

Curriculum Vitae

BRADLEY L. PENDELUTE

Professor, Department of Chemistry, MIT

Extramural Member, Koch Institute for Integrative Cancer Research, MIT

Associate Member, Broad Institute of MIT and Harvard

Member, Center for Environmental Health Sciences, MIT

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Degrees:

Ph.D., Organic Chemistry, University of Chicago, 2008, Thesis Advisor: Steve Kent

M.S., Chemistry, University of Chicago, 2004

B.S., Chemistry, University of Southern California, 2003

B.A., Psychology, University of Southern California, 2003

Employment:

Professor, Department of Chemistry,
Massachusetts Institute of Technology, 2021–present

Associate Professor, Department of Chemistry,
Massachusetts Institute of Technology, 2016–2021

Assistant Professor, Department of Chemistry,
Massachusetts Institute of Technology, 2011–2016

Postdoctoral Fellow, Department of Microbiology and Molecular Genetics,
Harvard Medical School, 2008–2011, John Collier's Lab

Senior Scientist, Ethos Pharmaceuticals, 1/2008–9/2008

Graduate Student, Department of Chemistry,
University of Chicago, 2004–2008, Steve Kent's Lab

External Positions Held:

Associate Editor, Scientific Reports, Nature, 2016–present

American Peptide Society, Nominating Committee, 2015–present

Visiting Professor, Tokyo Institute of Technology, Tokyo, Japan, 2019–2020

Visiting Professor, Osaka University, Osaka, Japan 2015–2018

NIH Ad Hoc Grant Reviewer, 2018

Committee member, Safety Culture in Academic Research Laboratories, The National Academies, 2013

Ad Hoc Grant Reviewer NSF Grants, 2015

Honors:

David Ginsburg Memorial Colloquium Award, Technion University, Israel, 2023
Rao Makineni Lectureship, American Peptide Society, 2021
Blavatnik Award Finalist, 2018
Eli Lilly Award in Biological Chemistry, 2018
Bristol-Myers Squibb Innovation Award, 2017
Amgen Young Investigator Award, 2016
Novartis Early Career Award in Organic Chemistry, 2015
Sloan Research Fellow in Chemistry, 2015
NSF CAREER Award, 2014
Sontag Distinguished Scientist Award, 2013
Young Chemical Biologist Award, International Chemical Biology Society, 2013
Damon Runyon-Rachleff Innovation Award, 2013
Vallee Foundation Travel Award, 2012
Collier Award, Gordon Conference, Microbial Toxins and Pathogenicity, 2010
Poster Prize, University of Chicago, Science at the Interface, 2008
Student Travel Award for Australian Peptide Society, 2006
U.S.C. Chemistry Alumni Award for Outstanding Undergraduate Research, 2003
Renaissance Scholar, U.S.C., 2003

Undergraduate Students Supervised:

Bald, Ridings, 2021 (MIT)
Berger, Tatiana, 2012–2013 (Boston University)
Boykin, Alexis, 2023–2024 (MIT)
Buchwald, Nathan, 2016–2017 (Brown University)
Castro, Manuel, 2015
Chang, Richard, 2013–2015 (MIT)
Choo, Zi-Ning, 2013–2016 (MIT)
Dorminy, Sweet Tea, 2011 (MIT)
Gandhi, Dhyey, 2019–2020 (MIT)
Grupe, Hannah, 2019–2021 (MIT)
Kang, Hansol, 2012–2015 (MIT)
Kim, Chae Rin, 2022–2023 (MIT)
Kuborn, Thomas, Amgen Scholar, 2015 (U. of Wisconsin Oshkosh)
Lee, Yelim, 2016–2017 (Wellesley University)
Li, Xiuyuan, 2011–2013 (Stanford University)
Maina, Wacira, 2011
Policarpo, Rocco, 2011–2013 (Harvard University)
Sharygin, Daniel, 2022 (MIT)
Villagran, Michelle, 2022–2023 (Wellesley College)
Ye, Tong, 2021 (MIT)

Ph.D., M.D./Ph.D. and M.S.* Students Supervised and Current Positions (in alphabetical order):

1. Antilla, Sarah An-ning (Thesis: Improving Cardiac Delivery of Antisense Oligonucleotides with Peptidomimetic Targeting Agents), 2023, Scientist, Novo Nordisk
2. Callahan, Alex Joseph (Thesis: Automated Flow Synthesis of Biomacromolecules), 2023, Senior Scientist, Amgen
3. Cowfer, Amanda Elizabeth, 2023, Senior Scientist, AstraZeneca
4. Dai, Peng (Thesis: Site-Selective Modification of Cysteine Residues), 2018, Senior Scientist, NuProbe Inc.
5. Dieppa-Matos, Diomedes (Thesis: Reactive Peptides for Site-Selective Cysteine and Lysine Bioconjugation), 2022, Scientist, Unnatural Products
6. Evans, Ethan Daniel (Thesis: Long Peptides for Cysteine Arylation), 2018, Scientist, Bristol Myers Squibb
7. Fadzen, Colin MacLaine (Thesis: Peptide-Mediated Delivery of Antisense Oligonucleotides and Chemotherapeutics Across Biological Barriers), 2018, Resident, Department of Surgery, Johns Hopkins School of Medicine
8. Farquhar, Charlotte Eleanor (Thesis: The Discovery and Chemical Synthesis of Peptides and Proteins that Cross Biological Barriers), 2023, Research Scientist, Pentelute Lab, MIT
9. Hazard, Catherine (in progress)
10. Holden, Rebecca Lynn (Thesis: Addressing Delivery and Synthesis Challenges for Peptide-Based Cancer Vaccines), 2020, Postdoctoral Fellow, Hacohen Lab, The Broad Institute of MIT and Harvard
11. Hung, Hsuan-Min (in progress, co-mentored with S. Buchwald)
12. Hsu, Ching-Pei (in progress)
13. Kazemina, Amirabbas* (in progress)
14. Lee, Gha Young (in progress)
15. Lee, Michael Alan (Thesis: Experimental and Computational Advancements in Peptidomimetic Ligand Discovery), 2024, Advisor Chemistry and Chemical Biology, Protomer Technologies
16. Loftis, Alexander Robert (Thesis: Re-targeting of Anthrax Toxin Binding for Immunomodulation and Targeted Cancer Therapy), 2020, Senior Associate, Vida Ventures LLC
17. Lu, Zeyu (Thesis: Protective Antigen-Mediated Delivery of Biomolecules), 2018, Executive Director, Goldman Sachs
18. Mallek, Aaron John (Thesis: Organometallic Palladium Reagents for Polypeptide Bioconjugation and Macrocyclization), 2021, Research Scientist, Angiex
19. Mijalis, Alexander James (Thesis: Automated Flow Peptide Synthesis), 2018, Senior Scientist, Dyno Therapeutics
20. Mong, Surin Khai (Thesis: Investigation and Application of Heterochiral Proteins Enabled by Flow-Based Peptide Synthesis), 2017, Intellectual Property Manager, Dewpoint Therapeutics
21. Quartararo, Anthony James (Thesis: De novo Discovery of Synthetic Peptide Binders to Protein-Protein Interfaces), 2020, Senior Scientist, FogPharma

22. Rabideau, Amy Ellen (Thesis: Delivery of Biomolecules into Mammalian Cells Using Anthrax Toxin), 2015, Senior Scientist, Moderna Therapeutics
23. Rodriguez, Jacob Joshua Lee (co-mentored with S. Buchwald), 2023
24. Rojas, Anthony (Thesis: Palladium Reagents for Bioconjugation, co-mentored with S. Buchwald), 2018, Clinical Assistant Professor of Chemistry, Kennesaw State University
25. Saebi, Azin (Thesis: Protein Synthesis and Bioconjugation for Design of Antimicrobial Conjugates, co-mentored with S. Buchwald), 2022, Consultant, McKinsey & Company
26. Santos, Michael Keith (Thesis: Protein engineering of targeted cancer therapies), 2017, Senior Software Developer, Athena Healthcare
27. Sarabia, David (in progress)
28. Schissel, Carly Katherine (Thesis: Design of Nuclear-Targeting Peptides for Macromolecule Delivery via Machine Learning), 2022, Postdoctoral Fellow, Schepartz Lab, U.C. Berkeley
29. Simon, Mark David (Thesis: Fast Flow Biopolymer Synthesis), 2017, Technical Advisor, Amide Technologies and Bluestem Biosciences
30. Tuang, Suan (Thesis: Development of a Reactive Peptide Sequence for Site-Selective Bioconjugations), 2019, Investment Analyst, Foresite Capital
31. Vinogradov, Alexander Alexandrovich (Thesis: New Methods for Synthesis and Modification of Peptides and Proteins), 2017, Assistant Professor, University of Tokyo
32. Wolfe, Justin Mahoney (Thesis: Peptide Conjugation to Enhance Oligonucleotide Delivery), 2018, Co-Founder, Transcera
33. Ye, Xiyun (Thesis: Affinity Maturation of Peptides to Bind Protein-Protein Interfaces), 2023, Postdoctoral Researcher, Suga Lab, University of Tokyo, Tokyo, Japan
34. Zhang, Chi (Thesis: Cysteine Arylation), 2017, Co-Founder, GT Biosciences

Postdoctoral Researchers Supervised and Current Positions (in alphabetical order):

1. Akcay, Gizem (2012–2013, Senior Scientist, AstraZeneca)
2. Akhmetov, Vladimir (2022–2024, Senior Scientist, Calico Life Sciences)
3. Albin, John (2018–present)
4. Bandyopadhyay, Anupam (2016–2018, Assistant Professor, Indian Institute of Technology Ropar, India)
5. Brown, Joseph (2019–2024, Staff Scientist, Acceleration Consortium, Toronto, Canada)
6. Buslov, Ivan (2017–2019, Senior Expert, SIBUR Chemicals, Moscow)
7. Byrne, Stephen Anthony (2023–present)
8. Cohen, Daniel Tzvi (2015–2017, Scientist, AbbVie)
9. Couture-Senécal, Julien (2025–present)
10. Dhanjee, Heemal Hansraj (2018–2022, NIH Postdoctoral Fellow, Research Scientist, Amgen Inc.)
11. Dhankhar, Jyoti (2024–present)
12. Distler, Max (2022–2023, Associate, Flagship Pioneering)
13. Dow, Nathan (2023–present)
14. Desgagné, Michael (2024–present)
15. Evans, Ethan (2018, Scientist, Bristol Myers Squibb)

16. Fittolani, Giulio (2022–present)
17. Gandhesiri, Satish (2021–2023, Scientist, Biosynth)
18. Gates, Zachary (2014–2020, Senior Scientist, p53Lab, Agency for Science, Technology and Research, Singapore)
19. Grob, Nathalie (2020–2023, Assistant Professor, ETH Zürich)
20. Hartrampf, Nina (2018–2019, Assistant Professor, University of Zurich)
21. Hanna, Cameron (2021–2022, Scientist II, Unnatural Products)
22. Ishoey, Mette (2016–2017, Assistant Professor, University of Copenhagen)
23. Jbara, Muhammad (2019–2021, Assistant Professor, Tel Aviv University)
24. Khan, Kashif (2014–2018, Principal Scientist, Bristol-Myers Squibb)
25. Kubota, Koji (2016–2018, co-mentored with S. Buchwald, Assistant Professor, Hokkaido University, Japan)
26. Kutateladze, Dennis Andrei (2023–present, NIH Postdoctoral Fellow, co-mentored with S. Buchwald)
27. Lautrette, Guillaume (2014–2016, Bioanalytical Monitor, SGS, France)
28. Li, Chengxi (2019–2021, Assistant Professor, Zhejiang University, China)
29. Liao, Xiaoli (2011–2014, Senior Scientist, AbbVie)
30. Lee, Hong Geun (2012–2016, Assistant Professor, Seoul University, South Korea)
31. Lee, Yen-Chun (2019–2021, Assistant Professor, National Cheng Kung University, Taiwan)
32. Lopez Vidal, Eva Maria (2018–2020, Scientist, Entrada Therapeutics)
33. Mijalis, Alexander (2018, Senior Scientist, Dyno Therapeutics)
34. Miller, Edward (2021–2024, Senior Scientist, Merck)
35. Pal, Sunit (2024–present)
36. Pomplun, Sebastian (2019–2021, Assistant Professor, Leiden University)
35. Reja, Rahi Masoom (2023–2024, Advisor Chemistry and Chemical Biology, Protomer Technologies)
36. Rezvani, Sepideh (2024–present)
37. Rondon, Aurélie (2021–present)
38. Rössler, Simon (2020–2023, co-mentored with S. Buchwald, Senior Scientist, Novo Nordisk)
39. Saebi, Azin (2022, Consultant, McKinsey & Company)
40. Senter, Timothy (2015–2016, Senior Research Scientist, Vertex Pharmaceuticals)
41. Shimshoni, Elee (2022–present)
42. Shugrue, Christopher (2019–2021, NIH Postdoctoral Fellow, Assistant Professor, University of Richmond)
43. Spokoyny, Alexander (2012–2014, Associate Professor, University of California, Los Angeles)
44. Tao, Jason (2018–2021, co-mentored with S. Buchwald)
45. Tan, Xuyu (2018–2021, Senior Scientist, Intellia Therapeutics)
46. Totaro, Kyle (2014–2016, Associate Director, Entrada Therapeutics)
47. Touti, Faycal (2014–2018, Senior Scientist, Glympse Bio)

48. Truex, Nicholas (2018–2022, NIH Postdoctoral Fellow, Assistant Professor, University of South Carolina)
49. Vecchiareello, Nicholas (2021–2022, Assistant Professor, University of Virginia)
50. Vuong, Wayne (2022–present)
51. Wolfe, Justin (2018, Co-Founder, Transcera)
52. Wood, Thomas Melvin (2021–2023)
53. Wong, Jeffrey Ying Kit (2021–2023, Senior Scientist, Bicycle Therapeutics Inc.)
54. Yesilcimen, Ahmet (2022–2024)
55. Yu, Isaac Fu-Ray (2025–present)
56. Zhang, Chi (2018–2019, Postdoctoral Researcher, Boyden Lab, MIT)
57. Zhang, Genwei (2019–2022, Peptide Senior Scientist, XtalPi Inc., Beijing, China)
58. Zhang, Peiyuan (2021–present)
59. Zou, Yekui (2012–2013)

Research Scientists Supervised:

- Kitahara, Katsushi, Ph.D. (2021–2023, Sumitomo Pharma Co., Osaka, Japan)
- Gazvoda, Martin (2020–2021, co-mentored with S. Buchwald, Assistant Professor, University of Ljubljana, Slovenia)
- Lampe, John, Ph.D. (2014, Associate Director, Epizyme)
- Loas, Andrei, Ph.D. (2018–present, Research Laboratory Operations Manager)
- Takeuchi, Hironori, Ph.D. (2021–2023, Sumitomo Pharma Co., Osaka, Japan)

Technical Associates and Research Specialists Supervised:

- Hanna, Stephanie (2018–2021)
- Halloran, Katie (2015–2016)
- Lozano Salazar, Lia (2021–2022)
- Poskus, Mackenzie (2018–2020)
- Telios, Alexia (2024–present)
- Wilson, Jessica (2015–2016)

Visiting Researchers and Research Affiliates Supervised:

- Charalampidou, Anna (Ph.D. Student, Technical University Darmstadt, Germany, 2022)
- Chen, Pu-Guang (Ph.D. Student, Tsinghua University, China, 2018)
- Cheng, Yiran (Ph.D. Student, Nankai University, China, 2017–2018)
- Chinnapen, Daniel (Research Scientist, Children’s Hospital, Boston, 2012–2016)
- Cho, Choi-Fong (Associate Professor in Neurosurgery, Harvard Medical School, 2014–2015)
- Dunkelmann, Daniel (Ph.D. Student, ETH Zurich, Switzerland, 2014–2015)
- Gao, Shuai (Postdoctoral Researcher, Brigham and Women’s Hospital, 2023–present)
- Halloran, Katie (Ph.D. Student, Cambridge University, U.K., 2016–2017)
- Han, Hyojun (Ph.D. Student, Yonsei University, Korea, 2011–2012)
- Hanna, Cameron (Ph.D. Student, University of Sydney, Australia, 2019)
- Hauck, Patrick (M.Sc. Student, University of Applied Sciences and Arts Northwestern Switzerland, 2019–2020)
- Hirata, Yuki (Kirin Japan Industry, Japan, 2015–2016)

Jimenez-Macias, Jorge Luis (Postdoctoral Researcher, Brown University, 2020–2023)
Johnson, Corey (2023–present)
Lee, Yen-Chun (Ph.D. Student, Max Planck Institute of Molecular Physiology, Germany, 2017–2018)
Liu, Shunying (Associate Professor, East China Normal University, China, 2018)
Maki, Yuta (Ph.D. Student, Osaka University, Japan, 2014–2015)
Manbo, Akihiro (Ph.D. Student, Osaka University, Japan, 2017–2018)
Menichelli, Massimiliano (M.Sc. Student, ETH Zurich, Switzerland, 2016)
Misteli, Roman (M.Sc. Student, ETH Zurich, Switzerland, 2022)
Nakamura, Taichi (Ph.D. Student, Chuo University, Japan, 2016)
van Scheppingen, Daphne (Eindhoven University of Technology, Netherlands, 2012–2014)
Qian, Elaine (2017)
Sato, Kohei (Assistant Professor, Tokyo Institute of Technology, 2022)
Schmitt, Adeline (M.Sc. Student, University of Strasbourg, 2019)
Sementa, Deborah (University of Naples ‘Federico II’, Italy, 2016)
Shimada, Arisa (Ph.D. Student, Osaka University, Japan, 2017–2018)
Somsen, Bente (Ph.D. Student, Eindhoven University of Technology, Netherlands, 2018–2019)
Vithanage, Dimuthu (2023–present)
Wang, Binyou (B.Sc. Student, Nankai University, China, 2018–2019)
Zhang, Belinda (Ph.D. Student, University of Sydney, 2024)
Zuger, Vanessa (M.Sc. Student, ETH Zurich, Switzerland, 2017)

Teaching Experience:

MIT 5.54, Frontiers in Chemical Biology, Fall 2012–2015
MIT 5.361 and 5.362, Biochemistry & Organic Lab, Spring 2012, 2013–present
MIT 5.383, Fast Flow Peptide and Protein Synthesis, 2015–present
MIT 5.111, Principles of Chemical Science (150 undergraduate students), 2018–present
MIT 5.07, Biochemistry first semester (40 undergraduate students), Fall 2019–present

Service:

Internal Service:

MIT Presidential Committee on Pre-health Advising, 2012–2014, 2019–present
(interview ~15 premed students for drafting recommendation letters, provide guidance, and coordinate application for medical school)
Improvement of MIT undergraduate chemistry modules, 2015–present
(raised money (2015 and 2019) to purchase new equipment for laboratories, designed and improved curriculum)
Chemistry Representative MIT institute faculty meetings, 2019–present
(attend all meetings and communicate important findings back to chemistry department)
MIT/Harvard M.D./Ph.D. committee member, 2016–present
(attend two meetings per year to discuss with M.D./Ph.D. students progress and challenges)
MIT Freshman Advisor, 2018–present
Faculty advisor ACS MIT Chemistry Club, 2012–present

(community magic shows, training new members, outreach)

Introduction to chemistry major, for MIT engineering students, 2017–present

Chemistry department, open house for incoming freshmen, faculty member, 2019–present

Chemistry department, open house, parents visiting weekend, magic shows, 2019–present

MIT Department Instrumentation committee member, 2014–present

Graduate Student Admission Committee Chair for Biological Chemistry, 2011–present

DOW-MIT Access Program in Chemistry, participant in visiting weekend, 2012–present

Chemistry Undergraduate Advisor (8 students), 2012–present

Thesis Chair (15 students), 2011–present

Faculty advisor, Chemistry career panel, 2012–2018

MIT Amgen Scholars graduate school admissions advisor, 2012–2017

External Service:

Associate Editor, *Scientific Reports*

Reviewer for *Journal of the American Chemical Society*, *Nature Publishing Group*, *Chemical Science*, *Proceedings of the National Academy of Sciences of the United States of America*, and *ChemBioChem*.

Ad-hoc Grant Reviewer, NIH SBCB and STTR, NSF CAREER

Guest Editor, *ACS Chemical Reviews*

Publications from MIT (independent & collaborative):

1. Tao, J.,* Dhanjee, H.H.,* Gribble, M.W. Jr.,* Kottisch, V., Rodriguez, J., Brown, J.S., Schmidt, H., Juneja, J., Denhez, F., Lee, P.S., Lipovšek, D., Krystek, S., Zhang, Y., Bousquet, P., Zhang, Y.,# Pentelute, B.L.,# Buchwald, S.L.# (2024). Site-Specific Antibody Prodrugs via S-Arylation: a Bioconjugation Approach Toward Masked Tyrosine Analogues. *Journal of the American Chemical Society*, 146(29):20080-20085 (* = co-first authors, # = co-corresponding authors).
2. Miao, J., Ghosh, A.P., Ho, M.N., Li, C., Huang, X., Pentelute, B.L., Baleja, J.D., Lin, Y.S. (2024). Assessing the Performance of Peptide Force Fields for Modeling the Solution Structural Ensembles of Cyclic Peptides. *Journal of Physical Chemistry B*, 128(22):5281-5292.
3. Zhang, P.,* Ye, X.,* Wang, J.C.K., Baddock, H.T., Jensvold, Z., Foe, I.T., Loas, A., Eaton, D.L., Hao, Q., Nile, A.H.,# Pentelute, B.L.# (2024). Reversibly Reactive Affinity Selection-Mass Spectrometry Enables Identification of Covalent Peptide Binders. *Journal of the American Chemical Society*, 146(22):15627-15639 (* = co-first authors, # = co-corresponding authors).
4. Liu, B., Rodriguez, J., Kilgallon, L.J., Wang, W., Wang, Y., Wang, A., Dai, Y., Nguyen, H.V., Pentelute, B.L., Johnson, J.A. (2024). An organometallic swap strategy for bottlebrush polymer-protein conjugate synthesis. *Chemical Communications*, 60(31):4238-4241.
5. Charalampidou, A.,* Nehls, T.,* Meyners, C., Gandhesiri, S., Pomplun, S., Pentelute, B.L., Lermyte, F., Hausch, F. (2024). Automated Flow Peptide Synthesis Enables Engineering of Proteins with Stabilized Transient Binding Pockets. *ACS Central Science*, 10(3):649-657 (* = co-first authors).

6. Lee, M.A., Brown, J.S., Loas, A., Pentelute, B.L. (2024). Investigation of commercially available resins for the automated flow synthesis of difficult or long peptide sequences. *Peptide Science*, e24344.
7. Baxa, M.C., Lin, X., Mukinay, C.D., Chakravarthy, S., Sachleben, J.R., Antilla, S., Hartrampf, N., Riback, J.A., Gagnon, I.A., Pentelute, B.L., Clark, P.L.,[#] Sosnick, T.R.[#] (2024). How hydrophobicity, side chains, and salt affect the dimensions of disordered proteins. *Protein Science*, 33(5):e4986 ([#] = co-corresponding authors).
8. Zhang, P., Ye, X., Wang, J.C.K., Smith, C.L., Sousa, S., Loas, A., Eaton, D.L., Preciado López, M.,[#] Pentelute, B.L.[#] (2024). Development of an α -Klotho Recognizing High-Affinity Peptide Probe from In-Solution Enrichment. *JACS Au*, 4(4):1334-1344 ([#] = co-corresponding authors).
9. Truex, N.L.,* Mohapatra, S.,* Melo, M., Rodriguez, J., Li, N., Abraham, W., Sementa, D., Touti, F., Keskin, D.B., Wu, C.J., Irvine, D.J., Gómez-Bombarelli, R.,[#] Pentelute, B.L.[#] (2024). Design of Cytotoxic T Cell Epitopes by Machine Learning of Human Degrons. *ACS Central Science*, 10(4):793-802 (* = co-first authors, [#] = co-corresponding authors).
10. Callahan, A.J.,* Gandhesiri, S.,* Travaline, T.L., Reja, R.M., Lozano Salazar, L., Hanna, S., Lee, Y.C., Li, K., Tokareva, O.S., Swiecicki, J.M., Loas, A., Verdine, G.L., McGee, J.H.,[#] Pentelute, B.L.[#] (2024). Mirror-image ligand discovery enabled by single-shot fast-flow synthesis of D-proteins. *Nature Communications*, 15(1):1813 (* = co-first authors, [#] = co-corresponding authors).
11. Grob, N.M., Remarcik, C., Rössler, S.L., Wong, J.Y.K., Wang, J.C.K., Tao, J., Smith, C.L., Loas, A., Buchwald, S.L., Eaton, D.L., Preciado López, M.,[#] Pentelute, B.L.[#] (2024). Electrophile Scanning Reveals Reactivity Hotspots for the Design of Covalent Peptide Binders. *ACS Chemical Biology*, 19(1):101-109 ([#] = co-corresponding authors).
12. Ye, X.,* Zhang, P.,* Tao, J., Wang, J.C.K., Mafi, A., Grob, N.M., Quartararo, A.J., Baddock, H.T., Chan, L.J.G., McAllister, F.E., Foe, I., Loas, A., Eaton, D.L., Hao, Q., Nile, A.H.,[#] Pentelute, B.L.[#] (2023). Discovery of reactive peptide inhibitors of human papillomavirus oncoprotein E6. *Chemical Science*, 14(44):12484-12497 (* = co-first authors, [#] = co-corresponding authors).
13. Truex, N.L.,* Rondon, A.,* Rössler, S.L., Hanna, C.C., Cho, Y., Wang, B.Y., Backlund, C.M., Lutz, E.A., Irvine, D.J.,[#] Pentelute, B.L.[#] (2023). Enhanced Vaccine Immunogenicity Enabled by Targeted Cytosolic Delivery of Tumor Antigens into Dendritic Cells. *ACS Central Science*, 9(9):1835-1845 (* = co-first authors, [#] = co-corresponding authors).
14. Johnson, K., Delaney, J.C., Guillard, T., Reffuveille, F., Varin-Simon, J., Li, K., Wollacott, A., Frapy, E., Mong, S., Tissire, H., Viswanathan, K., Touti, F., Babcock, G.J., Shriver, Z.,[#] Pentelute, B.L., Plante, O., Skurnik, D.[#] (2023). Development of an antibody fused with an antimicrobial peptide targeting *Pseudomonas aeruginosa*: A new approach to prevent and treat bacterial infections. *PLoS Pathogens*, 19(9):e1011612 ([#] = co-corresponding authors).
15. Sato, K., Farquhar, C.E., Rodriguez, J., Pentelute, B.L. (2023). Automated Fast-Flow Synthesis of Chromosome 9 Open Reading Frame 72 Dipeptide Repeat Proteins. *Journal of the American Chemical Society*, 145(24):12992-12997.

16. Nomura, K., Okamoto, R., Maki, Y., Hayashibara, A., Takao, T., Fukuoka, T., Miyoshi, E., Pentelute, B.L., Kajihara, Y. (2023). Rapid Chemical Synthesis of Serine Protease Inhibitor Kazal-type 13 (SPINK13) Glycoform by a Combined Method with Glycan Insertion Strategy and Fast-Flow Fmoc SPPS. *Chemistry—A European Journal*, 29(42):e202300646.
17. Ye, X.,* Zhang, P.,* Wang, J.C.K., Smith, C.L., Sousa, S., Loas, A., Eaton, D.L., Preciado López, M.,# Pentelute, B.L.# (2023). Branched Multimeric Peptides as Affinity Reagents for Detection of α -Klotho Protein. *Angewandte Chemie International Edition*, 62(19):e202300289 (* = co-first authors, # = co-corresponding authors).
18. Rössler, S.L.,* Grob, N.M.,* Buchwald, S.L.,# Pentelute, B.L.# (2023). Abiotic peptides as carriers of information for the encoding of small-molecule library synthesis. *Science*, 379(6635):939-945 (* = co-first authors, # = co-corresponding authors).
19. Schissel, C.K.,* Farquhar, C.E.,* Loas, A., Malmberg, A.B., Pentelute, B.L. (2023) In-Cell Penetration Selection-Mass Spectrometry Produces Noncanonical Peptides for Antisense Delivery. *ACS Chemical Biology*, 18(3):615-628 (* = co-first authors).
20. Saebi, A.,* Brown, J.S.,* Marando, V.M., Hartrampf, N., Chumbler, N.M., Hanna, S., Poskus, M., Loas, A., Kiessling, L.L., Hung, D.T., Pentelute, B.L. (2023). Rapid Single-Shot Synthesis of the 214 Amino Acid-Long N-Terminal Domain of Pyocin S2. *ACS Chemical Biology*, 18(3):518-527 (* = co-first authors).
21. Jimenez-Macias, J.L., Lee, Y.-C., Miller, E., Finkelberg, T., Zdioruk, M., Berger, G., Farquhar, C.E., Nowicki, M.O., Cho, C.F., Fedeles, B.I., Loas, A., Pentelute, B.L.,# Lawler, S.E.# (2022). A Pt(IV)-conjugated brain penetrant macrocyclic peptide shows pre-clinical efficacy in glioblastoma. *Journal of Controlled Release*, 352:623-636 (# = co-corresponding authors).
22. Li, C.,* Zhang, G.,* Mohapatra, S., Callahan, A.J., Loas, A., Gómez-Bombarelli, R., Pentelute, B.L. (2022). Machine Learning Guides Peptide Nucleic Acid Flow Synthesis and Sequence Design. *Advanced Science*, 9(34):e2201988 (* = co-first authors).
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- pharmacological and drug delivery properties. International Pat. Appl. WO2022266068A3 (January 26, 2023), Eur. Pat. EP4355348A2 (April 24, 2024).
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 32. B.L. Pentelute, T.K. Sawyer, D.S. Gunasekera, S.G. Santiago, J.R. Sawyer. Peptide conjugates and therapeutic agents having improved pharmacological and pharmacokinetic properties. U.S. Pat. Appl. 20230173086A1 (June 8, 2023), International Pat. Appl. WO2023069502A9 (October 26, 2023).
 33. S.L. Buchwald, B.L. Pentelute, N. Grob, S. Roessler. Peptide-encoded libraries of small molecules for de novo drug discovery. International Pat. Appl. WO2023102255A1 (June 8, 2023).
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 36. B.L. Pentelute, D.S. Gunasekera, K. Kong, S. Johnson. Nicotinate and nicotinamide riboside-based compounds and derivatives thereof. U.S. Pat. Appl. 20230242558A1 (August 3, 2023), International Pat. Appl. WO2023147161A3 (October 5, 2023).

Companies started:

Co-founder and Board Member, Amide Technologies, Cambridge, MA, 2018-present
Scientific Co-founder, Resolute Bio, Beverly, MA, 2018-2022
Co-founder, Tegrigen Therapeutics, Cambridge, MA, 2021-2023
Scientific Co-founder, New Frontier Bio, Beverly, MA, 2021-present
Scientific Advisor, Decoy Therapeutics, Cambridge, MA, 2022-present

Invited Presentations:

Presented at >75 seminars and invited talks since 2022. Selected earlier presentations below.

Unleashing the Potential of Biologics on Intracellular Targets, Sanofi, online, 2022.

Automated Flow Chemistry, Argonne National Labs, online, 2022.

Rapid discovery, delivery and manufacturing of peptides and proteins, Keynote Speaker at the Prime Symposium, University of Toronto, Toronto, Canada, 2022.

Rapid discovery, delivery and manufacturing of peptides and proteins, Astra Zeneca, Gothenburg, Sweden, 2022.

Targeted delivery of RNAi, Novo Nordisk, Copenhagen, Denmark, 2022.

Rapid discovery, delivery and manufacturing of peptides and proteins, Amgen, Cambridge, MA, 2022.

Automated flow synthesis of proteins, American Peptide Society Award Lecture, Vancouver, Canada, 2022.

Design of human antibodies for delivery into cells, Next Generation Protein Therapeutics Summit, Boston, MA, 2022.

Rapid discovery, delivery and manufacturing of peptides and proteins, Genentech, online, 2022.

Rapid discovery, delivery and manufacturing of peptides and proteins, Raze Bio, online, 2022.

Rapid discovery, delivery and manufacturing of peptides and proteins, Calico Life Sciences, South San Francisco, CA, 2022.

Rapid discovery, delivery and manufacturing of peptides and proteins, Nissan, Tokyo, Japan, 2022.

Rapid discovery, delivery and manufacturing of peptides and proteins, University of Tokyo, Tokyo, Japan, 2022.

Rapid discovery, delivery and manufacturing of peptides and proteins, Corteva, Indianapolis, IN, 2022.

Rapid discovery, delivery and manufacturing of peptides and proteins, Eli Lilly, Indianapolis, IN, 2022.

Rapid discovery, delivery and manufacturing of peptides and proteins, New York Blood Institute, New York City, NY, 2022.

Cysteine Arylation to Engineer and Discover Proteins, Caltech, Pasadena, CA, 2020.

Ultra-rapid Flow Protein Synthesis, IFPAC, Washington DC, 2020.

Cysteine Arylation to Engineer and Discover Proteins, Dana-Farber Cancer Institute, Boston, MA, 2020.

A platform to identify peptide inhibitors of protein-protein interactions, MIT Industrial Liaison Program, Cambridge, MA, 2020.

A platform to identify peptide inhibitors of protein-protein interactions, Dana-Farber Cancer Institute, Boston, MA, 2020.

A platform to identify peptide inhibitors of protein-protein interactions, Tokyo Institute of Technology, Tokyo, Japan, 2019.

Cysteine Arylation to Engineer and Discover Proteins, Mitsubishi, Tokyo, Japan, 2019.

Cysteine Arylation to Engineer and Discover Proteins, University of Oxford, Cambridge, U.K., 2019.

Cysteine Arylation to Engineer and Discover Proteins, University of Cambridge, Cambridge, U.K., 2019.

Cysteine Arylation to Engineer and Discover Proteins, Imperial College London, London, U.K., 2019.

A platform to identify peptide inhibitors of protein-protein interactions, University of Hawaii, Honolulu, HA, 2019.

A platform to identify peptide inhibitors of protein-protein interactions, AU peptide conference Cairns, AU, 2019.

Ultra-rapid Flow Protein Synthesis, Solid Phase Conference, Cairns, AU, 2019.

A platform to identify peptide inhibitors of protein-protein interactions, Singapore, 2019.

Cysteine Arylation to Engineer and Discover Proteins, Bangkok, Thailand, 2019.

Ultra-rapid Flow Protein Synthesis, Chemical Protein Synthesis, Berlin, Germany, 2019.

A platform to identify peptide inhibitors of protein-protein interactions, Keynote, RICT, Nantes, France, 2019.

A platform to identify peptide inhibitors of protein-protein interactions, Scripps Institute, San Diego, CA, 2019.

A platform to identify peptide inhibitors of protein-protein interactions, Keynote, TIDES, San Diego, CA, 2019.

Cysteine Arylation to Engineer and Discover Proteins, Janssen J&J, Philadelphia, PA, 2019.

Synthetic Polymer Xenoproteins, ACS National Meeting, Orlando, FL, 2019.

Cysteine Arylation to Engineer and Discover Proteins, Tokyo Institute of Technology, Tokyo, Japan, 2019.

Synthetic Polymer Xenoproteins, DTRA, Washington D.C., 2019.

Cysteine Arylation to Engineer and Discover Proteins, Wave Therapeutics, Cambridge, MA, 2019.

Cysteine Arylation to Engineer and Discover Proteins, University of Washington, Seattle, WA, 2019.

Synthetic Polymer Xenoproteins, Calico Labs, San Francisco, CA, 2019.

Cysteine Arylation to Engineer and Discover Proteins, Sumitomo Chemical, Osaka, Japan, 2018.

Precision Cellular Delivery, Antibody Engineering and Therapeutics Conference, San Diego, CA, 2018.

Cysteine Arylation to Engineer and Discover Protein, University of Minnesota, Minneapolis, MN, 2018.

Ultra-rapid Flow Peptide Synthesis, United States Pharmacopeia, Washington, DC, 2018.

Cysteine Arylation to Engineer and Discover Proteins, Technologie Servier, Paris, France, 2018.

Ultra-rapid Flow Peptide Synthesis, University of Chicago, Chicago, IL, 2018.

Cysteine Arylation to Engineer and Discover Proteins, Copenhagen, Denmark, 2018.

Cysteine Arylation to Engineer and Discover Proteins, Brandeis University, MA, 2018.

Cysteine Arylation to Engineer and Discover Proteins, Eli Lilly, Indianapolis, IN, 2018.

Synthetic Polymer Xenoproteins, Foldamers Conference, Bordeaux, France, 2018.

Cysteine Arylation to Engineer and Discover Proteins, ACS National Meeting, Boston, MA, 2018.

Synthetic Polymer Xenoproteins, ACS National Meeting, Boston, MA, 2018.

Delivery of antisense oligos into cells, Sumitomo Chemical, Tokyo, Japan, 2018.

Cysteine Arylation to Engineer and Discover Proteins, Anjimoto, Tokyo, Japan, 2018.

Cysteine Arylation to Engineer and Discover Proteins, EPFL, 2018.

Cysteine Arylation to Engineer and Discover Proteins, University of Geneva, Geneva, Switzerland, 2018.

Ultra-rapid Flow Peptide Synthesis, FOG Pharma, Cambridge, MA, 2018.

Synthetic Polymer Xenoproteins, DARPA, San Francisco, CA, 2018.

Cysteine Arylation to Engineer and Discover Proteins, University of British Columbia, Vancouver, Canada, 2018.

Synthetic Polymer Xenoproteins, 3rd Rock Ventures, Boston, MA, 2018.

Ultra-rapid Flow Peptide Synthesis, Gordon Conference, TIDES Boston, MA, 2018.

Synthetic Polymer Xenoproteins, Bristol-Myers Squibb, Princeton, NJ, 2018.

Cysteine Arylation to Engineer and Discover Proteins, Vanderbilt University, Nashville, TN, 2018.

Ultra-rapid Flow Peptide Synthesis, Gordon Conference, Ventura, CA, 2018.

Cysteine Arylation to Engineer and Discover Proteins, Copenhagen, Denmark, 2018 (keynote speaker).

Cysteine Arylation to Engineer and Discover Proteins, Osaka University, Osaka, Japan, 2018.

Precision Cellular Delivery, Osaka University, Osaka, Japan, 2018.

Ultra-rapid Flow Peptide Synthesis, Protein and Peptide Symposium, Singapore, 2017.

Ultra-rapid Flow Peptide Synthesis, Osaka University, Osaka, Japan, 2017.

Ultra-rapid Flow Peptide Synthesis, Corden Pharma, Brussels, Belgium, 2017.

Precision Cellular Delivery and Cysteine Arylation, Arduro Therapeutics, Oakland, CA, 2017.

Cysteine Arylation to Engineer and Discover Proteins, University of California at Berkeley, Oakland, CA, 2017.

Ultra-rapid Flow Peptide Synthesis, Neon Therapeutics, Cambridge, MA, 2017.

Cysteine Arylation to Engineer and Discover Proteins, Boston University, Boston, MA, 2017.

Ultra-rapid Flow Peptide Synthesis, Chemical Protein Synthesis Symposium, Israel, 2017.

Cysteine Arylation to Engineer and Discover Proteins, Vertex Therapeutics, Boston, MA, 2017.

Ultra-rapid Flow Peptide Synthesis, Blavatnik Science Symposium, New York City, NY, 2017.

Cysteine Arylation to Engineer and Discover Proteins, Gordon Conference, Concord, NH, 2017.

Cysteine Arylation to Engineer and Discover Proteins, Novartis, Cambridge, MA, 2017.

Ultra-rapid Flow Peptide Synthesis, American Peptide Society Meeting, Whistler, Canada, 2017.

Precision Cellular Delivery and Cysteine Arylation, University of Alberta, Edmonton, Canada, 2017.

Ultra-rapid Flow Peptide Synthesis, Dutch Peptide Society Meeting, The Netherlands, 2017 (keynote speaker).

Cysteine arylation, Novartis Award Symposium, Boston, MA, 2017.

Ultra-rapid Flow Peptide Synthesis, Canadian Peptide Society Meeting, Toronto, Canada, 2017.

Precision Cellular Delivery, TIDES, San Diego, CA, 2017 (keynote speaker).

Cysteine arylation, PEGS, Boston, MA, 2017.

Precision Cellular Delivery, PEGS, Boston, MA, 2017.

Precision Cellular Delivery, Bristol Myers Squibb, Princeton, NJ, 2017.

Ultra-rapid Flow Peptide Synthesis, American Chemical Society Meeting, San Francisco, CA, 2017.

Precision Cellular Delivery, CHI Peptide Conference, Boston, MA, 2017.

Precision Cellular Delivery and Cysteine Arylation, Kyoto University, Kyoto, Japan, 2017.

Precision Cellular Delivery and Cysteine Arylation, Ohio State, Columbus, OH, 2017.

Precision Cellular Delivery and Cysteine Arylation, Sontag Foundation, Jacksonville, FL, 2017.

Precision Cellular Delivery and Cysteine Arylation, University of Southern California, Los Angeles, CA, 2017.

Precision Cellular Delivery and Cysteine Arylation, UCLA, Los Angeles, CA, 2017 (Amgen Lecture).

Rapid discovery of Xenoproteins, Novo Nordisk, Copenhagen, Denmark, 2017.

Xenoproteins, DARPA, San Diego, CA, 2016.

Cysteine Arylation, University of Osaka, Osaka, Japan, 2016.

Cysteine Arylation, University of Tokyo, Tokyo, Japan, 2016.

Ultra-rapid Flow Peptide Synthesis, Asian Chemical Biology Society, Taiwan, 2016.

Ultra-rapid Flow Peptide Synthesis, EUROTides, Berlin, Germany, 2016 (keynote speaker).

Ultra-rapid Flow Peptide Synthesis, Flow Chemistry, Miami, FL, 2016.

Precision Cellular Delivery, Damon Runyon Fundraiser, Boston, MA, 2016.

Cysteine Arylation, Amgen Award Symposium, Cambridge, MA, 2016.

Precision Cellular Delivery and Cysteine Arylation, Tufts University, Medford, MA, 2016.

Precision Cellular Delivery and Cysteine Arylation, CSU, CO, 2016.

Precision Delivery and Cysteine Arylation, Northeastern University, Boston, MA, 2016.

Cysteine Arylation, CIPSM, LMU, Munich, Germany, 2016.

Cysteine Arylation, Breslow medal for Prof. Muir, ACS Meeting, Philadelphia, PA, 2016.

Precision Delivery of Agents Into Cells, Duke Neuroscience, Raleigh, NC, 2016.

Ultra-rapid Flow Peptide Synthesis, Chinese Peptide Society, Nanjing, China, 2016.

Precision Delivery of Agents Into Cells and Cysteine Arylation, BMS, Princeton, NJ, 2016.

Precision Delivery of Agents Into Cells and Cysteine Arylation, BMS, New Brunswick, NJ, 2016.

Cysteine Arylation for Antibody Drug Conjugates, Next Generation Protein Summit, San Francisco, CA, 2016.

Precision Delivery of Agents Into Cells and Cysteine Arylation, Merck Annual Retreat, Skytop, PA, 2016 (keynote address).

Precision Delivery of Agents Into Cells and Cysteine Arylation, Department of Chemistry, OSU, OR, 2016.

Precision Delivery of Agents Into Cells and Cysteine Arylation, Pfizer, Groton, CT, 2016.

Precision Delivery of Agents Into Cells and Cysteine Arylation, Department of Chemistry, University of Oregon, OR, 2016.

Automatide, Zing Conference on Flow Chemistry, Faro, Portugal, 2016.

Precision Delivery of Agents Into Cells and Cysteine Arylation, Department of Chemistry, Yale University, CT, 2016.

Precision Delivery of Agents Into Cells and Cysteine Arylation, Department of Chemistry, UIUC, IL, 2016.

Cysteine Arylation, EMN Conference, Kona, HI, 2016.

Precision Cellular Delivery, Sontag Foundation Annual Retreat, Palm Springs, CA, 2016.

Ultra Rapid Peptide Synthesis and Cysteine Arylation, AstraZeneca, Waltham, MA, 2016.

Guppie Tank, Lab Central, Cambridge, MA, 2015.

Ultra Rapid Peptide Synthesis and Cysteine Arylation, Sarepta Therapeutics, Cambridge, MA, 2015.

Cysteine Arylation, Australian Peptide Society, Australia, 2015.

Ultra Rapid Peptide Synthesis, Solid Phase Chemistry, Australia, 2015.

Precision Delivery of Agents Into Cells, Prostate Cancer Foundation, Washington, D.C., 2015.

Cysteine Perfluoroarylation, Staples, and Ultra Rapid Synthesis, Syracuse University, Syracuse, NY, 2015.

Cysteine Perfluoroarylation, Staples, and Ultra Rapid Synthesis, Cornell University, Ithaca, NY, 2015.

Precision Delivery of Agents Into Cells, NIH, Bethesda, MD, 2015.

Automatide, TSRC, Telluride, CO, 2015.

Cysteine Perfluoroarylation Enables Peptide Macrocyclization, American Peptide Society, Orlando, FL, 2015.

Precision Delivery of Agents Into Cells, Chemical Protein Synthesis, Orlando, FL, 2015.

Cysteine Arylation and Precision Delivery of Agents Into Cells, PepTalks, Novartis, Cambridge, MA, 2015.

Cysteine Arylation and Precision Delivery of Agents Into Cells, University of Toronto, Toronto, Canada, 2015.

Cysteine Arylation Enables Site-specific Conjugation, IBC, San Francisco, CA, 2015.

Precision Delivery of Agents Into Cells, IBC, San Francisco, CA, 2015.

Ultra Rapid Peptide Synthesis, PEGS, Boston, MA, 2015.

Cysteine Perfluoroarylation, TIDES, San Diego, CA, 2015.

Ultra Rapid Peptide Synthesis, TIDES, San Diego, CA, 2015.

Fast Flow Peptides, Idea Stream, Cambridge, MA, 2015.

Cysteine Arylation and Precision Delivery of Agents Into Cells, Stanford, CA, 2015 (Novartis Lecture Series).

Cysteine Arylation and Precision Delivery of Agents Into cells, Emeryville, CA, 2015 (Novartis Lecture Series).

Fast Flow Peptide Synthesis and Cysteine Arylation, Novo Nordisk, Copenhagen, Denmark, 2015.

Cysteine Arylation to Hit Brain Cancer, Sontag Brain Cancer Retreat, Jacksonville, FL, 2015.

Abiotic Peptides to Treat Antibacterial Infections, Visterra Inc., Cambridge, MA, 2015.

Bioconjugation Perspectives, Pfizer, St. Louis, MO, 2015.

Cysteine Arylation Enables Synthesis of Abiotic Peptides and Proteins, Foldamers Conference, Bordeaux, France, 2015.

Printing Biomolecules, PBIC, Palm Beach, FL, 2014.

Precision Delivery of Agents Into Cells, Amgen, Cambridge, MA, 2014.

Cysteine Perfluoroarylation, Staples, and Ultra Rapid Synthesis, Merck, Kenilworth, NJ, 2014.

Cysteine Perfluoroarylation, Staples, and Ultra Rapid Synthesis, Pfizer, Cambridge, MA, 2014.

Precision Delivery of Biologics Into Cancer Cells, Next Generation Protein Therapeutics Conference, GTC, Boston, MA, 2014.

Precision Delivery of Biologics Into Cancer Cells, Damon Runyon Foundation, Project Update, New York, NY, 2014.

Flowing into URIECA Moments at MIT, Visiting Committee Chemistry, Cambridge, MA, 2014.

Synthetic Polymer Xenoproteins, DARPA F(x) Kick Off Meeting, Teluride, CO, 2014.

Cysteine Perfluoroarylation, Staples, and Ultra Rapid Synthesis, Ferring, San Diego, CA, 2014.

Cysteine Perfluoroarylation, Staples, and Ultra Rapid Synthesis, Boehringer-Ingelheim, Ridgefield, CT, 2014.

Precision Delivery of Biologics Into Cancer Cells, Koch Institute, MIT, Cambridge, MA, 2014.

Precision Delivery of Biologics Into Cancer Cells, Broad Institute, Cambridge, MA, 2014.

Flowing into URIECA Moments at MIT, Chemistry, Cambridge, MA, 2014.

Precision Delivery of Biologics Into Cancer Cells, Harvard Medical School, Boston, MA, 2014.

Precision Delivery of Biologics Into Cancer Cells, PEGS, Boston, MA, 2014.

Precision Delivery of Biologics Into Cells, University of Kansas Medical Center, KS, 2014.

Fast-flow Peptide Synthesis, Idea Stream, MIT, Cambridge, MA, 2014.

A Protein Pump for Delivery of Non-natural Entities into Live Cells, Emerging Technologies Breakout, Broad Institute, Cambridge, MA, 2014.

A Protein Pump for Delivery of Non-natural Entities into Live Cells, Protein-protein Interactions, GTC, San Diego, CA, 2013.

Cysteine Perfluoroarylation, Staples, and Ultra Rapid Synthesis, PepTalk, Cambridge, MA, 2013.

Crossing the Plasma Membrane with a Delivery Platform Based on Anthrax Lethal Toxin, ICBS, Kyoto, Japan, 2013.

Cysteine Perfluoroarylation, Ipsen, Milford, MA, 2013.

Cysteine Perfluoroarylation, Igenica Inc., San Francisco, CA, 2013.

Crossing the Plasma Membrane with a Delivery Platform Based on Anthrax Lethal Toxin, Genentech, San Francisco, CA, 2013.

Hijacking a Platform from Nature for Delivery of Novel Agents to the Cytosol of Cells, Next Generation Protein Therapeutics Summit, San Diego, CA, 2013.

Hijacking a Platform from Nature for Delivery of Novel Agents to the Cytosol of Cells, Dean's advisory council meeting, MIT School of Science, Cambridge, MA, 2013.

Cysteine Perfluoroarylation, TIDES, Peptide Discovery and Development, Boston, MA, 2013.

Crossing the Plasma Membrane with a Delivery Platform Based on Anthrax Lethal Toxin, Departmental Seminar, Cell Physiology and Molecular Biophysics, TTUHC, Lubbock, TX, 2013.

Crossing the Plasma Membrane with a Delivery Platform based on Anthrax Lethal Toxin, Department of Chemistry, University of Pennsylvania, PA, 2013.

Crossing the Plasma Membrane with a Delivery Platform Based on Anthrax Lethal Toxin, MIT Chemistry visiting committee, Cambridge, MA, 2012.

Crossing the Plasma Membrane with a Delivery Platform Based on Anthrax Lethal Toxin, CEHS, MIT, Cambridge, MA, 2012.

Crossing the Plasma Membrane with a Delivery Platform Based on Anthrax Lethal Toxin Merck & Co. Research Laboratories, West Point, PA, 2012.

Crossing the Plasma Membrane with a Delivery Platform Based on Anthrax Lethal Toxin, MIT Biophysics Retreat, Cambridge, MA, 2012.

Crossing the Plasma Membrane with a Delivery Platform Based on Anthrax Lethal Toxin, Next Generation Protein Summit, San Francisco, CA, 2012.

The Holy Grail: Getting Protein Therapeutics Inside Cells, Next Generation Protein Summit, San Francisco, CA, Panel member, 2012.

Getting Peptides Into Cells, Peptide Discovery and Development, Las Vegas, NV, 2012.

Crossing the Plasma Membrane with a Delivery Platform Based on Anthrax Lethal Toxin, MIT Biotechnology Retreat, Cambridge, MA, 2012.

Chemical Dissection of Lethal Factor Translocation Through Anthrax Toxin Pore, ETOX 15, Oslo, Norway, 2011.

Chemical Dissection of Lethal Factor Translocation Through Anthrax Toxin Pore, Departmental Seminar, Cell Physiology and Molecular Biophysics, TTUHC, Lubbock, TX, 2011.

Chemical Dissection of Lethal Factor Translocation Through Anthrax Toxin Pore, Departmental Seminar, Microbiology and Molecular Genetics, Harvard Medical School, Boston, MA, 2010.