

CURRICULUM VITAE
Changjian “Jim” Feng, Ph.D.

CURRENT POSITION

Professor of Pharmaceutical Sciences
College of Pharmacy, University of New Mexico
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EDUCATION

- 1998 Ph.D. in Bioinorganic Chemistry, Institute of Coordination Chemistry, Nanjing University, China
Dissertation Title: Studies on cavity-like poly-aza compounds: 1. Synthesis and luminescent properties of asymmetric lanthanide cryptates; 2. Pulse radiolysis studies on the kinetics of catalytic dismutation of superoxide radical by superoxide dismutase mimics.
Advisor: Prof. Qinhui Luo
- 1995 Master of Science in Inorganic Chemistry, Department of Chemistry, Central China Normal University
Thesis Title: Synthesis, characterization and anti-bacterial activity quantification of metal complexes of amino sugar Schiff base
Advisor: Prof. Zishen Wu and Prof. Zifeng Le
- 1992 Bachelor of Science, Central China Normal University, Major in Chemistry, Minor in Education

ACADEMIC APPOINTMENTS

- 2003 – 2005 Research Scientist, Department of Chemistry, University of Arizona, Tucson, AZ
2006 – 2012 Assistant Professor, College of Pharmacy, University of New Mexico, Albuquerque, NM
2012 – 2019 Associate Professor, College of Pharmacy, University of New Mexico, Albuquerque, NM
2014 – Adjunct Professor, Department of Chemistry and Chemical Biology, University of New Mexico
2019 – Professor, College of Pharmacy, University of New Mexico, Albuquerque, NM
2021 – Assistant Dean for Basic Science Research, College of Pharmacy, University of New Mexico

PROFESSIONAL EXPERIENCE

- 1998–2000 Postdoctoral Fellow with Professor Yuanzhi Xu, Department of Chemistry, Zhejiang University, Hangzhou, Zhejiang, China
2000–2002 Postdoctoral Research Associate with Professor John H. Enemark, University of Arizona

HONOR AND AWARDS

- 2021-2022 Fellow, American Association of Colleges of Pharmacy (AACP) Academic Leadership Fellows Program (ALFP)
2021-2022 William M. Hadley Distinguished Scholar Award
2020 P-1 Faculty Appreciation Award, UNM College of Pharmacy
2007 Young Investigator Award, Gordon Research Conference on Nitric Oxide

2007	Research Starter Grant in Pharmacology/Toxicology, PhRMA Foundation
2000	Japan Society for the Promotion of Science Postdoctoral Fellowship (declined; accepted an alternative offer from the University of Arizona)
1999–2000	China Postdoctoral Science Foundation Postdoctoral Fellowship
1999	Asia-Pacific EPR Society Distinguished Service Award

RESEARCH INTERESTS

Our lab is interested in how metal ions play critical structural and functional roles in biological molecules. Our primary research focus is on the regulation mechanism of nitric oxide synthase (NOS), a flavo-hemoprotein responsible for the biosynthesis of nitric oxide (NO), a ubiquitous signaling and effector molecule in mammalian cell biology. We employ multidisciplinary approaches across the broad fields of chemistry/biochemistry, and physics (including laser flash photolysis, pulsed EPR, and site-directed mutagenesis). Molecular mechanisms of NOS regulation, once fully understood, are potentially key targets for the development of selective new pharmaceuticals for treating a wide range of diseases that currently lack effective treatments.

MENTORING OF TRAINEES

I have made a commitment to training at all levels, including junior faculty (3), postdoctoral (7), graduate students (2 as a primary mentor), Pharm.D. students (5), and high school students (2) mentees.

MEMBERSHIPS

American Association of Colleges of Pharmacy
 American Chemical Society and its Inorganic Division and Bioinorganic Subdivision, Full Member
 Society of Biological Inorganic Chemistry
 American Heart Association
 Nitric Oxide Society
 Sigma Xi, Full Member
 Chinese-American Chemistry Professor Association

JOURNAL REFEREE ACTIVITIES

Journal of American Chemical Society	Colloids and Surfaces B
Accounts of Chemical Research	Spectrochimica Acta Part A
Journal of Biological Chemistry	The Journal of Physical Chemistry
Biochemistry	Journal of Molecular Recognition
FEBS Journal	Biophysical Journal
Nitric Oxide	Molecules
Antioxidant and Redox Signaling	Science Advances
Dalton Transactions	Protein Science
Chemical Research in Toxicology	Mini-Reviews in Medicinal Chemistry
Bioorganic & Medicinal Chemistry	Journal of Chemical Biology
Chemical Communications	Frontiers Molecular Biosciences
Chemistry & Biology Molecular BioSystems	Inorganic Chemistry Communications
Journal of Inorganic Biochemistry	International Journal of Molecular Sciences
Redox Biology	Sensors & Actuators: B. Chemical
PLOS ONE	Free Radical, Biology and Medicine

GRANT REFEREE ACTIVITIES

NSF Molecular Biophysics Advisory Panel (2021)
Chair, French National Research Agency, Biochemistry of the Living Committee (2017-2019)
Macromolecular Structure and Function A Study Section (2018)
French National Research Agency, CE11 Panel on biochemistry, biophysics, molecular and structural biology (2016-2017)
External referee for the French National Research Agency (2014-2016)
Special Emphasis Panel/Scientific Review Group ZRG1 F04B-D (2014-2015)
AHA Proteins & Crystallography Committee 1 (2015-2017, 2013, 2011)
Referee for Italian Ministry of Health (2015-2017, 2014, 2013, 2010)
Ad hoc reviewer for NSF (2011)
Research Growth Initiative grants reviewer for University of Wisconsin (2009)

OTHER PROFESSIONAL ACTIVITIES

Editor, Special issue “*Nitric Oxide: Chemistry and Biology*”, *Frontier in Biosciences* (2018)
Editorial Board, *Frontier in Biosciences* (2017-present)
Managing Editorial Board, *Frontier in Biosciences* (2014-present)
Chair, Pathogen Session, *NM-INBRE 9th Annual Symposium*, March 27, 2011

RESEARCH SUPPORT: CURRENT

1. NIGMS R01GM133973-01A1 08/01/2020 – 05/30/2024 \$1,269,589
Defining the Conformational Control of Nitric Oxide Synthases by a Multipronged Approach
Defining the conformational aspects (statistics, dynamics, and energy landscape) that govern the obligatory electron transfer steps in NOS.
Role: Principal Investigator
2. NSF MCB #2041692 07/01/2021 – 06/30/2024 \$651,450
Conformations and Dynamics of Modular Redox Enzymes via Site-Specific 2D Infrared Spectroscopy
Building a new direction by elucidating the docked state conformations and dynamics of NOS enzyme systems via 2D infrared (IR) spectroscopy
Role: Principal Investigator
3. 1P20GM130422-01A1 (sub-project ID 7962) 07/01/2020 – 05/31/2025 \$2,762,048
Integrative Molecular Analysis Core, UNM Center for Metals in Biology and Medicine
Enhancing molecular analysis research and formally integrating current UNM Health Sciences Center scientific resources, to foster research training and productivity for mentored investigators.
Role: Sub-project Principal Investigator
4. NIGMS R01 GM133973-02S1 06/01/2021 – 05/31/2022 \$105,024
Supplement to Defining the Conformational Control of Nitric Oxide Synthases by a Multipronged Approach

Acquiring a state-of-the-art, flexible, and intuitive ÄKTA pure system for the reliable purification of proteins and other biomolecules

Role: Principal Investigator

5. UNM COP Research Pilot Award 07/01/2021 - 06/30/2022 \$15,000
Improving Incorporation of Unnatural Amino Acid into Nitric Oxide Synthases
Role: Principal Investigator

RESEARCH SUPPORT: COMPLETED

EXTRAMURAL FUNDING

1. NIGMS R15GM081811-03 06/01/2016 – 5/31/2019 (NCE to 5/31/2020) \$454,377
Mechanism of Electron Transfer in Nitric Oxide Synthase
Studying electron transfer mechanism in NOSs.
Role: Principal Investigator
2. NIGMS R15GM081811-02A1 06/01/2012 – 05/31/2015 (NCE to 5/31/2016) \$332,200
Mechanism of Electron Transfer in Nitric Oxide Synthase
Studying electron transfer mechanism by focusing on a bi-domain construct of NOS.
Role: Principal Investigator
3. NCI 1R15CA173516-01A1 08/01/2013 – 07/31/2016 \$453,000
Novel Receptor-Targeting Theranostic Peptides for Prostate Cancer
Developing novel prostate cancer-specific theranostic gonadotropin-releasing hormone (GnRH) peptides targeting the GnRH receptors to improve the detection accuracy and enhance the therapeutic efficacy of human prostate cancer
Role: Principal Investigator
4. NSF CHE 08/15/2012 – 07/31/2014 \$200,000
Mechanism of Nitric Oxide Synthase Regulation by Interdomain FMN/Heme Docking
Studying NOS isoform regulation mechanism by focusing on full-length NOS enzymes.
Role: Principal Investigator
5. AHA Grant-in-Aid 07/01/2012 – 06/30/2014 \$140,000
Control Mechanisms of Nitric Oxide Synthases
Studying how NOS activity is regulated by single and combined phosphorylations that are important in stroke intervention and outcome.
Role: Principal Investigator
6. NM-INBRE P20RR016480 05/01/2009 – 02/28/2014 \$562,500
Spectroscopic Study of Nitric Oxide Synthase
Investigating the electronic and geometric structure of catalytically important NOS intermediates.
Role: Sub-Project (ID 8157) Principal Investigator
7. AHA Grant-in-Aid 07/01/2009 – 06/30/2011 (no-cost extension to 6/30/12) \$140,000
Structural Spectroscopic Studies of Nitric Oxide Synthases
Investigating the structural and functional relationship of nitric oxide synthase isoforms by a combined magnetic circular dichroism (MCD) and electron paramagnetic resonance (EPR) approach.

Role: Principal Investigator

8. NHLBI R21HL091280 01/01/2008 – 12/31/2009 (no-cost extension to 12/31/11) \$405,000
Regulation of Nitric Oxide Synthase through Formation of the Output State
Investigating mechanism of NOS regulation through determining electron transfer kinetics in the NOS output state of full-length NOS isoforms.
Role: Principal Investigator
9. NIGMS R15GM081811 08/01/2007 – 07/31/2010 \$225,000
Mechanism of Electron Transfer in Nitric Oxide Synthase
Investigation of electron transfer mechanism in truncated NOS constructs, a model of the NOS output state.
Role: Principal Investigator
10. NIGMS 3R15GM081811-01S1 09/01/2007 – 07/31/2010 \$24,972
Upgrade of a laser flash photolysis spectrometer to spectral mode
Role: Principal Investigator
11. PhRMA Research Starter Grant 01/01/2007 – 12/31/2008 \$60,000
Mechanism of Intrinsic Regulation of Electron Transfer in Endothelial and Neuronal Nitric Oxide Synthases
Elucidation of the mechanism of electron transfer processes in constitutive nitric oxide synthase.
Role: Principal Investigator

INTERNAL FUNDING

6. UNM COP Research Pilot Award 01/01/2020 – 12/31/2020 \$15,000
Investigating phosphoserine-incorporated nitric oxide synthases
Role: Principal Investigator
2. UNM COP Research Pilot Award 01/20/2017 – 12/31/2017 \$10,000
Developing new strategies for incorporation of spin-label into nitric oxide synthase
Role: Principal Investigator
3. UNM HSC RAC Grant 04/01/2011 – 03/31/2012 \$15,000
Regulation of NOS by Alignment of the FMN and Heme Domains
The goal is to study the mechanism of NOS regulation by interdomain FMN/heme alignment.
Role: Principal Investigator
4. UNM HSC Equipment Funding 12/2008 \$23,980
Purchase of an electrochemical analyzer, which is used to conduct real-time measurements of redox-reactive species (including nitric oxide (NO), glucose, oxygen, H₂O₂, and H₂S).
Role: Principal Investigator
5. UNM HSC Signature Program 12/2008 – 12/2009 \$10,000
Mechanism of Arsenic-Induced Atherosclerosis through Endothelial Inflammation
Studying the mechanistic role of endothelial inflammation in arsenic-induced atherosclerosis.
Role: Principal Investigator

6. UNM HSC RAC Grant 03/01/2007 – 02/27/2008 \$4,100
Mechanism of Regulation of Nitric Oxide Synthase
Studying the mechanism of nNOS regulation through interdomain electron transfer.
Role: Principal Investigator

PEER-REVIEWED PUBLICATIONS

99 papers published in international peer-reviewed journals. * **Corresponding author.**

A. From Research Conducted at the University of New Mexico

1. Lua, Jin-Ye; Chen, Qiu-Yun; Meng, Su-Ci; **Feng, Chang-Jian**. (2022) A dye-andrographolide assembly as a turn-on sensor for detection of phthalate in both cells and fish. *Anal. Chim. Acta* 1195, 339460.
2. Zheng, Huayu; Weaver, John M.; **Feng, Changjian***. (2021) Heat shock protein 90 α increases superoxide generation from neuronal nitric oxide synthases. *J. Inorg. Biochem.* 214, 11298.
3. Zheng, Huayu; Li, Jinghui; **Feng, Changjian***. (2020) An isoform-specific pivot modulates the electron transfer between the flavin mononucleotide and heme centers in inducible nitric oxide synthase. *J. Biol. Inorg. Chem.* 25, 1097-1105.
4. Zheng, Huayu; Li, Jinghui; **Feng, Changjian***. (2020) Heat shock protein 90 enhances the electron transfer between the FMN and heme cofactors in neuronal nitric oxide synthase. *FEBS Lett.* 594, 2904-2913.
5. Yang, Rui; Fang, Xiu-Lin; Fang, Zhen, Qin; Chen, Qiu-Yun; **Feng, Changjian**. (2019) Mitochondrial targeting nano-curcumin for attenuation on PKM2 and FASN. *Colloids and Surfaces B: Biointerfaces* 182, 11405.
6. Astashkin, Andrei V.; Li, Jinghui; Zheng, Huayu; **Feng, Changjian***. (2019) Positional distributions of the tethered modules in nitric oxide synthase: Monte Carlo calculations and pulsed EPR measurements. *J. Phys. Chem. A* 123, 7075-7086.
7. Li, Jinghui; Zheng, Huayu; **Feng, Changjian***. (2019) Effect of macromolecular crowding on the FMN – heme intraprotein electron transfer in inducible NO synthase. *Biochemistry*, 58, 3087-3096.
8. Zheng, Huayu; He, Jingxuan; Li, Jinghui; Yang, Jing; Kirk, Martin L.; Roman, Linda J.; **Feng, Changjian***. (2019) Generation and characterization of functional phosphoserine incorporated neuronal nitric oxide synthase holoenzyme. *J. Biol. Inorg. Chem.* 24, 1-9.
9. Yang, Jing; Kersi, Dominic; Richers, Casseday; Giles, Logan; Dangi, Ranjana; Stein, Benjamin; **Feng, Changjian**; Tichnell, Christopher; Shultz, David; Kirk, Martin (2018) Ground state nuclear magnetic resonance chemical shifts predict charge-separated excited state lifetimes. *Inorg. Chem.* 57, 13470-13476.
10. Li, Jinghui; Zheng, Huayu; Wang, Wei; Miao, Yubin; Sheng, Yinghong; **Feng, Changjian***. (2018) Role of an isoform-specific residue at the calmodulin-heme(NO synthase) interface in the FMN – heme electron transfer. *FEBS Lett.* 592, 2425-2431.
11. Astashkin, Andrei V.; Li, Jinghui; Zheng, Huayu; Miao, Yubin; **Feng, Changjian***. (2018) A docked state conformational dynamics model to explain the ionic strength dependence of FMN-heme electron transfer in nitric oxide synthase. *J. Inorg. Biochem.* 184, 146-155.
12. Li, Jinghui; Zheng, Huayu; **Feng, Changjian***. (2018) Deciphering mechanism of conformationally controlled electron transfer in nitric oxide synthases. *Front. Biosci.* 23, 1803-1821.
13. Liu, Liqin; Xu, Jingli; Yang, Jianquan; **Feng, Changjian**; Miao, Yubin. (2017) Metastatic melanoma imaging using a novel Tc-99m-labeled lactam-cyclized alpha-MSH peptide. *Bioorg. Med. Chem. Lett.* 27, 4952-4955.
14. Xu, Jingli; **Feng, Changjian**; Miao, Yubin. (2017) Evaluation of novel ¹¹¹In-labeled gonadotropin-releasing hormone peptides for human prostate cancer imaging, *Bioorg. Med. Chem. Lett.* 27, 4647-4651.

15. Chen, Li; Zheng, Huayu; Li, Wenbing; Li, Wei; Miao, Yubin; **Feng, Changjian***. (2016) Role of a conserved tyrosine residue in the FMN – heme interdomain electron transfer in inducible nitric oxide synthase, *J. Phys. Chem. A* 120, 7610-7616.
16. McQuarters, Ashley B.; Speelman, Amy L.; Chen, Li; Elmore, Bradley O.; Fan, Weihong; **Feng, Changjian**; Lehnert, Nicolai. (2016) Exploring second coordination sphere effects in nitric oxide synthase, *J. Biol. Inorg. Chem.* 21, 997-1008.
17. Liu, Liqin; Xu, Jingli; Yang, Jianquan; **Feng, Changjian**; Miao, Yubin. (2016) Imaging human melanoma using a novel Tc-99m-labeled lactam bridge-cyclized alpha-MSH peptide, *Bioorg. Med. Chem. Lett.* 26, 4724-4728.
18. Huestis, Juliana; Zhou, Xixi; Chen, Li; **Feng, Changjian**; Hudson, Laurie G.; Liu, Ke Jian. (2016) Kinetics and thermodynamics of zinc(II) and arsenic(III) binding to XPA and PARP-1 zinc finger peptides, *J. Inorg. Biochem.* 163, 45-52.
19. Wang, Yin-Bing; Qu, Ling-Ling; Chen, Qiu-Yun; **Feng, Chang-Jian**. (2016) Light-driven charge transfer in nano-Fe(III) complexes facilitates the oxidation of water, *New J. Chem.*, 40, 6053-6058.
20. Xu, Xiao-Lei; Shao, Jian; Chen, Qiu-Yun; Li, Cheng-Hao; Kong, Meng-Yun; Fang, Fang; Ji, Ling; Boison, Daniel; Tao, Huang; Gao, Jing; **Feng, Chang-Jian**. (2016) Mn(II) complex of boradiazaindacene (BODIPY) loaded graphene oxide as both LED light and H₂O₂ enhanced anticancer agent, *J. Inorg. Biochem.* 159, 1-6.
21. Sheng, Yinghong; Zhong, Linghao; Guo, Dahai; Lau, Gavin; **Feng, Changjian***. (2015) Insight into structural rearrangements and interdomain interactions related to electron transfer between flavin mononucleotide and heme in nitric oxide synthase: A molecular dynamics study, *J. Inorg. Biochem.* 153, 186-196.
22. Astashkin, Andrei; **Feng, Changjian***. (2015) Solving kinetic equations for the laser flash photolysis experiment on nitric oxide synthases: Effect of conformational dynamics on the interdomain electron transfer. *J. Phys. Chem. A* 119, 11066-11075.
23. Astashkin, Andrei; Chen, Li; Elmore, Bradley; Kunwar, Deepak; Miao, Yubin; Li, Huiying; Poulos, Thomas; Roman, Linda; **Feng, Changjian***. (2015) Probing the hydrogen bonding of the ferrous–NO heme center of nNOS by pulsed electron paramagnetic resonance, *J. Phys. Chem. A* 119, 6641-6649.
24. Astashkin, Andrei; Chen, Li; Zhou, Xixi; Li, Huiying; Poulos, Thomas; Liu, Ke Jian; Guillemette, Joseph; **Feng, Changjian***. (2014) Pulsed electron paramagnetic resonance study of domain docking in neuronal nitric oxide synthase: The calmodulin and output state perspective, *J. Phys. Chem. A* 118, 6864-6872.
25. Yang, Jing; Kersi, Dominic K.; Giles, Logan J.; Stein, Benjamin W.; **Feng, Changjian**; Tichnell, Christopher R. T.; Shultz, David A.; Kirk, Martin. (2014) Ligand control of donor–acceptor excited-state lifetimes, *Inorg. Chem.* 53, 4791-4793.
26. Yang, Jianquan; Flook, Adam M.; **Feng, Changjian**; Miao, Yubin. (2014) Linker modification reduced the renal uptake of technetium-99m-labeled Arg-Ala-Asp-conjugated alpha-melanocyte stimulating hormone peptide, *Bioorg. Med. Chem. Lett.* 24, 195-198.
27. **Feng, Changjian***; Chen, Li; Li, Wenbing; Elmore, Bradley O.; Fan, Weihong; Sun, Xi. (2014) Dissecting regulation mechanism of the FMN to heme interdomain electron transfer in nitric oxide synthases, *J. Inorg. Biochem.* 130, 130-140. Featured Article.
28. Panda, Satya P.; Li, Wenbing; Venkatakrishnan, Priya; Chen, Li; Astashkin, Andrei. V.; Masters, Bettie Sue; **Feng, Changjian**; Roman, Linda J. (2013) Differential calmodulin-modulatory and electron transfer properties of neuronal nitric oxide synthase mu compared to the alpha variant, *FEBS Lett.* 587, 3973-3978.
29. Li, Wenbing; Chen, Li; Lu, Changyuan; Elmore, Bradley O.; Astashkin, Andrei V.; Rousseau, Denis L.; Yeh, Syun-Ru; **Feng, Changjian***. (2013) Regulatory role of Glu546 in flavin mononucleotide - heme electron transfer in human inducible nitric oxide synthase, *Inorg. Chem.* 52, 4795-4801.

30. Astashkin, Andrei V.; Elmore, Bradley O.; Li, Chen; Fan, Weihong; Guillemette, J. Guy; **Feng, Changjian***. (2012) Pulsed ENDOR determination of the arginine location in the ferrous-NO form of neuronal NOS, *J. Phys. Chem. A* **116**, 6731-6739.
31. Li, Wenbing; Fan, Weihong; Chen, Li; Elmore, Bradley; Piazza, Mike; Guillemette, J.; **Feng, Changjian***. (2012) Role of an isoform-specific serine residue in FMN-heme electron transfer in inducible nitric oxide synthase, *J. Biol. Inorg. Chem.* **17**, 675-685.
32. Li, Wenbing; Chen, Li; Fan, Weihong; **Feng, Changjian***. (2012) Comparing the temperature dependence of FMN to heme electron transfer in full length and truncated inducible nitric oxide synthase proteins, *FEBS Lett.* **586**, 159-162.
33. **Feng, Changjian***. (2012) Mechanism of nitric oxide synthase regulation: Electron transfer and interdomain interactions, *Coord. Chem. Rev.* **256**, 393-411.
34. **Feng, Changjian***; Taiakina, Valentina; Ghosh, Dipak K.; Guillemette, J. Guy; Tollin, Gordon. (2011) Intraprotein electron transfer between the FMN and heme domains in endothelial nitric oxide synthase holoenzyme, *Biochim. Biophys. Acta*, **1814**, 1997-2002.
35. Astashkin, Andrei V.; Fan, Weihong; Elmore, Bradley O.; Guillemette, J. Guy; **Feng, Changjian***. (2011) Pulsed ENDOR determination of relative orientation of g-frame and molecular frame of imidazole-coordinated heme center of iNOS, *J. Phys. Chem. A* **115**, 10345-10352.
36. Li, Wenbing; Fan, Weihong; Elmore, Bradley O.; **Feng, Changjian***. (2011) Effect of solution viscosity on intraprotein electron transfer between the FMN and heme domains in inducible nitric oxide synthase, *FEBS Lett.*, **585**, 2622-2626.
37. Sempombe, Joseph; Galinato, Mary Grace I.; Elmore, Bradley O.; Fan, Weihong; Guillemette, J. Guy; Lehnert, Nicolai; Kirk, Martin L.; **Feng, Changjian***. (2011) Mutation in the flavin mononucleotide domain modulates magnetic circular dichroism spectra of the iNOS ferric cyano complex in a substrate-specific manner, *Inorg. Chem.* **50**, 6859-6861.
38. **Feng, Changjian***; Fan, Weihong; Ghosh, Dipak K.; Tollin, Gordon. (2011) Role of an isoform-specific substrate access channel residue in CO ligand accessibilities of neuronal and inducible nitric oxide synthase isoforms, *Biochim. Biophys. Acta* **1814**, 405-408.
39. **Feng, Changjian***; Fan, Weihong; Dupont, Andrea; Guillemette, J. Guy.; Ghosh, Dipak K.; Tollin, Gordon. (2010) Electron transfer in a human inducible nitric oxide synthase oxygenase/FMN construct co-expressed with the N-terminal globular domain of calmodulin, *FEBS Lett.* **584**, 4335-4338.
40. Astashkin, Andrei V.; Elmore, Bradley O.; Fan, Weihong; Guillemette, J. Guy.; **Feng, Changjian***. (2010) Pulsed EPR determination of the distance between heme iron and FMN centers in a human inducible nitric oxide synthase, *J. Am. Chem. Soc.* **132**, 12059-12067.
41. **Feng, Changjian***; Tollin, Gordon. (2009) Regulation of interdomain electron transfer in the NOS output state for NO production, *Dalton Trans.* 6692-6700. Invited Review.
42. Sempombe, Joseph; Elmore, Bradley; Sun, Xi; Dupont, Andrea; Ghosh, Dipak; Guillemette, Joseph; Kirk, Martin; **Feng, Changjian***. (2009) Mutations in the FMN domain modulate MCD spectra of the heme site in the oxygenase domain of inducible nitric oxide synthase, *J. Am. Chem. Soc.* **131**, 6940-6941.
43. Sun, Xi; Pi, Jingbo; Liu, Wenlan; Hudson, Laurie; Liu, Ke Jian; **Feng, Changjian***. (2009) Induction of heme oxygenase 1 by arsenite inhibits cytokine-induced monocyte adhesion to human endothelial cells, *Toxicol. Appl. Pharmacol.* **236**, 202-209.
44. Wang, Lin-Yun; Chen, Qiu-Yun; Huang, Juan; Wang, Kun; **Feng, Chang-Jian**; Gen, Zhi-Rong. (2009) Synthesis, characterization, and bioactivities of copper complexes with N-substituted Di(picoly)amines, *Transition Met. Chem.* **34**, 337-345.

45. **Feng, Changjian***; Dupont, Andrea L.; Nahm, Nickolas J.; Spratt, Donald E.; Hazzard, James T.; Weinberg, J. Brice; Guillemette, J. Guy; Tollin, Gordon; Ghosh, Dipak K. (2009) Intraprotein electron transfer in inducible nitric oxide synthase holoenzyme, *J. Biol. Inorg. Chem.* *14*, 133-142.
46. Hu, Xiaohui; **Feng, Changjian**; Hazzard, James T.; Tollin, Gordon; Montfort, William R. (2008) Binding of YC-1 or BAY 41-2272 to soluble guanylyl cyclase induces a geminate phase in CO photolysis, *J. Am. Chem. Soc.* *130*, 15748-15749.
47. **Feng, Changjian***; Roman, Linda J.; Hazzard, James T.; Ghosh, Dipak K.; Tollin, Gordon; Masters, Bettie Sue S. (2008) Deletion of the autoregulatory insert modulates intraprotein electron transfer in rat neuronal nitric oxide synthase, *FEBS Lett.* *582*, 2768-2772.
48. Ding, Wei; Hudson, Laurie J.; Sun, Xi; **Feng, Changjian**; Liu Ke Jian. (2008) As(III) inhibits ultraviolet radiation-induced cyclobutane pyrimidine dimers repair via generation of nitric oxide in human keratinocytes, *Free Radic. Biol. Med.* *45*, 1065-1072.
49. **Feng, Changjian***; Tollin, Gordon; Hazzard, James T.; Nahm, Nickolas J.; Guillemette J. Guy; Salerno, John C.; Ghosh, Dipak K. (2007) Direct measurement by laser flash photolysis of intraprotein electron transfer in a rat neuronal nitric oxide synthase, *J. Am. Chem. Soc.* *129*, 5621-5629.
50. **Feng, Changjian***; Tollin, Gordon; Enemark, John H. (2007) Sulfite oxidizing enzymes, *Biochim. Biophys. Acta* *1774*, 527-539. Invited Review
51. **Feng, Changjian***; Tollin, Gordon; Holliday, Michael A.; Thomas, Clayton; Salerno, John C.; Enemark, John H.; Ghosh, Dipak K. (2006) Intraprotein electron transfer in a two-domain construct of neuronal nitric oxide synthase: The output state in nitric oxide formation, *Biochemistry* *45*, 6354-6362.

B. From Research Conducted at the University of Arizona

52. Astashkin, Andrei V.; Johnson-Winters, Kayunta; Klein, Eric L.; **Feng, Changjian**; Wilson, Heather L.; Rajagopalan, K. V.; Raitsimring, Arnold M.; Enemark, John H. (2008) Structural studies of the molybdenum center of the pathogenic R160Q mutant of human sulfite oxidase by pulsed EPR spectroscopy and ¹⁷O and ³³S labeling, *J. Am. Chem. Soc.* *130*, 8471-8480.
53. Raitsimring, Arnold M.; Astashkin, Andrei V.; **Feng, Changjian**; Wilson, Heather L.; Rajagopalan, K.V.; Enemark, John H. (2008) Studies of the Mo(V) center of the Y343F mutant of human sulfite oxidase by variable frequency pulsed EPR spectroscopy, *Inorg. Chim. Acta* *361*, 941-946.
54. **Feng, Changjian**; Thomas, Clayton; Holliday, Michael A.; Tollin, Gordon; Salerno, John C.; Ghosh, Dipak K.; Enemark John H. (2006) Direct measurement by laser flash photolysis of intramolecular electron transfer in a two-domain construct of murine inducible nitric oxide synthase, *J. Am. Chem. Soc.* *128*, 3808-3811.
55. Kappler, Ulrike; Bailey, Susan; **Feng, Changjian**; Honeychurch, Michael J.; Hanson, Graeme R.; Bernhardt, Paul, V.; Tollin, Gordon; Enemark, John H. (2006) Kinetic and structural evidence for the importance of Tyr236 for the integrity of the Mo active site in a bacterial sulfite dehydrogenase, *Biochemistry* *45*, 9696-9705.
56. **Feng, Changjian**; Wilson, Heather L.; Tollin, Gordon; Astashkin, Andrei A; Hazzard, James T.; Rajagopalan, K. V.; Enemark, John H. (2005) The pathogenic human sulfite oxidase mutants G473D and A208D are defective in intramolecular electron transfer, *Biochemistry* *44*, 13734- 13743.
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C. From Research Conducted at Zhejiang University

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Part 3. Synthesis and characterization of a copper (I)-hydrazine intermediate complex, $\text{Na}(\text{N}_2\text{H}_4)\text{CuCl}_2$, *Transition Met. Chem. (Dordrecht, Neth.)* 25, 635-638.

D. Ph.D. Research at Nanjing University

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E. Master of Science Research at Central China Normal University

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CONFERENCE PROCEEDINGS

1. **Feng, C. J.** (2014) P120. Dissecting mechanism of the interdomain FMN to heme electron transfer in nitric oxide synthases, *Nitric Oxide* 42, 121.
2. Masters, B. S.; Roman, L. J.; Martasek, P.; **Feng, C. J.** (2010) Intricacies of nitric oxide synthase structure-function, *Nitric Oxide* 22, S11.
3. **Feng, C. J.**; Ghosh, D. K.; Salerno, J. C.; Guillemette, J. G. (2008) P24. Electron transfer in an inducible nitric oxide synthase coexpressed with N-terminal domains of calmodulin, *Nitric Oxide* 19, Supplement, 48.
4. **Feng, C. J.**; Tollin, G.; Salerno, J. C.; Ghosh, D. K. (2006) P177. Direct measurement by laser flash photolysis of intramolecular electron transfer in two-domain constructs of nitric oxide synthase: The output state for nitric oxide formation, *Nitric Oxide* 14, 75.
5. Enemark, J. H.; Astashkin, A. V.; Raitsimring, A. M.; **Feng, C. J.**; Wilson, H. L.; Rajagopalan, K. V. (2003) Variable frequency pulsed EPR studies of molybdenum enzymes, *J. Inorg. Biochem.* 96, 53.

INVITED ORAL PRESENTATIONS

1. "Conformations and dynamics of nitric oxide synthases via site-specific infrared spectroscopy", Novel Heme Proteins and Model Systems (#242) Pacificchem conference, Dec. 19, 2021.
2. "Deciphering the conformational dynamics of NO synthases", *Department of Chemistry and Chemical Biology, University of New Mexico*, Albuquerque, NM, January 25, 2021.
3. "Defining the conformational dynamics of nitric oxide synthase by an integrated approach", *School of Pharmacy, the University of Texas at El Paso*, El Paso, TX, December 11, 2020.
4. "Dissecting conformational control of nitric oxide synthases by an integrated approach", *Department of Chemistry, University of Montana*, Missoula, MT, September 30, 2019.
5. "Deciphering conformational control of NO synthases by an integrated approach", *Roy J. Carver Department of Biochemistry, Biophysics and Molecular Biology, Iowa State University*, Ames, IA, September 13, 2018.
6. "Conformational control of nitric oxide synthases", *Department of Chemistry, University of Kansas*, Lawrence, KS, October 6, 2017.
7. "Regulation of nitric oxide synthases by conformational dynamics", Colloquium, *Department of Chemistry and Biochemistry, University of Arizona*, Tucson, AZ, November 17, 2016.
8. "Regulation of electron transfer in nitric oxide synthase by conformational dynamics", *European Chemistry Congress*, Rome, June 17, 2016.
9. "Regulation of nitric oxide synthases by conformational dynamics", *The 9th International Conference on the Biology, Chemistry, and Therapeutic Applications*, Sendai, Japan, May 20, 2016.
10. "Elucidating the conformational dynamics and regulatory interactions in nitric oxide synthases", *Pacificchem 2015*, Honolulu, HI, December 20, 2015.
11. "Mechanism of nitric oxide synthase regulation by conformational dynamics", *The 17th International Conference on Biological Inorganic Chemistry*, Beijing, China, July 21, 2015.
12. "Mechanism of nitric oxide synthase regulation", *College of Chemistry, Central China Normal University*, Wuhan, China, July 15, 2015.
13. "Regulation of nitric oxide synthase by conformational dynamics", *College of Chemistry, Huazhong University of Science and Technology*, Wuhan, China, July 16, 2015.
14. "Mechanism of nitric oxide synthase regulation by interdomain interactions", *College of Pharmacy, University of New Mexico*, Albuquerque, NM, October 14, 2013.
15. "Mechanism of nitric oxide synthase regulation by interdomain FMN/heme docking", *NM-INBRE 11th Annual Symposium*, Santa Fe, NM, March 24, 2013.
16. "Combined kinetic and spectroscopic studies of nitric oxide synthases", *NM-INBRE 10th Annual Symposium*, Santa Fe, NM, March 24, 2012.
17. "Regulation of nitric oxide synthase by interdomain electron transfer", *NM-INBRE 9th Annual Symposium*, Santa Fe, NM, March 26, 2011.
18. "Regulation of nitric oxide synthase by electron transfer", *A Flash in Time: A Celebration of the Scientific Career and Contributions of Regents' Professor Gordon Tollin*, University of Arizona, Tucson, AZ, March 12, 2011.
19. "Regulation of nitric oxide synthase", *Department of Chemistry and Biochemistry, the University of Texas at Arlington*, March 4, 2011.
20. "Innovative probes of interdomain interactions in nitric oxide synthase", *College of Pharmacy, University of New Mexico*, Albuquerque, NM, November 29, 2010.

21. “Nitric oxide synthase”, *School of Chemistry and Chemical Engineering, Jiangsu University, Zhenjiang, China*, November 19, 2010.
22. “Innovative spectroscopic probes of the interdomain FMN–heme interactions in nitric oxide synthase”, *NM-INBRE 8th Annual Symposium*, Santa Fe, NM, March 27, 2010.
23. “Innovative probes of the interdomain interactions in nitric oxide synthase”, *8th Annual Southwest P450 Meeting*, Navasota, Texas, May 11, 2009.
24. “Regulation of nitric oxide synthase through the formation of output state”, *Department of Chemistry, Fudan University*, Shanghai, China, May 21, 2008.
25. “Electron transfer in the output state of nitric oxide synthase”, *School of Chemistry and Chemical Engineering, Nanjing University*, Nanjing, China, May 19, 2008.
26. “Regulation of nitric oxide synthase through electron transfer”, *College of Chemistry, Guangxi University*, Nanning, China, May 15, 2008.
27. “Regulation of nitric oxide synthase through intraprotein electron transfer”, *College of Chemistry, Central China Normal University*, Wuhan, China, May 12, 2008.
28. “Direct measurement by laser flash photolysis of intramolecular electron transfer in the output state of nitric oxide synthase”, *6th Annual Southwest P450 Meeting*, Navasota, Texas, May 16, 2007.
29. “Electron transfer in nitric oxide synthase”, *Department of Chemistry, University of New Mexico*, Albuquerque, NM, February 16, 2007.
30. “Direct measurement by laser flash photolysis of intramolecular electron transfer in a nitric oxide synthase holoenzyme”, *Hot Topic Session, 2007 Gordon Research Conference on Nitric Oxide*, Ventura, CA, February 7, 2007.
31. “Recent electron transfer studies on nitric oxide synthase”, *Department of Chemistry and Biochemistry, University of Wisconsin*, Milwaukee, May 5, 2006.
32. “Recent studies on electron transfer in sulfite oxidizing enzymes”, *Departmental Seminar, Department of Chemistry, University of Arizona*, Tucson, AZ, Oct 4, 2005.
33. “Recent flash photolysis studies on sulfite oxidizing enzymes”, *Department of Chemistry, Jackson State University*, Jackson, MS, April 25, 2005.
34. “Metal-based antioxidant-functional mimics of superoxide dismutase”, *College of Pharmacy, University of New Mexico*, Albuquerque, NM, April 14, 2005.
35. “Flash photolysis studies on intramolecular electron transfer in human sulfite oxidase mutants”, *227th ACS National Meeting*, Anaheim, CA, March 30, 2004, INOR-528.
36. “Recent studies on electron transfer in sulfite oxidase”, *BCP Journal Club, University of Arizona*, Tucson, AZ, March 13, 2003.
37. “Laser flash photolysis studies on intramolecular electron transfer in sulfite oxidase”, *Departmental Seminar, Department of Chemistry, University of Arizona*, Tucson, AZ, February 5, 2002.

POSTERS

1. Huayu Zheng, Jingxuan He, Jinghui Li, Jing Yang, Martin L. Kirk, Linda J. Roman, Changjian Feng. “Generation and characterization of functional phosphoserine-incorporated neuronal nitric oxide synthase holoenzyme”, *2019 Gordon Research Seminar & Conference on Proteins*, Holderness, NH, June 14-21, 2019.
2. Nina C. Marley, Joseph H. Hoover, Changjian Feng, Johnnye Lewis. “Advances in Trace Metals Analysis by ICP-MS at UNM HSC”, *2019 College of Pharmacy Research Day*, Albuquerque, NM, April 10, 2019.

3. Jinghui Li, Huayu Zheng, **Changjian Feng**. “Crowding effect on electron transfer between the FMN and heme domains in inducible nitric oxide synthase”, *2019 College of Pharmacy Research Day*, Albuquerque, NM, April 10, 2019.
4. Jinghui Li, Huayu Zheng, **Changjian Feng**. “Crowding effect on electron transfer in inducible nitric oxide synthase”, *2018 ACS Rocky Mountain Regional Meeting*, Albuquerque, NM, October 26, 2018.
5. Huayu Zheng, Jinghui Li, **Changjian Feng**. “Generation and characterization of functional phosphoserine incorporated neuronal nitric oxide synthase holoenzyme”, *2018 ACS Rocky Mountain Regional Meeting*, Albuquerque, NM, October 26, 2018.
6. Huayu Zheng, **Changjian Feng**. “Generation and characterization of functional phosphoserine incorporated neuronal NO synthase holoprotein”, *2018 Genetic Code Expansion Conference*, Corvallis, OR, August 9-11, 2018.
7. Huayu Zheng, **Changjian Feng**. “Dissecting regulation mechanism of nitric oxide synthases by conformational dynamics”, *2017 College of Pharmacy Research Day*, Albuquerque, NM, April 13, 2017.
8. **Feng, Changjian**. “Deciphering conformational dynamics in nitric oxide synthases”, *Gordon Research Conference on Nitric Oxide*, Ventura, CA, February 15-20, 2015.
9. **Feng, Changjian**. “Elucidating conformational dynamics in nitric oxide synthases”, *Gordon Research Conference on Metals in Biology*, Ventura, CA, January 25 - 30, 2015.
10. **Feng, Changjian**. "Dissecting mechanism of the interdomain FMN to heme electron transfer in nitric oxide synthases", *8th International Nitric Oxide Conference & 6th International Nitrite/Nitrate Conference*, Cleveland, OH, June 16-20, 2014.
11. Chen, Li; Astashkin, Andrei; Zhou Xixi; Liu, Ke Jian; **Feng, Changjian**. “Mechanism of NO synthase regulation by calmodulin-binding”, *2013 College of Pharmacy Research Day*, Albuquerque, NM, April 10, 2014.
12. Li, Wenbing; Chen, Li; **Feng, Changjian**. “Proton-Coupled Electron Transfer in Inducible Nitric Oxide Synthase”, *2013 College of Pharmacy Research Day*, Albuquerque, NM, April 10, 2014.
13. **Feng, Changjian**; Li, Wenbing; Chen, Li. “Deuterium isotope effect on FMN to heme electron transfer in inducible nitric oxide synthase”, *Gordon Research Conference on Isotopes in Biological & Chemical Sciences*, Galveston, TX, February 2-7, 2014.
14. Chen, Li; Li, Wenbing; Elmore, Bradley; Fan, Weihong; Astashkin, Andrei; Zhou, Xixi; Liu, Kejian; **Feng, Changjian**. “Mechanism of NO synthase regulation by interdomain FMN/heme docking”, *The 31st Annual Meeting of the Mountain West Society of Toxicology*, Albuquerque, NM, September 19–20, 2013.
15. Li, Wenbing; Chen, Li; Elmore, Bradley; Astashkin, Andrei V.; **Feng, Changjian**. “Regulatory role of Glu546 in FMN-heme electron transfer in human inducible NOS”, *2013 College of Pharmacy Research Day*, Albuquerque, NM, April 11, 2013.
16. **Feng, Changjian**; Astashkin, Andrei V.; Chen, Li; Li, Wenbing; Elmore, Bradley O. “Kinetic and spectroscopic studies of regulation mechanisms of nitric oxide synthases”, *Gordon Research Conference on Metals in Biology*, Ventura, CA, January 20 - 25, 2013.
17. Blanco, Michelle; Chen, Li; Li Wenbing; **Feng, Changjian**. “Role of an isoform-specific residue in functions of human inducible NOS”, *2012 Undergraduate Pipeline Network students poster sessions*, University of New Mexico, August 2, 2012 (presented by undergraduate mentee Michelle Blanco).
18. Chen, Li; Astashkin, Andrei V.; Zhou, Xixi; Liu, Ke Jian; **Feng, Changjian**. “Pulsed EPR studies of Pulsed EPR studies of calmodulin-controlled alignment of the FMN and heme domains of neuronal NOS”, *2012 College of Pharmacy Research Day Poster*, Albuquerque, NM, April 19, 2012.

19. Li, Wenbing; Chen, Li; Fan, Weihong; Elmore, Bradley O.; **Feng, Changjian**. "Regulatory role of an isoform-specific serine residue in the FMN-heme interdomain electron transfer in inducible NOS", *2012 College of Pharmacy Research Day Poster*, Albuquerque, NM, April 19, 2012.
20. **Feng, Changjian**; Astashkin, Andrei V.; Li, Wenbing; Chen, Li; Fan, Weihong; Elmore, Bradley O.; Piazza, Mike; Guillemette, Guy. "Kinetics and Pulsed EPR Studies of Nitric Oxide Synthase", *Gordon Research Conference on Metals in Biology*, Ventura, CA, January 22 - 27, 2012.
21. Murray, Kevin. A.; Elmore, Bradley O.; Kornienko, Alexander; **Feng, Changjian**. "Novel calmodulin antagonists inhibit neuronal nitric oxide synthase activity", *2011 Undergraduate Pipeline Network students poster sessions*, University of New Mexico, July 28, 2011 (presented by undergraduate mentee Kevin Murray).
22. Elmore, Bradley O.; Astashkin, Andrei V.; Fan, Weihong; **Feng, Changjian**. "EPR studies of ferrous-NO forms of nitric oxide synthase", *2011 College of Pharmacy Research Day Poster*, Albuquerque, NM, April 14, 2011 (presented by post-doc mentee Bradley Elmore).
23. Li, Wenbing; Fan, Weihong; Elmore, Bradley O.; **Feng, Changjian**. "Regulation of intraprotein electron transfer in inducible nitric oxide synthase by an isoform-specific serine residue in a bridging interaction site", *2011 College of Pharmacy Research Day Poster*, Albuquerque, NM, April 14, 2011 (presented by post-doc mentee Wenbing Li).
24. **Feng, Changjian**; Astashkin, Andrei V.; Elmore, Bradley O.; Fan, Weihong. "Pulsed EPR studies of ferrous-NO forms of nitric oxide synthase proteins", *Gordon Research Conference on Metals in Biology*, Ventura, CA, January 30 - February 4, 2011.
25. **Feng, Changjian**; Astashkin, Andrei V.; Elmore, Bradley O.; Fan, Weihong. "Direct determination of the distance between the FMN and heme centers in nitric oxide synthase by pulsed EPR", *2010 International Chemical Congress of Pacific Basin Societies*, Honolulu, Hawaii, December 15-20, 2010.
26. Magallanes, Adela; Elmore, Bradley O.; **Feng, Changjian**. "Investigating the Roles of Calmodulin Residues in Nitric Oxide Synthase Activation", *2010 Undergraduate Pipeline Network students poster sessions*, University of New Mexico, July 29, 2010 (presented by undergraduate mentee Adela Magallanes).
27. **Feng, Changjian**; Kirk, Martin L.; Astashkin, Andrei V.; Fan, Weihong; Elmore, Bradley O.; Sempombe, Joseph. "Innovative Spectroscopic Probes of the Interdomain FMN-heme Interactions in Nitric Oxide Synthase." *NM-INBRE 8th Annual Symposium*, Santa Fe, NM, March 27, 2010.
28. **Feng, Changjian**; Kirk, Martin L.; Astashkin, Andrei V.; Fan, Weihong; Elmore, Bradley O.; Sempombe, Joseph; Fan, Weihong. "Innovative probes of interdomain interactions in the NOS output state for NO production", *Gordon Research Conference on Metals in Biology*, Ventura, CA, January 31 - February 5, 2010.
29. Elmore, Bradley O.; Fan, Weihong; Sempombe, Joseph; Kirk, Martin L.; **Feng, Changjian**. "Pulsed EPR determination of the distance between redox centers in nitric oxide synthase." *2010 College of Pharmacy Research Retreat Poster*, Albuquerque, NM, Jan 11, 2010 (presented by post-doc mentee Bradley Elmore). Research Award/Best poster by a post-doc/fellow/resident.
30. **Feng, Changjian**; Ghosh, Dipak K.; Guillemette, J. Guy. "Intraprotein electron transfer in an inducible nitric oxide synthase construct coexpressed with N-terminal domains of calmodulin." *Gordon Research Conference on Metals in Biology*, Ventura, CA, Jan 25-30, 2009.
31. **Feng, Changjian**; Ghosh, Dipak K.; Salerno, John C.; Guillemette, J. Guy. "Electron transfer in an inducible nitric oxide synthase coexpressed with N-terminal domains of calmodulin." *Fifth International Conference Biology, Chemistry and Therapeutic Applications of Nitric Oxide*, Festspielhaus Bregenz, Austria, August 24 - 28, 2008.
32. **Feng, Changjian**; Linda, Roman; Tollin, Gordon; Bettie Sue S. Masters. "The role of the autoregulatory insert information of the output state of neuronal nitric oxide synthase." *Gordon Research Conference on Metals in Biology*, Ventura, CA, Jan 27-31, 2008.

33. Enemark, John H.; Astashkin, Andrei V.; Raitsimring, Arnold M.; Klein, Eric L.; Johnson-Winters, Kayunta; **Feng, Changjian**. "Variable frequency pulsed EPR studies of oxo-molybdenum centers in enzymes and model compounds." *Abstracts of Papers, 233rd ACS National Meeting*, Chicago, IL, March 25-29, 2007.
34. **Feng, Changjian**; Tollin, Gordon; Salerno, John C.; Ghosh, Dipak K. "Direct measurement by laser flash photolysis of intramolecular electron transfer in a nitric oxide synthase holoenzyme." *Gordon Research Conference on Nitric Oxide*, Ventura, CA, February 4-9, 2007.
35. Salerno, John C.; Smith, Susan M. E.; Ghosh, Dipak K.; Guillemette, Guy; **Feng, Changjian**. "NOS electron transfer kinetics: ligand restricted conformational shuttle and a comparison of experimental viewpoints." *Gordon Research Conference on Nitric Oxide*, Ventura, CA, February 4-9, 2007.
36. Enemark, John H.; Astashkin, Andrei V.; **Feng, Changjian**; Kappler, Ulrike; Raitsimring, Arnold M.; Neese, Frank; Bultman, Eric; Cooney, J. Jon A. "Pulsed EPR investigations of the molybdenum centers of sulfite oxidizing enzymes and related model compounds." *Abstracts of Papers, 231st ACS National Meeting*, Atlanta, GA, March 26-30, 2006.
37. **Feng, Changjian**; Tollin, Gordon; Salerno, John C.; Ghosh, Dipak K. "Direct measurement by laser flash photolysis of intramolecular electron transfer in two-domain constructs of nitric oxide synthase." *4th International Conference: Biology, Chemistry, & Therapeutic Applications of Nitric Oxide*, Monterey, CA, June 25 -29, 2006.
38. Enemark, John H.; Astashkin, Andrei V.; **Feng, Changjian**; Kappler, Ulrike; Raitsimring, Arnold M.; Neese, Frank; Bultman, Eric; Cooney, J. Jon A. "Pulsed EPR investigations of the molybdenum centers of sulfite oxidizing enzymes and related model compounds." *Abstracts of Papers, 231st ACS National Meeting*, Atlanta, GA, United States, March 26-30, 2006.
39. **Feng, Changjian**; Wilson, Heather L.; Tollin, Gordon; Astashkin, Andrei V.; Rajagopalan, K.V.; Enemark, John H. "Essential role of conserved glycine 473 and alanine 208 in controlling the rate of intramolecular electron transfer in human sulfite oxidase." *Abstracts of Papers, 229th ACS National Meeting*, San Diego, CA, United States, March 13-17, 2005, INOR-547.
40. John Enemark, Andrei V. Astashkin, **Changjian Feng**, Arnold M. Raitsimring. "Active site structure of sulfite oxidase from 17O couplings in pulsed EPR spectra." *36th International Conference on Coordination Chemistry*, Merida-Yucatan, Mexico, July 18-23, 2004.
41. **Changjian Feng**, Heather Wilson, Gordon Tollin, K. V. Rajagopalan, John H. Enemark, John K. Hurley, James T. Hazzard. "The Roles of Specific Amino Acids in the Function of Sulfite Oxidase: Flash Photolysis Studies on Electron Transfer in Sulfite Oxidase". *The 3rd Molybdenum and Tungsten Enzymes Gordon Research Conference*, Meriden, NH, June 29-July 4, 2003.
42. John H. Enemark, Andrei V. Astashkin, Arnold M. Raitsimring, **Changjian Feng**, Heather L. Wilson, K. V. Rajagopalan. "Variable Frequency Pulsed EPR Studies of Molybdenum Enzymes". *Journal of Inorganic Biochemistry* 96 (2003), 56, *Abstracts of the 11th International Conference on Biological Inorganic Chemistry*, Cairns, Australia, 19-23 July 2003.
43. John H. Enemark, Andrei V. Astashkin, Arnold M. Raitsimring, **Changjian Feng**, Jean L. Johnson, Kimberley E. Johnson, K. V. Rajagopalan. "Variable frequency pulsed EPR studies of the molybdenum centers of sulfite oxidase and DMSO reductase". In *Abstracts: the 35th International Conference on Coordination Chemistry*. Heidelberg, Germany July 21 - 26, 2002.
44. A. M. Raitsimring, A. V. Astashkin, **C. Feng**, J. H. Enemark, K. E. Johnson, and K. V. Rajagopalan. "Pulsed EPR studies of the exchangeable proton at the Molybdenum center of DMSO reductase". In *Abstracts of 25th International EPR Symposium*, Denver, CO, July 28 - August 1, 2002.
45. Kedia R., **Feng C. J.**, Hazzard J. T., Tollin G., Enemark J. H. "Effect of viscosity on intramolecular electron transfer in sulfite oxidase". *Abstracts of Papers of the American Chemical Society*, 221: 538-INOR Part 1, APR 1, 2001.

46. **Feng, Changjian**; Wang, Guoping; Chen, Deyu; Xu, Duanjun; Xu, Yuanzhi. "An EPR study on a binuclear copper(II) diethylenetriamine complex bridged through a centrosymmetric 1,3- μ -thiocyanato group". *Proceedings of the 2nd Asia-Pacific EPR/ESR Symposium*, CE65, Hangzhou, China, October 31-November 4, 1999.

TEACHING ACTIVITIES

Spring Semester

Professional curriculum:

- Phrm 811** (2018-) Introduction to Pharmacology and Medicinal Chemistry (5 credit hours); lectures on biopharmaceutical properties of drugs, pKa and ionization, chirality, drug-receptor interactions, cholinomimetics, anticholinesterases, acetylcholine antagonists, and adrenergic agonists
- Phrm 710** (2006-2017) Mechanisms of Drug Action I (5 credit hours); lectures on biopharmaceutical properties of drugs, pKa and ionization, chirality, drug-receptor interactions, cholinomimetics, anticholinesterases, acetylcholine antagonists, and OTC drugs
- Phrm 732** (2006-2017) Mechanisms of Drug Action III (5 credit hours); lectures on steroids

Graduate courses:

- Phrm 593** (2016, 2009), Pharmaceutical Sciences Seminar Course, **Instructor of Record (IOR)**
- Phrm 576** (2012, 2013, 2015), Introductory Pharmacology; **IOR** (2015, 2018, 2019)
- Phrm 576** (2018), Molecular and Cellular Pharmacology (graduate pharmacology course); **IOR**
- Phrm 580** (2012, 2013, 2015), General Toxicology
- Phrm 598** (2011), Cancer Pharmacology

Fall Semester

Professional curriculum:

- Phrm 801** (2017-) Applied Biochemistry (3 credit hours); lectures on P450 enzymes
- Phrm 820** (2017-2020) Integrated Pharmacotherapy 1 (3 credit hours); lectures on diuretics and COPD drugs
- Phrm 825** (2017-2020) Integrated Pharmacotherapy 2 (2 credit hours); lectures on antidiabetics and estrogen/progestin agonists
- Phrm 731** (2006-2016) Mechanisms of Drug Action II (5 credit hours; **IOR of 2010**); lectures on diuretics and NO-related drugs
- Phrm 706** (2006-2016) Foundations of Drug Action (3 credit hours); lectures on P450 enzymes

Graduate courses:

- Phrm 576** (2020, 2019, 2018, 2010, 2011), Molecular and Cellular Pharmacology (graduate pharmacology course)
- Chem 537** (2010), Bioinorganic Pathways, guest lecture "Nitric Oxide Synthase" (chemistry graduate course; Nov. 4, 2010)

ACADEMIC SERVICE

College of Pharmacy, University of New Mexico

- Chair, Research & Scholarship Committee (2020-)
- Assessment Committee (2020-)
- Ad hoc PharmD/MS Admission Committee (2019)
- Acting Chair, Research & Scholarship Committee (2019)
- Vice Chair, Research & Scholarship Committee (2018)
- Research & Scholarship Committee (2016-)

Co-Chair of Curriculum and Learning Assessment Committee (2015-)
Review Committee for Research Track Faculty (2019, 2015)
HR Administrator 1 Screening Committee (2014)
Search Committee for Department Administrator (2012)
Scholarship and Awards Committee (2006-2008, 2011, 2012)
Organizational Planning and Evaluation Committee (2010-2014)
Hip Hip Hooray Award Committee (2010-2011)
Scholastic Achievement and Progression Committee (2008-2011)
Search Committee for Senior Medicinal Chemistry Faculty (2007)

Health Sciences Center, University of New Mexico

Research Leadership/Senior Associate Deans for Research Team (2022-)
HSC Space Committee (2022-)
Shared Facility Assessment Team (2022)
Biostatistics Support for HSC Work Group (2021)
Biostatistics Curriculum Sub-committee (2021)
HSC Committee to review HSLIC faculty's dossier for promotion to full professor (2021)
UNM HSC Shared Equipment review committee (2021)
College of Nursing HS Associate Scientist search committee (2021)
UNM Center of Metals in Biology and Medicine (CMBM) Research Science Manager search committee (2020)
UNM CMBM Program Manager search committee (2020)
UNM HSC Shared Equipment review committee (2020)
Health Sciences Library and Informatics Center (HSLIC) Executive Director search committee (2019-2020)
College of Nursing HS Associate Scientist search committee (2020)
College of Nursing tenure-track junior faculty search committee (2019-2020)
College of Nursing tenure-track senior faculty search committee (2019-2020)
UNM HSC Shared Equipment review committee (2019)
Biomedical Sciences Graduate Program (BSGP) Curriculum Committee as a BSGP Core Course Director (2018-)
Judge for CVMD Research Day posters (April 1, 2014)
COP representative in a task force to address faculty satisfaction issues related to the HR office (2011-2012)
Ad hoc member of BSGP Admission Sub-Committee (2012)
BSGP Steering Committee (2009-2011)
BSGP Qualifying Exam Committee (2009-2011)
BSGP Admission Sub-Committee (2009-2011)
BSGP Student Progression Subcommittee (2010-2011)

American Chemical Society

Secretary, Central New Mexico Local Section (2011-2014)
Executive Committee, Central New Mexico Local Section (2010-2014)
Interim Secretary, Central New Mexico Local Section (2010)

University of New Mexico

Faculty Senate Graduate and Professional Education (2011-2013)

Department of Chemistry and Chemical Biology, University of New Mexico

Mentoring Committee for Dr. Chad Melancon at University of New Mexico Department of Chemistry and Chemical Biology (2015)

Search Committee for Organic Chemistry Faculty (2010-2011)

Qualifying Exam Committee (Students in Biomedical Science Graduate Program, University of New Mexico)

Jason Rogers (May 26, 2010)

Chen Chen (May 28, 2009)

Russell Carter (May 27, 2009)

Sonya Flores (May 22, 2009)

Marissa Durfee (May 21, 2009)

Doctoral Candidate Committees

Doctoral Dissertation Committee for Ranjana Dangi at Department of Chemistry and Chemical Biology, UNM (June 20, 2022)

(Advisor: Martin Kirk)

Doctoral Dissertation Committee for Jun Chen at Department of Chemistry and Chemical Biology, UNM (April 4, 2022)

(Advisor: Martin Kirk)

Doctoral Dissertation Committee for Hyeoncheol Kim at Department of Chemistry and Chemical Biology, UNM (March 24, 2022)

(Advisor: Xiang Xue)

Research Proposal Committee for Mark Feliciano at Department of Chemistry and Chemical Biology, UNM (October 27, 2021)

(Advisor: Brian Gold)

Doctoral Dissertation Committee for Kunlun Yin at Department of Chemistry and Chemical Biology, UNM (September 21, 2021)

(Advisor: Xiang Xue)

Doctoral Dissertation Committee for Amrit Pokhrel at Department of Chemistry and Chemical Biology, UNM (June 23, 2021)

(Advisor: Martin Kirk)

Research Proposal Committee for Philip Deenik at Department of Chemistry and Chemical Biology, UNM (December 4, 2019)

(Advisor: Mark Walker)

Doctoral Dissertation Committee for Prakash Basnet at Department of Chemistry and Chemical Biology, UNM (November 9, 2018)

(Advisor: Ramesh Giri)

Doctoral Dissertation Committee for Yongyi Wei at Department of Chemistry and Chemical Biology, UNM (November 6, 2018)

(Advisor: Wei Wang)

Doctoral Dissertation Committee for Xuechen Zhu at Department of Chemistry and Chemical Biology, UNM (April 2, 2018)

(Advisor: Chad Melancon)

Ph.D. Comp Exam Committee for Li Wan at Department of Chemistry and Chemical Biology, UNM (December 13, 2017)

(Advisor: Wei Wang)

Ph.D. Comp Exam Committee for Kunlun Yin at Department of Chemistry and Chemical Biology, UNM (December 13, 2017)

(Advisor: Lina Cui)

Doctoral Dissertation Committee for Guihua Zeng at Department of Chemistry and Chemical Biology, UNM (November 9, 2017)

(Advisor: Fu-Sen Liang)

Doctoral Dissertation Committee for Dominic Kofl Kersi at Department of Chemistry and Chemical Biology, UNM (September 18, 2017)

(Advisor: Martin Kirk)

Doctoral Dissertation Committee for Wubin Gao at Department of Chemistry and Chemical Biology, UNM (July 7, 2017)

(Advisor: Chad Melancon)

Ph.D. Comp Exam Committee for Huayu Zheng at Department of Chemistry and Chemical Biology, UNM (May 2, 2017)

(Advisor: Changjian Feng)

Ph.D. Comp Exam Committee for Yueten Zhang at Department of Chemistry and Chemical Biology, UNM (April 25, 2017)

(Advisor: Wei Wang)

Doctoral Dissertation Committee for Keda Hu at Department of Chemistry and Chemical Biology, UNM (April 12, 2017)

(Advisor: Yang Qin)

Doctoral Dissertation Committee for Chenguang Yu at Department of Chemistry and Chemical Biology, UNM (May 10, 2016)

(Advisor: Wei Wang)

Ph.D. Comp Exam Committee for Xuechen Zhu at Department of Chemistry and Chemical Biology, UNM (April 26, 2016)

(Advisor: Chad Melancon)

Ph.D. Comp Exam Committee for Wubin Gao at Department of Chemistry and Chemical Biology, UNM (April 20, 2016)

(Advisor: Chad Melancon)

Ph.D. Comp Exam Committee for Yongyi Wei at Department of Chemistry and Chemical Biology, UNM (December 4, 2015)

(Advisor: Wei Wang)

Doctoral Dissertation Committee for Xiaobei Chen at Department of Chemistry and Chemical Biology, UNM (November 25, 2014)

(Advisor: Wei Wang)

Doctoral Dissertation Committee for Aiguo Song at Department of Chemistry and Chemical Biology, UNM (April 24, 2014)

(Advisor: Wei Wang)

Doctoral Dissertation Committee for Adam Flook at Department of Pharmaceutical Sciences, College of Pharmacy, UNM (March 17, 2014)

(Advisor: Yubin Miao)

Doctoral Dissertation Committee for Yanting Cao at Department of Chemistry and Chemical Biology, UNM (January 30, 2014)

(Advisor: Wei Wang)

Doctoral Dissertation Committee for Weimin Xuan at Department of Chemistry and Chemical Biology, UNM (May 7, 2013)

(Advisor: Wei Wang)

Ph.D. Comp Exam Committee for Adam Flook at Department of Pharmaceutical Sciences, College of Pharmacy, UNM (December 6, 2012)

(Advisor: Yubin Miao)

Committee on Studies for Adam Flook at Department of Pharmaceutical Sciences, College of Pharmacy, UNM (August 31, 2012)

(Advisor: Yubin Miao)

Research Progress Committee for Xiaobei Chen at Department of Chemistry and Chemical Biology, UNM (May 23, 2012)

(Advisor: Wei Wang)

Doctoral Dissertation Committee for Xin Shuai Zhang at Department of Chemistry and Chemical Biology, UNM (April 11, 2012)

(Advisor: Wei Wang)

Doctoral Dissertation Committee for Xixi Song at Department of Chemistry and Chemical Biology, UNM (April 3, 2012)

(Advisor: Wei Wang)

Dissertation committee for Jennifer Buntz at College of Pharmacy, University of New Mexico (UNM)

(Advisor: Matt Campen)

Ph.D. Comp Exam Committee for Aiguo Song at Department of Chemistry and Chemical Biology, UNM (April 21, 2011)

(Advisor: Wei Wang)

Doctoral Dissertation Committee for Regina Peter Mtei at Department of Chemistry and Chemical Biology, UNM (March 23, 2011)

(Advisor, Martin Kirk).

Doctoral Dissertation Committee for Joseph Sempombe at Department of Chemistry and Chemical Biology, UNM (March 18, 2011)

(Advisor, Martin Kirk).

Research Committee for Lidong Wang at Department of Chemistry and Chemical Biology, UNM

(Advisor, Hua Guo)

Research Committee for Chao Dong at Department of Chemistry and Chemical Biology, UNM

(Advisor, Martin Kirk).

Doctoral Dissertation Committee for Dominic Kofi Kersi at Department of Chemistry and Chemical Biology, UNM

(Advisor, Martin Kirk).

Doctoral Dissertation Committee for Jian Wang at Department of Chemistry and Chemical Biology, UNM

(Advisor, Wei Wang).

Doctoral Dissertation Committee for Jiwen Zou at Department of Chemistry and Chemical Biology, UNM

(Advisor: Patrick S. Mariano)

Doctoral Dissertation Committee for Antonio Williams at Department of Chemistry and Chemical Biology, UNM

(Advisor: Martin Kirk)

Research Committee for graduate student Jian Wang at Department of Chemistry and Chemical Biology, UNM

(Advisor, Wei Wang).

Research Committee for graduate student Liansuo Zu in Department of Chemistry and Chemical Biology, UNM (Advisor, Wei Wang).

Research Committee for graduate student Hexin Xie in Department of Chemistry and Chemical Biology, UNM (Advisor, Wei Wang).

Research Committee for graduate student Hao Li at Department of Chemistry and Chemical Biology, UNM (Advisor, Wei Wang).

Research Committee for graduate student Wei Jiang at Department of Chemistry and Chemical Biology, UNM (Advisor, Wei Wang).

COMMUNITY SERVICE

Secretary, National Council officer, Chinese Institute of Engineers (2021-)

Treasurer, National Council officer, Chinese Institute of Engineers (2018-2020)

President, Association of Chinese-American Engineers and Scientists of New Mexico (2018)

Vice President, Association of Chinese-American Engineers and Scientists of New Mexico (2017)

Outstanding School Contributions Award, Chinese School Association in the United States (2013-2014)

Principal and Board Member, NM New Mexico Chinese School of Arts & Language (2013-2015)

Vice Principal and Board Member, NM New Mexico Chinese School of Arts & Language (2012)