveals New Insights into Immune Response to Viral Infections — Including COVID-19](#)

Research from Sloan Kettering Institute immunologists suggests that the body may mount an immune response to respiratory viruses that lasts longer than previously thought. The discovery could impact the timing of COVID-19 vaccinations.



### [At Work: Immunologist Jayanta Chaudhuri](#)

Immunologist Jayanta Chaudhuri has long been interested in biology, Mendelian genetics, and the story of how life evolved.

### IN THE COMMUNITY



### [Giving Supplies a Second Life, and Making an Environmental Impact in the](#)

## Process

Memorial Sloan Kettering “green” committees focus on waste reduction and energy efficiency throughout the institution while donating useful supplies to New York-area nonprofits.

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## Publications Highlights

Sharma, R., Smolkin, R. M., Chowdhury, P., Fernandez, K. C., Kim, Y., Cols, M., Alread, W., Yen, W.-F., Hu, W., Wang, Z.-M., Violante, S., Chaligné, R., Li, M. O., Cross, J. R., & Chaudhuri, J. (2023). Distinct metabolic requirements regulate B cell activation and germinal center responses. *Nature Immunology*, 24(8), 1358–1369.

<https://doi.org/10.1038/s41590-023-01540-y>

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Fernandez, K. C., Feeney, L., Smolkin, R. M., Yen, W.-F., Matthews, A. J., Alread, W., Petrini, J. H. J., & Chaudhuri, J. (2022). The structure-selective endonucleases GEN1 and MUS81 mediate complementary functions in safeguarding the genome of proliferating B lymphocytes. *eLife*, 11, e77073. <https://doi.org/10.7554/eLife.77073>

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Maekawa, K., Yamada, S., Sharma, R., Chaudhuri, J., & Keeney, S. (2022). Triple-helix potential of the mouse genome. *Proceedings of the National Academy of Sciences of the United States of America*, 119(19), e2203967119.

<https://doi.org/10.1073/pnas.2203967119>

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Yewdell, W. T., Smolkin, R. M., Belcheva, K. T., Mendoza, A., Michaels, A. J., Cols, M., Angeletti, D., Yewdell, J. W., & Chaudhuri, J. (2021). Temporal dynamics of persistent germinal centers and memory B cell differentiation following respiratory virus infection. *Cell Reports*, 37(6), 109961. <https://doi.org/10.1016/j.celrep.2021.109961>

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Mendoza, A., Yewdell, W. T., Hoyos, B., Schizas, M., Bou-Puerto, R., Michaels, A. J., Brown, C. C., Chaudhuri, J., & Rudensky, A. Y. (2021). Assembly of a spatial circuit of T-bet-expressing T and B lymphocytes is required for antiviral humoral immunity. *Science Immunology*, 6(60), eabi4710. <https://doi.org/10.1126/sciimmunol.abi4710>

# People



## Jayanta Chaudhuri, PhD

*Professor*

- Immunologist Jayanta Chaudhuri studies the mechanisms of immunoglobulin gene diversification.
- PhD, Albert Einstein College of Medicine

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## Members



Jayanta Chaudhuri



Stephanie Downs-Canner

Lab  
Alumni

Lab Affiliations

## Open Positions

Principal Investigator



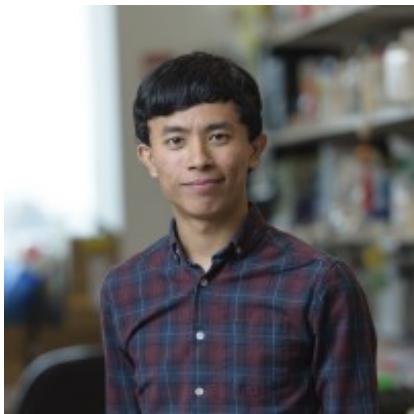
Jennifer Lue

Assistant Attending



Laura Nicolas Gomariz

Postdoctoral Research Fellow



Keith Fernandez

Graduate Student

Assistant Attending Surgeon



Francesca Manara

Postdoctoral Research Fellow



Maria Maddalena Perra

Postdoctoral Research Fellow



Ryan Smolkin

Postdoctoral Fellow, Memorial  
Sloan Kettering Cancer Center

[now](https://www.sloankettering.edu/research-areas/labs/jayanta-chaudhuri/postdoctoral-position) (<https://www.sloankettering.edu/research-areas/labs/jayanta-chaudhuri/postdoctoral-position>)

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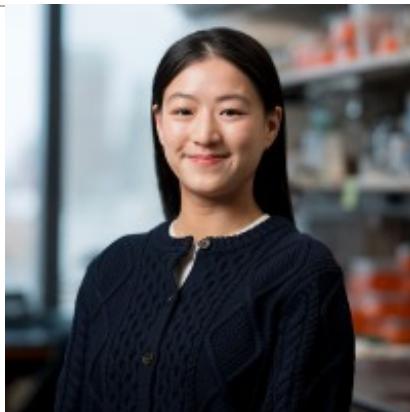
## Postdoctoral Position

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Kalina Belcheva

Graduate Student



Vivian Kuan

Graduate Student



Kanelly Reyes

Research Technician



Veronica Shields

Administrative Assistant

## Technician

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Matthew Kantorski  
Research Technician

Lorraine Hernandez Delgado  
MSK Bridge Scholar

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## 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.

Jayanta Chaudhuri 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.

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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.

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