

CURRICULUM VITAE
Chrystal Starbird, PhD
Update August 24th, 2026

1) Personal Information

Department of Biochemistry and Biophysics
UNC School of Medicine
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Chapel Hill, NC 27599
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2) Education

- Postdoctoral Fellowship, Yale University, Pharmacology/Cancer Biology 8/2017-1/2023
- Ph.D., Vanderbilt University, August 2017, Chemical and Physical Biology 8/2011-8/2017
- B.S., University of North Carolina at Chapel Hill, August 2008, Biology 8/2006-8/2008
- A.S., Central Carolina Community College, May 2006, Science 8/2005-8/2006

3) Professional Appointments and Employment

- University of North Carolina at Chapel Hill, Assistant Professor, 2/2023-current
Primary Appointment: Department of Biochemistry and Biophysics
Affiliations: Lineberger Comprehensive Cancer Center
Program in Pathobiology and Translational Science
- University of North Carolina at Chapel Hill, Adjunct Assistant Professor, 7/2022-1/2023
- Yale University, Instructor, 1/2020-5/2020
- Yale University, Postdoctoral Fellow, 8/2017-1/2023
- Vanderbilt University, Instructor, Fall of 2013, 2014 and 2016
- Vanderbilt University, Graduate Research Assistant, 8/2011-8/2017
- UNC Chapel Hill, Predoctoral Research Scholar, 5/2010-8/2011
- Pfizer, Associate Biochemist, 5/2009-4/2010
- UNC Chapel Hill, Research Technician, 8/2008-5/2009
- UNC Chapel Hill, Undergraduate Research Assistant, 9/2007-8/2008
- UNC Chapel Hill, Lab Assistant, 10/2006-9/2007
- UNC Charlotte, Lab Assistant, 9/2001-5/2003

4) Honors

- Unsung Hero Award, University of North Carolina at Chapel Hill, 2026
- Selected Awardee, The Hypothesis Fund, 2025
- Keystone Symposia Fellow, 2024
- Dave Wasserman, Ph.D. Mentoring Award, Journal of Cellular Physiology, 2024
- FASEB Cares Award Recipient, 2023
- Pair-Up Peer Imaging Cluster Award, American Society for Cell Biology, 2023
- Distinguished Service Award in DEI, Yale University, 2022
- Juneteenth Best Peer to Peer Mentor Postdoctoral Award, Vanderbilt University, 2022
- NIH/MOSAIC K99/R00 Scholar, 2022
- Intersections Science Fellows Symposium, Steering Committee, 2021
- Cell Rising Black Scientist Award, Cell Press, 2021
- Intersections Science Fellows Symposium, Associate, 2021
- Co-Chair, Yale Black Postdoctoral Association, 2020
- Board Member, National Black Postdoctoral Association, 2020
- Ruth L. Kirschstein National Research Service Award (NRSA), Postdoctoral Fellowship from the National Institute of General Medical Sciences
- Poster Judge Travel Award, ABRCMS, 2019
- Travel Grant and Platform Presentation, The Biophysical Society 60th Annual Meeting, 2016
- President, Vanderbilt Women in Science and Engineering, 2015
- Award for best talk, Vanderbilt Chemical and Physical Biology Retreat, 2014
- University Nomination for the Lindau Award, Vanderbilt University, 2014
- National Science Foundation Graduate Research Fellowship (NSF-GRFP), 2013
- Molecular Biophysics Training Grant, NIH T32 GM008320, Vanderbilt University, 2012
- Center for Structural Biology Stipend Award, Vanderbilt University, 2011
- Award for Best Overall Research Talk, PREP Symposium, 2011
- Postbaccalaureate Research Scholar, NIH R25 GM089569, UNC Chapel Hill, 2010
- Integrated Biomedical Research Training Program Scholar, UNC Chapel Hill, May 2007

5) Bibliography and products of scholarship

Published Refereed Papers/Articles:

1. Moran SJ, Starbird CA. TAM receptor tyrosine kinases as potential mediators of the non-lytic spread of non-enveloped viruses. *Biochemical Society Transactions* 54 (2026): 501-512. doi: 10.1042/BST20250119
2. Arango, M.C., Hincapie-Otero, M., Hardeman, K., Shao, B., Starbird, L., Starbird, C.A. Special considerations for the use of AI tools by PEERs as a learning and communication aid. *Journal of Cellular Physiology* 239 (2024)
3. Bagchi, A., Stayrook, S.E., Xenaki, K.T., Starbird, C.A., Doukeridou, S., Khoulati, R., Roovers, R.C., Schmitz, K.R., van Bergen en Henegouwen, P.M., Ferguson, K.M. Structural insights into the role and targeting of EGFRvIII. *Structure* 32 (2024): 1367-1380, <https://doi.org/10.1002/jcp.31339>

4. Starbird, C.A., Weinberg, Z.Y., Munson, M. Gender Equity: toward redefining values. *Nature Cell Biology* 25 (2024): 11-12
5. Mays, A., Byars-Winston, A., Hinton, A.,...Starbird, C.A.,... Lambert, M.W., Clemons, W.M. Juneteenth in STEMM and the barriers to equitable science. *Cell* 186 (2023): 2510-2517 *Cover article*
6. Fernandez, A.*, Starbird, C.A.*, Davis-Reyes, B., Termini, C., Hinton, A.J., McCall, T. Evaluating diversity, equity and inclusion consulting requests. *Trends in Molecular Medicine*, Epub ahead of print <https://doi.org/10.1016/j.molmed.2022.06.006>
7. Davis-Reyes, B.*, Starbird, C.A.*, Fernandez, A., McCall, T., Hinton, A.J., Termini, C. Shadow mentoring: a cost-benefit review for reform. *Trends in Cancer* 8 (2022): 620-622
8. Shuler, H., Cazares, V., Marshall, A., Garza-Lopez, E., Hultman, R., Francis, T.K., Rolle, T., Byndloss, M.X., Starbird, C.A., Hicsasmaz, I., AshShareef, S., Neikirk, K., Johnson, P.E.C., Vue, Z., Beasley, H.K., Williams, A., Hinton, A.O. Intentional mentoring: maximizing the impact of underrepresented future scientists in the 21st century. *Pathogens and Disease* 79 (2021).
9. Starbird, C.A., Perry, N.A., Chen, Q., Berndt, S., Yamakawa, I., Loukachevitch, L.V., Limbrick, E.M., Bachmann, B.O., Iverson, T.M., McCulloch, K.M. The structure of the bifunctional Everninomicin biosynthetic enzyme EvdMO1 suggests independent activity of the fused methyltransferase-oxidase domains. *Biochemistry* 57 (2018): 6827-6837
10. Starbird, C.A., Tomasiak, T., Singh, P.K., Yankovskaya, V., Maklashina, E., Eisenbach, M., Cecchini, G., Iverson, T.M. New crystal forms of the integral membrane Escherichia coli quinol: fumarate reductase suggest that ligands control domain movement. *Journal of Structural Biology* 202 (2018): 100-104
11. Starbird, C.A., Maklashina, E., Sharma, P., Qualls-Histed, S., Cecchini, G., Iverson, T.M. Structural and biochemical analyses reveal insights into covalent flavinylation of the Escherichia coli Complex II homolog quinol:fumarate reductase. *Journal of Biological Chemistry* 292 (2017): 12921-12933
12. Maklashina, E., Rajagukguk, S., Starbird, C.A., McDonald, H., Koganitsky, A., Eisenbach, M.S., Iverson, T.M., Cecchini, G. Binding of the covalent flavin assembly factor to the flavoprotein subunit of Complex II. *Journal of Biological Chemistry* 291 (2016): 2904-2916
13. Immormino, R.M., Starbird, C.A., Silversmith, R.E., Bourret, R.B. Probing mechanistic similarities between response regulator signaling proteins and haloacid dehalogenase phosphatases. *Biochemistry* 22 (2015): 3514-3527

14. Starbird, C.A., Maklashina, E., Cecchini, G., Iverson, T.M. Flavoenzymes: covalent versus noncovalent. *Encyclopedia of Life Sciences* (2015): 1-11

15. Birmingham, W.A., Starbird, C.A., Panosian, T.D., Nannemann, D.P., Iverson, T.M., Bachmann, B.O. Bioretrosynthetic evolution of a didanosine biosynthetic pathway. *Nature Chemical Biology* 10 (2014): 392-399

Published Abstracts from Poster and Oral Presentations

1. Moran, S.J., Bingham, J., Kang, T.E., Alam, F., Cameron, C.E., Starbird, C.A. Identifying the TAM receptor tyrosine kinases involved in non-enveloped virus infection. *Biophysical Journal* 125 (2026), 73a

2. Arango, C., Fournier, N., Starbird, C. Defining the structural basis of TAM receptor-ligand-lipid interactions. *Biophysical Journal* 125 (4), 228a

3. Canseco, L.A., Grimsley, S., Starbird, C. Elucidating the interaction of apolipoproteins with ABCA7 in neurodegenerative diseases. *Biophysical Journal* 125 (4), 33a

4. Hincapie-Otero, M., Shao, B., Starbird, C.A. Investigating the roles of oligomerization and lipid interaction in TAM receptor activation. *Biophysical Journal* 123 (2024), 36a

5. Starbird, C.A. Insights into Intracellular Bridging via TAM Receptor Structures. *Protein Science* 32 (2023), 12

6. Starbird, C.A. Analysis of structural similarities between TAM receptors and other cell surface molecules. *Journal of Biological Chemistry* 299 (2023): S570

7. Starbird, C.A., Maklashina, E., Rajagukguk, S., Cecchini, G., Iverson, T.M. Mechanisms of Assembly and Covalent Flavinylation in Complex II. *Biophysical Journal* 110 (2016): 191a

In process papers/Articles

1. Starbird, C.A., Zuo, Y., Walker, K., Stayrook, S., Ferguson, K.M. Structural organization of TAM receptor ectodomains. Submitted to *Biochemical Journal*.

2. Fournier, N., Arango, M., Lopez Vasquez, M., Singh, P.K., Bingham, J., Nye, G., Gan, H., Smith, A.W., Starbird, C.A. Structural basis of phosphatidylserine enhancement of Gas6 ligand-induced Axl activation. In preparation.

3. Grimsley, S., Canseco, L., Niu, Y., Marshall, A.G., Campbell, B.A., Tamir, T., Hinton, A.J., Davis, J.M., Starbird, C.A. ABCA7 mediates trafficking of mitochondrial precursor lipids and impacts mitochondrial dynamics. In preparation.

Unpublished Oral Presentations

July 2026	Invited Speaker, FASEB Protein Phosphorylation Conference, Louisville, KY
April 2026	Seminar Speaker, Basic Sciences Division, Fred Hutchinson Cancer Center, Seattle, WA
April 2026	Speaker, Junior Faculty Forum, Lineberger Cancer Center, University of North Carolina at Chapel Hill, Chapel Hill, NC
March 2026	Seminar Speaker, Membrane Trafficking Club, Department of Biochemistry and Biophysics, University of North Carolina at Chapel Hill, Chapel Hill, NC
March 2026	Seminar Speaker, Department of Biochemistry, Duke University, Durham, NC
December 2025	Panelist, American Society of Cell Biology (ASCB) Annual Meeting, Philadelphia, PA
November 2025	Panelist and Workshop Lead, Annual Biomedical Research Conference for Minoritized Scientists (ABRCMS) Annual Meeting, San Antonio, TX
September 2025	Seminar Speaker, Complex Matter and Biophysics Seminar, North Carolina State, Raleigh, NC
August 2025	Keynote Speaker, Huntsman Cancer Institute, University of Utah, Salt Lake City, Utah
July 2025	Speaker, Summer Undergraduate Journal Club, Department of Biochemistry and Biophysics, University of North Carolina at Chapel Hill, Chapel Hill, NC
June 2025	Webinar Speaker, Biophysics Week Spotlight Webinar (<i>virtual</i>)
May 2025	Seminar Speaker, Biophysics in Africa Talk, International (<i>virtual</i>)
May 2025	Seminar Speaker, Department of Biochemistry and Molecular Biology, University of Massachusetts Amherst, Amherst, MA
March 2025	Seminar Speaker, Biochemistry and Molecular Biophysics, Washington University, St. Louis, MO
January 2025	Webinar Speaker, Journal of Cellular Physiology (<i>virtual</i>)
December 2024	Panelist, American Society of Cell Biology (ASCB) Annual Meeting, San Diego, CA
November 2024	Seminar Speaker, Exploring Cancer Series, NC State and UNC Chapel Hill, (<i>virtual</i>)
November 2024	Panelist and Special Session Moderator, Annual Biomedical Research Conference for Minoritized Scientists (ABRCMS) Annual Meeting, Pittsburgh, PA
September 2024	Keynote Speaker, Department of Pharmacology and Cancer Biology Retreat, Duke University, Wrightsville Beach, NC
July 2024	Speaker, Summer Undergraduate Journal Club, Department of Biochemistry and Biophysics, University of North Carolina at Chapel Hill, Chapel Hill, NC

June 2024	Seminar Speaker, National Institute of Environmental Health Sciences, Durham, NC
June 2024	Keynote Speaker, Oncology Research Conference, Kabale University, Uganda, (<i>virtual</i>)
May 2024	Keynote Speaker, Mid-Atlantic PREP and IMSD Research Symposium (MAPRS), Chapel Hill, NC
May 2024	Panelist, NIH Career Symposium hosted by the Office of Intramural Training and Education, (<i>virtual</i>)
April 2024	Panelist, NSF PREPP Session co-hosted by North Carolina State University and the University of North Carolina at Chapel Hill, (<i>virtual</i>)
April 2024	Seminar Speaker, Department of Physiology and Cellular Biophysics, Columbia University, New York, NY
March 2024	Invited Speaker, Special Session at the American Chemical Society Annual Meeting, New Orleans, LA
March 2024	Seminar Speaker, Vanderbilt University, Department of Molecular Physiology and Biophysics, Nashville, TN
February 2024	Panelist, Lab to Table Series: Picturing Progress, Representation in Scientific Art, International Broadcast (<i>virtual</i>)
February 2024	Invited Speaker, The Biophysical Society Annual Meeting, Philadelphia, PA
December 2023	Panelist, SciMom Chats, Mothers in Science, International Broadcast (<i>virtual</i>)
December 2023	Panelist in Two Sessions, The American Society for Cell Biology Annual Meeting, Boston, MA
November 2023	Seminar Speaker, University of North Carolina at Asheville, Department of Biochemistry, Asheville, NC
September 2023	Panelist, MOSAIC Applicant Webinar, NIGMS, (<i>virtual</i>)
July 2023	Invited Speaker, The Protein Society Annual Meeting, Boston, MA
June 2023	Invited Speaker, Protein Phosphorylation Meeting, FASEB, Steamboat Springs, CO
June 2023	Keynote Speaker, UNC Chapel Hill Postbaccalaureate Research Experience Program (PREP) Annual Symposium, Chapel Hill, NC
March 2023	Panelist, University of Washington, Reimagining Mentoring, HHMI Gilliam Series, Seattle, WA
March 2023	Selected Speaker, Annual Meeting of American Society for Biochemistry and Molecular Biology (ASBMB), Seattle, WA
March 2023	Selected Participant/Speaker, PAIR-UP Annual Conference, Tucson, AZ
March 2023	Invited Speaker, Cell Signaling Technologies, Boston, MA
March 2023	Invited Speaker, UMass Chan Medical School, Department of Biochemistry and Molecular Biotechnology, Worcester, MA
February 2023	Seminar Speaker, University of North Carolina at Chapel Hill, Chemical Biology Seminar Series, Chapel Hill, NC
January 2023	Seminar Speaker, University of North Carolina at Chapel Hill, Department of Microbiology and Immunology, Chapel Hill, NC

December 2022	Panelist, American Society of Cell Biology Annual Meeting, Washington, DC
June 2022	Seminar Speaker, University of North Carolina at Chapel Hill, Lineberger Comprehensive Cancer Center, Chapel Hill, NC
June 2022	Keynote Speaker, Yale Undergraduate Research Symposium, New Haven, CT
January 2022	Invited Speaker, University of Texas Southwestern, PROVIDES Seminar Series (<i>virtual</i>)
November 2021	Panelist, Yale University, Yale Ciencia Academy, (<i>virtual</i>)
November 2021	Featured Speaker and Panelist, Northwestern University, 12 th Annual Northwestern Biophysics Symposium, (<i>virtual</i>)
October 2021	Invited Speaker, Vanderbilt University, Discovery Science Emerging Scholars Lecture, (<i>virtual</i>)
September 2021	Invited speaker, Research Triangle High School, Durham, NC, (<i>virtual</i>)
February 2021	Invited speaker, University of North Carolina at Chapel Hill, Department of Biochemistry and Biophysics, (<i>virtual</i>)
January 2021	Panelist, Cell/Elsevier, Reflections on “Picture A Scientist”, (<i>virtual</i>)
December 2020	Panelist, Yale School of Medicine, Office of Diversity, Equity and Inclusion, (<i>virtual</i>)
January 2020	Panelist, Yale University, Department of Molecular Biophysics and Biochemistry, New Haven, CT
2014	Invited speaker and Panelist, University of North Carolina at Chapel Hill, Mid-Atlantic IMSD/Prep Research Symposium, Chapel Hill, NC

Refereed other products of scholarship

1. Feature, Baraniuk, C. How X-rays and crystals revealed the true nature of things. The Nobel Prize Foundation and BBC (2026)
2. Feature, Hayes, H. Understanding Signaling Through Cell Membranes: Q&A With Chrystal Starbird. Biomedical Beat Blog, National Institute of General Medical Sciences (2022).
3. Feature, Heidt, A., ‘Without these tools, I’d be lost’: how generative AI aids in accessibility. Nature 628 (2024): 462-463
4. Feature, Langlin, K. NIH boosts pay for postdocs and graduate students. Science Careers (2024), doi 10.1126/science.zocj8i7
5. Feature, Langlin, K. NIH advisory group recommends \$14,000 boost in postdoc pay. Science Careers (2023), doi: 10.1126/science.zkbbgkb
6. Starbird, C.A. Transforming myself and academia for good. *Cell* 184 (2021): 851-853

7. Feature, Arnold, C., Woolston, C. Uncertainty plagues junior researchers from underprivileged backgrounds amid pandemic. Nature 588 (2020): 355-357. <https://www.nature.com/articles/d41586-020-03465-0>
8. Feature, Woolston, C. Uncertain prospects for postdoctoral researchers. Nature 588 (2020): 181-184. <https://www.nature.com/articles/d41586-020-03381-3>
9. Highlight, 1000 Inspiring Black Scientists in America, Cell Mentor. <http://crosstalk.cell.com/blog/1000-inspiring-black-scientists-in-america>

Digital and other novel forms of scholarship

1. Podcast: Out of Patients with Matthew Zachary, Standard Deviation, episode aired April 9, 2026
2. Podcast: Science in Action, BBC News, episode aired January 30, 2025
3. Podcast: From where does it STEM? Podcast, episode aired January 2, 2024
4. Podcast: STEAM'D: The Podcast, episode aired December 20, 2023
5. Highlight, The Biophysical Society Newsletter and Website, September 2023, <https://www.biophysics.org/profiles/chrystal-starbird>
6. Feature, Mothers in Science Website Highlights, <https://www.mothersinscience.com/journeys/chrystalstarbird>
7. Podcast: NerdRx Podcast from Barkha Yadav-Samudrala, episode aired April 25, 2023
8. Podcast: STEM Tea Podcast from Biotechniques, episode aired December 9, 2022
9. Highlight, Jones, A. From nature lover to structural biologist: A scientist's journey. The Scientist Magazine (2021), <https://www.the-scientist.com/from-nature-lover-to-structural-biologist-a-scientists-journey-68493>

6) Teaching Activities

1. Co-Lead Instructor, BIOC 667 Macromolecular Crystallographic Methods, 6-14 students enrolled in class, practical workshop course for graduate students on protein crystallography. Taught half of all sessions as a co-lead instructor, planned and administered practical lessons and exams. University of North Carolina at Chapel Hill.
2. Lecture, Amgen Scholars Program, 11 students, journal club for summer research program.

3. BBSP 902 Seminar in Biological and Biomedical Sciences, First Year Group, 20-25 students per session, year-long course (Fall and Spring) that meets weekly, joined 10 sessions as a faculty mentor and completed required advising sessions with assigned mentees outside of class, University of North Carolina at Chapel Hill
4. Lecture, Introduction to Crystallography, designed and delivered a lecture on the crystallography pipeline to 18 undergraduates in a virtual course for the Department of Biochemistry at Meharry Medical College
5. Lecture, Discussion section leader for 21 undergraduate students for Genes and Development course (Biol 103), Department of Genetics, Yale University, Spring 2020
6. Lecture, Graduate Teaching Assistant for 25 graduate students in Introduction to Structural Biology course (BCHMGS 8300), Department of Biochemistry, Vanderbilt University, Spring 2016
7. Continuing Education Lecture, led GRE course for 21-30 undergraduates from underrepresented groups interested in STEM sponsored by the School of Engineering and funded by Tennessee Louis Stokes Alliance for Minority Participation (TLSAMP), Vanderbilt University, annually 2013-2016

Lab or Research Teaching Mentorships

***Current Lab Members**

Undergraduate Students:

2026: Zoria Williams

2025: Amere Tucker*

2025: Mo'Asia Bagley*

2024: Alexia Horton, CUREP Program Scholar

2023: Owen Escobar

2023: Lesley Alessandra Canseco

2023: Bryanna Shao, Summer Intern from Vanderbilt University

Postbaccalaureate Scholars:

Lesley Alessandra Canseco*

Graduate Students:

2025: Maria Lopez Vasquez*

2025: Elizabeth Taggart

2024: Maria Camila Arango*

2023: Johnna Bingham*

2023: Skylar Grimsley*

2023: Drew Elliot Toomer

Postdoctoral Fellows:

2025: Dr. Steven Moran*

2023: Dr. Keisha Hardeman

Research Technicians:

2026: Katie Burke

2023: Nicole Fournier

2023: Maria Hincapie-Otero

Graduate Student Thesis Committees

Peregrine Schray, UNC Biochemistry and Biophysics Curriculum, Huong Kratochvil Lab, 2025-present

Zubair Bhuiyan, UNC Biochemistry and Biophysics Curriculum, Huong Kratochvil Lab, 2025-present

Elizabeth Taggart, UNC Biochemistry and Biophysics Curriculum, Robert McGinty Lab, 2025-present

Solomon Unekquojo, UNC Biochemistry and Biophysics Curriculum, Huong Kratochvil Lab, 2025-present

Dillon Sloan, UNC Biochemistry and Biophysics Curriculum, Rick Baker Lab, 2023-2026

7) Grants

Active Grants

Investigating TAM receptors as mediators of non-lytic poliovirus spread at the atomic scale and single-cell level, Hypothesis Fund Award

Role: PI, 5% effort

07/01/2025-06/30/2027

Total costs: \$150,000.00

Pending Grants

Pro-regenerative lipids in planarians, NIH

Role: CO-I, 10% effort

04/01/2027-03/31/2029

Total subaward amount: \$74,378.00

Multimodal activation of cellular signaling pathways through lipids, NSF CAREER from NSF

Role: PI, 10% effort

02/01/2027-01/31/2032

Total costs: \$2,676,266.00

Lipid sensing in TAM receptor signaling pathways, R35 MIRA from NIH/NIGMS

Role: PI, 55% effort

07/2026-06/2031

Total cost: \$2,117,676.00

Completed Grants

The structural basis of TAM receptor oligomerization and co-receptor interactions, MOSAIC R00, NIH/NIGMS R00GM144683

Role: PI, 40% effort

02/01/2023-01/31/2026

Total costs: \$739,986.00

The structural basis of TAM receptor oligomerization and co-receptor interactions, MOSAIC K99 (mentored portion of postdoctoral fellowship), NIH/NIGMS K99

Role: PI, 75% effort

02/01/2022-1/31/2023

Total costs: \$96,662.00

Effects of phosphatidylserine and oligomerization on activation mechanisms of TAM receptors, F32 NRSA Postdoctoral Fellowship, NIH/NIGMS F32GM131460

Role: PI, 100% effort

01/01/2020-12/31/2021

Total costs: \$130,172.00

Mechanisms of Assembly and Covalent Flavinylation in Complex II, National Science Foundation Graduate Research Fellowship, NSF DGE:0909667

Role: PI, 100% effort

04/2013-03/2016

Total costs: \$135,500.00

Unfunded Grants:

Multimodal activation of cellular signaling pathways through lipids, NSF Career NSF

Bringing Receptor Tyrosine Kinases Initiated Signaling Complexes into 3D, Freeman Hrabowski HHMI

Structural Investigation of phosphatidylserine receptors as combinatorial immunotherapy targets, Breaking Barriers V-Scholar Award V Foundation

Structure-based approaches to investigation the role of TAM receptors in mediating viral entry, Pew Biomedical Scholars Pew Charitable Trusts

8) Professional Service

To Discipline

Dec. 2025 Co-Session Chair, ASCB Annual Meeting Microsymposium

Dec. 2025 Moderator, ASCB Annual Meeting Scientific Session
 Nov. 2025 Reviewer, *Philosophical Transactions of the Royal Society B*
 Oct. 2025 Reviewer, *Aging Cell*
 Sept. 2025 Reviewer, *Journal of Mitochondria, Plastids, and Endosymbiosis*
 August 2025 Reviewer, Cottrell Scholar Award, Research Corporation for Science Advancement
 July 2025 Reviewer, *Nature Communications*
 April 2025 Reviewer, Cellular Signaling and Regulatory Systems NIH Study Section
 March 2025 Reviewer, United Kingdom Research and Innovation (UKRI) Investigator grant
 Jan 2025 Nomination Committee, Biophysical Society
 Jan 2025 Editorial Advisory Board, *ACS Bio & Med Chem Au*
 Dec. 2024 Advisory Board, *Current Protocols*
 Nov 2024 Reviewed Paper for *Acta Crystallographica Section F*
 Nov 2024 Reviewed Paper for *The Journal of Cell Science*
 Nov 2024 Reviewed Paper for *The American Journal of Physiology Heart and Circulatory Physiology*
 June 2024 Reviewed Paper for *The Journal of Cellular Physiology* and *Current Protocols*
 June 2024 Selected Participant, American Council on Education (ACE) Innovation Lab on STEM Graduate Education Materials
 2022-present Member, Minority Affairs Committee, American Society for Cell Biology
 2023-present Member, NIH Advisory Committee to the Director Working Group on Re-envisioning NIH- Supported Postdoctoral Training
 2023-present Co-Chair, Outreach and Communications Committee, American Society for Cell Biology
 2023-present Chairman, Board of Directors, JEDI Awards, Life Science Editors
 April 2024 Reviewed paper for *The Journal of Cellular Physiology*
 March 2024 Reviewed paper for *BMC Supplements*
 March 2024 Reviewed paper for *Acta Crystallographica Section F*
 Dec. 2023 FRED Program Review Panel, ASCB, Boston, MA
 August 2023 Reviewed paper for *Aging Cell*
 March 2023 Reviewed paper for *Advanced Biology*

Within UNC Chapel Hill

2026 Committee Member for Onboarding & Exploration, Faculty LifeCycle Working Group
 2024-present Internal Steering Committee, Carolina Cancer Nanotechnology Training Program
 2023-2025 Faculty Mentor, Students in Training, Academia, Health & Research (STAHR) Mentorship Program
 2023-2024 Faculty Mentor, BBSP First Year Group
 2022-2025 Member, Advisory Committee, UNC PREP Program
 2022-present Advisor, Committee on Community and Engagement, Department of Biochemistry and Biophysics
 2024 Member, SCPS Admission Committee, UNC BBSP Program

2023-2024 Consultant, Faculty Search Committee, Department of Biochemistry and
Biophysics
2023 Member, SCPS Admission Committee, UNC BBSP Program
2023 Advisor, UNC Postdoc Discussion Group, Department of Postdoctoral Affairs

Professional Society Memberships

Member, American Chemical Society
Member, American Association for the Advancement of Science
Member, American Society for Cell Biology
Member, Biophysical Society
Member, Janeway Society
Member, The Protein Society
Member, The American Society for Biochemistry and Molecular Biology