CURRICULUM VITAE

Changjian "Jim" Feng, Ph.D.

CURRENT POSITION

Professor of Pharmaceutical Sciences
Assistant Dean for Basic Science Research
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, Dept. of Chemistry, Zhejiang University, 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

We are an energetic group of biological and physical chemists interested in developing and applying new spectroscopic, structural, and genetic code expansion approaches to decipher the molecular biophysics of large, complex proteins. Proteins are dynamic biomolecules. Characterizing the protein dynamics and domain motions within large, complex multidomain enzymes is a frontier challenge for understanding electron transfer and regulation mechanisms. My lab focuses on the central question of how Nature has optimized protein dynamics to promote electron transfer. This question forms my life's work and is a source of endless fascination for me.

I have been at the forefront of applying and expanding multidisciplinary approaches across the broad fields of chemistry/biochemistry and biophysics to advance the fundamental understanding of modular proteins. I have made enduring contributions to elucidating the regulatory mechanisms of modular redox proteins (e.g., sulfite oxidizing enzymes and NOSs) by delineating dynamic interface and domain motions. Our niche is expanding quantitative methods integral to physics and chemistry to address challenging mechanistic questions. *We have offered deeper insights into the reaction mechanisms of NOS that represent a major advance in the field.* 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

I have contributed meaningful time and effort toward ensuring the successful growth and development of others. I have committed to training and mentoring at all levels. I have been on the graduate dissertation/thesis committees of over 40 Ph.D. students. I have directly mentored 7 post-docs, 9 tenure- and research-track faculty in two colleges (College of Pharmacy and College of Arts and Science), 3 Ph.D. students, 10 undergraduate students, and 3 high school students; most of them are underrepresented minorities and/or women.

Mentoring of tenure track faculty. I mentored Dr. Chad Melancon at the UNM Department of Chemistry and Chemical Biology (CCB) through a mentoring committee formally appointed by their Department Chair. I also formally mentored Dr. Yang Qin at the UNM CCB Department, and Dr. Gayan Rubasinghege at New Mexico Tech; both were NM-INBRE investigators. NM-INBRE is an NIH-funded statewide competitive faculty career and science development program that emphasizes the maturation of research projects into comprehensive research programs.

SIGNIFICANT SERVICE AND CONTRIBUTIONS TO THE RESEARCH COMMUNITY

My expertise has been recognized further by my service on numerous grant review panels, national and international, and by serving as a peer reviewer for more than 30 journals. I was elected to chair the Biochemistry of Living Systems Committee for the French Agency of National Research (**ANR**) in 2017; the ANR Committee in France is equivalent to an NIH study section in the US. The ANR Committee Chair is a force for initiatives to continuously improve assessment and selection procedures. I also served as a Special Issue Editor for "Nitric Oxide: Chemistry and Biology" for *Frontier in Biosciences*. All of this speaks to my significant service to the scientific community.

Besides my own research program, I founded the UNM Integrative Molecular Analysis Core (IMAC) in a team-science role. I have brought together a complex array of technologies in the IMAC to serve the needs of the P20 Center for Metals in Biology in Medicine and the P30 Center for NM-INSPIRES, including mass spec instrumentation (ICP-MS, LC-MS/MS, and GC-MS), electron paramagnetic resonance instrumentation, and systems designed to characterize particulate size, shape, and composition for *in vivo* and *in vitro* exposure systems. I have been intimately involved in the development of the current ICP-MS facility that is focused on sensitive metal analysis in biospecimens. In this role, I have been working closely with the CDC and New Mexico Scientific Laboratory to ensure the QA/QC - a fundamental resource on which the IMAC is built - is achieved from the outset.

The College and the HSC have benefited greatly from my multidisciplinary research approach and broad knowledge and expertise in bioanalytical chemistry and biophysics. My strengths in these areas were pivotal in the successful Center of Biomedical Research Excellence grant awarded in 2020 and the NIEHS P30 Center awarded in 2022. I serve as faculty Director and PI of the core facility for both Centers as well as providing direct guidance to faculty investigators and trainees on analytical techniques. These Centers and services provided by the IMAC facility represent an outstanding expansion of our research capabilities in the College and the HSC. I am also a liaison to scientists, educators, and students outside of the College. I have particularly strong ties to our main campus Department of Chemistry, as well as to New Mexico Tech and New Mexico State University. In my role as the Assistant Dean for Basic Science Research, I lead efforts to support and expand the College's research infrastructure and oversee the management and expansion of major research instrumentation. *All of this allows me to pull expertise from additional sources of talented researchers and foster more collaborations across disciplines.*

MEMBERSHIPS

American Chemical Society and its Inorganic Division and Bioinorganic Subdivision
American Society for Mass Spectrometry
Biophysical Society
Nitric Oxide Society
Society of Biological Inorganic Chemistry

JOURNAL REFEREE ACTIVITIES

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

GRANT REFEREE ACTIVITIES

NSF Molecular Biophysics Advisory Panel (2023)

Reviewer for Innovative Projects Award with the American Heart Association (2023)

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 the University of Wisconsin (2009)

OTHER PROFESSIONAL ACTIVITIES

Topical Advisory Board, *Biomolecules* (2021-present)
Editorial Board, *Frontier in Biosciences* (2017-present)
Editorial Managing Editorial Board, *Frontier in Biosciences* (2014-present)
Editor, Special issue "*Nitric Oxide Synthase: Structure, Function and Regulation*", *Biomolecules* (2023)

Editor, Special issue "*Nitric Oxide: Chemistry and Biology*", *Frontier in Biosciences* (2018)

GRANT FUNDING

I have been obtaining substantial and sustained peer-reviewed external research grants during the entire time that I have been at UNM. My laboratory has been continuously funded, primarily through NIH funding, totaling over $8.5 million. I also constantly received funding from NSF, AHA, and PhRMA Foundation. The NSF award is equivalent to an R01, as it is a research grant, investigator-initiated, and awarded after a rigorous peer review process similar to that for an R01. *The wide variety of agencies that have funded my work attests not only to its importance across a wide range of disciplines but also to my tireless and continuing efforts to obtain funding.* My success at bringing in grants is remarkable given the difficult fiscal conditions that have prevailed during much of the time that I have as an independent researcher.

Besides my own research programs, I also direct the Integrative Molecular Analysis Core in a team-science role and serve as the PI of the sub-projects in the two center grants. Importantly, I have been using the IMAC as a platform to launch applications for new state-of-the-art equipment (via both internal and external funding opportunities). This unique new bioanalytical core enables exciting collaborations and innovative approaches. For example, metal speciation by LC ICP-MS is not currently available through any of the existing Cores at UNM HSC and must be performed out of state. The new ICP-QQQ (through the HSC shared equipment grant) will allow for high throughout metal speciation analysis at the UNM and the region.

RESEARCH SUPPORT: CURRENT (totaling $5,449,301)

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: COBRE Sub-project Principal Investigator

4. 1P30ES032755-01A1 (sub-project ID 8696) 08/25/2022 – 03/31/2023 $244,218
   BioAnalytical Chemistry Core, New Mexico Integrative Science Program Incorporating Research in Environmental Sciences (NM-INSPIRES)

   Adding considerable value to environmental health research at the University by leveraging existing institutional and NIH investments in research infrastructure to achieve the goals of our NM-INSPIRES research team.

   Role: Sub-project Principal Investigator

5. NIGMS R01 GM133973-03S1 08/01/2021 – 05/31/2022 $89,124
   Supplement to Defining the Conformational Control of Nitric Oxide Synthases by a Multipronged Approach

   Acquiring an Infrared Fourier Spectrometer VERTEX 80 for protein IR spectroscopic studies.

   Role: Principal Investigator

6. UNM HSC Research Equipment Award $184,757
Triple quadrupole ICP-MS for high-sensitivity elemental analysis in the context of single-cell, laser ablation imaging, and metal speciation analysis
Role: Principal Investigator

7. UNM HSC Renovation Award $248,115
Lab Renovation for the UNM CMBM Integrative Molecular Analysis Core
Role: Principal Investigator

RESEARCH SUPPORT: COMPLETED

EXTRAMURAL FUNDING (totaling $3,102,073)

1. 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

2. 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

3. 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

4. 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

5. 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

6. 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

7. 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

8. 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

9. 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 the mechanism of NOS regulation through determining electron transfer kinetics in the NOS output state of full-length NOS isoforms.

Role: Principal Investigator

10. 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

11. NIGMS 3R15GM081811-01S1 09/01/2007 – 07/31/2010 $24,972
Upgrade of a laser flash photolysis spectrometer to spectral mode

Role: Principal Investigator

12. 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

1. 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

2. UNM COP Research Pilot Award 01/01/2020 – 12/31/2020 $15,000
Investigating phosphoserine-incorporated nitric oxide synthases
Role: Principal Investigator

3. 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

4. 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

5. 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, H_2O_2, and H_2S).

Role: Principal Investigator

6. 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

7. 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

100 papers have been published in highly respected, high-quality subspecialty journals. Notably, I published 10 articles in the *Journal of the American Chemical Society*, the flagship journal of the American Chemical Society and the world's preeminent journal in all of chemistry and interfacing areas of science. Its impact factor is 16.383 (2021).

*** Corresponding author**.

A. From Research Conducted at the University of New Mexico

1. Tumbic, Goran W.; Li, Jinghui; Jiang, Ting; Hossan, Md Yeathad; **Feng, Changjian***; Thielges, Megan C.* (2022) Interdomain interactions modulate the active site dynamics of human inducible nitric oxide synthase. *J. Phys. Chem. B* 126, 36, 6811–6819.
2. 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.
3. Zheng, Huayu; Weaver, John M.; **Feng, Changjian***. (2021) Heat shock protein 90α increases superoxide generation from neuronal nitric oxide synthases. *J. Inorg. Biochem.* 214, 11298.
4. 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.
5. 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.
6. Yang, Rui; Fang, Xiu-Lin Fang; Zhen, Qin; Chen, Qiu-Yun Chen; **Feng, Changjian**. (2019) Mitochondrial targeting nano-curcumin for attenuation on PKM2 and FASN. *Colloids and Surfaces B: Biointerfaces* 182, 11405.
7. 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.
8. 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.
9. 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.
10. 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.
11. 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.
12. 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.
13. Li, Jinghui; Zheng, Huayu; **Feng, Changjian***. (2018) Deciphering mechanism of conformationally controlled electron transfer in nitric oxide synthases. *Front. Biosci.* 23, 1803-1821.
14. 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.

15. Xu, Jingli; **Feng, Changjian**; Miao, Yubin. (2017) Evaluation of novel ^{111}In-labeled gonadotropin-releasing hormone peptides for human prostate cancer imaging, *Bioorg. Med. Chem. Lett.* 27, 4647–4651.

16. 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.

17. 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.

18. 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.

19. 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.

20. Wang, Yin-Bing; Qu, Ling-Ling; Chen, Qiu-Yun Chen; **Feng, Chang-Jian**. (2016) Light-driven charge transfer in nano-Fe(III) complexes facilitates the oxidation of water, *New J. Chem.*, 40, 6053-6058.

21. 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 H_2O_2 enhanced anticancer agent, *J. Inorg. Biochem.* 159, 1-6.

22. 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.

23. 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.

24. 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.

25. 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.

26. 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.

27. 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.

28. **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.

29. 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.

30. 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.

31. 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.

32. 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.

33. 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.

34. **Feng, Changjian***. (2012) Mechanism of nitric oxide synthase regulation: Electron transfer and interdomain interactions, *Coord. Chem. Rev. 256*, 393-411.

35. **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.

36. 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.

37. 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.

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C. From Research Conducted at Zhejiang University

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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

I have been invited to give oral presentations at international conferences and seminars at departments around the country. All of this speaks for national recognition of my research and scholarship.

1. "Conformations and dynamics of nitric oxide synthases via site-specific infrared spectroscopy", Novel Heme Proteins and Model Systems (#242) Pacifichem conference, Dec. 19, 2021.
2. "Deciphering the conformational dynamics of NO synthases", *Department of Chemistry and Chemical Biology, the 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", *Pacifichem 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. Jinghui Li, Huayu Zheng, Yadav Gyawali, Ting Jiang, Goran W. Tumbic, Gregory S. Bukowski, Megan Thielges, Changjian Feng. "Defining the conformations and dynamics of the nitric oxide synthase proteins via site-specific infrared spectroscopy", *2023 Gordon Research Conference on Nitric Oxide,* Ventura, CA, February 12-16, 2023.

2. 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.

3. 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.

4. 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.

5. 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.

6. 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.

7. 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.

8. 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.

9. **Feng, Changjian**. "Deciphering conformational dynamics in nitric oxide synthases", *Gordon Research Conference on Nitric Oxide*, Ventura, CA, February 15-20, 2015.

10. **Feng, Changjian**. "Elucidating conformational dynamics in nitric oxide synthases", *Gordon Research Conference on Metals in Biology*, Ventura, CA, January 25 - 30, 2015.

11. **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.

12. 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.

13. 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.

14. **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.

15. 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.

16. 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.

17. **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.

18. 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).

19. 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.

20. 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.

21. **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.

22. 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).

23. 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).

24. 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).

25. **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.

26. **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.

27. 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).

28. **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.

29. **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.

30. 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.

31. **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.

32. **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.

33. **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.

34. 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.

35. **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.

36. 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.

37. 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.

38. **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.

39. 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.

40. **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.

41. 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.

42. **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.

43. 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.

44. 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.

45. 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.

46. 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.

47. **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 711 (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 (2022, 2016, 2009), *Pharmaceutical Sciences Seminar Course*, **Instructor of Record (IOR)**
Phrm 576 (2012, 2013, 2015), *Introductory Pharmacology*; **IOR** (2015, 2018, 2019)
Phrm 576 (2018-2020), *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:

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

Dean's Executive Leadership Committee (2022-)

Chair, Research & Scholarship Committee (2020-2022)

Co-Chair, Research & Scholarship Committee (2023-)

Assessment Committee (2020-)
Graduate Affairs Committee (2022-)
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 the Curriculum and Learning Assessment Committee (2015-2019)
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

Chair, UNM HSC Shared Facility Assessment Team (2022)
Research Strategic Planning Committee (2022-)
Research Leadership/Senior Associate Deans for Research (2022-)
Top Slice Committee (2022-)
HSC Space Committee (2022-)
Research Administration Forum and Training Steering Committee (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 the 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 the Department of Chemistry and Chemical Biology, UNM (March 24, 2022)
(Advisor: Xiang Xue)

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

Doctoral Dissertation Committee for Kunlun Yin at the 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 the 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 the Department of Chemistry and Chemical Biology, UNM (November 6, 2018)
(Advisor: Wei Wang)

Doctoral Dissertation Committee for Xuechen Zhu at the 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 the Department of Chemistry and Chemical Biology, UNM (May 10, 2016)
(Advisor: Wei Wang)

Ph.D. Comp Exam Committee for Xuechen Zhu at the 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 the Department of Chemistry and Chemical Biology, UNM (December 4, 2015)
(Advisor: Wei Wang)

Doctoral Dissertation Committee for Xiaobei Chen at the 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 the Department of Chemistry and Chemical Biology, UNM

(Advisor, Hua Guo)

Research Committee for Chao Dong at the Department of Chemistry and Chemical Biology, UNM
(Advisor, Martin Kirk).

Doctoral Dissertation Committee for Dominic Kofi Kersi at the Department of Chemistry and Chemical Biology, UNM
(Advisor, Martin Kirk).

Doctoral Dissertation Committee for Jian Wang at the Department of Chemistry and Chemical Biology, UNM
(Advisor, Wei Wang).

Doctoral Dissertation Committee for Jiwen Zou at the Department of Chemistry and Chemical Biology, UNM
(Advisor: Patrick S. Mariano)

Doctoral Dissertation Committee for Antonio Williams at the Department of Chemistry and Chemical Biology, UNM
(Advisor: Martin Kirk)

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

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

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

Research Committee for graduate student Hao Li at the Department of Chemistry and Chemical Biology, UNM

(Advisor, Wei Wang).

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

Community Service

Principal, New Mexico Chinese School of Arts & Language (2022-2023)

Secretary, National Council officer, Chinese Institute of Engineers (2021-2022)

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, New Mexico Chinese School of Arts & Language (2013-2015)

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