

CURRICULUM VITAE

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EDUCATION

- 2004 – 2009 Ph.D. in Biochemistry, University of Saskatchewan, Canada (Advised by Prof. Graham N. George)
Thesis title: Structure-function relationships of molecules in cellular copper control
- 2001 - 2002 Computer Science (for credits), University of Victoria, Canada
- 1998 - 2000 M.Sc. in Biochemistry, University of Victoria, Canada (Advised by Prof. Edward E. Ishiguro)
Thesis title: The cloning, purification and preliminary functional studies on LytB in *E. coli*
- 1993 - 1997 B.Sc. in Biochemistry, Jilin University, P.R. China

PROFESSIONAL EXPERIENCES

- 2015 – Present Assistant Professor, Department of Biochemistry and Redox Biology Center, University of Nebraska-Lincoln.
Affiliation: Redox Biology Center (RBC); Nebraska Center of Integrated Biomolecular Communication (CIBC); Department of Chemistry (courtesy appointment)
Research Topic: structural and mechanistic investigations of enzymes in redox reaction and stress response; synchrotron light-based technique development
- 2009 – 2014 Postdoctoral Fellow in Prof. Douglas C. Rees' group, California Institute of Technology
Research Topic: structure–mechanism relationships of nitrogenase;
Development and application of the site-specific X-ray absorption spectroscopy technique to complex metalloproteins
- March–June 2009 Junior Consultant at the Canadian Light Source (contractor)
- 2004 – 2008 Assistant for beamline commissioning at HXMA Beamline, Canadian Light Source (volunteer work)
- 2002 – 2003 Bioinformatics Database Administrator and Software Developer at Interomex Biopharmaceuticals Inc., Vancouver, Canada
- 2002 Bioinformatics Database Administrator and Software Developer at Perceptronix Medical Inc., Vancouver, Canada (internship)
- 2000 - 2001 Research Assistant, Department of Biochemistry and Microbiology, University of Victoria, Victoria, Canada (part-time)
- 1997 - 1998 Research Assistant, the Molecular Enzymology and Engineering Lab, Key Laboratory of China's Ministry of Education, Jilin University

RESEARCH INTERESTS

- Structure-function relationships of metalloproteins and metallocomplexes in electron transfer, oxidative stress sensing and redox reactions
- Mechanisms of cellular transition metal homeostasis and detoxification

- Applications of microbes in bioenergy generation and bioremediation
- Development of synchrotron radiation-based techniques in inorganic and bioinorganic chemistry

TEACHING INTERESTS

- Teaching topics of undergraduate and graduate courses
 - Structural biology and biochemistry
 - Biological inorganic chemistry
 - Special topics:
 - Redox biology and biochemistry in bacterial pathogens
 - Application of Synchrotron radiation-based techniques in Redox Biology
- Topics for Outreach/High School Educations
 - Protein crystallization and crystallography
 - Redox biochemistry of metalloproteins
 - Identification of soil bacteria in the nitrogen cycle and bio-remediation
 - Antibiotic resistance

AWARDS AND HONORS

- 2020–2025 National Institute of Health Maximizing Investigators' Research Award (NIH MIRA)
- 2019–2024 National Science Foundation Faculty Early Career Development Award (NSF CAREER)
- 2017–2019 New Project Leader of the Nebraska Center of Integrated Biomolecular Communication (CIBC)
- 2017 Royal Society of Chemistry Metallobiology Series Book prize award at the 18th International Conference of Biological Inorganic Chemistry
- 2015–2016 Research Development Fellow, the University of Nebraska-Lincoln
- 2013–2014 Center of Environmental Microbial Interactions (CEMI) Post-Doctoral Fellowship on the proposal "Site-specific X-ray absorption spectroscopic studies on nitrogen fixation"
- 2009–2011 Natural Sciences and Engineering Research Council of Canada (NSERC) Postdoctoral Fellowship
- 1998–2000 Graduate Fellowship at the University of Victoria

MEMBERSHIP OF PROFESSIONAL SOCIETIES

- American Association for the Advancement of Science (AAAS)
- American Chemical Society (ACS)
- Society of Biological Inorganic Chemistry (SBIC)
- American Society for Biochemistry and Molecular Biology (ASBMB)

RESEARCH SUPPORT

Current Support

1. National Institutes of Health MIRA Award (R35) (Grant No. R35 GM138157-01), "Structures and Mechanisms of Iron-Sulfur Proteins in Redox Control and Stress Response", PI, \$1,841,118 09/01/2020 – 07/31/2025
2. National Science Foundation CAREER Award (Grant No 1846908), "CAREER: Structure and Mechanism of an Iron-Sulfur Cluster-Based Nitric Oxide Sensor", PI, \$600,000 07/01/2019 – 06/30/2024

Completed

1. System Science Collaboration Initiative - Planning and Proposal Preparation Grant of System Science, "Development of Antimycobacterial Drugs Targeting Iron Metabolism", PI, \$20,000 07/01/2018 – 06/30/2019
2. Nebraska Research Initiative - Equipment Purchase Grant, "*Application of MicroScale Thermophoresis in Characterization of Biomolecular Interactions*", PI, \$150,000 05/01/2018 – 06/30/2018
3. Revision Award, "Molecular mechanism for phenazine ring modifications during biosynthesis of the redox active antibiotics", as Co-PI with L. Du (PI), \$25,000 09/01/2017 – 08/31/2018
4. The New Project Leader award of the NIH-funded Nebraska Center for Integrated Biomolecular Communication ((P20GM113126), "A Unique Nitric Oxide Sensor and Regulator in Mycobacterium tuberculosis", PI, \$495,076 06/07/2017 – 07/30/2019
5. RBC Pilot Grant, "Insights into a Unique Regulatory Network Controlling Multi-Antibiotic Resistance in Mycobacteria", PI, \$25,000 07/01/2016 – 06/30/2017
6. UNL Layman Award, "Mechanism of Multidrug Resistance Regulated by WhiB7 in *M. tuberculosis*", PI, \$10,000 06/01/2016 – 05/30/2017

SCIENTIFIC CONTRIBUTIONS

Publications

Pubmed: <https://www.ncbi.nlm.nih.gov/myncbi/limei.zhang.1/bibliography/public/>

Google Scholar: <https://scholar.google.com/citations?user=AGvsWKwAAAAJ&hl=en>

***these authors contribute equally, *corresponding authors, %undergraduate researchers in the Zhang group**

Peer-Reviewed Publications

1. He, X., Chen, Y., Beltran, D., G.%, Kelly, M., Ma, B., Lawrie, J., Wang, F., Dodds, E., **Zhang, L.**, Guo, J., Niu, N. "Functional genetic encoding of sulfotyrosine in mammalian cells", (2020) *Nat. Commun.*, 11:4820
2. Wan, T. +, Li, S. +, Beltran, D. G.%, Schacht, A.%, Zhang, L., Becker, D. F., **Zhang, L-M.** "Structural basis of non-canonical transcriptional regulation by the σ^A -bound iron-sulfur protein WhiB1 in *M. tuberculosis*", (2020) *Nucleic Acids Res.* 48:501-516 (in "**breakthrough**" designation).
3. Gallenito, M. J., Irvine, G., **Zhang, L.**, Meloni, G. "Coordination plasticity guarantees metal substrate promiscuity in transmembrane primary-active Zn^{2+} pumps" (2019) *Chem. Comm.* 55:10844-10847
4. Jiang, J+. Beltran, D. G. +%, Schacht, A.%, **Zhang, L***, and Du, L*. "Functional and structural analysis of phenazine O-methyltransferase LaPhzM from *Lysobacter antibioticus* OH13 and one-pot enzymatic synthesis of the antibiotic myxin." (2018) *ACS Chem. Biol.* 13: 1003-1012
5. Li, S., Wu, X., **Zhang, L.**, Shen, Y. and Du, L. "Activation of a cryptic gene cluster in *Lysobacter enzymogenes* reveals a module/domain portable mechanism of nonribosomal peptide synthetases in the biosynthesis of pyrrolopyrazines." (2017) *Org. Lett.* 19: 5010-5013.
6. Spatzal, T., Schlesier, J., Burger, E. M., Sippel, D., **Zhang, L.**, Andrade, S. L. A., Rees, D. C., Einsle, O. "Nitrogenase FeMoco investigated by spatially resolved anomalous dispersion refinement." (2016) *Nat. Commun.* 7: 10902-10532.
7. Anderson, J., Cutsail III, G.E., Rittle, J., Connor, B. A., Gunderson, W. A., **Zhang, L.***, Hoffman, B. M.* and Peters, J. C.* "Characterization of an $Fe\equiv N-NH_2$ intermediate relevant to catalytic N_2 reduction to NH_3 ." (2015) *J Am. Chem. Soc.* 137: 7803-7809.
8. Mattle, D., **Zhang, L.**, Gourdon, P., Nissen, P., Rees, D. C. and Meloni, G. "A sulfur-based transport pathway for Cu^+ -ATPases." (2015) *EMBO J.* 16: 728-740.
9. Morrison, C., Hoy, J., **Zhang, L.**, Einsle, O. and Rees, D. C. "Substrate pathways in the nitrogenase MoFe protein by experimental identification of small molecule binding sites." (2015) *Biochemistry* 54: 2052-2060.

10. **Zhang, L.**, Morrison, C., Kaiser, J. T. and Rees, D. C. "Nitrogenase MoFe-protein from *Clostridium pasteurianum* at 1.08 Å Resolution: Comparison to the *Azotobacter vinelandii* MoFe-protein." (2015) *Acta Cryst D* 71: 274-282.
11. Meloni, G.**, **Zhang, L.**** and Rees, D. C.* "Transmembrane Type-2-like Cu²⁺ site in the P_{1B-3}-type ATPase CopB: implications for metal selectivity." (2014) *ACS Chem. Biol.* 9(1): 116-121.
12. **Zhang, L.**, Kaiser, J. T., Meloni, G., Yang, K. Y., Spatzal, T., Andrade, S. L. A., Einsle, O., Howard, J. B. and Rees, D. C. "The sixteenth iron in the nitrogenase MoFe-protein." (2013) *Angew. Chem. Int. Ed. Engl.* 52: 10529-10532.
13. Moret, M. E., **Zhang, L.** and Peters, J. C. "A polar copper-boron one-electron bond." (2013) *J. Am. Chem. Soc.* 135: 3792-3795.
14. Pushie, J.M., **Zhang, L.**, Pickering, I. J. and George, G. N. "The fictile coordination chemistry of cuprous-thiolate sites in copper chaperones." (2012) *BBA - Bioenergetics.* 1817: 938-947.
15. Spatzal, T., Aksoyoglu, M., **Zhang, L.** Andrade, S. L.A., Schleicher, E., Weber, S., Rees, D. C. and Einsle, O. "Direct evidence for interstitial carbon in nitrogenase FeMo cofactor." (2011) *Science.* 334:940-940.
16. Ma, Z., Cowart, D. M., Ward, B. P., Arnold, R. J., DiMarchi, R. D., **Zhang, L.**, George, G. N., Scott, R. A. and Giedroc, D. P. "Unnatural amino acid substitution as a probe of the allosteric coupling pathway in a mycobacterial Cu(I) sensor." (2009) *J. Am. Chem. Soc.* 131:18044-18045.
17. **Zhang, L.**, Lichtmanneger, J., Summer, K. H., Webb, S., Pickering, I. J. and George, G. N. "Tracing copper-thiomolybdate complexes in a prospective treatment for Wilson's disease." (2009) *Biochemistry* 48:891-897.
18. Bewer, B., Zhang, H., Zhu, Y., **Zhang, L.**, George, G.N., Pickering, I. J. and Chapman, D. "Development of a combined K-edge subtraction and fluorescence subtraction imaging system for small animals." (2008) *Rev. Sci. Instrum.* 79:085102-1-085102-3.
19. **Zhang, L.**, Pickering, I. J., Winge, D. R. and George, G. N. "X-ray absorption spectroscopy of cuprous-thiolate clusters in *Saccharomyces cerevisiae* metallothionein." (2008) *Chem. Biodivers.* 5:2042- 2049.
20. Zhang, H., Zhu, Y., Bewer, B., **Zhang, L.**, Korbas, M., Pickering, I. J., George, G. N., Gupta, M. and Chapman, D. "Comparison of iodine K-edge subtraction and fluorescence subtraction imaging in an animal system." (2008) *Nucl. Instrum. Methods Phys. Res. A.* 594: 283-291.
21. Chen, X., Hua, H., Balamurugan, K., Kong, X., **Zhang, L.**, George, G. N., Georgiev, O., Schaffner, W. and Giedroc, D. P. "Copper sensing function of *Drosophila* metal-responsive transcription factor-1 is mediated by a tetranuclear Cu(I) cluster." (2008) *Nucleic Acids Res.* 36 (9):3128-3138.
22. **Zhang, L.**, Nelson, K. J., Rajagopalan, K.V. and George, G. N. "Structure of molybdenum center in trimethylamine N-oxide reductase from *E. Coli*." (2008) *Inorg. Chem.* 47 (3): 1074-1078.
23. Rigby, K., **Zhang, L.**, Cobine, P. A., Tzagoloff, A., George, G. N. and Winge, D. R. "Characterization of the cytochrome c oxidase assembly factor Cox19 of *Saccharomyces cerevisiae*." (2007) *J. Biol. Chem.* 282 (14): 10233-10244.
24. Coyne, H. J., Ciofi-Baffoni, S., Banci, L., **Zhang, L.**, George, G. N. and Winge, D. R. "The characterization and role of zinc binding in yeast Cox4." (2007) *J. Biol. Chem.* 282 (12): 8926- 8934.
25. Liu, T., Ramesh, A., Ward, S. K., **Zhang, L.**, Ma, Z., George, G. N., Talaat, A. M., Sacchettini, J. C. and Giedroc, D. P. "CsoR is a novel *Mycobacterium tuberculosis* copper-sensing transcriptional regulator." (2007) *Nature Chem. Biol.* 3 (1): 60-68
26. Jiang, D.T., Chen, N., **Zhang, L.**, Malgorzata, K., Wright, G., Igarashi, R., Beauregard, D., Kirkham, M. and McKibben, M. "XAFS at Canadian Light Source." (2007) *AIP Proc. (XAFS13)* 882:893-895.
27. Doonan, C. J., **Zhang, L.**, Young, C. G., George, S. J., Deb, A., Bergmann, U., George G. N. and Cramer, S. P. "High-resolution X-ray emission spectroscopy of molybdenum compounds." (2005) *Inorg. Chem* 44 (8): 2579-2581.

Book Chapters and Conference Abstracts

1. **Zhang, L-M.**, "X-ray absorption spectroscopy of metalloproteins", (2019), in Hu, Y. (ed.), "Metalloproteins: Methods and protocols, methods in molecular biology" (pp. 179-195), *Springer Science and Business Media, Humana Press*, New Jersey. (invited book chapter)
2. **Zhang, L.**, Li, S., Beltran, D. and Schacht, A. (2017) "A unique family of iron-sulfur regulators in redox stress response in mycobacteria", *J Biol. Inorg. Chem.*, 22, S149
3. **Zhang, L.** and Rees, D. C. (2017) "Site-specific X-ray absorption spectroscopy study on nitrogenase MoFe-protein", *J Biol. Inorg. Chem.*, 22, S133

Presentations

Invited/selected Presentations at Conferences and Invited Departmental Seminars

1. "A New Molecular Mechanism of Bacterial Transcription Regulation by a Novel Iron-Sulfur Cluster-Bound Transcription Factor WhiB1", Gordon Conference – Metal in Biology, Ventura, CA, January 19-24, 2020
2. "Investigation of the Metal Sites of Metalloproteins by Synchrotron Light-Based Techniques", Department of Chemistry, Florida International University, Miami, FL. January 17, 2020
3. "Shining Lights on the Metal Sites of Metalloproteins", Department of Chemistry, Colorado School of Mines, Golden, CO. October 18, 2019.
4. "Structural and Mechanistic Investigation on Iron-Sulfur Cluster-Bound Transcription Factors in *Mycobacterium tuberculosis*" The 19th International Conference on Biological Inorganic Chemistry (The 19th ICBIC), Interlaken, Switzerland. Aug. 11-Aug. 16, 2019.
5. "A Unique Family of Fe-S Cluster-Based Redox Sensors in Mycobacteria", The 2019 System Science Retreat – Drug Discovery Targeting Iron Metabolism, University of Nebraska Medical School, Omaha, NE. March 18, 2019.
6. "Application of X-ray Absorption-Based techniques to Metalloproteins in Redox Biology", Department of Biology, Southern University of Science and Technology, Shenzhen, China. January 7, 2019.
7. "Structural and Functional Studies on Metalloproteins in Redox Biology", College of Life Science, Fujian Normal University, Fuzhou, China. January 4, 2019.
8. "Application of X-ray Absorption-Based techniques to Metalloproteins", Department of Chemistry, University of Nebraska-Lincoln, Lincoln, NE, USA. March 28, 2018.
9. "The Ongoing Story of a Unique Family of Redox-Sensitive Regulators – Twists and Surprises", Redox Biology Center Symposium 2018, Lincoln NE, March 5, 2018.
10. "Shining Light on Metal in Biology and Medicine by XAS", University of Nebraska-Kearney, Kearney, NE, USA. Oct. 27, 2017.
11. "Insights into the Structural Basis of Biological Nitrogen Fixation", Huazhong-UNL Symposium, Lincoln NE, Sept. 8, 2017.
12. "Unique Family of Iron-Sulfur Regulators in Redox Stress Response in Mycobacteria" The 18th International Conference on Biological Inorganic Chemistry (The 18th ICBIC), Florianópolis, Brazil. July 31-Aug. 4th, 2017.
13. "Shining Lights on Metals in Diseases and Redox Reactions", the Center of Virology, University of Nebraska –Lincoln, Lincoln, NE, USA. Jan. 6, 2017.
14. "Shining Light on the Metal Sites - Application of X-ray Absorption-Based techniques to Metalloproteins", University of Texas at Dallas, Dallas, Texas, USA. Nov. 18, 2016.
15. "WhiB Proteins in the Stress Response and Antibiotic Resistance of *Mycobacterial tuberculosis*", The 2016 Gordon Conference on Thiol-Based Redox Regulation and Signaling, Stowe VT, Aug. 11, 2016.
16. "WhiB Proteins in the Stress Response and Pathogenesis of *Mycobacterial tuberculosis*", Redox Biology Center, Lincoln NE, March 28, 2016.
17. "Site-specific X-ray Absorption Spectroscopy Studies on Metalloproteins", California State University, Long Beach, CA, USA. March 16, 2016.

18. "Structure-Mechanism Relationships of Nitrogenase MoFe-protein", Canadian Light Source, Saskatoon, SK, Canada. March 6, 2016.
19. "A structural perspective of biological nitrogen fixation." Missouri Valley and Missouri Branches of the American Society for Microbiology, Lincoln, NE, USA. March 26-27, 2015.
20. "Shining light on the metal binding sites of nitrogenase MoFe-protein." 16th International Conference on Biological Inorganic Chemistry (The 16th ICBIC), Grenoble, France. July 22-26, 2013.
21. "Insights into structure-function relationships of nitrogenase MoFe-protein by X-ray crystallography." 4th Georgian Bay International Conference on Bioinorganic Chemistry (CANBIC-4), Parry Sound, ON, Canada. May 21-25, 2013.
22. "Structure-function relationships of CsoR – a novel Cu-sensitive repressor from *M. tuberculosis*." California Institute of Technology, Pasadena, CA, USA. 2009.
23. "A Potential treatment for Wilson's disease using tetrathiomolybdate – insights from X-ray absorption spectroscopy." Canadian Light Source, Saskatoon, SK, Canada. 2008.
24. "Shining light on the metal center of a novel copper-sensing repressor from *M. tuberculosis* – CsoR." 13th International Conference on Biological Inorganic Chemistry (The 13th ICBIC), Vienna, Austria. July 15-20, 2007.

Selected Posters

1. Wan, T. +, Li, S. +, Beltran, D. G., Schacht, A., **Zhang, L.** "A Unique Iron-Sulfur Cluster-Based Transcriptional Regulator in the Redox Stress Response of *Mycobacterium tuberculosis*", Gordon Conference – Metal in Biology, Ventura, CA, Jan. 27 – Feb. 1, 2019
2. **L. Zhang**, D. C. Rees. "Site-specific X-ray Absorption Spectroscopy Study on Nitrogenase MoFe-protein." The 18th International Conference on Biological Inorganic Chemistry (The 18th ICBIC), Florianópolis, Brazil. July 31-Aug. 4th, 2017 (**Royal Society of Chemistry Metallobiology Series Book Prize**)
3. **L. Zhang**, K. H. Summer, and G. N. George. "A Potential Treatment for Wilson's Disease Using Tetrathiomolybdate: Insights from X-ray Absorption Spectroscopy." CLSI 11th Annual Users' Meeting and Workshops. Saskatoon, SK, Canada. June 2008
4. **L. Zhang**, J. M. Pushie, D. P. Giedroc, and G. N. George. "Structure-function studies on the copper-sensing repressor - CsoR from *M. tuberculosis*." CLSI 11th Annual Users' Meeting and Workshops. Saskatoon, SK, Canada. 2008 (**First Prize at the poster competition**)
5. **L. Zhang**, J. M. Pushie, and G. N. George. "Copper(I)-Bound and Metal-free Forms of the CsoR Dimer Probed by Molecular Dynamics: Structural Response to Copper(I)-Binding." 91st Canadian Chemistry Society Conference, Edmonton, AB, Canada. 2008
6. **L. Zhang**, K. Rogby, G. N. George and D. R. Winge. "Structure of the Metal Copper Centers in the Cu Chaperones of CcO Assembly." 12th International Conference on Biological Inorganic Chemistry (The 12th ICBIC). Ann Arbor, Michigan, USA. July 31-August 5, 2005

TEACHING, MENTORING AND OUTREACH

New Course Development

- Develop a new undergraduate Biochemistry laboratory course BIOC433H to offer students with a course-based research experience (CURE) with Dr. Jing Zhang at the University of Nebraska-Lincoln, Lincoln, NE, USA, 2018

Teaching in the Classroom

Graduate Courses

- Teach BIOC/BIOS/CHEM 932 "Proteins: Structure and Functions" at the University of Nebraska-Lincoln, Lincoln, NE, USA, Fall, 2015- current.
- Instructed BIOC 992K "Graduate Seminar" at the University of Nebraska-Lincoln, Spring, 2017.
- Taught the Bi 23 course "Biology Tutorial - Special Topics on Synchrotron Light Techniques for Metals in Biology", at the California Institute of Technology, Spring, 2013.

Undergraduate Course

- Co-instruct BIOC433H “Biochemistry Laboratory – Mechanistic investigation of the enzymes in phenazine modification in *Lysobacter*” at the University of Nebraska-Lincoln, Fall, 2018 - present.

Guest Lectures

- Guest lecture in the BIOS 421/821 “Microbial Diversity”, titled “Iron-sulfur proteins in microbial redox biology” at the University of Nebraska-Lincoln, Lincoln, NE. April 2, 2020.
- Guest lecture in BIOC 998 “Redox Regulation, Oxidative Stress and Selenoproteins” (summer redox graduate course), titled “Iron-sulfur proteins in redox stress response” at the Redox Biology Center, Lincoln, NE. June 10, 2019.
- Guest lecture in the REU summer research course, titled “Iron-sulfur proteins in redox reactions and stress response” at the Redox Biology Center, University of Nebraska-Lincoln, July 6, 2017.
- Guest lecture in BIOC 998 “Redox Regulation, Oxidative Stress and Selenoproteins” (summer redox graduate course), titled “Iron-sulfur proteins in redox stress response” at Karolinska Institutet, Stockholm, Sweden, May 16, 2017.
- Guest lecture in the NANO*1000 course “Introduction to Nanoscience”, titled “Structure-function of proteins: the finest nano molecules made by nature” at the University of Guelph, Guelph, ON, October 28, 2016.
- Guest lecture in BIOC 998 “Redox Regulation, Oxidative Stress and Selenoproteins” (summer redox graduate course), titled “Iron-sulfur proteins and redox regulation” at the Redox Biology Center, Lincoln NE, June 11, 2016.
- Guest lecture in Bi 165 “Microbiology Research: Practice and Proposal”, titled “Biological nitrogen fixation”, at the California Institute of Technology, USA, October, 2014.
- Guest lecture in Ch 153b “Advanced Inorganic Chemistry (Applications of physical methods toward the characterization of inorganic and bioinorganic species)”, titled “Extended X-ray Absorption Fine Structure and X-ray Emission Spectroscopy”, at the California Institute of Technology, USA, May 2013.
- Guest lecture in Ch 153b “Advanced Inorganic Chemistry (Applications of physical methods toward the characterization of inorganic and bioinorganic species)”, titled “Introduction to Extended X-ray Absorption Fine Structure”, at the California Institute of Technology, USA, May 2011.

Workshop and Retreat

- Organized the System Science Retreat titled “Drug Discovery Targeting Iron Metabolism” at the University of Nebraska Medical Center, Omaha, NE, USA, March 18, 2019.
- Organized the workshop titled “How X-ray Absorption Spectroscopy Can Help Your Research” at the California Institute of Technology, Pasadena, CA, USA, July 21, 2014.