

## Melinda M. Diver, Ph.D.

Memorial Sloan Kettering Cancer Center  
Sloan Kettering Institute  
Assistant Member, Structural Biology

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### POSITIONS

**Memorial Sloan Kettering Cancer Center** 2021 – present  
**Assistant Member** in the Structural Biology Program  
**Assistant Professor** in the Gerstner Sloan Kettering Graduate School of Biomedical Sciences, Weill Cornell Graduate School of Medical Sciences Biochemistry, Structural Biology, Cell Biology, Developmental Biology, and Molecular Biology (BCMB) Allied and Physiology, Biophysics, and Systems Biology (PBSB) Programs, Tri-Institutional PhD Program in Chemical Biology, Tri-Institutional MD-PhD Program, Weill Cornell Molecular Biophysics Training Program

### EDUCATION

**University of California, San Francisco** 2016 – 2021  
**Postdoctoral Research Fellow** in the Department of Physiology  
Mentor: David Julius, Ph.D.  
Close Collaborator: Yifan Cheng, Ph.D.

**Weill Cornell Graduate School of Medical Sciences** 2007 – 2014  
**Ph.D.** in Biochemistry and Structural Biology (degree conferred January 2015)  
Mentor: Stephen Long, Ph.D. (Memorial Sloan Kettering Cancer Center)

**University of British Columbia** 2002 – 2007  
**B.Sc. Honors** in Biochemistry (Co-operative Education Program)

### PUBLICATIONS

**Diver, M.M.\***, Lin King, J.V.\*, Julius, D. & Cheng, Y. Sensory TRP channels in three dimensions. *Annu. Rev. Biochem.* 91, 629-649 (2022).

\*These authors contributed equally to this article.

**Diver, M.M.**, Cheng, Y. & Julius, D. Structural insights into TRPM8 inhibition and desensitization. *Science*. 365, 1434-1440 (2019).

**Diver, M.M.**, Pedi, L., Koide, A., Koide, S. & Long, S.B. Atomic structure of the eukaryotic intramembrane RAS methyltransferase ICMT. *Nature* 553, 526-529 (2018).

**Diver, M.M.** & Long, S.B. Mutational analysis of the integral membrane methyltransferase isoprenylcysteine carboxyl methyltransferase (ICMT) reveals potential substrate binding sites. *J. Biol. Chem.* 289, 26007-26020 (2014).

Hou, X., Pedi, L., **Diver, M.M.** & Long, S.B. Crystal structure of the calcium release-activated calcium channel Orai. *Science* 338, 1308-1313 (2012).

Garrey, S.M., Blech, M., Riffel, J.L., Hankins, J.S., Stickney, L.M., **Diver, M.**, Roger Hsu Y., Kunanithy, V. & Mackie, G.A. Substrate binding and active site residues in RNase E and G: the role of the 5'-sensor. *J. Biol. Chem.* 284, 31843-31850 (2009).

Keppetipola, N., Jain, R., Meineke, B., **Diver, M.** & Shuman, S. Structure-activity relationships in *Kluyveromyces lactis*  $\gamma$ -toxin, a eukaryal tRNA anticodon nuclease. *RNA* 15, 1036-1044 (2009).

## FUNDING

2021 – 2026 Josie Robertson Investigator, Memorial Sloan Kettering Cancer Center  
(5 years)  
Role: PI, Amount: \$1,500,000

2019 – 2024 NIH Pathway to Independence Award (K99/R00), National Center for Complementary and Integrative Health (NCCIH) (5 years)  
Mechanistic studies of the menthol receptor TRPM8: A novel target for analgesic drugs  
Role: PI, Amount: \$242,460 (K99) + \$747,000 (R00)

2017 – 2019 A. P. Giannini Postdoctoral Fellowship and Career Award, A. P. Giannini  
(3 years)  
Elucidating the structural basis of cold sensation  
Role: PI, Amount: \$156,000

2017 NIH Ruth L. Kirchstein Postdoctoral Individual National Research Service Award (F32), National Institute of Neurological Disorders and Stroke (NINDS) (3 years - Declined upon accepting A. P. Giannini Postdoctoral Fellowship and Career Award)  
Elucidating the structural basis of cold sensation  
Role: PI, Amount: \$178,590

2017 American Heart Association Postdoctoral Fellowship, American Heart Association (2 Years - Declined upon accepting A. P. Giannini Postdoctoral Fellowship and Career Award)  
Elucidating the structural basis of cold sensation  
Role: PI, Amount: \$106,532

2012 – 2013 American Heart Association Pre-doctoral Fellowship, American Heart Association (2 Years)  
Three-dimensional structure and mechanism of isoprenylcysteine carboxymethyltransferase  
Role: PI, Amount: \$44,000

- 2010 – 2011 Dorris J. Hutchinson Fellowship, Memorial Sloan Kettering Cancer Center  
(1 Year)  
Atomic structure and mechanism of the cancer drug target ICMT  
Role: PI, Amount: Full Stipend + \$2,000
- 2007 DAAD RISE professional Scholarship, German Academic Exchange Service  
(2 Months)  
Role: PI, Amount: Full Stipend
- 2005 Undergraduate Student Research Award, Natural Science and Engineering  
Research Council of Canada (16-weeks)  
Role: PI, Amount: Full Stipend

## RESEARCH TRAINING EXPERIENCE

### Postdoctoral Research Fellow

04/2016 – 08/2021

*University of California, San Francisco, Department of Physiology, San Francisco, CA, USA*

Mentor: David Julius, Ph.D.

Close Collaborator: Yifan Cheng, Ph.D.

Project: Structural and mechanistic studies of the cold and menthol receptor TRPM8

Delineated molecular mechanisms of cation transport by the cold- and menthol-sensitive receptor, transient receptor potential melastatin 8 (TRPM8), using single-particle cryo-electron microscopy (cryo-EM) and electrophysiological studies, thereby revealing how this important somatosensory ion channel binds and responds to ligands and cellular regulatory factors.

Work published in *Science* (2019). Work funded through an A.P. Giannini postdoctoral fellowship and a NIH K99 transition award.

### Postdoctoral Research Fellow

11/2014 – 03/2016

*Memorial Sloan Kettering Cancer Center, Structural Biology Program, New York, NY, USA*

Mentor: Stephen Long, Ph.D.

Project: Structural studies of the eukaryotic integral membrane methyltransferase ICMT

As a continuation of my doctoral research, determined the X-ray crystal structure of isoprenylcysteine carboxyl methyltransferase (ICMT), a promising therapeutic target for Ras-driven cancers, providing insight into how this intramembrane enzyme facilitates the access of reactants that have dramatically different physiochemical properties to a common active site while maintaining specificity for its diverse substrates.

Work published in *Nature* (2018).

### Doctoral Training

3/2008 – 10/2014

*Memorial Sloan Kettering Cancer Center, Structural Biology Program, New York, NY, USA*

Mentor: Stephen Long, Ph.D.

Defense Chairperson: Minkui Luo, Ph.D.

Thesis Committee Members: Christopher Lima, Ph.D. and Stewart Shuman, M.D., Ph.D.

Dissertation: Structural and functional studies of the eukaryotic integral membrane methyltransferase ICMT

Made significant progress towards determining the X-ray crystal structure of ICMT through its purification, biochemically characterization, and initial crystallization. Large-scale scanning mutagenesis of ICMT led to the identification of amino acid residues critical for substrate binding and catalysis.

Work published in *J. Biol. Chem.* (2014). Work funded through Dorris J. Hutchinson and American Heart Association predoctoral fellowships.

Contributed to the X-ray structure determination of the calcium-release activated channel (CRAC), Orai, providing insight into its selective calcium permeation and gating.

Work published in *Science* (2012).

**Rotation Student**

1/2008 – 3/2008

*Memorial Sloan Kettering Cancer Center, Molecular Biology Program, New York, NY, USA*

Mentor: Stewart Shuman, M.D., Ph.D.

Characterized the enzymatic activity of the tRNA anticodon nuclease  $\gamma$ -toxin.

Work published in *RNA* (2009).

**Rotation Student**

9/2007 – 12/2007

*Memorial Sloan Kettering Cancer Center, Molecular Biology Program, New York, NY, USA*

Mentor: Kenneth Mariani, Ph.D.

Studied the reactivation of stalled DNA replication forks using *in vitro* reconstitution.

**DAAD RISE professional Intern**

6/2007 – 7/2007

*Bayer Technology Services, Leverkusen, Germany*

Mentor: Christoph Methfessel, Ph.D.

Studied ion transport in small cell lung cancer cells (SCLCs) using automated patch-clamp.

Work funded through a DAAD RISE professional scholarship.

**Honors Student Researcher**

9/2006 – 4/2007

*University of British Columbia, Department of Biochemistry and Molecular Biology, Vancouver, BC, Canada*

Mentor: George Mackie, Ph.D.

Dissertation: The 5'-monophosphate sensor in Ribonuclease G

Uncovered which amino acid residues of the RNase E/G endoribonucleases contribute to substrate binding and catalysis.

Work published in *J. Biol. Chem.* (2009).

**Co-op Student Researcher**

1/2006 – 8/2006

*Universität Halle-Wittenberg, Institut für Biochemie, Halle, Germany*

Mentor: Elmar Wahle, Ph.D.

Investigated mRNA deadenylation using various biochemical approaches.

**Co-op Student Researcher**

9/2005 – 12/2005

*James Hogg Research Centre at St. Paul's Hospital, Department of Medicine, Vancouver, BC, Canada*

Mentors: Keith Walley, M.D. and James Russell, M.D.

Explored innate immunity genes associated with severe infection susceptibility in cardiac surgery and intensive care patients using genetic polymorphism studies.

**Co-op Student Researcher**

5/2005 – 8/2005

*University of British Columbia, Department of Botany, Vancouver, BC, Canada*

Mentor: Xin Li, Ph.D.

Screened for genes critical for signal transduction pathways of plant disease resistance.

Work funded through a Natural Science and Engineering Research Council of Canada undergraduate student fellowship.

## MENTORING AND TEACHING EXPERIENCE

### Lecturer

Impart scientific proficiency through the development of higher cognitive skills, especially analyzing, evaluating, and synthesizing evidence through teaching graduate courses within the fields of biology, neuroscience, and biochemistry, and in particular structural biology, membrane protein function, and sensory biology. Deliver formal lectures, guide discussions of primary literature, and develop and evaluate research-based exercises with relevance to Diver lab interests.

*Weill Cornell Graduate School of Medical Sciences BCMB Allied Program*

**Biochemistry Core Course** 2023 – present

Lecture title: Membrane transport and fluxes

*Weill Cornell Graduate School of Medical Sciences BCMB Allied Program*

**Logic and Critical Analysis** 2022 – present

Discussion leader (4 sections): Reinforce how to think along a logical path and critically analyze information and data through analysis of primary literature.

*Tri-Institutional PhD Program in Chemical Biology*

**Chemistry in Biology and Medicine** 2022 – present

Lecture title: Ion channel physiology

*Tri-Institutional PhD Program in Chemical Biology*

**Student Research in Progress Seminar Series** 2022 – present

Faculty mentor (4 seminars per year): Attend seminar series to provide constructive feedback on both the presentations and the science of the presenting graduate students.

*Gerstner Sloan Kettering Graduate School of Biomedical Sciences*

**Core Course – Mechanistic Biology I** 2021 – present

Lecture title: Elucidating protein function and mechanism

### Research Mentor

Mentored numerous undergraduate, postbaccalaureate, graduate student, and postdoctoral fellow trainees, including members of underrepresented groups. Responsible for overseeing project design and management, teaching of laboratory techniques, and daily guidance. Aim to foster independence and prepare trainees for chosen career trajectory.

*Diver Lab, Memorial Sloan Kettering Cancer Center, New York, NY, USA*

**Kathryn Enquist (Undergraduate Summer Student)** 2023 – present

**Nataniel Janer Pagán (MSK Bridge Postbaccalaureate)** 2023 – present

**Heather Soileau (PhD Candidate – Rotation Student)** 2023 – present

**Karl Lin (PhD Candidate – Rotation Student)** 2023

Current status: PhD Candidate at Tri-Institutional PhD Program in Chemical Biology

**Qinyu Zhu, Ph.D. (Postdoctoral Fellow)** 2022 – present

**Claudia Edgar (PhD Candidate – Rotation Student)** 2022

Current status: PhD Candidate at Weill Cornell Graduate School of Medical Sciences

**Omar Almakki (Research Technician)** 2022 – present

*Julius Lab, University of California, San Francisco, CA, USA*

**Adamo Mancino (PhD Candidate)** 2020 – 2021

Current status: PhD Candidate at University of California, San Francisco

**Moses Kwang Jin Chung (Undergraduate Summer Student)** 2017

Current status: MD/PhD Candidate at Washington University School of Medicine in St. Louis

*Long Lab, Memorial Sloan Kettering Cancer Center, New York, NY, USA*

**James Ascioffa (PhD Candidate)** 2013

Current status: Postdoctoral Fellow at Icahn School of Medicine at Mount Sinai

**David Kerr, M.D. (Undergraduate Summer Student)** 2013

Current status: Resident, Orthopedic Surgery, Duke University School of Medicine

**Jonathan Steinman, M.D., Ph.D. (MD-PhD Candidate)** 2010

Current status: Resident, Pediatrics, Columbia University

**Siddarth Venkatesh, Ph.D. (PhD Candidate)** 2008

Current status: Instructor at Washington University School of Medicine in St. Louis

### **Special Committee Member**

Mentored graduate students from outside my laboratory by supervising their thesis research, providing advice, and serving as part of the examining committee for candidacy and thesis exams.

*Weill Cornell Graduate School of Medical Sciences BCMB Allied Program*

**Jecy Son (Hite Lab)** 2022 – present

**Swati Pant (Long Lab)** 2021 – present

**Benjamin Allwein (Hite Lab)** 2021 – present

*Tri-Institutional PhD Program in Chemical Biology*

**Jared Ramsey (Kapoor Lab)** 2023 – present

### **Leadership Training Program**

2018

*A. P. Giannini Foundation, Tiburon, CA, USA*

Participated in a two-day retreat advising on key academic leadership skills, including how to collaborate effectively, contribute to problem solving, and maximize personal leadership strengths. Emphasis was placed on countering unconscious bias and creating a diverse and inclusive lab culture.

### **TRAIN-UP Introduction to Mentoring Program**

2017

*University of California, San Francisco, San Francisco, CA, USA*

Completed an intensive 15-hour workshop series that teaches how to hire, teach, train, and supervise research trainees. Primary focuses were the mentoring of those who aren't like you, creating a supportive climate for everyone, and avoiding micro-inequities.

### **Teaching Assistant for Graduate Level Biochemistry**

2008

*Weill Cornell Graduate School of Medical Sciences, New York, NY, USA*

Supported graduate student learning, including for those from underrepresented minority groups, by leading discussion sections after lectures, developing practice problems, and one-on-one tutoring.

Topics taught: Thermodynamics, Kinetics, Enzymology, and Protein Purification

## **RELATED PROFESSIONAL EXPERIENCE**

### **MSK View (A Diversity Recruitment Event) Panelist**

2023

*Memorial Sloan Kettering Cancer Center, New York, NY, USA*

Provided my perspective on the transition from graduate studies to postdoctoral fellowships, as well as how to maximize your postdoctoral experience to the MSK View invitees.

- Interview Committee** 2023 – present  
*Weill Cornell Graduate School of Medical Sciences BCMB Allied Program*  
Conduct ten pre-screening interviews to facilitate the identification of top candidates to make the review process more consistent and improve the matching of students and faculty prior to in person interviews.
- Basic Science Retreat 2023 Organizing Committee** 2022 – present  
*Memorial Sloan Kettering Cancer Center*  
Advised on the general organizational structure and scientific contact for the inaugural Basic Science Retreat. This event is aimed at bringing together researchers from across the MSKC community and highlighting their contributions to basic science.
- Three-Minute Thesis Competition Judge** 2022  
*Weill Cornell Graduate School of Medical Sciences and Gerstner Sloan Kettering Graduate School of Biomedical Sciences, New York, NY, USA*  
Judge the annual three-minute thesis competition for graduate students. This completion helps develop academic, presentation, and research communication skills.
- GSK Women in Science (GWIS) Newsletter Interviewee** 2022  
*Gerstner Sloan Kettering Graduate School of Biomedical Sciences*  
Featured interviewee on the topic of having a family as an academic scientist.
- Poster Evaluator** 2022  
*Tri-Institutional PhD Program in Chemical Biology Symposium, New York, NY, USA*  
Evaluated graduate student poster presentations and provided constructive feedback.
- Evaluator of Program Applicants** 2022 – present  
*Gerstner Sloan Kettering Graduate School of Biomedical Sciences, Weill Cornell Graduate School of Medical Sciences BCMB Allied and PBSP Programs, Tri-Institutional PhD Program in Chemical Biology, Tri-Institutional MD-PhD Program, Memorial Sloan Kettering (MSK) Bridge Program*  
Evaluate candidates for postbaccalaureate, graduate, and medical school programs. Submit application/interview scores and comments. Work to attract top recruits.
- Ad Hoc Reviewer** 2020 – present  
*British Journal of Pharmacology, Nature Communications, Proceedings of the National Academy of Sciences, Nature Chemical Biology*  
Engage in the peer-review process by evaluating manuscripts within my area of expertise.
- Communications Training Program** 2017 – 2018  
*A. P. Giannini Foundation, San Francisco, CA, USA*  
Completed a series of virtual one-on-one meetings with a media expert aimed at improving fundamental communication skills. Culminated in the production and publication of a video disseminating my postdoctoral research to a broad audience.  
Video link: [www.youtube.com/watch?v=d1j2l43L7wk](http://www.youtube.com/watch?v=d1j2l43L7wk)
- Ad Hoc Co-reviewer** 2016 – 2020  
*Cell, eLife, Nature, Proceedings of the National Academy of Sciences*  
Participated in assessing the validity and quality of manuscripts alongside my postdoctoral mentor Dr. David Julius.

- Science Outreach Volunteer** 2016  
*California Academy of Science, San Francisco, CA, USA*  
Designed and presented a public outreach program related to sensory biology for the Nightlife Series.
- Poster Evaluator** 2015  
*Vincent du Vigneaud Memorial Research Symposium, New York, NY, USA*  
Evaluated graduate student poster presentations and provided constructive feedback.
- Postdoc/Faculty Forum** 2014 – 2015  
*Memorial Sloan Kettering Cancer Center, New York, NY, USA*  
Attended a series of small group discussions led by faculty focused on setting-up and managing an inclusive academic lab.
- Cold Spring Harbor Laboratory: X-ray Methods in Structural Biology** 2009  
Participated in an intensive laboratory/computational 16-day course focused on the theory and application of techniques used to determine X-ray crystallographic structures of macromolecules (competitive application process).
- Let's Talk Science Volunteer** 2004 – 2007  
*University of British Columbia, Vancouver, BC, Canada*  
Developed and delivered hands-on science activities for elementary and secondary students in the classroom and community to establish positive attitudes towards science within diverse audiences.
- STEM Outreach Web Research and Development Coordinator** 2004  
*Let's Talk Science, London, ON, Canada*  
Fostered the engagement of children, from a variety of backgrounds, in STEM through the compilation of free web resources for learners and educators. Made recommendations pertaining to science education and the impact of science outreach, with a focus on underrepresented minority groups, to the organization.

## PRESENTATIONS

- 2023 *Natural Products Hot Topics Webinar, National Institutes of Health (NIH) National Center for Complementary and Integrative Health (NCCIH), Virtual*  
(Invited Speaker) Structural insights into ion channel detection of physical and chemical stimuli
- Molecular Pharmacology and Chemical Biology Work in Progress (WIP), Sloan Kettering Institute, New York, NY, USA*  
(Invited Speaker) Molecular mechanisms underlying pain sensation
- Tri-Institutional PhD Program in Chemical Biology (TPCB) Open House Faculty Talk, New York, NY, USA*  
(Invited Speaker) Cellular and molecular mechanisms of neuropathic cold pain
- 2022 *Weill Cornell BCMB Allied Program Retreat, New Platz, NY, USA*  
(Invited Speaker) Cellular and molecular mechanisms of neuropathic cold pain

*Weill Cornell BCMB Allied Program Retreat, New Platz, NY, USA*

(Poster) Structural insights into the inhibition and desensitization of the cold receptor TRPM8

*Molecular Biophysics Training Program (MBTP) Mini-Symposium, New York, NY, USA*

(Keynote Speaker) Cellular and molecular mechanisms of ion channels involved in somatosensation and pain

*Tri-Institutional PhD Program in Chemical Biology (TPCB) Meet the Faculty Talk, New York, NY, USA*

(Invited Speaker) Cellular and molecular mechanisms of ion channels involved in somatosensation and pain

*Women Leading CryoEM NYC Retreat, New York, NY, USA*

(Invited Speaker) Cellular and molecular mechanisms of ion channels involved in somatosensation and pain

*Second Annual Josie Robertson Investigators Symposium, New York, NY, USA*

(Invited Speaker) Biological role and gating mechanisms of sensory ion channels

*Gerstner Sloan Kettering (GSK) Graduate School of Biomedical Sciences 6<sup>th</sup> Biennial Retreat, New Platz, NY, USA*

(Invited Speaker) Structural insights into the analgesic drug target TRPM8

*Molecular Biophysics Training Program (MBTP) Recruitment, New York, NY, USA*

(Invited Panelist) Careers in molecular biophysics

*Weill Cornell Graduate School of Medical Sciences BCMB Allied Program Recruitment, Virtual*

(Invited Speaker) Cellular and molecular mechanisms of ion channels involved in somatosensation and pain

2021 *Tri-Institutional PhD Program in Chemical Biology (TPCB) Meet the Faculty Talk, New York, NY, USA*

(Invited Speaker) Cellular and molecular mechanisms of ion channels involved in somatosensation and pain

*American Society for Biochemistry and Molecular Biology (ASBMB) Lipid Research Division Seminar Series, Virtual*

(Invited Speaker) Hot'n Spicy? Cool'n Minty? Lipid regulation of TRP channels

*St. Jude Children's Research Hospital, Department of Structural Biology, Virtual*

(Invited Speaker) Low temperature view of a cold sensor: structural insights into TRPM8 function and pharmacology

*University of Pennsylvania, Department of Physiology, Virtual*

(Invited Speaker) Low temperature view of a cold sensor: structural insights into TRPM8 function and pharmacology

*Broad Institute's Next Generation in Biomedicine Symposium, Virtual*

(Invited Speaker) Structural insights into the analgesic drug target TRPM8

- 2020 *Gordon Research Conference – Three Dimensional Electron Microscopy, Barcelona, Spain*  
(Invited Speaker) Structural insights into the analgesic drug target TRPM8  
(Cancelled due to the COVID-19 pandemic)
- Bay Area CryoEM Meeting, Dublin, CA, USA*  
(Poster) Structural insights into the inhibition and desensitization of the cold receptor TRPM8
- 2019 *UCSF EM Supergroup, San Francisco, CA, USA*  
(Invited Speaker) Structural insights into inhibition and desensitization of the cold and menthol receptor TRPM8
- FASEB Conference – The Regulation and Function of Small GTPases, Olean, NY, USA*  
(Invited Speaker) Atomic structure of the eukaryotic intramembrane RAS methyltransferase ICMT
- 2018 *A. P. Giannini Postdoctoral Fellowship Colloquium, Stanford, CA, USA*  
(Invited Speaker) Decoding the workings of our temperature sensors to relieve chronic pain
- 2015 *Hybrid Methods in Structural Biology Keystone Symposia, Lake Tahoe, CA, USA*  
(Poster) Mutational analysis of the integral membrane methyltransferase ICMT reveals potential substrate binding sites
- 2014 *Weill Cornell Graduate School Thesis Defense, New York, NY, USA*  
Structural and functional studies of the eukaryotic integral membrane methyltransferase ICMT
- Vincent du Vigneaud Memorial Research Symposium, New York, NY, USA*  
(Invited Speaker) Mapping the substrate binding sites of the integral membrane methyltransferase ICMT by mutational analysis
- Weill Cornell Structural Biology Discussion Group, New York, NY, USA*  
(Lecture) Mapping the substrate binding sites of the integral membrane methyltransferase ICMT by mutational analysis
- Biophysical Society Annual Meeting, San Francisco, CA, USA*  
SRAA Poster Competition Winner  
(Poster) Mapping the substrate binding sites of the integral membrane methyltransferase ICMT by mutational analysis
- 2013 *Weill Cornell BCMB Allied Program Retreat, New Platz, NY, USA*  
(Poster) Mutational analysis of the integral membrane methyltransferase ICMT
- Gordon Research Conference – Enzymes, Coenzymes & Metabolic Pathways, Waterville Valley, NH, USA*  
(Poster) Mutational analysis of the integral membrane methyltransferase ICMT
- Vincent du Vigneaud Memorial Research Symposium, New York, NY, USA*  
(Poster) Mutational analysis of the integral membrane methyltransferase ICMT

- Biophysical Society Annual Meeting, Philadelphia, PA, USA*  
(Poster) Mutational analysis of the integral membrane methyltransferase ICMT  
*Weill Cornell Structural Biology Discussion Group, New York, NY, USA*  
(Lecture) Crystallizing membrane proteins using the lipidic cubic phase (LCP)
- 2012 *Weill Cornell BCMB Allied Program Retreat, Skytop, PA, USA*  
(Poster) Mutational analysis of the Ras drug target ICMT
- Mid-Atlantic Macromolecular Crystallography Meeting, Charlottesville, VA, USA*  
(Poster) Mutational analysis of isoprenylcysteine carboxymethyltransferase
- Vincent du Vigneaud Memorial Research Symposium, New York, NY, USA*  
(Poster) Towards the three-dimensional structure and mechanism of the Ras drug target ICMT
- Biophysical Society Annual Meeting, San Diego, CA, USA*  
(Poster) Mutational analysis of isoprenylcysteine carboxymethyltransferase
- 2011 *Weill Cornell Structural Biology Discussion Group, New York, NY, USA*  
(Lecture) Determining X-ray crystallographic structures of membrane proteins
- Weill Cornell BCMB Allied Program Retreat, Skytop, PA, USA*  
(Invited Speaker) Towards the three-dimensional structure and mechanism of the Ras drug target ICMT
- Weill Cornell BCMB Graduate Research Seminar, New York, NY, USA*  
Towards the atomic structure and mechanism of the Ras drug target ICMT
- 2010 *Weill Cornell BCMB Graduate Research Seminar, New York, NY, USA*  
Atomic structure and mechanism of the cancer drug target ICMT
- 2007 *University of British Columbia Multidisciplinary Undergraduate Research Conference, Vancouver, BC, Canada*  
(Poster) Gene regulation: exploring the phosphate sensor in *E. coli* Ribonuclease G

## HONORS AND AWARDS

- 2020 Postdoc “Work-from-Home” Award, University of California, San Francisco
- 2014 Student Research Achievement Award, Biophysical Society
- 2014 Education Travel Award, Biophysical Society
- 2009 X-ray Methods in Structural Biology Course Stipend, Cold Spring Harbor Laboratory
- 2006 – 2007 Society of Chemistry Industry Merit Prize, University of British Columbia Department of Biochemistry
- 2006 – 2007 University of British Columbia Science Co-op Student of the Year Award (Finalist), University of British Columbia

2006 – 2007 Dr. Peter Gee-Pan Mar Memorial Scholarship, University of British Columbia  
Department of Biochemistry

2004 – 2007 Renewable National In-Course Award, Canadian Millennium Excellence  
Awards

2002 – 2003 Undergraduate Scholarship Program, University of British Columbia  
& 2006 – 2007