

## HENING LIN

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### (a) Education, training, and research experience

- 09/2015 – present** Howard Hughes Medical Institute Investigator, Cornell University
- 07/2013 – present** Professor, Department of Chemistry and Chemical Biology, Cornell University, and a Tri-Institutional Faculty Member
- 07/2012 – 06/2013** Associate professor, Department of Chemistry and Chemical Biology, Cornell University, and a Tri-Institutional Faculty Member
- 07/2006 – 06/2012** Assistant professor, Department of Chemistry and Chemical Biology, Cornell University, and a Tri-Institutional Faculty Member
- 2003 - 2006** Postdoctoral fellow, Harvard Medical School. Advisor: Christopher T. Walsh
- 1998 - 2003** Ph.D., Bioorganic Chemistry, Columbia University. Advisor: Virginia W. Cornish
- 1994 - 1998** B.S., Chemistry, Tsinghua University, Beijing, China.

### (b) Publications

1. Zhang X, Khan S, Jiang H, Antonyak MA, Chen X, Spiegelman NA, Shrimp JH, Cerione RA, Lin H, “Identifying the functional contribution of the defatty-acylase activity of SIRT6”, *Nat. Chem. Biol.*, accepted.
2. Sadhukhan H, Liu X, Ryu D, Nelson OD, Stupinski JA, Li Z, Chen W, Zhang S, Weiss RS, Locasale JW, Auwerx J, and Lin H, “Metabolomics-assisted Proteomics Identifies Succinylation and SIRT5 as Important Regulators of Heart Function”, *Proc. Natl. Acad. Sci. USA*, accepted.
3. Bheda P, Jing H, Wolberger C, and Lin H, “The substrate specificity of sirtuins”, *Annual Rev. Biochem.*, accepted.
4. Jing H, et al. “A SIRT2-specific inhibitor promotes c-Myc oncoprotein degradation and inhibits tumor growth”, *Cancer Cell*, **29**: 297–310, 2016.
5. Tong Z, Wang Y, Zhang X, Kim DD, Sadhukhan S, Hao Q, Lin H, “SIRT7 Is Activated by DNA and Deacetylates Histone H3 in the Chromatin Context.” *ACS Chem Biol.* 2016 Mar 3. [Epub ahead of print] PMID: 26907567.
6. Chiang YL, Lin H. “An improved fluorogenic assay for SIRT1, SIRT2, and SIRT3.” *Org Biomol Chem.* 14:2186-90, 2016, PMID: 26796034.
7. Li Z, Kim DD, Nelson OD, Otwell AE, Richardson RE, Callister SJ, Lin H. “Molecular dissection of a putative iron reductase from *Desulfotomaculum reducens* MI-1”, *Biochem Biophys Res Commun.* **467**:503-8, 2015. PMID: 26454174
8. Jing H, and **Lin H**. “Sirtuins in Epigenetic Regulation”, *Chem. Rev.*, **115**, 2350-2375, 2015
9. Liu X, Sadhukhan S, Sun S, Wagner GR, Hirschey MD, Qi L, **Lin H**, Locasale JW, “High resolution metabolomics with acyl-CoA profiling reveals widespread remodeling in response to diet.” *Mol. Cell. Proteomics.* 2015, mcp.M114.044859
10. Teng YB, Jing H, Aramsangtienchai P, He B, Khan S, Hu J, **Lin H**, Hao Q, “Efficient demyristoylase activity of SIRT2 revealed by kinetic and structural studies.” *Sci. Rep.* **5**, 8529, 2015. doi: 10.1038/srep08529.
11. Otwell AE, Sherwood RW, Zhang S, Nelson OD, Li Z, **Lin H**, Callister SJ, Richardson RE, “Identification of proteins capable of metal reduction from the proteome of the Gram-positive bacterium *Desulfotomaculum reducens* MI-1 using an NADH-based activity assay.” *Environ. Microbiol.* 2014, doi: 10.1111/1462-2920.12673.

12. He B, Hu J, Zhang X, and **Lin H**. “Thiomyristoyl peptides as cell-permeable Sirt6 inhibitors”, *Org. Biomol. Chem.*, 12, 7498-7502, 2014
13. Shrimp JH, Hu J, Dong M, Wang BS, Macdonald R, Jiang H, Hao Q, Yen A, Lin H. “Revealing CD38 Cellular Localization Using a Cell Permeable, Mechanism-Based Fluorescent Small-Molecule Probe.” *J Am Chem Soc.* **136**, 5656–5663, 2014
14. Lin Z, Su X, Chen W, Ci B, Zhang S, **Lin H**. “Dph7 catalyzes a previously unknown demethylation step in diphthamide biosynthesis”. *J. Am. Chem. Soc.* **136**, 6179-6182, 2014
15. G. Colak, Z. Xie, A.Y. Zhu, L. Dai, Z. Lu, Y. Zhang, X. Wan, Y. Chen, Y.H. Cha, **H. Lin**, Y. Zhao, and M. Tan, “Identification of Lysine Succinylation Substrates and the Succinylation Regulatory Enzyme CobB in *Escherichia coli*”. *Mol. Cell. Proteomics*, **12**, 3509-3520, 2013
16. Dong M, Su X, Dzikovski B, Dando EE, Zhu X, Du J, Freed JH, **Lin H**. “Dph3 is an electron donor for dph1-dph2 in the first step of eukaryotic diphthamide biosynthesis”, *J. Am. Chem. Soc.* **136**, 1754, 2014.
17. Yu J, Sadhukhan S, Noriega LG, Moullan N, He B, Weiss RS, **Lin H**, Schoonjans K, Auwerx J. “Metabolic Characterization of a Sirt5 deficient mouse model”, *Sci. Rep.* **3**, 2806, 2013.
18. Su X, Lin Z, **Lin H**. “The biosynthesis and biological function of diphthamide”, *Crit Rev Biochem Mol Biol.* **48**, 515-521, 2013
19. Zhu A, Su X, **Lin H**, “Detecting sirtuin-catalyzed deacylation reactions using <sup>32</sup>P-labeled NAD and thin-layer chromatography. *Methods Mol Biol.* **1077**, 179, 2013
20. Hu J, He B, Bhargava S, **Lin H**. “A fluorogenic assay for screening Sirt6 modulators.” *Org Biomol Chem.* **11**, 5213-6, 2013
21. Jiang H, Khan S, Wang Y, Charron G, He B, Sebastian C, Du J, Kim R, Ge E, Mostoslavsky R, Hang HC, Hao Q, **Lin H**. “Sirt6 regulates TNF $\alpha$  secretion via hydrolysis of long chain fatty acyl lysine”, *Nature.* **496**, 110-3, 2013.
22. A. Zhu, X. Su, **H. Lin**, “Detecting Sirtuin-Catalyzed Deacylation Reactions Using (32)P-Labeled NAD and Thin-Layer Chromatography”, *Methods Mol. Biol.* 1077:179-189 (2013).
23. Jiang H, Sherwood R, Zhang S, Zhu X, Liu Q, Graeff R, Kriksunov IA, Lee HC, Hao Q, **Lin H**. “Identification of ADP-ribosylation sites of CD38 mutants by precursor ion scanning mass spectrometry”, *Anal. Biochem.*, **433**, 218-226. 2012.
24. X. Su, Z. Lin, W. Chen, H. Jiang, S. Zhang, and **H. Lin**, “A chemogenomic approach identified yeast YLR143W as diphthamide synthetase”, *Proc. Natl. Acad. Sci. USA*, **109**, 19983-19987, 2012.
25. Y. Zhou, H. Zhang, B. He, J. Du, H. Lin, R. A. Cerione, Q. Hao, “The Bicyclic Intermediate Structure Provides Insights into the Desuccinylation Mechanism of Human Sirtuin 5 (SIRT5)”. *J. Biol. Chem.* **287**, 28307-28314 (2012).
26. **H. Lin**, X. Su, B. He, “Protein lysine acylation and cysteine succination from intermediates of energy metabolism”, *ACS Chem. Biol.*, **7**, 947-960 (2012).
27. H. Jiang, **H. Lin**, “Labeling Substrate Proteins of Poly(ADP-ribose) Polymerases with Clickable NAD Analog”, *Curr. Protoc. Chem. Biol.*, **4**, 19-34 (2012).
28. B. He, J. Du, **H. Lin**, “Thiosuccinyl Peptides as Sirt5-Specific Inhibitors”, *J. Am. Chem. Soc.*, **134**, 1922-1925 (2012).
29. X. Su, W. Chen, W. Lee, H. Jiang, S. Zhang, **H. Lin**, “YBR246W Is Required for the Third Step of Diphthamide Biosynthesis”, *J. Am. Chem. Soc.*, **134**, 773-776 (2012)
30. A. Y. Zhu, Y. Zhou, S. Khan, K. W. Deitsch, Q. Hao, **H. Lin**, “*Plasmodium falciparum* Sir2A preferentially hydrolyzes medium and long chain fatty acyl lysine”, *ACS Chem. Biol.*, **7**, 155-159 (2012).
31. J. Du, Y. Zhou, X. Su, J. Yu, Khan S., H. Jiang, J. Kim, J. Woo, J.H. Kim, B.H. Choi, B. He, W. Chen, S. Zhang, R.A. Cerione, J. Auwerx, Q. Hao, **H. Lin**, “Sirt5 is a NAD-dependent protein lysine demalonylase and desuccinylase”, *Science*, **334**, 806-809 (2011).
32. **H. Lin**, “S-Adenosylmethionine-dependent alkylation reactions: When are radical reactions used?” *Bioorg. Chem.* **39**, 161-170 (2011).

33. **H. Lin**, T. Begley, "Protein posttranslational modifications: chemistry, biology, and applications", *Mol. BioSystems* **7**:14-15 (2011)
34. J. Congleton, H. Jiang, F. Malavasi, **H. Lin**, A. Yen, "ATRA-induced HL-60 myeloid leukemia cell differentiation depends on the CD38 cytosolic tail needed for membrane localization, but CD38 enzymatic activity is unnecessary" *Exp. Cell Res.* **317**, 910-919 (2011).
35. X. Zhu, B. Dzikovski, X. Su, A.T. Torelli, Y. Zhang, S.E. Ealick, J.H. Freed, and **H. Lin**. "Mechanistic understanding of Pyrococcus horikoshii Dph2, a [4Fe-4S] enzyme required for diphthamide biosynthesis", *Mol. BioSystems*, **7**, 74-81 (2011).
36. X. Zhu, J. Kim, X. Su, and H. Lin, "Reconstitution of diphthine synthase activity in vitro", *Biochemistry*, **49**, 9649-9657 (2010).
37. Y. Zhang, X. Zhu, A. Torelli, M. Lee, B. Dzikovski, R. M. Koralewski, E. Wang, J. Freed, C. Krebs, S. E. Ealick, **H. Lin**, "Diphthamide biosynthesis requires an Fe-S enzyme-generated organic radical", *Nature*, **465**, 891-896 (2010).
38. H. Jiang, J. H. Kim, K. Frizzell, W. L. Kraus, **H. Lin**, "Clickable NAD analogs for labeling substrate proteins of PARPs", *J. Am. Chem. Soc.*, **132**, 9363-9372 (2010).
39. Q. Liu, R. Graeff, I. A. Kriksunov, H. Jiang, B. Zhang, B. V. L. Potter, N. Oppenheimer, **H. Lin**, H. C. Lee, Q. Hao, "Structural Basis for Enzymatic Evolution from a Dedicated ADP-ribosyl Cyclase to a Multifunctional NAD Hydrolase", *J. Biol. Chem.*, **284**, 27637-27645, (2009).
40. H. Jiang, J. Congleton, Q. Liu, P. Merchant, F. Malavasi, H.C. Lee, Q. Hao, A. Yen, **H. Lin**, "Mechanism-based fluorescent labeling of human CD38", *J. Am. Chem. Soc.*, **131**, 1658-1659 (2009).
41. J. Du, H. Jiang, **H. Lin**, "Investigating the ADP-ribosyltransferase activity of sirtuins with NAD analogs and <sup>32</sup>P-NAD", *Biochemistry* **48**, 2878-2890 (2009)
42. Q. Liu, I.A. Kriksunov, H. Jiang, R. Graeff, **H. Lin**, H.C. Lee, Q. Hao, "Covalent and non-covalent intermediates of an NAD utilizing enzyme - human CD38", *Chem. Biol.* **15**, 1068-1078 (2008)
43. **H. Lin**, J. Du, H. Jiang, "Posttranslational modifications to regulate protein function", Wiley Encyclopedia of Chemical Biology, 2008.
44. **H. Lin**, "Nicotinamide adenine dinucleotide: beyond a redox coenzyme", *Org. Biomol. Chem.*, **5**, 2541-2554 (2007).
45. P. Peralta-Yahya, B.T. Carter, **H. Lin**, H. Tao, V.W. Cornish, "High-throughput selection for cellulase catalysts using chemical complementation", *J. Am. Chem. Soc.* **130**:17446-17452 (2008).
46. M.A. Fischbach, **H. Lin**, et al., "The pathogen-associated iroA gene cluster mediates bacterial evasion of lipocalin 2", *Proc. Natl. Acad. Sci. USA*, **103**, 16502-16507 (2006).
47. N. A. Larsen, **H. Lin**, R. Wei, M.A. Fischbach, C.T. Walsh, "Structural characterization of enterobactin hydrolase IroE", *Biochemistry*, **45**, 10184-10190 (2006).
48. **H. Lin**, M.A. Fischbach, G.J. Gatto, D.R. Liu, C.T. Walsh, "Bromoenterobactins as potent inhibitors of the pathogen-associated, siderophore-modifying C-glycosyltransferase", *J. Am. Chem. Soc.*, **128**, 9324-9325 (2006).
49. M. A. Fischbach, **H. Lin**, D.R. Liu, C.T. Walsh, "How pathogenic bacteria evade mammalian sabotage in the battle for iron", *Nat. Chem. Biol.*, **2**, 132-138 (2006).
50. M. Luo, **H. Lin**, M.A. Fischbach, D.R. Liu, C.T. Walsh, J.T. Groves, "Enzymatic tailoring of the bacterial siderophore enterobactin alters membrane partitioning and iron acquisition", *ACS Chem. Biol.*, **1**, 29-32 (2006).
51. Tao H, Peralta-Yahya P, **Lin H**, Cornish V.W., "Optimized design and synthesis of chemical dimerizer substrates for detection of glycosynthase activity via chemical complementation", *Bioorg. Med. Chem.* **14**, 6940-6953 (2006).
52. **H. Lin**, M.A. Fischbach, D.R. Liu, C.T. Walsh, "In vitro characterization of salmochelin and enterobactin trilactone hydrolases IroD, IroE, and Fes", *J. Am. Chem. Soc.*, **127**, 11075-11084 (2005).
53. M. A. Fischbach, **H. Lin** (co-first author), D.R. Liu, C.T. Walsh, "In vitro characterization of IroB, a pathogen-associated C-glycosyltransferase", *Proc. Natl. Acad. Sci. USA*, **102**, 571-576 (2005).

54. Carter B.T., **Lin H**, Goldberg S.D., Althoff E.A., Raushel J, Cornish V.W., "Investigation of the mechanism of resistance to third-generation cephalosporins by class C beta-lactamases by using chemical complementation", *Chembiochem*, **6**, 2055-2267 (2005).
55. **H. Lin** (co-first author), D. Thayer, C.-H. Wong, C.T. Walsh, "Macrolactamization of glycosylated peptide thioesters by the thioesterase domain of tyrocidine synthetase", *Chem. Biol.* **11**, 1635-1642 (2004).
56. **H. Lin**, C.T. Walsh, "A Chemoenzymatic Approach to Novel Glycopeptide Antibiotics", *J. Am. Chem. Soc.*, **126**, 13998-14003 (2004).
57. E. Yeh, **H. Lin**, S.L. Clugston, R.M. Kohli, C.T. Walsh, "Enhanced macrocyclizing activity of the thioesterase from tyrocidine synthetase in presence of nonionic detergent", *Chem. Biol.* **11**, 1573-1582 (2004).
58. D. Sengupta, **H. Lin**, S. Goldberg, J. Mahal, V.W. Cornish, "Correlation between catalytic efficiency and the transcription read-out in chemical complementation, a high-throughput assay for enzyme catalysis", *Biochemistry*, **43**, 3570-3581 (2004).
59. **H. Lin**, H. Tao, V.W. Cornish, "Directed Evolution of a Glycosynthase via Chemical Complementation", *J. Am. Chem. Soc.*, **126**, 15051-15059 (2004).
60. C. Forster, Z. Tan, M. N. L. Nalam, **H. Lin**, H. Qu, V. W. Cornish, and S. C. Blacklow, "Programming peptidomimetic syntheses by translating genetic codes designed de novo", *Proc. Natl. Acad. Sci. USA*, **100**, 6353-6357 (2003).
61. K. Baker, C. Bleczynski, **H. Lin**, G. Salazar-Jimenez, D. Sengupta, S. Krane, and V.W. Cornish, "Chemical complementation: A reaction-independent genetic assay for enzyme catalysis", *Proc. Natl. Acad. Sci. USA*, **99**, 16537-16542 (2002).
62. B.T. Carter, **H. Lin**, V.W. Cornish, "Yeast n-Hybrid Systems for Molecular Evolution", Directed Molecular Evolution of Proteins, S Brakmann, K Johnsson, Eds. Wiley-VCH Verlag, Weinheim, ISBN 3-527-30423-1.
63. W.M. Abida, B.T. Carter, E.A. Althoff, **H. Lin**, V.W. Cornish, "Receptor-Dependence of the Transcription Read-Out in a Small-Molecule Three-Hybrid System", *Chembiochem*, **3**, 887-895 (2002).
64. **H. Lin**, V.W. Cornish, "Screening and Selection Methods for Large-Scale Analysis of Protein Function", *Angew. Chem. Int. Ed.* **41**, 4402-4425 (2002).
65. **H. Lin**, V.W. Cornish, "In Vivo Protein-Protein Interaction Assays: Beyond Proteins", *Angew. Chem. Int. Ed.* **40**, 871-875 (2001).
66. **H. Lin**, W.M. Abida, R.T. Sauer, V.W. Cornish, "Dexamethasone-Methotrexate: An Efficient Chemical Inducer of Protein Dimerization In Vivo", *J. Am. Chem. Soc.* **122**, 4247-4248 (2000).

### (c) Patent applications

1. US Provisional patent application 61/544,452: Sirt2-specific inhibitors
2. PCT/US11/43130, WO 2012/006391 A2: Modulators for Sirt5 and Assay for Screening Same
3. PCT/US11/66480, WO 2012/088268 A2: Modulators for Sirt6 and Assay for Screening Same.
4. PCT/US12/54088: Methods for treatment of cancer by targeting Sirt5

### (d) Honors and Awards

- |           |   |
|-----------|---|
| 2015      | Finalist for Blavatnik National Award for Young Scientists in Chemistry |
| 2014      | ACS Biological Chemistry Division Pfizer Award in Enzyme Chemistry      |
| 2011      | Marilyn Emmons Williams Award, Cornell University                       |
| 2011      | CAPA Distinguished Junior Faculty Award                                 |
| 2006      | Camille and Henry Dreyfus New Faculty Award                             |
| 2003      | Jane Coffin Childs Fellow, Harvard Medical School                       |
| 2003      | Hammet Award, Columbia University                                       |
| 2001      | Arun Guthikonda Memorial Fellow, Columbia University                    |
| 1998      | Graduate with Honor, Tsinghua University                                |
| 1994-1997 | First Prize for Outstanding Academic Achievement, Tsinghua University   |

### (e) Research Support

## Current

1R01DK107868 NIH/NIDDK  
PI: Hening Lin (contact) and Yingming Zhao 09/01/2015 -08/31/2020  
Sirt6 and protein lysine fatty acylation in macrophage inflammation

UHL129958A NIH/NHLBI  
PI: John Lis (contact), Charles Danko, Hening Lin, Warren Zipfel 09/01/2015-08/31/2020  
D-Hi-C: synthesis of nanoscale tape measures to probe DNA interaction distances

2R01GM088276-05A1 NIH/NIGMS  
PI: Lin, Hening 07/05/2014 – 03/31/2018  
Diphthamide Biosynthesis

2R01GM086703-06 NIH/NIGMS  
PI: Lin, Hening 12/01/2013 - 7/31/2018  
Chemical approaches for studying the biology of NAD-consuming enzymes

R01 CA152870 NIH/NCI  
PI: Hao, Quan; Lin, Hening; Yen, Andrew (Contact PI) 07/01/11 – 06/30/16  
Mechanism of Action of Retinoic Acid Using CD38

R01 CA163255 NIH/NCI  
PI: Cerione, Richard; Lin, Hening (Contact PI); Weiss, Robert 07/01/2011 - 06/30/2016  
Succinylation and Malonylation as Novel Protein Modifications in Cancer

R01 GM098596A1 NIH/NIGMS  
PI: Lin, Hening 09/01/2012 - 08/31/2016  
Chemical/biochemical tools for studying novel protein acyl lysine modifications

Subcontract from U of Chicago 04/01/2013 – 03/30/2017  
PI: Zhao, Yingming (University of Chicago) NIH/NIGMS  
Biochemistry of lysine crotonylation pathway

## Completed

R01 DA030329 NIH/NIDA  
PI: Craighead, Harold; Lin, Hening; Lis, John (Contact PI); Zipfel, Warren 10/01/2010 – 09/30/2015  
*In vivo* Detection and Imaging of Epigenetic Histone Modifications and Modifying Enzymes Using Multivalent RNA Aptamers.

DE-SC0006644 DOE 08/01/2012-07/31/2014  
PI: Stephen Callister, Hening Lin, Ruth Richardson (contact), Sheng Zhang  
Improved understanding of microbial iron and sulfate reduction through a combination of bottom-up and top-down functional proteomic assays

OSP# 62217 09/30/2011-09/29/2012  
PI: Jun Lin NIH  
Role: consultant/collaborator  
Ferric enterobactin acquisition systems in *Campylobacter*

NF-06-017 The Camille & Henry Dreyfus Foundation  
PI: Lin, Hening 07/01/2006 - 06/30/2011  
Combining chemistry, biochemistry, molecular/cell biology to study protein posttranslational modifications

R01GM088276 NIH/NIGMS

PI: Lin, Hening (contact PI) and Ealick, Steve      08/01/2009 – 7/31/2013  
Diphthamide biosynthesis

R21 NS073049                      NIH/NINDS  
PI: Lin, Hening                      09/01/2010 – 08/31/2012  
High-throughput assays for the development of SIRT5-specific inhibitors.

R01 GM086703                      NIH/NIGMS  
PI: Lin, Hening                      12/01/2008 – 11/30/2013  
Chemical approaches for studying the biology of CD38

**(f) Courses taught:**

- Chem 4500: Principles of Chemical Biology, Fall 2009, 2010, 2011, 2012, 2013, 2014
- Chem 3600: Honors Organic Chemistry, Spring 2008, 2009, 2010, 2011
- Chem 6670: Topics in Chemical Biology, Fall 2006, 2007, and 2008
- Chem 4980: Senior Honors Seminar, Spring 2012, 2013

**(g) Students and postdocs trained**

- **Postdoctoral Research Associates (Total 10, Current 5)**
  - Dr. Hong Jiang (September 2006 - present)
  - Dr. Jintang Du (January 2007 – December 2009)
  - Dr. Bin He (November 2009 – August 2013)
  - Dr. Min Dong (March 2011 – present)
  - Dr. Colleen Kuemmel (September 2011- September 2013)
  - Dr. Jing Hu (October 2011 – September 2013)
  - Dr. Qingjie Zhao (November 2011 – May 1013)
  - Dr. Sushabhan Sadhukhan (August 2012- present)
  - Dr. Zhi Li (January 2013- March 2015)
  - Dr. Ying-Ling Chiang (May 2013- present)
  - Dr. Ji Cao (June 2014 – present)
- **Graduate Students (Total 19, Current 13)**
  - Xuling Zhu (Chemistry, Jan 2007 – Jan 2011)
  - Xiaoyang Su (Chemistry, Dec 2007 – Feb 1013)
  - Anita Zhu (Chemistry, Dec 2008 – Dec 2012)
  - Saba Kahn (Chemistry, Jan 2009 – May 2013)
  - Jon Shrimp (Chemistry, Jan 2010 – August 2014)
  - Pornpun Aramsangtienchai (Biochemistry, Jun 2011- present)
  - Zhen Tong (Biochemistry, July 2011 – present)
  - Zhewang Lin (Chemistry, Jan 2012 – present)
  - Yoon Ha Cha (Chemistry, Jan 2012 – June 2013)
  - Xiaoyu Zhang (Chemistry, Dec 2012 – present)
  - Hui Jing (Chemistry, Jan 2013 – present)
  - Xiao Chen (Chemistry, Dec 2012 – present)
  - Ornella Nelson (Chemistry, Dec 2012 – present)
  - Seth Miller (Chemistry, Dec 2013 – present)
  - Nicole Spiegelman (Chemistry, Dec 2013 – present)
  - Miao Wang (Chemistry, Dec 2014 –present)
  - Lu Zhang (Chemistry, Dec 2014 –present)
  - Yugang Zhang (Chemistry, Dec 2014 –present)
  - Arash Latifkar (Chemistry, Dec 2014 –present)
  - Nick Hong (Chemistry, Dec 2015 – present)

Se In Son (Chemistry, Dec 2015 – present)  
Tatsiana Kosciuk (BMCB, Oct 2015 – present)

• **Short term and rotation students (Total 12)**

Gil Blum (Rotation student, TPCB, Jan 2009 – May 2009)  
Kristina Govorovska (Rotation student, BMCB, May 2008 - Augst 2008)  
Chirag Pungaliya (Chemistry, December 2006 - 2007)  
Ryan King (Rotation student, TPCB, Jan 2007 - May 2007)  
Colin Gottlieb (Rotation Student, Pharmacology, Oct 2009 - Dec 2009)  
Mariko Yamaguchi (Rotation Student, BMCB, Oct 2009 - Dec 2009)  
Elliot Kahen (Rotation Student, BMCB, Oct 2009 - Dec 2009)  
Monzia Moodie (Rotation Student, Microbiology, Mar 2011 – May 2011)  
Samuel Habash (Rotation Student, BMCB, Oct 2011 - Dec 2011)  
Dante Lepore (Rotation Student, BMCB, March 2012 - May 2012)  
Lin Wang (Rotation Student, BMCB, March 2013 - May 2013)  
Kevin Michalski (Rotation Student, BMCB, March 2013 - May 2013)  
Steve Halaby (Rotation Student, BMCB, March 2014 – May 2014)

• **Undergraduate Students (Total 30, Current 6)**

Siyi Wang (Class of 2008, Chemistry, Jan 2007- May 2008, graduate student at Princeton University)  
Paolomi Merchant (Class of 2008, Chemistry, Sep 2006- May 2007, graduate student at Columbia University)  
Michael Gavalas (Class of 2009, Human Biology, Health and Society, Sep 2006-May 2008, Medical School at SUNY Stony Brook)  
Diane Wu (Class of 2009, Chemistry, Jan 2007-Dec 2007)  
Pierce Stern (Class of 2010, Chemistry, June 2007-Aug 2007)  
Nicole Miller (Class of 2010, Chemistry, Jan 2008-May 2008)  
Cooper Citek (Class of 2009, Chemistry, Sep 2006-May 2009, graduate student at Stanford University)  
Kedy Edme (May 2009- July 2009, Cornell Leadership Alliance Program student, University of Maryland)  
Jungwoo Kim (Class of 2010, Chemistry and Biochemistry, Sep 2007- May 2010, graduate student at U Chicago)  
Jun Hyun Kim (Class of 2010, Biology, Jun 2008-Dec 2009, Medical School in Korea)  
Jimin Woo (Class of 2010, Chemistry, Jun 2008-Dec 2009, U Penn Medical School)  
Eileen Wang (Class of 2010, Chemistry, Sep 2008-May 2010, Intern at Merck)  
Sung Won Choi (Class of 2010, Biology, Sep 2008-Dec 2008)  
Kyle Horak (Class of 2010, Chemistry, Jan 2009-May 2010, graduate student at Cal Tech)  
Brian Choi (Class of 2011, Chemistry, Sep 2008-May 2010, graduate student at Cornell)  
Ray Kim (Class of 2011, Chemistry, Jan 2009-May 2010, fulfilling military duty in South Korea)  
Wanky Lee (Class of 2011, Chemistry, June 2009-May 2011, graduate student at MIT)  
Diana Cheung (Class of 2013, Chemistry, Sep 2009-May 2010)  
Gyung Hoon Kang (Class of 2012, Chemistry, June 2010-May 2013)  
JiSung Jin (Class of 2013, Chemistry, June 2010-May 2012)  
Eva Ge (Class of 2013, Chemistry, May 2010-May 2012, graduate student at Princeton)  
Ankur Bajaj (Class of 2013, Chemistry, Mar 2010-Dec 2010)  
Shiva Bhargava (Class of 2013, Biology, Feb 2011-May 2013)  
Emily Dando (Class of 2014, Biology, Sep 2011-May 2014, Medical School Student at U Pittsburg)  
Brian Wang (Class of 2013, Chemistry, Sep 2011-May 2013, graduate student at UC Berkeley)  
Nick (Jun Young) Hong (Class of 2014, June 2013- May 2014)  
Ryan Farias (Class of 2015, September 2013-December 2014)  
Stephanie Wisner (Class of 2016, October 2013-present)  
David Kim (Class of 2016, January 2014-present)  
Akkad Moussa (Class of 2016, January 2014-December 2014)  
Alisa Eunyoung Lee (Class of 2017, Sep 2014-present)

Ilana Kotliar (Class of 2018, Nov 2014- present)  
Sean Jackson (Class of 2015, Nov 2014 –present)  
Dennis Kutateladze (Class of 2016, Jan 2015 –present)  
Ali Sohail Farooqi (Class of 2018, Jan 2015 - present)

**(h) Other Services**

Director of Graduate Studies, Chemistry and Chemical Biology, 2013-2015  
Program Director of NIH-funded Chemistry-Biology Interface Training Grant (2014-present)  
Local Advisory Committee, 2013-present  
Faculty Advisor for the Proteomic and Mass Spec Facility, 2013-present  
Cornell NEXT committee, 2015-present  
Ad hoc reviewer for NIH study sections (MSFA, SBCB), 2012-2015  
Mail Reviewer for NIH New Innovator Award Program, 2014-2016