David B. Sauer, Ph.D.

Centre for Medicines Discovery
NDM Research Building – Univ. of Oxford
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Oxford, OX3 7FZ

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ORCID: 0000-0001-9291-4640

Appointments

2021 - present
Principal Investigator of Membrane Protein Structural and Chemical Biology
Centre for Medicines Discovery - Nuffield Department of Medicine
The University of Oxford

Education

2012 **Ph.D. in Molecular Biophysics**, University of Texas Southwestern Medical Center
Advisor: Youxing Jiang, Ph.D.
Dissertation: Protein Structure and Ion Binding in Potassium Selective Channels

2005 **B.S. in Chemistry** (ACS, Honors Degree), Purdue University
Advisor: Jennifer Hovis, Ph.D.
Honors Thesis: Effect of Micelle Forming Lipids on Membrane Stability

Research Experience

2012 - 2021
Postdoctoral Fellow, New York University School of Medicine - Skirball Institute
Mentor: Professor Da-Neng Wang

2006 - 2012
Graduate Research Assistant, UT Southwestern Medical Center – Dept. of Physiology
Advisor: Professor Youxing Jiang

2003 - 2005
Undergraduate Research Assistant, Purdue University – Dept. of Chemistry
Advisor: Professor Jennifer Hovis

2002 **Undergraduate Research Assistant**, Univ. of Missouri St. Louis – Dept. of Chemistry
Advisor: Professor Keith Stine

Publications and preprints

36. G. Chi†, T. Bohstedt, R. Adamson, A.C.W. Pike, L. Shrestha, O. Cil, M.O. Anderson, M. Izadiar, E. Williams, N.A. Burgess-Brown, J. Elkins, K.L. Duerr, **D.B. Sauer**† "Structural Basis for Inhibition of Human Anion Transporter SLC26A6/PAT-1" (in revision)
DOI: 10.64898/2026.11.01.757131
† - Co-corresponding author

35. J.S. Hansen, A.C.W. Pike, G. Chi, G. Wolf, J. Tranberg-Jensen, H. Lichtmannegger, David Speedman, A. Ingles-Prieto, F. Goericke, H. Batoulis, H. Beck, R. Rao, T. Mirshahi, **D.B. Sauer**, G. Superti-Furga, K.V.M. Huber "High-resolution structures of human NHE6 and NHE9 elucidate endosomal ion and lipid interactions" *Nature Communications* **17**, 10478 (2026) DOI: 10.1038/s41467-026-77254-0

34. **D.B. Sauer**†, J. Song, J.J. Marden, B. Wang, K. Sowerby, J.C. Sudar, W.J. Rice†, D.N. Wang† "Structure of the human sodium-citrate cotransporter NaCT with and without substrates" *Structure* **34**, 1405-1413.e2 (2026) DOI: 10.1016/j.str.2026.08.003
33. A. Daab, Y. Li, J.J. Marden, J. Song, **D.B. Sauer**, D.N. Wang, C. Mulligan "Identification of a conserved structural water as a linchpin in the transport domain of DASS transporters" *PNAS Nexus*, pgag242 (2026) DOI: 10.1093/pnasnexus/pgag242
32. C. Weigel, M.L. Hossen, R.D.R. Brown, C.E. Senkal, C.D. Green, J. Newton, S. Saha, E.N.D. Palladino, B. Ni, F.S. Celi, X. Fang, F. Corwin, H.Z. Li, **D.B. Sauer**, P.P. Chapagain, S. Spiegel "SPNS2 Exports Sphingosine-1-phosphate and Imports Glucose" *Nature Communications,* **17**, 3901 (2026) DOI: 10.1038/s41467-026-71659-7
31. A. Li, **D.B. Sauer**, Y.Y. Dong "Stable cell line production for muscle-type nicotinic receptor expression" *STAR Protocols*, **7**, 104427 (2026) DOI: 10.1016/j.xpro.2026.104427
30. M. Ye, Z. Liang, D. Zhou, A.C.W. Pike, S.Y. Wang, D. Wang, S. Bakshi, L. Brooke, E.P. Williams, J.M. Elkins, B.M. Kessler, D.I. Stuart, **D.B. Sauer** "Amino acid and viral binding by the high-affinity Cationic Amino acid Transporter 1 (CAT1) from *Mus musculus*" *Nature Communications*, **17**, 2829 (2026) DOI: 10.1038/s41467-026-69421-0
29. C.D. Kinz-Thompson, M.L. Redondo, C. Mulligan, **D.B. Sauer**, J.J. Marden, J. Song, E. Tajkhorshid, J.F. Hunt, D.L. Stokes, J.A. Mindell, D.N. Wang, R.L. Gonzalez "Elevator mechanism dynamics in a sodium-coupled dicarboxylate transporter" *Proc. Natl. Acad. Sci. USA*, **123**, e2500723123 (2026) DOI: 10.1073/pnas.2500723123
28. G. Yi, D. Mamalis, M. Ye†, L. Carrique, M. Fairhead, H. Li, K.L. Duerr, P. Zhang, **D.B. Sauer**†, F. von Delft†, B.G. Davis†, R.J.C. Gilbert†. "Di-Gluebodies: Rigid modular nanobody protein assemblies enabling simultaneous determination of high-resolution cryo-EM structures" *Nature Chem. Bio.* **22**, 69-76 (2026) DOI: 10.1038/s41589-025-01972-7
    Commented on by:
    M.S.A. Gilman and M.A. Skiba "Hidden gems bring proteins into view" *Nature Chemical Biology* (2025)
27. T. Wiedmer, S.T. Teoh, E. Christodoulaki, G. Wolf, C. Tian, V. Sedlyarov, A. Jarret, P. Leippe, F. Frommelt, A. Ingles-Prieto, S. Lindinger, B.M.G. Barbosa, S. Onstein, C. Klimek, J. Garcia, I. Serrano, D. Reil, D. Santacruz, M. Piotrowski, S. Noell, C. Bueschl, H. Li, G. Chi, S. Meireiter, T. Oliveira, J.M. Penninger, **D.B. Sauer**, C.M. Steppan, C. Viollet, K. Klavins, J.T. Hannich, U. Goldmann, G. Superti-Furga "Metabolic mapping of the entire human solute carrier superfamily" *Mol. Syst. Biol.* **21**, 560-698 (2025) DOI: 10.1038/s44320-025-00106-4
26. A. Li, A.C.W. Pike, R. Webster, S. Maxwell, W.Wei Liu, G. Chi, J. Palace, D. Beeson, **D.B. Sauer**, Y.Y. Dong "Structures of the human adult muscle-type nicotinic receptor in resting and desensitised states" *Cell Reports*. **44**: 115581 (2025) DOI: 10.1016/j.celrep.2025.115581
25. L. van Veggel, M. Schepers, A. Tiane, V. Kumar, E. Willems, B. Rombaut, J. Noordijk, T. Vangansewinkel, B. Ozcan, E. Nouboers, P. Moya, **D.B. Sauer**, H. Diliën, N. Hellings, R. Schreiber, T. Vanmierlo "EAAT3 modulation: a potential novel avenue towards remyelination in Multiple Sclerosis" *Biomed. Pharmacother.* **186**:117960 (2025) DOI: 10.1016/j.biopha.2025.117960

24. H.Z. Li, A.C.W. Pike, Y.N. Chang, D. Prakaash, Z. Gelova, J. Stanka, C. Moreau, H.C. Scott, F. Wunder, G. Wolf, A. Scacioc, G. McKinley, H. Batoulis, S. Mukhopadhyay, A. Garofoli, A. Pinto-Fernández, B.M. Kessler, N.A. Burgess-Brown, S. Štefanić, T. Wiedmer, K.L. Dürr†, V. Puetter†, A. Ehrmann†, S. Khalid†, A. Ingles-Prieto†, G. Superti-Furga†, **D.B. Sauer**†. "Transport and inhibition of the sphingosine-1-phosphate exporter SPNS2" *Nature Comm.*, **16**:721 (2025) DOI: 10.1038/s41467-025-55942-7
23. T.C. Pascoa†, A.C.W. Pike, C.S. Tautermann, G. Chi, M. Traub, A. Quigley, R. Chalk, S. Štefanic, S. Thamm, A. Pautsch, E.P. Carpenter†, G. Schnapp†, **D.B. Sauer**† "Structural basis of the mechanism and inhibition of a human ceramide synthase" *Nat. Struct. Mol. Biol.* **32**, 431-440 (2024) DOI: 10.1038/s41594-024-01414-3
22. Z. Gelova, A. Ingles-Prieto, T. Bohstedt, F. Frommelt, G. Chi, Y.N. Chang, J. Garcia, G. Wolf, L. Azzollini, S. Tremolada, A. Scacioc, J.S. Hansen, I. Serrano, A. Droce, J.C. Bernal, N.A. Burgess-Brown, E.P. Carpenter, K.L. Duerr, P. Kristensen, E.R. Geertsma, S. Stefanic, L. Scarabottolo, T. Wiedmer, V. Puetter, **D.B. Sauer**, G. Superti-Furga. "Protein binder toolbox for studies of solute carrier transporters" *J. Mol. Biol.* **436**: 168665 (2024) DOI: 10.1016/j.jmb.2024.168665
21. D. Digles, A. Ingles-Prieto, V. Dvorak, T.A.M. Mocking, U. Goldmann, A. Garofoli, E.J. Homan, A. Di Silvio, L. Azzollini, F. Sassone, M. Fogazza, F. Bärenz, A. Pommereau, Y. Zuschlag, J.F. Ooms, J. Tranberg-Jensen, J.S. Hansen, J. Stanka, H.J. Sijben, H. Batoulis, E. Bender, R. Martini, A.P. IJzerman, **D.B. Sauer**, L.H. Heitman, V. Manolova, J. Reinhardt, A. Ehrmann, P. Leippe, G.F. Ecker, K.V.M. Huber, T. Licher, L. Scarabottolo, T. Wiedmer, G. Superti-Furga. "Advancing Drug Discovery through Assay Development: A Survey of Tool Compounds within the Human Solute Carrier Superfamily" *Front. Pharmacol.* **15**:1401599 (2024) DOI: 10.3389/fphar.2024.1401599
20. H.Z. Li, A.C.W. Pike, G. Chi, J.S. Hansen, S.G. Lee, K.E.J. Rödström, S.R. Bushell, D. Speedman, A. Evans, D. Wang, D. He, L. Shrestha, C. Nasrallah, N.A. Burgess-Brown, T.R. Dafforn†, E.P. Carpenter†, **D.B. Sauer**† "Structure and function of the SIT1 proline transporter in complex with the COVID-19 receptor ACE2" *Nature Comm*., **15**:5503 (2024) DOI: 10.1038/s41467-024-48921-x
19. Q. Liang, G. Chi, L. Cirqueira, L. Zhi, A. Marasco, N. Pilati, M.J. Gunthorpe, G. Alvaro, C.H. Large, **D.B. Sauer**, W. Treptow, M. Covarrubias "The binding site and mechanism of action of a selective positive allosteric modulator of Kv3 channels" *Nature Comm*., **15**:2533 (2024) DOI: 10.1038/s41467-024-46813-8
18. L. van Veggel, T. Mocking, H. Sijben, R. Liu, M. Gorostiola Gonzalez, M. Dilweg, J. Royakkers, A. Li, V. Kumar, Y. Dong, A. Bullock, **D. B. Sauer**, H. Diliën, G. van Westen, R. Schreiber, L. Heitman, T. Vanmierlo. "Still in search for an EAAT activator: GT949 does not activate EAAT2, nor EAAT3 in impedance and radioligand uptake assays" *ACS Chem. Neurosci.,* **15**, 1424-1431 (2024) DOI: 10.1021/acschemneuro.3c00731
17. S. Raturi, H. Li, Y.N. Chang, A. Scacioc, T. Bohstedt, A. Fernandez-Cid, A. Evans, P. Abrusci, A. Balakrishnan, T.C. Pascoa, D. He, G. Chi, N. Kaur Singh, M. Ye, A. Li, L. Shrestha, D. Wang, E.P. Williams, N.A. Burgess-Brown†, K.L. Dürr†, V. Puetter†, A. Ingles-Prieto†, **D.B. Sauer**† "High-throughput expression and purification of human solute carriers for structural and biochemical studies" *J. Vis. Exp.,* **199**, e65878, (2023) DOI: 10.3791/65878

16. H. Tang, H. Li, D. Prakaash, C. Pedebos, X. Qiu, **D.B. Sauer**, S. Khalid, K. Duerr, C.V. Robinson "The solute carrier SPNS2 binds to PI(4,5)P2 to allosterically regulate transport of sphingolipid-1-phosphate" *Mol. Cell*, **83**, 1-14 (2023)
DOI: 10.1016/j.molcel.2023.06.033
15. **D.B. Sauer**, J.J. Marden, J.C. Sudar, J. Song, C. Mulligan, D.N. Wang "Structural basis of ion-substrate coupling in the Na^+-dependent dicarboxylate transporter VcINDY" *Nature Comm.,* **13**:2644 (2022) DOI: 10.1038/s41467-022-30406-4
14. D.N. Brawley, **D.B. Sauer***, J. Li*, X. Zheng*, A. Koide*, G.S. Jedhe, T. Suwatthee, J. Song, Z. Liu, P.S. Arora, S. Koide, V.J. Torres, D.N. Wang, N.J. Traaseth "Structural basis for inhibition of the efflux pump NorA from *S. aureus*" *Nature Chem. Bio.,* **18**, 706-712 (2022) DOI: 10.1038/s41589-022-00994-9
*- Authors contributed equally
Commented on by:
A. Penmatsa "A (Fab)ulous tool to block efflux" *Nature Chemical Biology* (2022)
13. **D.B. Sauer**, B. Wang, J.C. Sudar, J. Song, J. Marden, W.J. Rice, D.N. Wang "The ups and downs of elevator-type di-/tricarboxylate membrane transporters" *FEBS J*, **289**, 1515-1523 (2022) DOI: 10.1111/febs.16158
12. **D.B. Sauer**† and D.N. Wang† "Using machine learning to predict quantitative phenotypes from protein and nucleic acid sequences" DOI: 10.1101/677328
11. **D.B. Sauer**, J. Song, B. Wang, J.K. Hilton, N.K. Karpowich, J.A. Mindell, W.J. Rice, D.N. Wang "Structure and inhibition mechanism of the human citrate transporter NaCT" *Nature*, **591**, 157-161 (2021) DOI: 10.1038/s41586-021-03230-x
10. **D.B. Sauer**, N. Trebesch, J.J. Marden, N. Cocco, J. Song, A. Koide, S. Koide, E. Tajkhorshid, D.N. Wang "Structural basis for the reaction cycle of DASS dicarboxylate transporters" *eLife*; **9**:e61350 (2020) DOI: 10.7554/eLife.61350
Commented on by:
A.W. Duster and H. Lin "Membrane Transport: Riding elevators into and out of cells" *eLife* **9**:e62925 (2020)
9. **D.B. Sauer**† and D.N. Wang† "Predicting the Optimal Growth Temperatures of Prokaryotes using only Genome Derived Features" *Bioinformatics,* **18**, 3224-3231 (2019) DOI: 10.1093/bioinformatics/btz059
8. **D.B. Sauer**†, N.K. Karpowich, J. Song, D.N. Wang† "Rapid Bioinformatic Identification of Thermostabilizing Mutations" *Biophys. J.,* **107**, 1420-1428 (2015)
DOI: 10.1016/j.bpj.2015.07.026
Commented on by:
C.G. Tate "Identifying Thermostabilizing Mutations in Membrane Proteins by Bioinformatics" *Biophys. J.,* **107**, 1307-1308 (2015)
7. Y.L. Lam*, W. Zeng*, **D.B. Sauer***, Y. Jiang "The Conserved Potassium Channel Filter Can Have Distinct Ion Binding Profiles - Structural Analysis of Rubidium, Cesium and Barium Binding in NaK2K" *J. Gen. Physiol.,* **114**, 181-192 (2014)
DOI: 10.1085/jgp.201411191
6. **D.B. Sauer**, W. Zeng, J. Canty, Y. Jiang "Sodium and Potassium competition in Potassium-selective and Non-selective Channels" *Nature Comm.*, **4**:2721 (2013)
DOI: 10.1038/ncomms3721

5. C. Kong, W. Zeng, S. Ye, L. Chen, **D.B. Sauer**, Y. Lam, M.G. Derebe, Y. Jiang "Distinct Gating Mechanisms revealed by the structures of a multi-ligand gated K^+ channel" *eLife*, **1**:e00184 (2012) DOI: 10.7554/eLife.00184
4. J. Liao, H. Li, W. Zeng, **D.B. Sauer**, R. Belemares, Y. Jiang "Structural Insight into the Ion Exchange Mechanism of Sodium/Calcium Exchanger" *Science*, **335**, 686-690 (2012) DOI: 10.1126/science.1215759
   Commented on by:
   J. Abramson, A. Paz, K.D. Philipson "It's All in the Symmetry" *Science,* **335**, 669-670 (2012)
3. **D.B. Sauer**, W. Zeng, S. Raghunathan and Y. Jiang "Protein Interactions Central to Stabilizing the K+ Channel Selectivity Filter in a 4-sited Configuration for Selective K^+ Permeation" *Proc. Natl. Acad. Sci. USA*, **108**, 16634-16639 (2011) DOI: 10.1073/pnas.1111688108
2. M.G. Derebe*, **D.B. Sauer***, W. Zeng, A. Alam, N. Shi and Y. Jiang "Tuning the Ion Selectivity of Tetrameric Cation Channels by Changing the Number of Ion Binding Sites" *Proc. Natl. Acad. Sci. USA*, **108**, 598-602 (2011) DOI: 10.1073/pnas.1013636108
1. M.C. Hull, **D.B. Sauer**, and J.S. Hovis "The Influence of Lipid Chemistry on the Osmotic Response of Cell Membranes: Effect of Non-Bilayer Forming Lipids," *J. Phys. Chem. B,* **108**, 15890 -15895 (2004) DOI: 10.1021/jp049845d

Invited commentaries

5. **D.B. Sauer** "Collaborating to study the transport and inhibition of the immunoregulatory sphingosine-1-phosphate exporter SPNS2" *SpringerNature Research Communities* link
4. D. Speedman and **D.B. Sauer** "Pho Pictures Provide Powerful Perspectives of Phosphate imPorting Proteins" *Structure*, **32**, 849-850 (2024) DOI: 10.1016/j.str.2024.06.006
3. **D.B. Sauer** and D.N. Wang *F1000* DOI: 10.3410/f.736896727.793569133
2. **D.B. Sauer** and D.N. Wang *F1000* DOI: 10.3410/f.733640382.793551250
1. **D.B. Sauer** and D.N. Wang *F1000* DOI: 10.3410/f.733379480.793547266

Funding

2026 - 2027 Jain Foundation (PI)
2026 - 2030 DPhil studentship with Lilly (Co-PI)
2026 - 2027 TESS Foundation and RTW Foundation (PI)
2026 - 2029 Gr-ADI consortium (Co-PI)
2025 - 2027 Royal Society International Exchange (PI)
2025 - 2026 TESS Foundation (PI)
2025 - 2026 John Fell Fund (PI)
2025 - 2027 Novo Nordisk Foundation (PI)
2024 - 2028 DPhil studentship with Syngenta (PI)
2024 - 2027 Medical Research Council Research Grant (Co-PI)
2024 - 2025 Macular Society Seedcorn Grant (PI)
2023 - 2024 Medical Sciences Internal Fund: Pump-Priming (PI)
2022 - 2023 Royal Society Research Grant (PI)
2017 - 2019 American Cancer Society Postdoctoral Fellowship (PI)

2016 - 2017 Department of Defense Horizon Award (PI)
2007 - 2010 NIH Predoctoral Institutional Research Training Grant (Awardee)

Patents

1. S. Koide, D.N. Wang, N. Traaseth, A. Koide, D. Brawley, D. Sauer U.S. Patent Application Number PCT/US22/39572 "NorA Inhibitors and Methods of Use" Published 2023

Teaching Experience

2024 Centre for Artificial Intelligence in Precision Medicine lecture
2004 Chemistry Tutor, Purdue University Department of Pharmacology

Student Advising

DPhil Students: 5, Undergraduate Research Assistants/Interns: 4
Student awards: 3

Scientific Trainees

Senior Scientists: 2, Postdoctoral Fellows: 8, Lab Technicians: 2
Trainee awards: 1

Academic Service

Thesis committees: 4, Viva examinations: 4
2025 - 2026 NDM Clinical Medicine application and interview committee

Scientific Outreach

2025 Biological Cryo-Imaging User Meeting & CCP-EM Spring Symposium link
2023 Protein binders recognizing specific solute carrier (SLC) transporters link
2021 Targeting Membrane Transporters, Target 2035 link

Professional Activities

2026 - present Secretary, International Transmembrane Transporter Society
2025 Co-Organizer, Oxford Membrane Protein Forum spring meeting
2024 - present Co-Organizer, Oxford CMD-STRUBI Mini-Symposium series
2022 - present Senior Radiation Protection Supervisor, Centre for Medicines Discovery
2022 - present Member, Nuffield Department of Medicine Health and Wellbeing Steering Group
2022 - 2023 Representative of Centre for Medicines Discovery to Kavli Institute Board
2021 - 2026 Organizer, Centre for Medicines Discovery Internal Seminar Series
2021 - 2023 Lead, Resolute Consortium Work Package 5
2021 PI Lead, Centre for Medicines Discovery DPhil Symposium
2020 Co-Organizer, Biophysical Society Membrane Transport Mini-Symposium
2019 - 2021 Organizer, NYU Medical Center CryoEM Discussion Group
2019 Organizing Committee, NYU Medical Center Skirball Institute Retreat
2018 - 2021 Associate Faculty Member, F1000Prime
2004 President, Purdue Science Student Council
2002 - 2005 Member, Purdue Science Student Council

Peer Reviewing of Manuscripts

Nature Structural and Molecular Biology
Nature Communications
Proceedings of the National Academy of Sciences USA (PNAS)
The EMBO Journal
Structure
Life Science Alliance
Journal of Molecular Biology
PLoS Biology
BMC Genomics
Microbes and Environments
The Microbe
Protein Expression and Purification
Computational and Structural Biotechnology Journal
Protein Science
Mammalian Genome
International Journal of Biological Macromolecules
Phytomedicine Plus
Biomedicine & Pharmacotherapy
Biochemical Pharmacology
hLife

Peer Reviewing of Grants

Instruct-ERIC
Vanderbilt University's Diabetes Research and Training Center
Israel Science Foundation

Honors and Awards

2026 Research Superhero Award, TESS Research Foundation
2025 Cover *Cell Reports* Vol. 44 No. 5
2020 Poster Award, New York Structural Biology Discussion Group
2014 Biophysics Wiki-edit Contest Winner, Biophysical Society
2014 Cover *Journal of General Physiology* Vol. 144 No. 2
2013 Outstanding Poster Presentation, NYU Medical Center Skirball Institute Retreat
2005 Dale W. Margerum Undergraduate Research Award, Purdue Univ. - Dept. of Chemistry
2005 Outstanding Research Award, Purdue University - Undergraduate Research Symposium
2004 Harrison M. Stine Memorial Scholarship, Purdue University - Dept. of Chemistry
2004 Best Science Paper Award, Butler University Undergraduate Research Conference

Invited Seminars and Oral Presentations

2026 Magnesium Symposium
2026 World Congress of Basic and Clinical Pharmacology
2026 WEHI (The Walter and Eliza Hall Institute of Medical Research)
2026 CSL Melbourne
2026 University of Queensland
2026 SLC13A5 Research Conference

2026 UK-Japan-Korea Open Innovation Forum for Quality of Life
2026 University of Glasgow – Centre for Viral Research
2025 Vanderbilt University – Center for Structural Biology and Institute of Chemical Biology
2025 PEGS Europe: Protein & Antibody Engineering Summit
2025 Protein Structure Determination in Industry meeting
2025 All Things BLV Conference
2025 FEBS Emerging Insights from Structural Biology into Molecular Mechanisms of Diseases keynote
2025 Aston University – Institute for Membrane Excellence
2025 Diamond Biological Cryo-imaging User Meeting keynote
2025 EUbOpen Consortium Final Conference
2024 Oxford AMR Network – October meeting
2024 SLC13A5 Research Conference
2024 University of Copenhagen –Transporter Collaborative meeting
2024 Gordon Research Conference – Ligand Recognition and Molecular Gating
2024 Baylor College of Medicine – Department of Biochemistry and Molecular Pharmacology
2024 Alzheimer's Research UK – Oxford Drug Discovery Institute Collaborators Meeting
2023 Resolute Consortium Final Conference
2023 Brain in Flux – MSCA NeuroTrans Satellite Symposium
2023 Medical University of Vienna – Center of Physiology and Pharmacology
2023 University of Kent – School of Biosciences
2022 University of Oxford – OxBacNet Symposium
2022 SLC13A5 International Research Roundtable
2022 EFMC-ACS MEDI Joint Symposium
2022 University of Oxford – Division of Structural Biology
2022 University of British Columbia – Department of Biochemistry
2021 Target2035 Webinar
2021 University of Oxford – Centre for Medicines Discovery
2020 Biophysical Society Membrane Transport Mini-Symposium
2012 Howard Hughes Medical Institute – Janelia Research Campus

Poster Presentations

2024 EUbOpen Consortium Annual Meeting
2024 Gordon Research Conference - Ligand Recognition and Molecular Gating
2024 Gordon Research Conference - Glycolipid and Sphingolipid
2023 British Crystallography Association Biological Structures Group - Winter Meeting
2023 Resolute Consortium Final Conference
2023 Brain in Flux - MSCA NeuroTrans Satellite Symposium
2022 Ineos Institute Oxford - Multidisciplinary Approaches to Antimicrobial Resistance
2022 Biophysical Society Thematic Meeting - Physical and Quantitative Approaches to Overcome Antibiotic Resistance
2021 Biophysical Society Annual Meeting
2020 New York Structural Biology Discussion Group Winter Meeting
2019 New York Area CryoEM Second Meeting
2019 New York Structural Biology Discussion Group Summer Meeting
2019 New York Area CryoEM First Meeting

2018 American Cancer Society Jiler Conference
2015 Biophysical Society Annual Meeting
2012 Gordon Research Conference - Ion Channels
2011 Howard Hughes Medical Institute Annual Meeting
2005 Biophysical Society Annual Meeting
2004 Butler University Undergraduate Research Conference
2004 Biophysical Society Annual Meeting
2003 Turkey Run Analytical Conference