

Jacob Myers

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Education

- 08/2025 – Present **Harvard University, Cambridge, MA**
Ph.D. Biological & Biomedical Sciences
- 08/2021 – 05/2025 **Vanderbilt University, Nashville, TN**
B.A. Biochemistry & Chemical Biology, with Highest Honors
B.A. Mathematics
B.A. Communication of Science & Technology
Minor: Data Science
Thesis: *Investigating the Role of Purine Biosynthesis in Obesity-Mediated Dysfunction*

Research Experience

- 01/2026 – Present **Graduate Student Researcher, Beth Israel Deaconess Medical Center**
Advisor: Shingo Kajimura, PhD
- 01/2022 – 08/2025 **Undergraduate Research Assistant, Vanderbilt University**
Advisor: Elma Zaganjor, PhD
- 06/2024 – 08/2024 **Research Intern, University of Massachusetts Chan Medical School**
Advisor: Jessica Spinelli, PhD
- 08/2022 – 06/2023 **Research Intern, US Environmental Protection Agency**
Advisor: Daniel Hoer, PhD

Publications

1. Wong, A.Y.L., **Myers, J.W.**, Prakash, G., Ma, A., Brook, J.R., Petrova, B., Bulut, B., White, R., Merz, C., de Souza, M., Maynard, A.G., Wang, P., Yu, A., Pohl, N.K., Weitman, M., Silverman, L.B., Perry, J.A., Stegmaier, K., Churchman, L.C., Cole, P.D., Brady, D., Kanarek, N. Copper depletion inhibits electron transport chain activity and nucleotide synthesis to boost leukemia therapy. *Nature Cancer*. (2026). DOI: [10.1038/s43018-026-01177-4](https://doi.org/10.1038/s43018-026-01177-4)
2. Pinette, J.A., Bryant, H.G., **Myers, J.W.**, Zaganjor, E. Exploring the role of nucleotide metabolism in adipogenesis. *Biochemical Society Transactions*. (2025). DOI: [10.1042/BST20253045](https://doi.org/10.1042/BST20253045)
3. Valeros, J., Jerome, M., Tseyang, T., Vo, P., Do, T., Palomino, D.C.F., Grotehans, N., Kunala, M., Jerrett, A.E., Hathiramani, N.R., Mireku, M., Magesh, R.Y., Yenilmez, B., Rosen, P.C., Mann, J.L., **Myers, J.W.**, Kunchok, T., Manning, T., Carr, P., Boeker, L., Munim, M.B., Lewis, C.A., Sabatini, D.M., Kelly, M., Xie, J., Czech, M.P., Gao, G., Shepherd, J.N., Walker, A.K., Kim, H., Watson, E.V., Spinelli, J.B. Rhodoquinone is an Electron Carrier in the Mammalian Electron Transport Chain. *Cell*. (2025). DOI: [10.1016/j.cell.2024.12.007](https://doi.org/10.1016/j.cell.2024.12.007)

4. **Myers, J.W.**, Park W.Y., Eddie, A.M., Shinde, A.B., Murphy, A.C., Prasad, P., Montufar, C., Leonard M.Z., Pinette, J.A., Rampy, J.J., Shaikh, Z., Hickman, T.T., Reynolds, G.N., Winn, N.C., Peck, S.H., Lantier, L., Coate, K.C., Stein, R.W., Carrasco, N., Calipari, E.S., McReynolds, M.R., and Zaganjor, E. Blocking purine biosynthesis prevents weight gain by upregulating thermogenic futile cycles. *bioRxiv*. (2024). DOI: [10.1101/2024.10.28.620705](https://doi.org/10.1101/2024.10.28.620705).
5. Pinette, J.A., **Myers, J.W.**, Park W.Y., Bryant, H.G., Eddie, A.M., Wilson, G.A., Montufar, C., Shaikh, Z., Vue, Z., Nunn, E.R., Bessho, R., Cottam, M.A., Hasse, V.H., Hinton A.O., Spinelli, J.B., Cartailier, J.P., and Zaganjor, E. Disruption of nucleotide biosynthesis reprograms mitochondrial metabolism to inhibit adipogenesis. *Journal of Lipid Research*. (2024). DOI: [10.1016/j.jlr.2024.100641](https://doi.org/10.1016/j.jlr.2024.100641)
6. Shinde, A.B., Nunn, E.R., Wilson, G.A., Chvasta, M.T., Pinette, J.A., **Myers, J.W.**, Peck, S.H., Spinelli, J.B., and Zaganjor, E. Inhibition of nucleotide biosynthesis disrupts lipid accumulation and adipogenesis. *Journal of Biological Chemistry*. (2023). DOI: [10.1016/j.jbc.2023.104635](https://doi.org/10.1016/j.jbc.2023.104635)

Scientific Presentations

07/16/2024	FASEB Molecular Metabolism: Cells and Systems Conference, Southbridge, MA
05/22/2024	Diabetes Day, Diabetes Research and Training Center, Vanderbilt University Medical Center
04/02/2024	Digestive Disease Research Center Retreat, Vanderbilt University Medical Center
12/15/2023	Young Investigator Showcase, Diabetes Research and Training Center, Vanderbilt University Medical Center
09/18/2023	Molecular Physiology & Biophysics Department Retreat, Vanderbilt University
05/19/2023	Cell Dynamics Symposium, Vanderbilt University
04/26/2023	Diabetes Day, Diabetes Research and Training Center, Vanderbilt University Medical Center
04/05/2023	Digestive Disease Research Center Retreat, Vanderbilt University Medical Center

Teaching Experience

Spring 2025	Learning Assistant for Science Education Pedagogy (BSCI 1400), Vanderbilt University <i>Note: Lead Learning Assistant for the College of Arts & Science's LA Program</i>
Fall 2024	Learning Assistant for Biochemistry (BSCI 2520), Vanderbilt University
Spring 2024	Learning Assistant for Biochemistry (BSCI 2520), Vanderbilt University
Fall 2023	Learning Assistant for Introduction to Biology I (BSCI 1510), Vanderbilt University

Honors & Scholarships

04/22/2024	Outstanding Undergraduate Researcher Award, Vanderbilt University
05/2024 – 08/2024	Levy Summer Fellowship, Vanderbilt University
04/24/2024	Aida Nureddin Outstanding Junior Researcher Award, Vanderbilt University
03/28/2024	Poster Award for Translational Health Research, Vanderbilt Undergraduate Research Fair
05/2023 – 08/2023	Littlejohn Research Fellowship, Vanderbilt University
08/2021 – 05/2025	Ned McWherter Scholarship, Tennessee Higher Education Commission