

Christina May Woo, Ph.D.

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PROFESSIONAL EXPERIENCE

Associate Professor of Chemistry and Chemical Biology (without tenure)	2020–present
Assistant Professor of Chemistry and Chemical Biology Harvard University, Cambridge, MA	2016–2020
Jane Coffin Childs and Burroughs Wellcome Fund Postdoctoral Fellow University of California, Department of Chemistry, Berkeley, CA Stanford University, Department of Chemistry, Stanford, CA Research advisor: Professor Carolyn R. Bertozzi	2013–2016

EDUCATION

Ph.D. with Distinction in Chemistry, Yale University , New Haven, CT NSF Predoctoral Fellow Research advisor: Professor Seth B. Herzon	2008–2013
B.A. with Honors in Chemistry, Wellesley College , Wellesley, MA Research advisor: Professor Dora Carrico-Moniz	2004–2008
Other undergraduate research experiences:	
Novartis, Boston, MA: Dr. Grazia Piizzi	summer 2007
Wellesley College, Wellesley, MA: Professor James H. Loehlin	2004–2007
Chulabhorn National Research Institute, Thailand: Dr. Nopporn Thasana	summer 2006
Free University of Berlin, Germany: Professor Hans Ulrich Reissig	summer 2005

DISTINCTIONS

Amgen Young Investigator Award	2022
David Gin Young Investigator Award, ACS CARB Division	2022
Camille Dreyfus Teacher-Scholar Award	2020
NSF CAREER, Chemistry of Life Processes	2020
Bayer Early Excellence in Science Award	2019
Sloan Research Fellow in Chemistry	2019
International Chemical Biology Society Young Chemical Biologist Award	2018
National Institutes of Health DP1 Avenir Award	2018
Ono Pharma Foundation Breakthrough Science Award	2018
Merck Research Fellow	2018
Mizutani Foundation Research Grant	2018
Milton Fund Award	2017
Dean's Competitive Fund for Promising Scholarship	2016, 2017
Burroughs Wellcome Fund, Career Awards at the Scientific Interface	2015–2020
Stanford University Mass Spectrometry Seed Grant	2015–2016

Helena Anna Henzl-Gabor Young Women in Science Travel Fellowship	2015
Stanford CHEM-H Postdoctoral Retreat, Best Presentation Award	2015
Richard Wolfgang Prize for Best Dissertation in Chemistry	2014
Jane Coffin Childs Memorial Fund, Howard Hughes Medical Institute Fellow	2013–2016
Roche Excellence in Chemistry Award	2012
Sigma-Aldrich Graduate Student Innovation Award	2011
National Science Foundation Graduate Research Fellowship	2010–2013
Dox Graduate Summer Fellowship	2009
Sigma-Xi Inductee	2008
Merck Index Women in Chemistry Scholarship, Honorable Mention	2008
NSF Research Experience for Undergraduates, Grant Recipient	2006
DAAD Research Internships in Science and Engineering Scholarship	2005

PUBLICATIONS

- Cheng S. S., Woo C. M. "Dual-specificity RNA aptamers: A sweet new tool for studying O-GlcNAc Biology." *Mol Cell* **2023**, 83, 657.
- Park S.-M.*, Miyamoto D.*, Han G., Chan M., Curnutt N., Tran N., Velleca A., Kim J. H., Schurer A., Chang K., Kharas M. G. #, **Woo C. M.**# "Dual IKZF2 and CK1a degrader targets acute myeloid leukemia cells." *Cancer Cell* **2023**, *in press*.
- Ge Y.#, Lu H., Yang B., **Woo C. M.**# "Small molecule-activated O-GlcNAcase for spatiotemporal removal of O-GlcNAc in live cells" *ACS Chem Biol* **2023**, 18, 193.
- West A. V., Amako Y., **Woo C. M.** "Design and evaluation of a cyclobutane diazirine alkyne tag for photoaffinity labeling in cells." *J Am Chem Soc* **2022**, 144, 21174.
- Lin Z., Shen D., Yang B., **Woo C. M.** "Molecular and structural characterization of lenalidomide-mediated sequestration of eIF3i." *ACS Chem Biol* **2022**, 17, 3229.
- West A. V., **Woo C. M.** "Photoaffinity labeling chemistries used to map biomolecular interactions." *Isr J Chem* **2023**, 63, e202200081.
- Ichikawa S.*, Flaxman H. A.*, Xu W.*, Vallavoju N., Wang B., Shen D., Pratt M. R., **Woo C. M.** "The E3 ubiquitin ligase adaptor cereblon targets the C-terminal cyclic imide degron." *Nature* **2022**, 610, 775.
- Lin Z., **Woo C. M.** "Methods to characterize and discover molecular degraders in cells." *Chem Soc Rev* **2022**, 51, 7115.
- Schwein P., Ge Y., Yang B., D'Souza A., Mody A., Shen D., **Woo C. M.** "Writing and erasing O-GlcNAc on casein kinase 2 alpha alters the phosphoproteome." *ACS Chem Biol* **2022**, 17, 1111.
- Lim D., Zhou Q., Cox K. J., Law B. K., Lee M., Kokkonda P., Choudhary S. K., Pergu R., Sreekanth V., Gangopadhyay S. A., Maji B., Lai S., Amako Y., Thompson D. B., Subramanian H. K. K., Mesleh M. F., Dancik V., Clemons P. A., Wagner B. K., **Woo C. M.**, Church G. M., Choudhary A. "A general approach to identify miniature cell-permeable and synthetic anti-CRISPRs." *Nat Cell Biol* **2022**, *in press*.
- Mealer R. G., Williams S. E., Noel M., Yang B., D'Souza A., Nakata T., Cetinbas M., Sadreyev R., Scolnick E. M., **Woo C. M.**, Xavier R. J., Smoller J. W., Cummings R. D. "The schizophrenia-associated variant in *SLC39A8* alters N-glycosylation in the mouse brain." *Mol Psychiatry* **2022**, 27, 1405.

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12. Lin Z.,* Amako Y.,* Kabir F., Flaxman H. A., Budnik B., **Woo C. M.** "Development of photo-lenalidomide for cellular target identification." *J Am Chem Soc* **2022**, *144*, 606.
 13. Jackson E. G., Cutolo G., Yang B., Yarravarapu N., Burns M. W. N., Bivena-Todd G., Roustan C., Thoden J. B., Lin-Jones H. M., van Kuppevelt T. H., Holden H. M., Schumann B., Kohler J. J., **Woo C. M.**, Pratt M. R. "4-Deoxy-4-fluoro-GalNAz (4FGalNAz) Is a Metabolic Chemical Reporter of O-GlcNAc Modifications, Highlighting the Notable Substrate Flexibility of O-GlcNAc Transferase." *ACS Chem Biol* **2022**, *17*, 159.
 14. Yu W., Lin Z., **Woo C. M.**, Baskin J. M. "A chemoproteomics approach to profile phospholipase D-derived phosphatidyl alcohol interactions." *ACS Chem Biol* **2022**, *17*, 3276.
 15. Ge Y., **Woo C. M.** "Writing and erasing O-GlcNAc from target proteins in cells." *Biochem Soc Trans* **2021**, *49*, 2891.
 16. Ramirez D. H., Yang B., D'Souza A. K., Shen D., **Woo C. M.** "Truncation of the TPR domain of OGT alters substrate and glycosite selection." *Anal Bioanal Chem* **2021**, *413*, 7385.
 17. Kawahara R., Chernykh A., Alagesan K., Bern M., Cao W., Chalkley R. J., Cheng K., Choo M. S., Edwards N., Goldman R., Hoffmann M., Hu Y., Huang Y., Kim J. Y., Kletter D., Lique-Weiland B., Liu M., Mechref Y., Meng B., Neelamegham S., Nguyen-Khuong T., Nilsson J., Pap A., Park G. W., Parker B. L., Pegg C. L., Penninger J. M., Phung T. K., Pioch M., Rapp E., Sakalli E., Sanda M., Schulz B. L., Scott N. E., Sofronov G., Stadlmann J., Vakhrushev S. Y., **Woo C. M.**, Wu H. Y., Yang P., Ying W., Zhang H., Zhang Y., Zhao J., Zaia J., Haslam S. M., Palmisano G., Yoo J. S., Larson G., Khoo K.-H., Medzihradsky K. F., Kolarich D., Packer N. H., Thaysen-Andersen M. "Community evaluation of glycoproteomics informatics solutions reveals high-performance search strategies of glycopeptide data." *Nat Meth* **2021**, *18*, 1304.
 18. McKittrick T., Ackerman M. E., Anthony R., Bennett C., Demetriou M., Hudulla G. A., Ribbeck K., Ruhl S., **Woo C. M.**, Yang L., Zost S., Schnaar R. L., Doering T. L. "The crossroads of glycoscience, infection, and immunology." *Front Microbiol* **2021**, *12*, 731008.
 19. Ramirez D. H., Ge Y., **Woo C. M.** "O-GlcNAc engineering on a target protein in cells with nanobody-OGT and nanobody-splitOGA." *Curr Protoc* **2021**, *1*, e117.
 20. Chang C. F., Flaxman H. A., **Woo C. M.** "Enantioselective synthesis and biological evaluation of sangliferin A and B and analogs." *Angew Chem Int Ed* **2021**, *60*, 2.
 21. West A. V., Muncipinto G., Wu H. Y., Huang A. C., Labenski M. T., Jones L. H., **Woo C. M.** "Labeling preferences of diazirines with protein biomolecules." *J Am Chem Soc* **2021**, *143*, 6691.
 22. Ge Y., Ramirez D. H., Yang B., D'Souza A. K., Aonbangkhen C. J., Wong, S., **Woo, C. M.** "Target protein deglycosylation in living cells by a nanobody-fused split O-GlcNAcase." *Nat Chem Biol* **2021**, *17*, 593.
 23. West, A. V., **Woo, C. M.** "Ironing out new antibiotic mechanisms with xanthocillin X." *ACS Cent Sci* **2021**, *7*, 403 (commentary).
 24. Darabedian N., Yang B., Ding R., Cutolo G., Zaro B. W., **Woo C. M.**, Pratt M. R. "O-Acetylated chemical reporters of glycosylation can display metabolism-dependent background labeling of proteins but are generally reliable tools for the identification of glycoproteins." *Front Chem* **2020**, *8*, 318.
 25. Ramirez D. H., Aonbangkhen C. J., Wu H. Y., Naftaly J. A., Tang S., O'Meara T.R., **Woo C. M.** "Selective induction of protein O-GlcNAcylation in cells by a proximity-directed O-GlcNAc transferase." *ACS Chem Biol* **2020**, *15*, 1059.
 26. Schwein P., **Woo C. M.** "The O-GlcNAc modification on kinases." *ACS Chem Biol* **2020**, *15*, 602.

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27. Miyamoto D. K., Flaxman H. A., Wu H. Y., Gao J., **Woo C. M.** "Discovery of a celecoxib binding site on PTGES with a cleavable chelation-assisted biotin probe." *ACS Chem Biol* **2019**, *14*, 2527.
 28. Amako Y., **Woo C. M.** "A chiral trick to map protein ligandability." *Nat Chem* **2019**, *11*, 1080 (commentary).
 29. Flaxman H. A., Miyamoto D. K., **Woo C. M.** "Small molecule interactome mapping by photo-affinity labeling (SIM-PAL) to identify and map the interactions of small molecules on a proteome-wide scale." *Curr Prot Chem Biol* **2019**, *11*, e75.
 30. Joiner C. M., Levine Z., Aongangkhen C., **Woo C. M.**, Walker S. "Aspartate residues within TPR lumen drive O-GlcNAc transferase substrate selection." *J Am Chem Soc* **2019**, *141*, 12974.
 31. Flaxman H. A., Chang C. F., Wu H. Y., Nakamoto C. H., **Woo C. M.** "A binding site hotspot map of the FKBP–rapamycin–FRB ternary complex by photo-affinity labeling and mass spectrometry." *J Am Chem Soc* **2019**, *141*, 11759.
 32. Darabedian N., Gao J., Chuh K.N., **Woo C. M.**, Pratt M. R. "The metabolic chemical reporter 6-azido-6-deoxy-glucose reveals an unexpected substrate promiscuity of O-GlcNAc transferase and the potential for protein modification by O-glucose." *J Am Chem Soc* **2018**, *140*, 7092.
 33. Gao J., Mfuh A., Amako Y., **Woo C. M.** "Small molecule interactome mapping by photo-affinity labeling reveals binding site hotspots for the NSAIDs." *J Am Chem Soc* **2018**, *140*, 4259.
 34. Chang C.F., Mfuh A., Gao J., Wu H.Y., **Woo C. M.** "Synthesis of an electronically-tuned minimally interfering alkynyl photo-affinity label to measure small molecule–protein interactions." *Tetrahedron* **2018**, *74*, 3273.
 35. **Woo C. M.**, Lund P. J., Huang A. C., Davis M. M., Bertozzi C. R., Pitteri S. J. "Mapping and quantification of over 2,000 O-linked glycopeptides in activated human T cells with isotope-targeted glycoproteomics (IsoTaG)." *Mol Cell Proteomics* **2018**, *17*, 764.
 36. Flaxman H. A., **Woo C. M.** "Mapping the small molecule interactome by mass spectrometry." *Biochemistry* **2018**, *57*, 186.
 37. **Woo C. M.**, Felix A., Byrd W., Zuegel D., Ishihara M., Azadi P., Iavarone A., Pitteri S., Bertozzi C. R. "Development of IsoTaG, a chemical glycoproteomics technique for profiling intact N- and O-glycopeptides from whole cell proteomes." *J Prot Res* **2017**, *16*, 1706.
 38. **Woo C. M.**, Felix A., Zhang L., Elias J. E., Bertozzi C. R. "Isotope targeted glycoproteomics (IsoTaG) analysis of sialylated N- and O-glycopeptides on an Orbitrap Fusion Tribrid using azido and alkynyl sugars." *Anal Bioanal Chem* **2017**, *409*, 579.
 39. Sheta R., **Woo C. M.**, Roux-Dalvai F., Fournier F., Bourassa S., Droit A., Bertozzi C. R., Bachvarov D. "A metabolic labeling approach for glycoproteomic analysis reveals altered glycoprotein expression upon *GALNT3* knockdown in ovarian cancer cells." *J Prot* **2016**, *145*, 91.
 40. Sheta R., Roux-Dalvai F., **Woo C. M.**, Fournier F., Bourassa S., Bertozzi C. R., Droit A., Bachvarov, D. "Proteomic dataset for altered glycoprotein expression upon *GALNT3* knockdown in ovarian cancer cells" *Data in Brief* **2016**, *8*, 59.
 41. **Woo C. M.**, Li Z., Paulson E., Herzon S. B. "Structural basis for DNA cleavage by the potent antiproliferative agent (–)-lomaiviticin A." *Proc Natl Acad Sci* **2016**, *11*, 2851.
 42. **Woo C. M.**, Bertozzi C. R. "Isotope targeted glycoproteomics (IsoTaG) to characterize intact, metabolically labeled glycopeptides from complex proteomes." *Curr Protoc Chem Bio* **2016**, *8*, 59.

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43. **Woo C. M.**, Iavarone A. T., Spiciarich D. R., Palaniappan K. K., Bertozzi C. R. "Isotope Targeted Glycoproteomics (IsoTaG): A mass independent platform for intact N- and O-glycopeptide discovery." *Nat Meth* **2015**, *12*, 561.
 44. **Woo C. M.**, Ranjan N., Arya D. P., Herzon S. B. "Analysis of diazofluorene DNA binding and damaging activity. DNA cleavage by a synthetic monomeric diazofluorene." *Angew Chem Int Ed* **2014**, *53*, 9325.
 45. Colis L. C., **Woo C. M.**, Hegan D. C., Li Z., Glazer P. M., Herzon S. B. "The cytotoxicity of (-)-lomaiviticin A arises from induction of double-strand breaks in DNA." *Nat Chem* **2014**, *6*, 504.
 46. **Woo C. M.**, Gholap S. L., Herzon S. B. "Insights into lomaiviticin biosynthesis. Isolation and structure elucidation of (-)-homoseongomycin." *J Nat Prod* **2013**, *76*, 1238.
 47. **Woo C. M.**, Gholap S. L., Lu L., Kaneko M., Li Z., Ravikumar P. C., Herzon S. B. "Development of enantioselective synthetic routes to (-)-kinamycin F and (-)-lomaiviticin aglycon." *J Am Chem Soc* **2012**, *134*, 17262.
 48. **Woo C. M.**, Beizer N. E., Janso J. E., Herzon S. B. "Isolation of lomaiviticins C–E. Transformation of lomaiviticin C to lomaiviticin A, complete structure elucidation of lomaiviticin A, and structure–activity analyses." *J Am Chem Soc* **2012**, *134*, 15285.
 49. Mulcahy S. P., **Woo C. M.**, Ding W., Ellestad G. A., Herzon S. B. "Characterization of a reductively-activated elimination pathway relevant to the biological chemistry of the kinamycins and lomaiviticins." *Chem Sci* **2012**, *3*, 1070.
 50. Herzon S. B., **Woo C. M.** "The diazofluorene antitumor antibiotics: Structural elucidation, biosynthetic, synthetic, and chemical biological studies." *Nat Prod Rep* **2012**, *29*, 87.
 51. Herzon S. B., Lu L.*, **Woo C. M.***, Gholap S. L. "11-Step enantioselective synthesis of (-)-lomaiviticin aglycon." *J Am Chem Soc* **2011**, *133*, 7260. *Authors contributed equally.
 52. **Woo C. M.**, Lu L., Gholap S. L., Smith D. R., Herzon S. B. "Development of a convergent entry to the diazofluorene antitumor antibiotics: Enantioselective synthesis of kinamycin F." *J Am Chem Soc* **2010**, *132*, 2540.
 53. Gholap S. L., **Woo C. M.**, Ravikumar P. C., Herzon S. B. "Synthesis of the fully glycosylated cyclohexenone core of lomaiviticin A." *Org Lett* **2009**, *11*, 4322.
 54. Devji T., Reddy C., **Woo C. M.**, Awale S., Kadota S., Carrico-Moniz D. "Pancreatic anticancer activity of a novel geranylgeranylated coumarin derivative." *Bioorg Med Chem Lett* **2011**, *21*, 5770.
 55. Boonya-udtayan S., Yotapan N., **Woo C. M.**, Bruns C. J., Ruchirawat S., Thasana N. "Synthesis and biological activities of azalamellarins." *Chem Asian J* **2010**, *5*, 2113.
 56. Loehlin J. H., Lee M, **Woo C. M.** "Hydrogen-bond patterns and the structures of 1,4-cyclohexanediol: 2:1 cis:trans-1,4-cyclohexanediol." *Acta Cryst* **2008**, *B64*, 583.

PATENTS

1. **Woo C. M.**, Ichikawa S., Flaxman H. A., Xu W. E3 ligase binders and uses thereof. Patent Application 63/174,389, April 13, 2021.
2. **Woo C. M.**, Miyamoto D. K., Kharas M. Immunomodulatory compounds and uses thereof. Patent Application 63/018122, April 29, 2021.
3. **Woo C. M.**, Ge Y., Ramirez D. H. Nanobody-OGA fusions and uses thereof. Patent Application 63/158,244, March 08, 2021.
4. Koehler A. N., **Woo C. M.**, Henry C., Chang C., Pomplun S., Curtin B. High-throughput method to rapidly add chemical moieties to a small molecule library. Patent Application 63/080,234, September 18, 2020.

5. **Woo C. M.**, Flaxman H. A., Chang C. F. Sangliferin analogs and uses thereof. Patent Application 62/958,910, January 9, 2020.
6. **Woo C. M.**, Gao J., Amako Y., Chang C. F., Lin Z. Determining small molecule–protein and protein–protein interactions. U.S. Patent WO2018226828A3, February 21, 2019.
7. **Woo C. M.**, Ramirez D. H., Aonbangkhen C. Nanobody-glycan modifying enzyme fusion proteins and uses thereof. Patent Application 17/289,613, October 23, 2018.
8. Bertozzi C. R., **Woo C. M.** Cleavable probes for isotope targeted glycoproteomics and methods of using the same. U.S. Patent 10114026B2, December 5, 2014.
9. Herzon S. B., **Woo C. M.**, Glazer P. M. Anti-cancer compounds and methods for treating cancer. U.S. Patent 9346846B1, December 2, 2013.

INVITED LECTURES (*INTENDED)

<i>Department Seminar</i> , Scripps Research*	La Jolla, CA	2023
The Boston Society's Applied Pharmaceutical Chemistry Conference*	Cambridge, MA	2023
<i>Department Seminar</i> , CeTPD, University of Dundee*	Scotland	2023
<i>Department Seminar</i> , Yale University*	New Haven, CT	2023
5th Annual Symposium on Applied Synthesis, Frontiers in Organic Chemistry: Chemical Biology*	New London, CT	2023
<i>Speaker and Session Chair</i> , Ubiquitin, Autophagy and Disease, Cold Spring Harbor Laboratory*	Long Island, NY	2023
<i>Department Seminar</i> , Cornell University*	Ithaca, NY	2023
<i>Department Seminar</i> , University of Chicago*	Chicago, IL	2023
<i>Department Seminar</i> , University of Rhode Island	Kingston, RI	2023
American Chemical Society, CARB Division	Indianapolis, IN	2023
<i>Molecular Glues</i> , Society for Medicines Research SMR	Virtual	2023
<i>Grandpierre Lecture</i> , Department of Chemistry, Columbia University	New York, NY	2023
Keynote, 30 th Anniversary Mizutani Symposium on Glycoscience	Virtual	2022
The Quest for Innovative Molecular Treatment Modalities for Intractable Disease Targets, National Institutes of Health	Virtual	2022
Creativity in Molecular Design and Synthesis, North Jersey ACS Seminar, Merck Research	New Jersey Boston, MA	2022 2022
<i>Seminar</i> , Janssen Research & Development	Virtual	2022
Amgen Young Investigator Award Symposium	Virtual	2022
Chemical Biology and Structure-Function Studies, Society for Glycobiology	Virtual	2022
ChemBio in the Hub, Northeastern Section of the ACS (NEACS)	Virtual	2022
<i>Targeted Protein Degradation Series</i> , Dana Farber Cancer Institute	Virtual	2022
<i>Department Seminar</i> , National Cancer Institute, NIH	Boston, MA	2022
<i>Molecular Glues</i> , American Chemical Society, MEDI Division	Chicago, IL	2022
<i>Biophysical Methods for Target Engagement</i> , American Chemical Society, MEDI Division	Chicago, IL	2022
Max Planck Institute for Molecular Physiology	Dortmund, Germany	2022
<i>Department Seminar</i> , The Hebrew University of Jerusalem	Jerusalem, Israel	2022

<i>Keynote</i> , Medicinal Chemistry Section of the Israel Chemical Society	Rehovot, Israel	2022
Max Planck Chemical Biology Frontiers Symposium	Berlin, Germany	2022
<i>Nutrient Regulation of Cellular Physiology by O-GlcNAcylation</i> , American Society for Biochemistry and Molecular Biology (ASBMB)	Atlanta, GA	2022
<i>Department Seminar</i> , Georgia State University	Atlanta, GA	2022
<i>Annual Symposium</i> , Ono Pharma Foundation	Virtual	2022
<i>Annual Meeting</i> , Empowering Women in Organic Chemistry (EWOC)	Boston, MA	2022
Bioorganic Gordon Research Conference	Andover, NH	2022
Starr Cancer Consortium Retreat	Long Island, NY	2022
<i>Induced Proximity Summit</i> , Hanson Wade	Boston, MA	2022
Common Fund Glycoscience Program, National Institutes of Health	Bethesda, MD	2022
<i>Chemical Biology & Physiology Symposium</i> , Oregon Health and Sciences University	Virtual	2022
<i>Department Seminar</i> , University of Massachusetts at Dartmouth	Virtual	2022
American Chemical Society, CARB and ANYL Division	San Diego, CA	2022
<i>Department Seminar</i> , Molecular Pharmacology and Chemical Biology Programs, Memorial Sloan Kettering	New York, NY	2022
<i>Department Seminar</i> , University of Southern California	Los Angeles, CA	2022
<i>Annual Meeting</i> , Society of Laboratory Automation and Screening	Boston, MA	2022
2 nd International Symposium on Chemistry for Multimolecular Crowding Biosystems, Japan	Virtual	2022
<i>Annual Symposium</i> , Asian Federation for Medicinal Chemistry	Virtual	2021
Chemical & Physical Society, University College London	Virtual	2021
<i>Keynote</i> , Boston Symposium on Organic and Bioorganic Chemistry	Virtual	2021
<i>Department Seminar</i> , Chulalongkorn University	Virtual	2021
4 th Annual Targeted Protein Degradation Summit, Hanson Wade	Virtual	2021
<i>Department Seminar</i> , Boston University Medical School	Boston, MA	2021
<i>Mini-Symposium</i> , Department of Biochemistry & Molecular Biology, University of Georgia in Athens	Virtual	2021
6 th Latin American Glycobiology Congress	Virtual	2021
<i>Chemistry Seminar Series</i> , GlaxoSmithKline	Virtual	2021
European Protein Degradation Congress, Kisaco Research	Virtual	2021
<i>Neurosciences: Degenerative disorders, neuroplasticity & intersection with glycoscience symposium</i> , National Institutes of Health	Virtual	2021
<i>Translating Ideas into Therapies</i> , British Pharmacological Society	Virtual	2021
<i>Department Seminar</i> , Technical University of Darmstadt	Virtual	2021
<i>Keynote</i> , 13 th Frontiers in Chemistry and Biology Interface Symposium (FCBIS), University of Maryland	Virtual	2021
<i>Seminar Series</i> , Genentech	Virtual	2021
<i>Department Seminar</i> , University of California at Berkeley	Virtual	2021
<i>Seminar Series</i> , Vertex	Virtual	2020
<i>Young Investigator Symposium</i> , ACS CARB Division	Virtual	2020

<i>Department Seminar</i> , Dalhousie University	Virtual	2020
<i>Department Seminar</i> , Swiss Federal Institute of Technology Lausanne (EPFL)	Virtual	2020
<i>Annual Meeting</i> , Society for Glycobiology	Virtual	2020
<i>Beyond Degradors</i> , 3 rd Target Protein Degradation Summit	Virtual	2020
<i>Translational Chemical Biology</i> , Dana-Farber Cancer Institute	Virtual	2020
<i>Workshop on Glycoscience and Immunology</i> , National Institutes of Health	Virtual	2020
<i>O-GlcNAc tools workshop</i> , National Institutes of Health	Bethesda, MD	2020
<i>Department Seminar</i> , Wellesley College	Wellesley, MA	2020
<i>Department Seminar</i> , Clark University	Worcester, MA	2020
<i>Department Seminar</i> , Swiss Federal Institute of Technology Zürich (ETH)	Zürich, Switzerland	2020
<i>Seminar Series</i> , Bristol Myers Squibb	Cambridge, MA	2019
<i>Early Excellence Award Symposium</i> , Bayer Science Foundation	Leverkusen, Germany	2019
<i>Drugging the Undrugged</i> , Cell Chemical Biology Lab Links	Cambridge, MA	2019
<i>Division Symposium</i> , American Chemical Society, ORG Division	Virtual	2019
<i>Annual Meeting</i> , International Chemical Biology Society	Cambridge, MA	2019
<i>Chemical Biology Seminar Series</i> , AbbVie	Chicago, IL	2019
<i>Biannual Meeting</i> , American Chemical Society, CARB Division	San Diego, CA	2019
<i>Workshop on Synthetic Organic Chemistry</i> , Organic Syntheses	Steamboat, CO	2019
<i>Seminar Series</i> , Merck	Kenilworth, NJ	2019
Ono Pharma Foundation Symposium, Boston, MA, Jul 1, 2019.	Boston, MA	2019
<i>Department Seminar</i> , University of Hong Kong	Hong Kong, China	2019
Carbohydrate Gordon Research Conference	Hong Kong, China	2019
<i>Glycoimmunology Session</i> , Federation of Clinical Immunology Societies (FOCIS)	Boston, MA	2019
New England Glyco-Chemistry Meeting, Northeastern University	Boston, MA	2019
High Throughput Chemistry and Chemical Biology Gordon Research Conference	New London, NH	2019
Yale Chemical Biology Symposium, Yale University	New Haven, CT	2019
<i>Department Seminar</i> , University of Pennsylvania	Philadelphia, PA	2019
<i>Department Seminar</i> , Wayne State	Detroit, MI	2019
<i>Student-invited Seminar Series</i> , University of Minnesota	Minneapolis, MN	2019
Glycobiology Gordon Research Conference	Barca, Italy	2019
<i>Annual Meeting</i> , Medicinal and Bioorganic Chemistry Foundation	Steamboat Springs, CO	2019
<i>Department Seminar</i> , Department of Chemistry, Boston College	Medford, MA	2018
<i>Creativity in Molecular Design and Synthesis Symposium</i> , NJ ACS	Somerset, NJ	2018

<i>Seminar Series</i> , Amgen	San Francisco, CA	2018
<i>Young Researcher Conference</i> , Alliance for Diversity in Science & Engineering, University of Maryland	College Park, MD	2018
<i>Rising Stars Symposium</i> , International Chemical Biology Society	Vancouver, Canada	2018
American Chemical Society, BIOL and CARB Divisions	Boston, MA	2018
<i>NIH & FDA Glycoscience Research Day</i> , National Institutes of Health	Bethesda, MD	2018
<i>Seminar Series</i> , Jnana Therapeutics	Cambridge, MA	2018
<i>Seminar Series</i> , Novartis Institutes of Biomedical Research	Cambridge, MA	2017
<i>Seminar Series</i> , Chemical biology and therapeutics, Broad Institute	Cambridge, MA	2017
<i>Guppy Tank</i> , Harvard Office of Technology Development and LabCentral	Cambridge, MA	2017
Glycobiology Discussion Group, Harvard Medical School	Boston, MA	2017
Mapping the Human Glycome, Radcliffe Workshop Series	Cambridge, MA	2016
<i>Seminar Series</i> , CHEM-H Postdoc Association, Stanford University	Stanford, CA	2016
<i>Seminar series</i> , Department of Chemistry, Bowdoin College	Brunswick, ME	2016
<i>Rising Stars in Chemical Biology</i> , Department of Biochemistry, University of Utah	Salt Lake City, UT	2015
<i>Seminar Series</i> , Center for Biomedical Mass Spectrometry, Boston University School of Medicine	Boston, MA	2015
<i>Seminar Series</i> , Le Centre de Recherché du CHU de Quebec, University of Laval	Quebec, Canada	2015
<i>Rising Stars in Chemistry Symposium</i> , Department of Chemistry, University of Chicago	Chicago, IL	2015
<i>Stanford CHEM-H Postdoctoral Retreat</i> , Stanford University	Sonoma, CA	2015
<i>Roche Symposium for Excellence in Chemistry</i> , Roche	Nutley, NJ	2012
<i>Seminar Series</i> , Wellesley College	Wellesley, MA	2012
<i>Graduate Student Innovation Symposium</i> , Sigma-Aldrich	Madison, WI	2011

INVITED OUTREACH SEMINARS AND PANELS

<i>Mentorship panel</i> , Carbohydrates Gordon Research Seminar (GRS)	Plymouth, NH	2023
WiCHEM Faculty Lunch Initiative, Harvard Women in Chemistry	Cambridge, MA	2022
<i>Seminar Series</i> , Harvard Chemistry Club	Virtual	2021
<i>Keynote</i> , Harvard Science Research Conference	Virtual	2020
Harvard Life Sciences Outreach for High School Teachers	Cambridge, MA	2019
Harvard Amgen Scholars Program Faculty Discussion	Cambridge, MA	2019
<i>Keynote</i> , Harvard Science Research Conference	Cambridge, MA	2017
MCO Summer Undergraduate Program Discussion Panel	Cambridge, MA	2017
Research Scholar Initiative Discussion Panel	Cambridge, MA	2017
MCO Nanochat Panel	Cambridge, MA	2017
Graduate School in the Sciences Panel, Wellesley College	Wellesley, MA	2011

CONTRIBUTED PRESENTATIONS

NIDA Genetics Consortium Meeting, National Institutes of Health	Bethesda, MD	2019
Bioorganic Gordon Research Conference	Andover, NH	2018
<i>Annual Meeting</i> , American Society for Mass Spectrometry	San Antonio, TX	2016
Jane Coffin Childs Fund Symposium	Interlaken, CT	2016
Burroughs Wellcome Fund New Awardee Meeting	Raleigh, NC	2015
250 th ACS National Meeting	Boston, MA	2015
<i>Annual Meeting</i> , American Society for Mass Spectrometry	St. Louis, MO	2015
Jane Coffin Childs Fund Symposium	New Haven, CT	2015
Yale-Bristol Myers Squibb Symposium	New Haven, CT	2011
<i>Chemical Biology Interface Seminar Series</i> , Yale University	New Haven, CT	2010

TEACHING

- **Chem 17: Principles of Organic Chemistry**, Harvard University (Fall 2018, Fall 2019, Fall 2020). Introduction to mechanistic organic chemistry for premedical students and life sciences concentrators.
- **Chemistry 170: Chemical Biology**, Harvard University (Fall 2016, Fall 2017, Fall 2021, Fall 2022). Introduction to chemical biology methods and technologies for advanced undergraduates and entering graduate students.
- **MCB 358: Nanocourse on Mass Spectrometry**, Harvard University (Jan 2018, Jan 2019, Jan 2020, Feb 2023). Introduction to mass spectrometry for graduate students in the Molecules, Cells, and Organisms and related program.
- **Chem 100R: Research in Chemistry and Chemical Biology**, Harvard University (Fall–Spring 2020). Development of research units for undergraduate chemistry and chemical biology concentrators with a focus on targeted protein degradation and the glycosciences.

PEER REVIEW

Study sections

ZRG1 BBT, <i>Mail in review</i>	2022
NIH MRAB, <i>Ad hoc member</i>	2022
Chan Zuckerberg Biohub	2021
NIH DP1 Avenir IAR, <i>Special emphasis panel</i>	2018–2022
Israel Science Foundation	2021
French National Research Agency	2021
National Science Foundation	2021
Mark Foundation	2020
NIH ZAI1 LAR-X, <i>Special emphasis panel</i>	2020
NIH SBCB, <i>Early career reviewer</i>	2018
German Research Foundation	2018
Milton Fund, Harvard University	2018
Chemical Biology Therapeutics Shark Tank, Broad Institute	2017

Other

Graduate student poster judge, CARB Division, American Chemical Society	2022
Herschel Smith Undergraduate Fellowship, Harvard University	2021–2022
Hoopes Undergraduate Thesis Prize, Harvard University	2021–2022
Rising Star in Chemical Biology, International Chemical Biology Society	2021

Amgen Scholars Undergraduate Program, Harvard University	2020
Chemical Probes Portal	2020–present
Undergraduate Booth Fellowship, Harvard University	2018–2019

Journals

ACS Chemical Biology, ACS Central Science, ACS Med Chem Lett, Angewandte Chemie International Edition, Analyst, Biochemistry, Bioorganic Med Chem, Cell Chemical Biology, Chemical Science, eLife, Journal of the American Chemical Society, Journal of Organic Chemistry, Molecular Systems Biology, Molecular Pharmaceutics, Nature Chemistry, Nature Chemical Biology, Nature Communications, Organic Letters, Organic Biomolecular Chemistry, Scientific Reports

PROFESSIONAL SERVICE AND OUTREACH

Scientific Community

Chemical Proteomics in Health and Disease, International Chemical Biology Society, <i>Session cochair</i>	2021
GlycoNet/ACS Joint Carbohydrate Spring Webinar Series, <i>Organizer</i>	Spring, 2021
NIH Common Fund Glycoscience Workshop on Tools in O-GlcNAc Research	2020
Boston Glycobiology Discussion Group, <i>Vice President</i>	2018–2022
BosLab Sugar Chemistry Meetup, <i>Lead organizer</i>	2019
ACS National Meeting BIOL Division Symposium on “Chemical Immunomodulation”, <i>Session chair</i>	2018

Harvard University

Core Facility Faculty Steering Committee	2019–present
Standing Committee on Degrees in Chemical and Physical Biology	2018–present
Board of Tutors in Biochemical Sciences for Undergraduates	2017–2021
Faculty Reviewer and Interviewer, Molecules Cells and Organisms	2016–2022
Faculty Interviewer, Chemical Biology Graduate Program	2016–2022

Department of Chemistry and Chemical Biology

Senior Preceptor Reappointment Committee	2022
Junior Faculty Search Committee	2021–2022
Curriculum Advising Committee	2018–present
Harvard Chemistry “Future Faculty in Chemistry Symposium”	2018
Graduate Admissions Committee	2016–present
Woodward Colloquium Series	2016–2019
