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## The Jayanta Chaudhuri Lab

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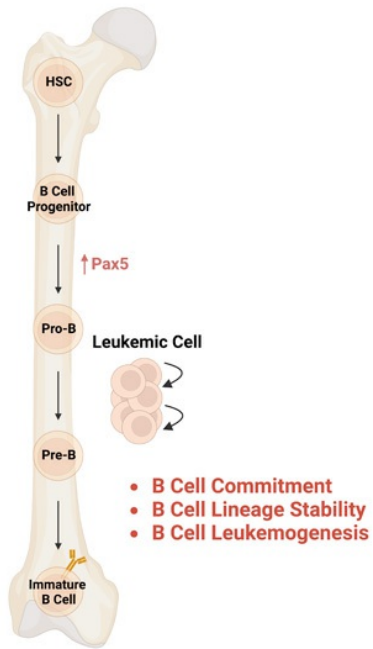
Jayanta Chaudhuri, PhD

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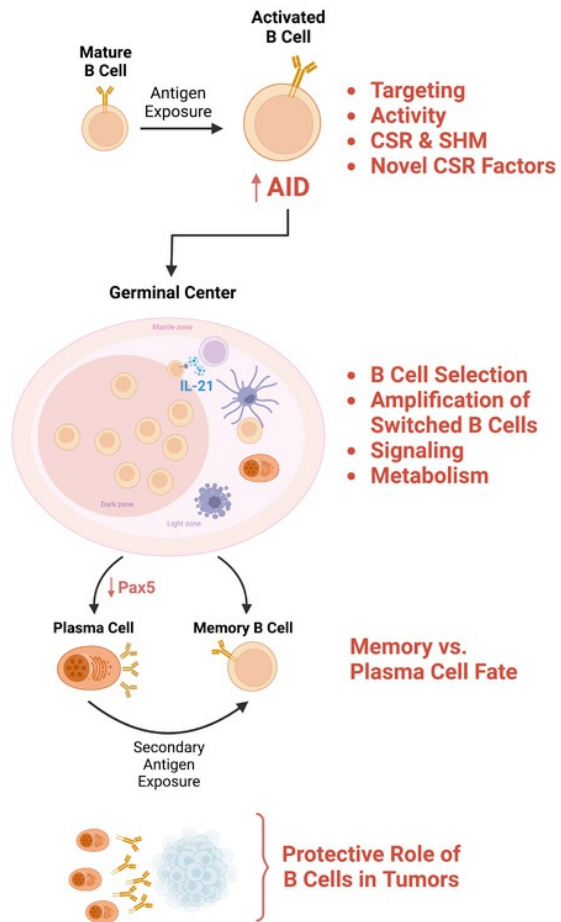
## **Laboratory of Molecular and Cellular Immunology**

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

## Bone Marrow

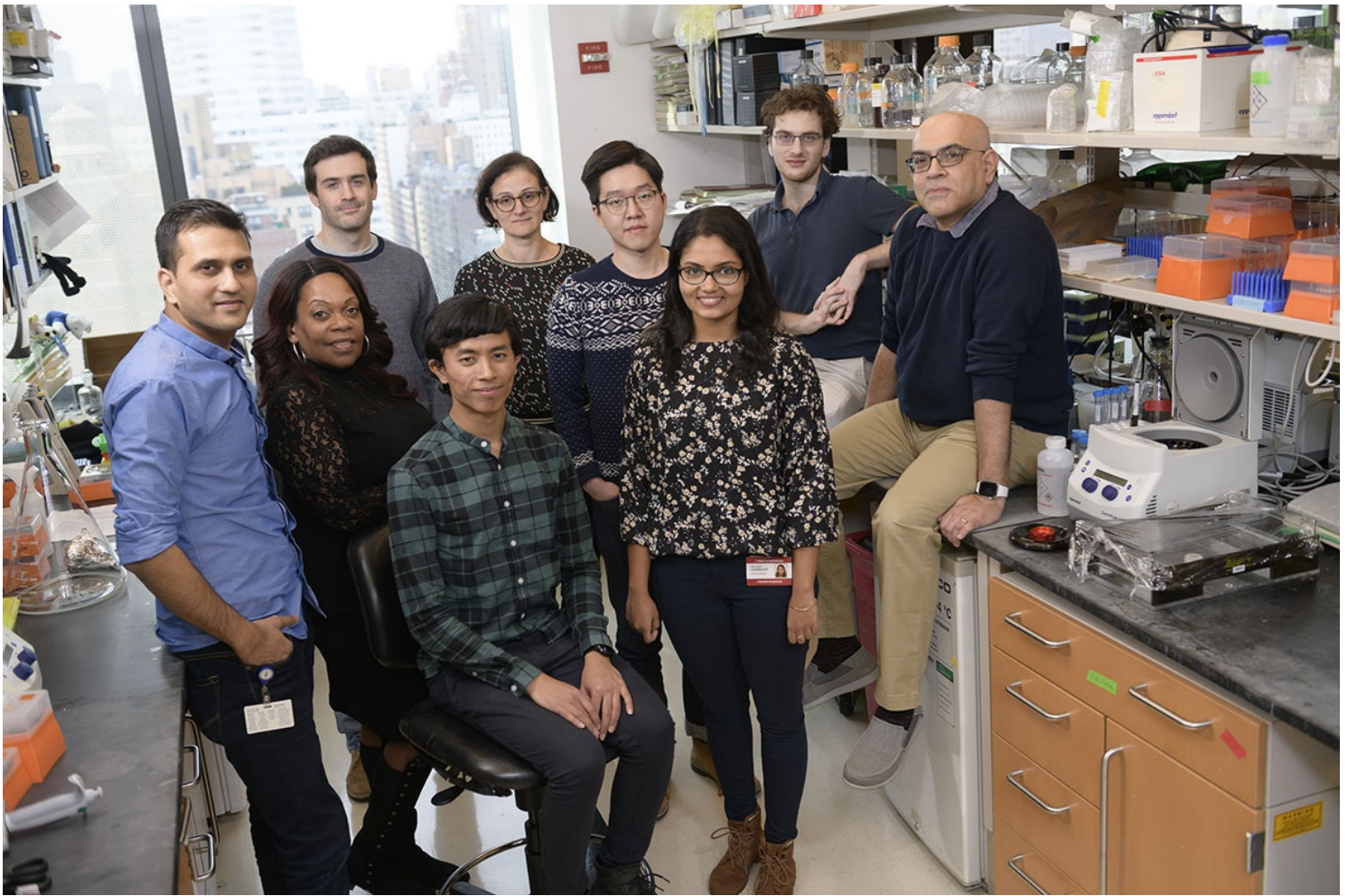


## Periphery—Spleen, Lymph Nodes, Peyer's Patches



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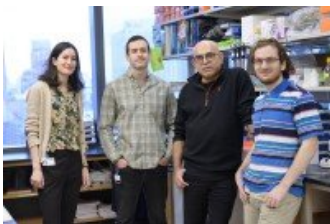


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## Featured News

### 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>

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>

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>

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>

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>

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## People



### Jayanta Chaudhuri, PhD

Immunologist Jayanta Chaudhuri studies the mechanisms of immunoglobulin gene diversification.

PhD, Albert Einstein College of Medicine

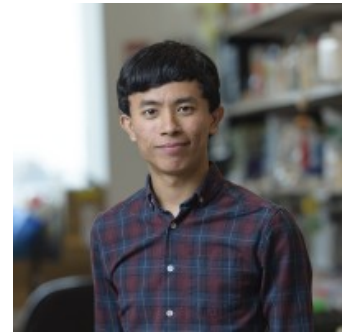
✉ [chaudhuj@mskcc.org](mailto:chaudhuj@mskcc.org)

Email Address

☎ [646-888-2357](tel:646-888-2357)

Office Phone

## Members



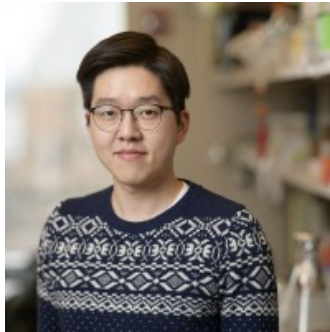
Keith Fernandez

Graduate Student



Ryan Smolkin

Graduate Student



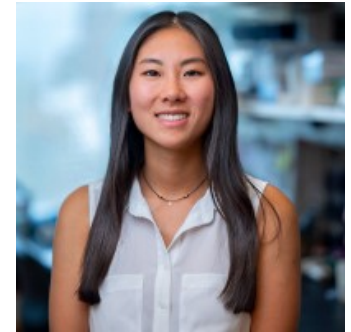
Youngjun Kim

Graduate Student



Kalina Belcheva

Graduate Student



Marisa Lazarus

Research Technician



Kanelly

Reyes

Research Technician



Veronica

Shields

Administrative Assistant

Lab Alumni

+

Lab Affiliations

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✉ [chaudhuj@mskcc.org](mailto:chaudhuj@mskcc.org)

Lab Head Email

☎ [646-888-2357](tel:646-888-2357)

Office Phone

☎ [646-422-0495](tel:646-422-0495)

Office Fax

☎ [646-888-2334](tel:646-888-2334)

Lab Phone

☎ [646-888-2614](tel:646-888-2614)

Lab Phone

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Jayanta Chaudhuri discloses the following relationships and financial interests:

*No disclosures meeting criteria for time period*

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