MINKUI LUO, PH.D.

Molecular Pharmacology & Chemistry
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PERSONAL

Born: Sep. 20th, 1976; Urumqi, Xinjiang, China
Citizenship: China (US permanent resident)

ACADEMIC APPOINTMENTS

2014-present Associate Member of Mol. Pharm. & Chem., Memorial Sloan-Kettering Cancer Center
2014-present Associate Professor of Pharmacology, Weill Medical College of Cornell University
2008-2014 Assistant Member of Mol. Pharm. & Chem., Memorial Sloan-Kettering Cancer Center
2008-2014 Assistant Professor of Pharmacology, Weill Medical College of Cornell University

EDUCATION & TRAINING

2005-2008 Postdocoral Fellow in Biochemistry & Chemical Biology, Albert Einstein College of Medicine, with Vern L. Schramm
1999-2005 Ph.D. in Bioorganic and Bioinorganic Chemistry, Princeton University, with John T. Groves
1994-1999 B.A. in Organic Chemistry, Fudan University, China, with Cheng-ye Yuan (Shanghai Institute of Organic Chemistry)

AWARDS

2011 Basil O'Connor Starter Scholar, March of Dimes Birth Defects Foundation
2010 2010 NIH Director's New Innovator Award, NIH
2010 Alfred W. Bressler Scholar, Alfred W. Bressler Scholars Endowment Fund
2009 The V Scholar Award, the V Foundation for Cancer Research
2007 Outstanding Postdoctoral Research Prize, Albert Einstein College of Medicine
2003 Best Presentation Award, 3rd ACS Annual Metropolitan New York Area Poster Program for Graduate Students in the Chemical Sciences
1998 Rohm & Haas Fellowship, Fudan University
1998 Du Pont Fellowship, Fudan University

PROFESSIONAL MEMBERSHIPS

2002-present American Chemical Society
2005-present The New York Academy of Science
2010-present The Harvey Society

NAMED LECTURESHIPS

BIBLIOGRAPHY

Peer-Reviewed Manuscripts (Submitted and Under Reviews)

Gil Blum, Glorymar Ibáñez, Xiangjun Rao, David Shum, Constantin Radu, Hakim Djaballah, Judd C. Rice and Minkui Luo, "A Pool of Small-molecule Inhibitors of SETD8 with Cellular Activity", ***under revision***

Li Zhang, Rui Wang, Ngoc Tung Trans, Haiping Tang, Ailan Guo, Hairui Su, William Placzek, Xiaosi Han, Kun Qian, Wenping Zhou, Todd Hricik, Supana Laha, Alan Morettin, Omar Abdel-Wahab, Jocelyn Côté, Ross Levine, Hengbin Wang, Glen Raffel, Haiteng Deng, Yanyan Liu, Y. George Zheng, Minkui Luo, and Xinyang Zhao,

"Methylation of RBM15 by PRMT1 controls its ubiquitylation by CNOT4 E3 ligase and alternative splicing in megakaryocytes", ***under revision***

Peer-Reviewed Manuscripts (Published and In Press)

Independent:

34. Shan Feng, Lei Zhang, Gulishana Adilijiang, Jieyuan Liu, Minkui Luo and Haiteng Deng, "Substrate Profiling of Glutathione S-transferase with Engineered Enzymes and Matched Glutathione Analogues", *Angew. Chem. Int. Ed.* **2014**, *53*, 7149-7153.

33. Ian R. Bothwell and Minkui Luo, "Large-scale, Protection-free Synthesis of Se-Adenosyl-L-selenomethionine Analogues and Their Application as Cofactor Surrogates of Methyltransferases", *Org. Lett.* **2014**, *16*, 3056-3059. This paper was featured by Today's Science Sparks at MSKCC.

32. Rui Wang, Weihong Zheng and Minkui Luo, "A Sensitive Mass-spectrum Assay to Characterize Engineered Methionine Adenosyltransferases with *S*-alkyl Analogues of Methionine (SAAM) as Substrates, *Anal. Biochem.* ***2014***, *450*, 11-19. PMCID:PMC3947680. This paper was featured as the cover of the issue of *Anal. Biochem.*

31. Han Guo, Rui Wang, Weihong Zheng, Yuling Chen, Gil Blum, Haiteng Deng and Minkui Luo, "Profiling Substrates of Protein Arginine N-Methyltransferase 3 with *S*-Adenosyl-*L*-methionine Analogues", *ACS Chemical Biology*, ***2014***, *9*, 476-484. PMCID:PMC3944066

30. Rui Wang and Minkui Luo, "A Journey toward Bioorthogonal Profiling of Protein Methylation inside Living Cells", *Curr. Opin. Chem. Biol.* ***2013***, *17*, 729-737. PMCID:PMC3823810

29. Kabirul Islam, Yuling Chen, Hong Wu, Ian Bothwell, Gil Blum, Hong Zeng, Aiping Dong, Weihong Zheng, Jinrong Min, Haiteng Deng, Minkui Luo, "Defining Efficient Enzyme-Cofactor Pairs for Bioorthogonal Profiling of Protein Methylation", *Proc. Natl. Acad. Sci. U.S.A.* **2013**, *110*, 16778-16783. PMCID:PMC3801003

28. Jaclyn Winter, Grace Chiou, Ian Bothwell, Wei Xu, Neil Garg, Minkui Luo, Yi Tang, "Expanding the Structural Diversity of Polyketides by Exploring the Cofactor Tolerance of an Inline Methyltransferase Domain", *Org. Lett.* **2013**, 15, 3774-7. PMCID:PMC3779521

27. Gil Blum, Ian R. Bothwell, Kabirul Islam & Minkui Luo, "Profiling Protein Methylation with Cofactor Analogue Containing Terminal Alkyne Functionality", *Curr. Protoc. Chem. Biol.* **2013**, *5*, 67-88. PMCID: in process

26. Gil Blum, Kabirul Islam & Minkui Luo, "Using Azido Analogue of S-Adenosyl-L-methionine for Bioorthogonal Profiling of Protein Methylation (BPPM)", *Curr. Protoc. Chem. Biol.* **2013**, *5*, 45-66. PMCID:PMC3647616

25. Rui Wang, Kabirul Islam, Weihong Zheng, Ying Liu, Haiping Tang, Gil Blum, Haiteng Deng & Minkui Luo, "Profiling Genome-wide Chromatin Methylation with Engineered Posttranslation Apparatus within Living Cells", *J. Am. Chem. Soc.* **2013**, *135*, 1048. This article was featured by Faculty of 1000Prime. PMCID:PMC3582175

24. Weihong Zheng, Glorymar Ibáñez, Hong Wu, Gil Blum, Hong Zeng, Aiping Dong, Fengling Li, Taraneh Hajian, Abdellah Allali-Hassani, Maria F. Amaya, Alena Siarheyeva, Wenyu Yu, Peter J. Brown, Matthieu Schapira, Masoud Vedadi, Jinrong Min & Minkui Luo, "Sinefungin Derivatives as Inhibitors and Structure Probes of Protein Lysine Methyltransferase SETD2", *J. Am. Chem. Soc.* **2012**, *134*, 18004-180014. This paper was featured by *Nature/SciBX* 5(45); doi:10.1038/scibx.2012.1192. PMCID:PMC3504124

23. Ian R. Bothwell, Kabirul Islam, Yuling Chen, Weihong Zheng, Gil Blum, Haiteng Deng & Minkui Luo, "*Se*-Adenosyl-*L*-selenomethionine Cofactor Analogue as a Reporter of Protein Methylation", *J. Am. Chem. Soc.* **2012**, *134*, 14905-149012. PMCID:PMC3458307

22. Glorymar Ibáñez1, David Shum, Gil Blum, Bhavneet Bhinder, Constantin Radu, Christophe Antczak, Minkui Luo and Hakim Djaballah, "A High Throughput Scintillation Proximity Imaging Assay for Protein Methyltransferases", *Comb. Chem. High Throughput Screen.* **2012**, *15*, 359-371. This paper was featured as the cover of the issue *Comb. Chem. High Throughput Screen.* PMCID:PMC3553658

21. Kabirul Islam, Ian Bothwell, Yuling Chen, Caitlin Sengelaub, Rui Wang, Haiteng Deng and Minkui Luo, "Bioorthogonal Profiling of Protein Methylation (BPPM) Using Azido Derivative of S-adenosyl-L-methionine", *J. Am. Chem. Soc.* **2012**, *134*, 5909-5915. This paper was featured by Today's Science Sparks at MSKCC and highlighted in *Chemical and Engineering News* in the April 9th issue, **2012**, *15*, p.35. PMCID:PMC3336210

20. Minkui Luo, "Current Chemical Biology Approaches to Interrogate Protein Methyltransferases", *ACS Chemical Biology*, **2012**, *7*, 443-463. PMCID:PMC3306480

19. Debjani Chakraborty, Kabirul Islam and Minkui Luo, "Facile Synthesis and Altered Ionization Efficiency of Diverse Nε-Alkyllysine-containing Peptides", *Chem. Comm.* **2012**, *48*, 1514 - 1516. Invited paper for "*ChemComm* Emerging Investigators". PMCID:PMC3573693

18. Rui Wang, Glorymar Ibáñez, Kabirul Islam, Weihong Zheng, Gil Blum, Caitlin Sengelaub, and Minkui Luo, "Formulating Fluorogenic Assay to Evaluate S-adenosyl-L-methionine Analogues as Protein Methyltransferase Cofactors", *Mol. BioSyst.*. **2011**, *7,* 2970-2981. This paper was featured as the cover of the issue of *Mol. BioSyst.*. PMCID:PMC3575546

17. Kabirul Islam, Weihong Zheng, Haiqiang Yu, Haiteng Deng and Minkui Luo, "Expanding Cofactor Repertoire of Protein Lysine Methyltransferase for Substrate Labeling", *ACS Chemical Biology*, **2011**, *6*, 679-684. PMCID:PMC3137739

16. Rui Wang, Weihong Zheng, Haiqiang Yu, Haiteng Deng and Minkui Luo, "Labeling Substrates of Protein Arginine Methyltransferase with Engineered Enzymes and Matched S-Adenosyl-L-methionine Analogues", *J. Am. Chem. Soc.* **2011**, *133*, 7648-7651. PMCID:PMC3104021

15. Glorymar Ibáñez, Jamie L. McBean, Yaritzy M. Astudillo and Minkui Luo, **"**An Enzyme-coupled Ultrasensitive Luminescence Assay for Protein Methyltransferases", *Anal. Biochem*. **2010**, *401*, 203–210. • This paper was featured as the cover of the issue of *Anal. Biochem*.

Postdoctoral (Albert Einstein College of Medicine):

14. Yong Zhang, **Minkui Luo** and Vern L. Schramm, "Transition State Structures of *Plasmodium falciparum* and Human Orotate Phosphoribosyltransferases", *J. Am. Chem. Soc.* **2009**, *131,* 4685-4694. This paper was featured by Today's Science Sparks at MSKCC.

13. María B. Cassera, Keith Z. Hazleton, Paul M. Riegelhaupt, Emilio F. Merino, **Minkui Luo**, Myles H. Akabas and Vern L. Schramm, "Erythrocytic adenosine monophosphate as an alternative purine", *J. Biol. Chem*. **2008**, *283,* 32889-32899.

12. **Minkui Luo** and Vern L. Schramm, "Ribosyl Geometry in the Transition State of *Streptococcus pneumoniae* Methylthioadenosine Nucleosidase from the 3´-^{2}H Kinetic Isotope Effect", *J. Am. Chem. Soc.* **2008**, *130*, 11617-11619.

11. Lei Li, **Minkui Luo**, Mahmoud Ghanem, Erika A. Taylor and Vern L. Schramm, "Residues Remote from Catalytic Sites Contribute to Transition State Structure in Bovine Purine Nucleoside Phosphorylase", *Biochemistry* **2008**, *47*, 2577-2583.

10. **Minkui Luo**, Lei Li and Vern L. Schramm "Remote Mutations Alter Transition State Structure of Human Purine Nucleoside Phosphorylase", *Biochemistry* **2008**, *47*, 2565-2576.

9. **Minkui Luo** and Vern L. Schramm, "Transition State Structure of *E. coli t*RNA-specific Adenosine Deaminase", *J. Am. Chem. Soc.* **2008**, *130*, 2649-2655. This paper was featured in JACS Select, March 2009.

8. Vipender Singh, **Minkui Luo**, Rosemary L. Brown, Gillian E. Norris and Vern L. Schramm, "Transition State Structure of *Neisseria meningitides* 5´-Methylthioadenosine/S-adenosylhomocysteine Nucleosidase", *J. Am. Chem. Soc.* **2007**, *129*, 13831-13833.

7. Jemy A. Gutierrez, **Minkui Luo** (*co-first author*), Vipender Singh, Lei Li, Rosemary L. Brown, Gillian E. Norris, Gary B. Evans, Richard H. Furneaux, Peter C. Tyler, Gavin F. Painter, Dirk H. Lenz, and Vern L. Schramm, "Picomolar Inhibitors as Transition State Probes of 5'-Methylthioadenosine Nucleosidases", *ACS Chem. Biol.* **2007**, *2*, 725-734. The paper was featured as the cover and in *Point of View* of the issue of *ACS Chemical Biology*.

6. **Minkui Luo**, Vipender Singh, Erika A. Taylor and Vern L. Schramm, "Transition-State Variation in Human, Bovine, and *Plasmodium falciparum* Adenosine Deaminases", *J. Am. Chem. Soc.* **2007**, *129,* 8008-8017.

Graduate (Princeton):

5. **Minkui Luo**, Hening Lin, Michael A. Fischbach, David R. Liu, Christopher T. Walsh, John T. Groves, "Enzymatic Tailoring of the Bacterial Siderophore Enterobactin Alters Membrane Partitioning and Iron Acquisition", *ACS Chem. Biol.* **2006**, *1*, 29-32.

4. **Minkui Luo**, Evgeny A. Fadeev, and John T. Groves, "Mycobactin-mediated Iron Acquisition within Macrophages", *Nat. Chem. Biol.* **2005**, *1*, 149-153. This paper was featured by the news of *Nat. Chem. Biol.* **2005**, *1*, 127-128.

3. Evgeny A. Fadeev, **Minkui Luo**, and John T. Groves, "Synthesis and Structural Modeling of the Amphiphilic Siderophore Rhizobactin-1021 and its Analogs", *Bioorg. Med. Chem. Lett.* **2005**, *15*, 3771-3774.

2. **Minkui Luo**, Evgeny A. Fadeev, and John T. Groves, "Membrane Dynamics of the Amphiphilic Siderophore, Acinetoferrin", *J. Am. Chem. Soc.* **2005**, *127,* 1726-1736. The results were highlighted by *Chemical & Engineer News* in July 4th issue, **2005**, 22-23.

1. Evgeny A. Fadeev, **Minkui Luo**, and John T. Groves, "Synthesis, Structure and Molecular Dynamics of Gallium Complexes of Schizokinen and the Amphiphilic Siderophore Acinetoferrin", *J. Am. Chem. Soc.* **2004**, *126*, 12065-12075.

Book Chapters

Patents

1. Methyltransferase Inhibitors for Treating Cancer I: PCT application PCT/US2012/062157, filed on October 26, 2012 (Sinefungin Analogs). National phase applications pending in the US, EU, Australia and Canada

2. Methyltransferase Inhibitors for Treating Cancer II: PCT application PCT/US2014/034118, filed on 04/15/2014 (Sinefungin-urea Analogs)

ACTIVE RESEARCH SUPPORT

Active External Research Support

2010 NIH Directors New Innovator Award – DP2 (PI: M. Luo) 09/30/10–09/30/15 25%
NIH Roadmap $300K/yr direct cost
"Enzyme-engineering Approaches to Dissect Protein Methylation Profiles"
This proposal is aimed at developing the technology to profile protein methyltransferase targets *in vitro* and *in vivo*. Primary targets: G9a and EuHTMase1. Model: prostate cancer.

Parent Research Grant – R01 (PI: M.Luo) 02/01/11 – 01/31/15 15%
NIH: NIGMS $187.5K/yr direct cost
"Profile substrates and inhibitors of protein lysine methyltransferase"

This proposal is aimed at profiling the targets and identifying the inhibitors of SET8 using breast cancer models.

Starr Cancer Consortium (SCC) 6th Grant (PI: M.Luo) 01/01/13–12/31/14 15%
Starr Cancer Consortium $150,000/yr direct cost
"Define Oncogenic Mechanisms of Protein Methyltransferases SETDB1 and SUV39H1 in Melanoma"
This proposal is aimed at implementing BPPM technology to elucidate downstream roles of SETD1 and SUV39H1 in melanoma.

Starr Cancer Consortium (SCC) 7th Grant (co-PI: M.Luo) 01/01/14–12/31/15 15%
Starr Cancer Consortium $198,000/yr direct cost
"Elucidating the Function of Cancer-related Histone Modifiers by Integrative Analysis"
This proposal is aimed at implementing BPPM technology in combination with bioinformatics analysis to elucidate downstream roles of >30 PMTs in the two models of AML and breast cancer.

Tri-I Therapeutics Discovery Grant (PI: M. Luo) 07/01/14–06/30/16 10%
Tri-Institutional Therapeutics Discovery Institute $150,000/yr + cost for 2.5 chemists
"Small Molecule Inhibitors of Protein Methyltransferease SET8 for Novel Anti-cancer Therapy"
This proposal is aimed at developing SET8 inhibitors toward clinic application.

Active Fellowship Support

T32 GM073546 (PI: Steve Gross) 8/1/13 – 7/31/15
NIH/GM awarded through WCMC
Pharmacology Training Grant
Fellowship support for Ryan Blawski

Active Internal Research Support

MSKCC New Faculty Startup Package (PI: M. Luo) 08/01/08–thereafter N.A
This package includes all the justified lab equipments with prices above $5K. Lab and personnel costs no more than $250K for Year 01-03, 50% of lab and personnel costs for Year 04-06 and 25% of lab and personnel costs thereafter.

Drug Discovery and Development Initiative (PI: M. Luo) 07/01/09–12/31/14 15%
The Experimental Therapeutics Center $180K/yr direct cost
This proposal is aimed at developing inhibitors of cancer-relevant protein methyltransferases.

PENDING SUPPORT

Tri-institutional Stem Cell Initiative (Co-PI: M. Luo) 09/01/14–08/31/16 10%
The Starr Foundation $100K/yr direct cost
PRMT4 Functions in Embryonic Stem Cells
This proposal is aimed at exploring the distinct roles of PRMT4/CARM1 between maintaining pluripotency and promoting differentiation of ESCs.

F-31 (PI: C. Qiuintero) 09/01/14–08/31/16 N.A.
NIH $50K/yr direct cost

PRMT4 Functions in Embryonic Stem Cells
This proposal is aimed at securing the support for a graduate student, Cynthia Quintero. The project focuses on implementing chemical tools to explore the roles of PRMT4/CARM1 in maintaining pluripotency of ESCs.

COMPLETED RESEARCH SUPPORT

Completed External Research Support

2009 V Scholar Award (PI: M. Luo) 12/01/09–11/30/11 N.A
The V Foundation for Cancer Research $100K/yr direct cost
This award is expected to be used to offset the direct cost of the project "Protein Arginine Methylation Profiling in Cancer" in Luo laboratory.

Assay Development for HTS – R21 (PI: M. Luo) 09/30/10 – 09/30/11 10%
NIH:NINDS $100K direct cost
"Developing High Throughput Assay to Screen Protein Methyltransferase Inhibitors"
This proposal is aimed at developing HTS technology for identifying SET7/9 inhibitors. The $100K is expected to cover the cost in the phase of assay development.

Basil O'Connor Starter Scholar Award (PI: M. Luo) 01/01/11 – 12/31/12 10%
March of Dimes Birth Defects Foundation $75K direct cost
"Chemical Biology Approaches to Define Pathological Protein Methylation"
This proposal is aimed at applying our BPPM technology (Bioorthogonal Profiling of Protein Methylation) to dissect the targets of human PRDM9 and PRDM14, two of a 17-member protein methyltransferase family PRDMs that have been implicated in malignant transformation, embryo development and cell differentiation.

Starr Cancer Consortium (SCC) 4th Grant (PI: M.Luo) 08/01/10–07/31/13 10%
Starr Cancer Consortium $100,000/yr direct cost
"Chemical Biology Approaches to Dissect Protein Methylation in Hematopoietic Cancer"
This proposal is aimed at developing the technology to profile the targets of SET7/9 in the context of accurate hematopoietic cancer models.

Completed Fellowship Support

T32 GM073546 (PI: Steve Gross) 8/1/12 – 7/31/13
NIH/GM awarded through WCMC
Pharmacology Training Grant
Fellowship support for Jamie McBean

Completed Internal Research Support

2010 Alfred W. Bressler Scholar (PI: M. Luo) 08/01/10–07/31/13 N.A
Alfred W. Bressler Scholars Endowment Fund $100K/yr direct cost
"Dissect the molecular targets of protein lysine methyltransferases SUV39H1/2"
This award is expected to replace the startup package to support the projects in the Luo laboratory.

LAB PERSONNEL

Current Lab Members

Gil Blum, 6th-year graduate student, expected to graduate in Summer of 2014 (TPCB Program)
Ian Bothwell, 5rd-year graduate student, expected to graduate in Fall of 2014 (TPCB Program)
Han Guo, 5rd-year graduate student, expected to graduate in Fall of 2014 (TPCB Program)

Liudmila Dzhekieva, 2nd-year Postdoctoral Research Fellow
Chamara Senevirathne, 1st-year Postdoctoral Research Fellow
Xiaochuan Cai, 1st-year Postdoctoral Research Fellow
Kanishk Kapilashrami, 1st-year Postdoctoral Research Fellow
Nawei Zhang, Visiting Scholar
Li Yang, Visiting Professor from Sicuan University
Ryan Blawski, 2nd-year graduate student (Pharmacology Program)

Previous Lab Members

M.S. Students

Michael J. Stokes, Pharmacology Program

Ph.D. Students with current positions

Rui Wang, Ph.D. Pharmacology Program. Current: Junior PI at Novartis (Boston)
Jamie McBean, Pharmacology Program. Current: Medical Writer, BGB (New York)
Joshua Linscott, Pharmacology Program. Current: M.D. candidate at Tufts

Postdoctoral Fellows with current positions

Kabirul Islam, Assistant Professor at University of Pittsburgh as 2014
Wei Xiong, Pending as 2014
Weihong Zheng, Senior Scientist at Longwood Biopharmaceuticals as 2014
Jianxian Gong, Associate Investigator at Peking University at 2014

Visiting Scholars

None

Technicians

Glorymar Ibáñez, Senior laboratory technician

INVITED SEMINARS

Priori to 2011

Gordon Research Conference on Graduate Research Seminar: Bioinorganic Chemistry, Ventura, CA, Feb. 2003
Center for Environmental BioInorganic Chemistry Summer Conference, Princeton, NJ, Jun. 2003
Center for Environmental BioInorganic Chemistry Summer Conference, Princeton, NJ, Jun. 2005
Chemical Biology Discussion Group: Special Year End Meeting of the New York Academy of Science, New York, NY, Jun. 2007

2011

22nd Enzyme Mechanisms Conference, St. Pete Beach, FL, Jan. 2011
Ronald Breslow Award for Achievement in Biomimetic Chemistry: Symposium in honor of Kevan Shokat, 241st ACS National Meeting, Anaheim, CA, March 2011
GlaxoSmithKline, PA, Sept. 2011
2011 Starr Cancer Consortium Retreat, Sept. 2011
Department of Chemistry, CUNY Hunter College, NY, Dec. 2011

2012

ACS Chemical Biology Award Symposium in honor of Carolyn Bertozzi, 243rd, ACS National Meeting, San Diego, March 2012
The Scripps Research Institute at Florida, Jupiter, FL, April 3rd, 2012
Transcription and Cancer Meeting, Banbury Center, Cold Spring Harbor Laboratory, April 11, 2012
Polytechnic Institute of New York University, NY, April 13th, 2012
Biology Frontier lecture, Tsinghua University, Beijing, China, April, 17th, 2012
Experimental Therapeutics Center Retreat, Memorial Sloan-Kettering Cancer Center, NY, May 23rd, 2012
Chemical Biology Seminar Series, Department of Chemistry, Princeton University, Princeton, NJ, May 24th, 2012
2012 Bioorganic Chemistry Gordon Research Conference, Andover, NH, Jun 10th, 2012
Novartis Institutes for BioMedical, Cambridge, MA, July 20th, 2012
2011 Starr Cancer Consortium Retreat, Cold Spring Harbor, NY, Sept. 24th, 2012
Department of Chemistry, MIT, Cambridge, MA, Oct. 1st, 2012
10th Drug Discovery on Target: Targeting Histone Methyltransferases and Demethylases, Cambridge, MA, Oct. 3rd, 2012
Dept. of Structural & Chem. Biol., Mount Sinai School of Medicine, New York, NY, Oct. 9th, 2012
Department of Chemistry, UIUC, Urbana, IL, Nov. 19th, 2012
Abbott, Chicago, IL, Nov. 20th, 2012

2013
Department of Medicinal Chemistry, Kansas University, Jan, 23rd, 2013
Department of Chemistry, California Institute of Technology, Feb. 27th, 2013
Department of Chemistry, Yale University, Mar. 1st, 2013
Department of Chemistry, Stony Brook University, Mar. 7th, 2013
Department of Pharmacology, Johns Hopkins University, April 10th, 2013
Department of Chemistry, Chicago University, April 12th, 2013
Department of Chemistry and Biochemistry, Boise State University, April 24th, 2013
Broad Institute, May 2nd, 2013
The Scripps Research Institute, May 7th, 2013
GRC: Enzymes, Coenzymes & Metabolic Pathways, July 14, 2013
246th ACS Meeting. "Recent Advances in Modulating the Epigenome" symposium, Sept. 8th, 2013
Department of Biochemistry and Molecular Biology, Indiana University School of Medicine, Sept. 9th, 2013
3rd Annual Center for Cancer Systems Biology (CCSB) Symposium, Memorial Sloan-Kettering Cancer Center, Oct. 28, 2013
Department of Pathology/Department of Chemistry, University of Michigan, Nov. 15th, 2013
Chemical Biology Discussion Group Symposium: Bioorthogonal Chemistry in Biology and Medicine, New York Academy of Sciences, Dec. 11, 2013
Novartis Institutes for BioMedical, Cambridge, MA, Dec. 19th, 2013

2014
Epizyme Inc, Cambridge MA, Jan. 30th
37th Steenbock Symposium: The Future of Chemical Biology, University of Wisconsin, Madison, WI, Jun. 5-7th
FASEB SRC, Biological Methylation Conference, Nassua Bahamas, Jul. 6-11th
Drug Discovery on Target: Targeting Histone Methyltransferases and Demethylases, Cambridge, MA, Oct. 9th, 2014

2015
24nd Enzyme Mechanisms Conference, Galveston, TA, Jan. 2015

EDITORIAL BOARDS

2013-present, the Review Editorial Board of Frontiers in Chemical Biology.

SERVICE

National & International

2013-present Scientific Advisor of ShanghaiTech University

2013 Member of HHMI Int'l Predoc- Reviewer Panel

Regional

2010-present Harlem Children Society's Executive Advisory Committee

MSKCC

2013-present Chairman of Pharmacology Retreat Committee
2013-present Course Director of Pharmacology I: Chemical Biology,

TEACHING

MSKCC

2008-present Gerstner Sloan-Kettering Graduate Core Course (2 lectures/yr)
2008-present Pharmacology I: Chemical Biology, Weill Medical College, Cornell University (1 lecture/yr)
2008-present Molecular Pharmacology of Cancer (1 lecture/yr)
2010-2011 MD-PhD Frontier Course, Tri-institutional MD-PhD program (1 lecture/yr)
2013-present TPCP: Chemical Biology (2 lectures/yr)