

Xiang David LI

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Academic Experience:

12/2016 – present Associate Professor, The University of Hong Kong

10/2011–11/2016 Assistant Professor, The University of Hong Kong

Education:

9/2008–8/2011 Postdoctoral Fellow in Chemical Biology, The Rockefeller University, New York, USA, with Professor Tarun M. Kapoor

9/2003–5/2008 Ph.D. in Organic and Bioorganic Chemistry, The University of Hong Kong, with Prof. Dan Yang

9/1999–6/2003 B.Sc. in Chemistry Fudan University

Awards and Honors

2018 The Distinguished Lectureship Award from The Chemical Society of Japan

2016 Outstanding Young Researcher Award 2015/16, The University of Hong Kong

2013 Early Career Award from the Hong Kong Research Grant Council (RGC)

2009 Li Ka Shing Prize at The University of Hong Kong

2008 C. H. Li Memorial Scholar Fund Postdoctoral Fellowship at The Rockefeller University

2007 Roche Creative Chemistry Award at Roche R&D center in Shanghai

2007 Best Poster Presentation Award in the MGH-HKU-Nature China Forum

2005 Best Oral Presentation Award in the Twelfth Symposium on Chemistry Postgraduate Research in Hong Kong

Professional Activities

2014-present Chairman of the Hong Kong International Chemical Sciences—A Chapter of the American Chemical Society (ACS Hong Kong Chapter)

Grant and Peer Review

2011-present Manuscript reviewer for: *Nature Chemical Biology*; *Mol. Cell*; *Cell Chem. Biol.*; *Nature Communication*; *ACS Central Science*; *Cell Reports*; *J. Am. Chem. Soc.*; *Org. Lett.*; *Chem. Soc. Rev.*

2015-present Ad-hoc grant reviewer for: Wellcome Trust

Selected Publications

Y. Jing, Z. Liu, G. Tian, X. Bao, T. Ishibashi, **X. D. Li**, Site-specific installation of succinyl-lysine analog into histones reveals the effect of H2BK34 succinylation on nucleosome dynamics. *Cell Chem. Biol.* 2018, 25, 166-174.

X. M. Li, **X. D. Li**, Interrogating interactions and modifications of histones in live cells. *Cell Chem. Biol.* 2018, 25, 1-3.

X. Xie, X. M. Li, F. Qin, J. Lin, G. Zhang, J. Zhao, X. Bao, R. Zhu, H. Song, **X. D. Li**, P. R. Chen, “Genetically encoded photoaffinity histone marks” *J. Am. Chem. Soc.* 2017, 139, 6522-6525

- Y. Cui, X. Li, J. Lin, Q. Hao, **X. D. Li**, "Histone ketoamide adduction by 4-oxo-2-nonenal is a reversible posttranslational modification regulated by Sirt2" *ACS Chem. Biol.* 2017, *12*, 47-51.
- T. Yang, X.-M. Li, X. Bao, Y. M. E. Fung, **X. D. Li**, "Photo-lysine captures proteins that bind lysine posttranslational modifications." *Nature Chemical Biology* 2016, *12*, 70-72.
- Z. Liu, T. Yang, X. Li, T., Peng, H. C. Hang, **X. D. Li**, "Integrative chemical biology approaches to examine 'erasers' for protein lysine fatty-acylation." *Angew. Chem. Int. Ed.* 2015, *54*, 1149.
- X. Li, **X. D. Li**, "Chemical proteomics approaches to examine novel histone posttranslational modifications." *Curr. Opin. Chem. Biol.* 2015, *24C*, 80.
- T. Yang, Z. Liu, **X. D. Li**, "Developing diazirine-based chemical probes to identify histone modification 'readers' and 'erasers'." *Chem. Sci.* 2015, *6*, 1011.
- X. Bao, Y. Wang, X. Li, X.-M. Li, Z. Liu, T. Yang, C. F. Wong, J. Zhang, Q. Hao, **X. D. Li**, "Identification of 'erasers' for lysine-crotonylated histone marks using a chemical proteomics approach." *eLIFE*, 2014, *3*, doi: 10.7554/eLife.02999.
- X. Bao, Q. Zhao, T. Yang, Y. M. E. Fung, **X. D. Li**, "A chemical probe for protein lysine malonylation." *Angew. Chem. Int. Ed.* 2013, *52*, 4883.
- X. Li**, E. A. Foley, S. A. Kawashima, K. R. Molloy, Y. Li, B. T. Chait, T. M. Kapoor, "Examining post-translational modification-mediated protein-protein interactions using a chemical proteomics approach." *Protein Sci.* 2013, *22*, 287.
- X. Li**, E. A. Foley, K. R. Molloy, Y. Li, B. T. Chait, T. M. Kapoor, "Quantitative chemical proteomics approach to identify post-translational modification-mediated protein-protein interactions." *J. Am. Chem. Soc.* 2012, *134*, 1982.
- B. Shen[^], **X. Li**[^] ([^]co-first author), F. Wang, X. Yao, D. Yang. "A synthetic chloride channel restores chloride conductance in human cystic fibrosis epithelial cells." *PLoS One* 2012, *7*, e34694.
- S. A. Wacker, S. Kashyap, **X. Li**, T. M. Kapoor, "Examining the mechanism of action of a kinesin inhibitor using stable isotope labeled inhibitors for cross-linking (SILIC)." *J. Am. Chem. Soc.* 2011, *133*, 12386.
- X. Li**, T. M. Kapoor, "Approach to profile proteins that recognize post-translationally modified histone "tails"." *J. Am. Chem. Soc.* 2010, *132*, 2504.
- X. Li**, B. Shen, X.-Q. Yao, D. Yang, "A synthetic chloride channel regulates cell membrane potentials and natural voltage-gated calcium channels." *J. Am. Chem. Soc.* 2009, *131*, 13676.
- X. Li**, Y.-D. Wu, D. Yang, " α -aminoxy acids: new possibilities from foldamers to anion receptors and channels." *Acc. Chem. Res.* 2008, *41*, 1428.
- X. Li**, B. Shen, X.-Q. Yao, D. Yang, "A small synthetic molecule forms chloride channels to mediate chloride transport across cell membranes." *J. Am. Chem. Soc.* 2007, *129*, 7264.
- X. Li**, D. Yang, "Peptides of aminoxy acids as foldamers." *Chem. Commun.* 2006, 3367.
- D. Yang, **X. Li**, Y.-F. Fan, D.-W. Zhang, "Enantioselective recognition of carboxylates: a receptor derived from α -aminoxy acids functions as a chiral shift reagent for carboxylic acids." *J. Am. Chem. Soc.* 2005, *127*, 7996.

D. Yang, X. Li, Y. Sha, Y.-D. Wu. "A cyclic hexapeptide comprising alternating α -aminoxy acids and α -amino acids is a selective chloride ion receptor." *Chemistry-A European Journal*. 2005, 11, 3005.

Invited Seminars

International conferences and oversea institutes

- 2018 Asian International Symposium for Outstanding Young Scientists, The 98th Annual Meeting of The Chemical Society of Japan, Tokyo, Japan, March 22, 2018.
- 2016 14th International Symposium for Chinese Organic Chemists (ISCOC) and the 11th International Symposium for Chinese Inorganic Chemists (ISCIC) 2016, Singapore, December 9, 2016
- 2016 International Symposium on "Emerging Science for Unlocking Cell's Secrets", Kyoto, Japan, June 4, 2016.
- 2015 The 2015 International Chemical Congress of Pacific Basin Societies (PAC CHEMTM), Honolulu, HI, USA, December 17, 2015
- 2015 University of California, Berkeley, College of Chemistry, Berkeley, CA, USA, September 25, 2015
- 2015 Stanford University, Department of Chemistry, Organic Chemistry Seminar, Palo Alto, CA, USA, September 23, 2015
- 2015 The Scripps Research Institute, La Jolla, CA, USA, September 21, 2015
- 2015 University of Pennsylvania School of Medicine, Department of Biochemistry and Biophysics, Biochemistry and Molecular Biophysics Graduate Group Seminar, Philadelphia, PA, USA, September 17, 2015
- 2015 Memorial Sloan-Kettering Cancer Center, Dept. of Molecular Pharmacology and Chemistry, New York, NY, USA, September 15, 2015
- 2015 Yonsei University, Department of Chemistry, Seoul, Korea, May 21, 2015
- 2015 Seoul National University, Department of Chemistry, Seoul, Korea, May 20, 2015
- 2014 The 3rd Asian Chemical Biology Conference, Singapore, December 15, 2014
- 2014 PTMs in Cell Signaling 2014, Copenhagen Bioscience Conferences, The Novo Nordisk Foundation, Copenhagen, Denmark, September 15, 2014
- 2014 The 5th SINO-German Frontiers of Chemistry Symposium, Berlin, Germany, September 11, 2014
- 2013 ISACS11: Challenges in Chemical Biology, MIT, Boston, USA, July 24, 2013

Regional conferences and institutes

- 2016 The University of Hong Kong, School of Public Health, Theme based Research seminar, Hong Kong, February 24, 2016.
- 2015 Fudan University, Department of Chemistry, Shanghai, China, November 26, 2015
- 2015 Institute of Chemistry the Chinese Academy of Sciences (ICCAS)-HKU Symposium, Beijing, China, October 14, 2015.
- 2015 Xiamen University, College of Chemistry and Chemical Engineering, Xiamen, China, January 7, 2015
- 2014 Hong Kong University of Science and Technology, Division of Life Science, October 23, 2014
- 2014 The University of Hong Kong and University of Liverpool Symposia, Hong Kong, April 9, 2014
- 2014 National Institute of Biological Sciences (NIBS), Beijing, China, March 11, 2014
- 2014 Peking University, College of Chemistry and Molecular Engineering, Beijing, China, March 10, 2014
- 2013 The Croucher Advanced Study Institute on Chemical Biology, Hong Kong, December 15, 2013

- 2013 Hong Kong University of Science and Technology, Division of Life Science, January 15, 2013
- 2012 2012 Annual Meeting of Chinese Chemical Society & Cross Strait Chemical Biology Conference in Taiwan, Taiwan, December 1, 2012
- 2012 Fudan University, Department of Chemistry, Shanghai, China, October 11, 2012
- 2012 Shanghai Institute of Organic Chemistry (SIOC), Chinese Academy of Sciences, Shanghai, China, October 10, 2012
- 2012 The 8th Sino-US Chemistry Professors Conference, Kunming, China, July 2, 2012