Li Fan

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Education:

Michigan State University, East Lansing, Michigan, *Ph. D. in Biochemistry*, 2000.
Bowling Green State University, Bowling Green, Ohio, *M. S. in Chemistry*, 1993.
Beijing University, Beijing, China, *B. S. in Chemistry*, 1987.

Professional Experience:

University of California at Riverside, Department of Biochemistry, Riverside, California

Professor	2021-Present
Associate Professor	2016-2021
Assistant Professor	2009- 2016
Director of Macromolecular X-ray crystallography core facility	2009-present

The Scripps Research Institute, Department of Molecular Biology, La Jolla, California

Senior Research Associate	2007- 2008
Research Associate	2000 – 2007

Publications (41 selected, H-index 21, i10-index 24, citations 1726)

Google Scholar:
https://scholar.google.com/citations?hl=en&user=X4U5gw8AAAAJ&sortby=pubdate&scilu=&scisig=AMD79ooAAAAAYjugqK6VoRBjIjzkWtTJ2MN3MKFBiuMh&gmla=AJsN-F6pqB9wJq3I09gdYU6KkCrV4LuRjJkfeMDWfTXsyXbQxCUMlTGr1w9ChWysZ361H9PSrepmVX4xOhBVyOeQoHUezSKNb99go_lo_bCirPxSC9OBYBk&sciund=8765132372337237031
NCBI MyBibliography:
http://www.ncbi.nlm.nih.gov/sites/myncbi/li.fan.3/bibliography/48826798/public/?sort=date&direction= descending

Review Articles (*corresponding author)

6. Duprez K and **Fan L*** (2018). **"**Structural Basis for S100B Interaction with its Target Proteins." J Mol Genet Med. 2018;12(3). pii: 366. doi: 10.4172/1747-0862.1000366. Epub 2018 Sep 10. PMID: 30854023.

5. Liu Y, Li P, **Fan L**, Wu M. (2018). "The nuclear transportation routes of membrane-bound transcription factors." Cell Commun Signal. 16(1):12. doi: 10.1186/s12964-018-0224-3. (impact factor: 5.111). PMID: 29615051.

4. Xu Z, Li P, **Fan L** and Wu M. (2018). "The Potential Role of circRNA in Tumor Immunity Regulation and Immunotherapy" Front Immunol. 2018 Jan 22:9.9. (impact factor: 4.716) PMID: 29403493. https://doi.org/10.3389/fimmu.2018.00009

3. **Li Fan*** and K. DuPrez (2015). "XPB: an unconventional SF2 DNA helicase" *Prog. Biophy. Mol. Biol.* 117(2-3):174-181. (Impact factor: 3.377). PMID: 25641424.
http://www.sciencedirect.com/science/article/pii/S0079610714001904

2. **Li Fan*** (2013). " How two helicases work together within the TFIIH complex: a perspective from structural studies of XPB and XPD helicases". *Frontier in Biology* 8(4): 363-368.
http://link.springer.com/article/10.1007/s11515-013-1259-x

1. J. J. Perry, **Li Fan**, and J. A. Tainer (2007). "Developing master keys to brain pathology, cancer and aging from the structural biology of proteins controlling reactive oxygen species and DNA repair." *Neuroscience* 145(4): 1289-1299.
http://www.sciencedirect.com/science/article/pii/S0306452206013893

Book Chapters (*corresponding author)
2. F. He, M. Bravo, and **Li Fan*.** "helicases required for nucleotide excision repair: structure, function and mechanism". ***The Enzyme***. In press

1. **Li Fan**, R. S. Williams, D. S. Shin, B. R. Chapados, and J. A. Tainer. (2007). "Master keys to DNA replication, repair, and recombination from the structural biology of enzymes from thermophiles". in **Thermophiles** edited by Frank Robb, Garo Antranikian, Arnold Driessen, and Dennis Grogan. CRC, Sept. 27, 2007.

Journal Articles (*corresponding author)
33. Y. K. Bosken, R. Ai, E. Hilario, R. K. Ghosh, M. F. Dunn, S-H. Kan, D. Niks, H. Zhou, W. Ma, L. J. Mueller, **Li Fan*,** C. A. Chang*. (2022). "Discovery of antimicrobial agent targeting tryptophan synthase". Protein Science 31 (2), 432-442.

32. Chen, Z., Xing, W., **Fan*, L**. (2021). "Chemical IN04 inhibits the kinase domain not the ROC domain of LRRK1: Results from homology modeling and molecular docking." J. Medicinal Chemistry. Medicinal Chemistry 17 (10), 1140-1150. (Impact factor: 2.764)

31. He, F., DuPrez, K., Hilario, E., Chen, Z., **Fan*, L.** (2020). "Structural basis of the XPB helicase-Bax1 nuclease complex interacting with DNA repair bubble." Nucleic Acids Research. 48 (20), 11695-11705. (Impact factor: 11.797)

30. E Hilario, **L Fan**, LJ Mueller, MF Dunn. (2020). "PCR mutagenesis, cloning, expression, fast protein purification protocols and crystallization of the wild type and mutant forms of tryptophan synthase". JoVE (Journal of Visualized Experiments), e61839

29. Hilario, E., De Keyser, S., **Fan*, L**. (2020). "Structural and biochemical characterization of a glutathione transferase from the citrus canker pathogen Xanthomonas." Acta Crystallographica Section D Structural Biology, 76(8), 778–789. (Impact factor: 5.266)
https://doi.org/10.1107/S2059798320009274

28. DuPrez, K., He, F., Chen, Z., Hilario, E., **Fan*, L**. (2020). "Structural basis of the XPB–Bax1 complex as a dynamic helicase–nuclease machinery for DNA repair." Nucleic Acids Research, 48(11), 6326–6339. (Impact factor: 11.797) https://doi.org/10.1093/nar/gkaa324

27. Sakhrani, V. V., Hilario, E., Caulkins, B. G., Hatcher-Skeers, M. E., **Fan, L**., Dunn, M. F., Mueller, L. J. (2020). "Backbone assignments and conformational dynamics in the S. typhimurium tryptophan synthase α-subunit from solution-state NMR". *Journal of Biomolecular NMR*, 74(6-7), 341–354. (Impact factor: 2.634) https://doi.org/10.1007/s10858-020-00320-2

26. Feng J, Zhang Y, She X, Sun Y, **Fan L**, Ren X, Fu H, Liu C, Li P, Zhao C, Liu Q, Liu Q, Li G, Wu M. (2019). "Hypermethylated gene ANKDD1A is a candidate tumor suppressor that interacts with FIH1 and decreases HIF1α stability to inhibit cell autophagy in the glioblastoma multiforme hypoxia microenvironment." *Oncogene*, 38(1):103-119. doi: 10.1038/s41388-018-0423-9. (Impact factor: 6.634). PMID: 30082910.

25. Liu C, Zhang Y, She X, **Fan L**, Li P, Feng J, Fu H, Liu Q, Liu Q, Zhao C, Sun Y, Wu M. (2018). "A cytoplasmic long noncoding RNA LINC00470 as a new AKT activator to mediate glioblastoma cell autophagy." *J Hematol Oncol.* 2018 Jun 4;11(1):77. doi: 10.1186/s13045-018-0619-z. (Impact factor: 8.731). PMID: 29866190.

24. B. Zhai, K. DuPrez, X. Han, Z. Yuan, S. Ahmad, C. Xu, L. Gu, J. Ni, **Li Fan***, Y. Shen* (2018). "The archaeal ATPase PINA interacts with the helicase Hjm via its carboxyl terminal KH domain remodeling and processing replication fork and Holliday junction." *Nuc. Acid. Res.* 46(13): 6627-6641. (Impact factor: 11.561). PMCID: PMC6061704.

23. Li P, Feng J, Liu Y, Liu Q, **Fan L**, Liu Q, She X, Liu C, Liu T, Zhao C, Wang W, Li G, Wu M. (2018). "Novel Therapy for Glioblastoma Multiforme by Restoring LRRC4 in Tumor Cells: LRRC4 Inhibits Tumor-Infitrating Regulatory T Cells by Cytokine and Programmed Cell Death 1-Containing Exosomes." *Front Immunol.* 2017 Dec 11;8:1748. doi: 10.3389/fimmu.2017.01748. eCollection 2017. (impact factor: 4.716). PMID: 29312296.

22. Kahanda, D., DuPrez, K., Hilario, E., McWilliams, M.A., **Fan*, L**., Slinker*, J.D. (2018) "Application of electrochemical devices to characterize the dynamic actions of helicases on DNA". *Analytic Chemistry*. 90(3): 2178-2185. (impact factor: 6.32). PMID: 29285929.

21. Jang, J.C., Jiang, L., Gambini, L., Batugedara, H.M., Sati, S., Lazar, M.A., **Fan, L.,** Pellecchia, M., Nair, M.G. (2017) "Human resistin protects against endotoxic shock by blocking LPS–TLR4 interaction." *Proc. Natl. Acad. Sci. U.S.A.* 114(48): E10399-E10408. doi: 10.1073/pnas.1716015114. (impact factor: 9.66). PMID: 29133417.

20. B. Zhai, K. Duprez, T. I. Doukov, J. Ni, L. Gu, Yulong Shen*, **Li Fan*** (2017). "Structure and function of a novel ATPase that interacts with Holliday junction resolvase Hjc and promotes branch migration". *J. Mol. Biol.* 429 (7): 1009-1029. http://doi.org/10.1016/j.jmb.2017.02.016. (impact factor: 4.517). PMID: 28238763

19. B. G. Caulkins, R. P. Young, R. A. Kudla, C. Yang, T. J. Bittbauer, B. Bastin, E. Hilario, **Li Fan**, M. J. Marsella, M. F. Dunn, and L. J. Mueller* (2016). "NMR Crystallography of a Carbanionic Intermediate in Tryptophan Synthase: Chemical Structure, Tautomerization, and Reaction Specificity". *J. Am. Chem. Soc.* 138 (46), 15214-15226. doi: 10.1021/jacs.6b08937. (impact factor: 13.038) PMID: 27779384.

18. K. DuPrez, M. Scranton, L. Walling*, and **Li Fan*** (2016). "Structure insights for the chaperone activity enhancement by mutation K354E in tomato acidic leucine aminopeptidase". *Acta Cryst.* D72: 694-702. doi:10.1107/S205979831600509X. (impact factor: 2.512). PMID: 27139632

17. E. Hilario, B. G. Caulkins, Y.M.M. Huang, Chang, Chia-en; M. F. Dunn*; L. J. Mueller*; **Li Fan*** (2016). "Visualizing the tunnel in tryptophan synthase with crystallography: Insights into a selective filter for accommodating indole and rejecting water" Biochim. Biophys. Acta - *Proteins and Proteomics* 1864 (3): 268-279. (Impact factor: 3.191). PMID: 26708480 http://www.sciencedirect.com/science/article/pii/S1570963915003052

16. B. G. Caulkins, C. Yang, E. Hilario, **Li Fan**, M. F. Dunn, and L. J. Mueller* (2015). "Catalytic Roles of βLys87 in Tryptophan Synthase: 15N Solid State NMR Studies" *Biochim. Biophys. Acta - Proteins and Proteomics.* 1854 (9): 1194-9. (Impact factor: 3.191). PMID: 25688830 http://www.sciencedirect.com/science/article/pii/S0079610714001904

15. B. G. Caulkins, B. Bastin, C. Yang, T. J. Neubauer, R. P. Young, E. Hilario, Y. M. Huang, C. Chang, **Li Fan,** M. F. Dunn, M. J. Marsella, and L. J. Mueller* (2014). "Protonation States of the Tryptophan Synthase Internal Aldimine Active Site from Solid-State NMR Spectroscopy: Direct Observation of the Protonated Schiff Base Linkage to Pyridoxal-5'-Phosphate". *J. Am. Chem. Soc.* 136 (37): 12824-12827. (impact factor: 11.444). PMID: 25148001. http://pubs.acs.org/doi/pdf/10.1021/ja506267d

14. K. DuPrez, M. Scranton, L. Walling, and **Li Fan*** (2014). "Crystal structure of tomato wound-

induced leucine aminopeptidase sheds light on substrate specificities". *Acta Cryst. D. Biol Crystallogr* 70: 1649-1658. (impact factor: 2.680). PMID: 24914976
http://journals.iucr.org/d/issues/2014/06/00/lv5057/lv5057.pdf

13. D. Niks†, E. Hilario†, A. Dierkers, H. Ngo, D. Borchardt, T. J. Neubauer, **Li Fan***, L. J. Mueller*, and M. F. Dunn* (2013) "Allostery and substrate channeling in the tryptophan synthase bienzyme complex: evidence for two subunit conformations and four quaternary states. *Biochemistry*. 52(37): 6396-6411. †first authors. (impact factor: 3.377) PMID: 23952479
http://pubs.acs.org/doi/pdf/10.1021/bi400795e

12. E. Hilario, Y. Li, Y. Nobumori, X. Liu and **Li Fan*** (2013). "Structure of the C-terminal half of human XPB helicase and the impact of disease-causing mutation XP11BE". *Acta Cryst.* D. *Biol Crystallogr* 69: 237-246. (impact factor: 7.232). PMID: 23385459
http://journals.iucr.org/d/issues/2013/02/00/mn5013/index.html

11. Y. Nobumori, G. P. Shouse, **Li Fan** and X. Liu*. (2012). "HEAT-repeat 1 is required for B56γ-PP2A holoenzyme assembly and tumor suppressive function". *J. Biol. Chem.* 287: 11030-11036. (impact factor: 5.382) PMID: 22315229.
http://www.jbc.org/content/287/14/11030.full.pdf+html

10. E. Hilario, Y. Li, D. Niks and **Li Fan*** (2012). "Structure of a *Xanthomonas* general stress protein involved in citrus canker reveals its flavin-binding property". Acta Cryst. D. *Biol Crystallogr* 68: 846-853. (impact factor: 14.103) PMID: 22751670
http://journals.iucr.org/d/issues/2012/07/00/lv5018/lv5018.pdf

9. E. Hilario, F. Martin, M.C. Bertolini, and **Li Fan*** (2011). "Crystal structures of Xanthomonas small heat shock protein provide a structural basis for active molecular chaperone oligomers." J. *Mol. Biol.* 408(1): 74-86. (impact factor: 4.001) PMID: 21315085
http://journals.iucr.org/d/issues/2012/07/00/lv5018/lv5018.pdf

8. Y. Matsushima, C.L. Farr, **Li Fan**, and L.S. Kaguni (2008). "Physiological and biochemical defects in carboxyl-terminal mutants of mitochondrial DNA helicase." *J. Biol. Chem.* 283: 23964-71. http://www.jbc.org/content/283/35/23964.full.pdf+html

7. **Li Fan**, J. O. Fuss , Q. J. Cheng, A. S. Arvai, M. Hammel, V. A. Roberts, P. K. Cooper and J. A. Tainer. (2008). "XPD Helicase Structures and Activities: Insights into the Cancer and Aging Phenotypes from XPD Mutations". *Cell* 133: 789-800.
http://www.sciencedirect.com/science/article/pii/S0092867408005606
"Must read" Recommended by Faculty of 1000 Biology
http://www.f1000biology.com/article/id/1115102
Highlighted by C&E News Enzyme Structure And Mutations Reveal Disease Roles
(http://pubs.acs.org/subscribe/journals/cen/86/i23/toc/toc_i23.html#sci)

6. **Li Fan** and V. A. Roberts (2006). "Complex of linker histone H5 with the nucleosome and its implications for chromatin packing." *Proc. Natl. Acad. Sci. USA* 103: 8384-8389.
http://www.pnas.org/content/103/22/8384.full

5. **Li Fan**, A. Arvai, P. K. Cooper, S. Iwai, F. Hanaoka, and J. A. Tainer (2006). "Conserved XPB core structure and motifs for DNA unwinding: implications for pathway selection of transcription or excision repair." *Mol. Cell* 22(1): 27-37.
http://www.sciencedirect.com/science/article/pii/S1097276506001195
Recommended by Faculty of 1000 Biology
(http://www.f1000biology.com/article/16600867/).

Commentary review *by Timmins J & McSweeney S. "XPB: An essential helicase involved in both transcription and repair of DNA." Mol Cell. 2006 Apr 21;22(2):149-50.*

4. **Li Fan**, S. Kim, C. L. Farr, K. T. Schaefer, K. M. MacLauchlan, J. A. Tainer, and L. S. Kaguni (2006) "A novel processive mechanism for DNA synthesis revealed by structure, modeling and mutagenesis of the accessory subunit of human mitochondrial DNA polymerase". *J.Mol. Biol.* 358: 1229-1243. http://www.sciencedirect.com/science/article/pii/S0022283606002889
Ranked in the top 20 most downloaded JMB papers from April-June 2006 (http://top25.sciencedirect.com/index.php?cat_id=8&subject_area_id=3&journal_id=00222836)

3. A. S. Hearn, **Li Fan**, J. R. Lepock, J. P. Luba, W. B. Greenleaf, D. E. Cabelli, J. A. Tainer., H. S. Nick, and D. N. Silverman. (2004) "Amino-acid substitution at the dimeric interface of human manganese superoxide dismutase". *J. Biol. Chem*. 279 (7): 5861-5866. http://www.jbc.org/content/279/7/5861.long

2. **Li Fan** and L. S. Kaguni (2001). "Multiple regions of subunit interaction in Drosophila mitochondrial DNA polymerase: three functional domains in the accessory subunit." *Biochemistry*. 40(15):4780-4791. http://pubs.acs.org/doi/pdf/10.1021/bi010102h

1. **Li Fan**, P. S. Sanschagrin, L. S. Kaguni, and L. A. Kuhn (1999). "The accessory subunit of mitochondrial DNA polymerase shares structural homology with aminoacyl-tRNA synthetases: implications for a dual role as a primer recognition factor and processivity clamp." *Proc. Natl. Acad. Sci. USA*. 96: 9527-9532. http://www.pnas.org/content/96/17/9527.full

E1. V. A. Roberts and **Li Fan** (2002). "Predicting DNA/Protein interactions with DOT". *Protein Science*, 11(suppl.1). (Abstract).

Grants, Honors and Awards

2022-2023 Committee on Research Award, University of California.

2012-2026 *US Department of Agriculture AES/RSAP award* "Structural biology of citrus canker disease". Sole PI.

2015-2022 NIH grant R01GM108893 "Investigating the role of XPB helicase in DNA nucleotide excision repair" Sole-PI.

2011-2021 *NIH grant R01GM097569 "*Chemically-Rich Structure and Dynamics in the Active Site of Tryptophan Synthase" Co-PI.

2017-2020 *NSF grant 1710671 "* NMR Crystallography: Linking Chemical Structure and Mechanism in Tryptophan Synthase" Co-PI.

2015-2016 University of California Regents Faculty Development Award.

2012-2013 Hellman Scholar, Hellman Fellowship Foundation, USA.

2012 Recent Alumni Award, College of Natural Sci. Alumni Association, Michigan State Univ.

2011 R. Gaurth Hansen Award for outstanding alumni at early academic career, 50th anniversary of Department of Biochemistry and Molecular Biology, Michigan State University

2000 Outstanding Graduate Student Award for Excellence in Research, Scholarship and Teaching, Department of Biochemistry, Michigan State University, Michigan.

Conference Presentations and Invited Seminars:

09/21/2022. Invited Speaker, Department of Biochemistry, Yonsei University, Seoul, Korea; Seminar title: Structural and mechanistic insights into archaeal nucleotide excision repair".

09/14-17/2022. Invited Speaker, The 20th KIAS Conference on Protein Structure and Function. Seoul, Korea; Seminar title: "Structural basis for the role of the XPB helicase-Bax1 nuclease complex in archaeal nucleotide excision repair".

07/08-10/2019. Speaker and co-Chair of section Biochemistry and Molecular Biology at International conference on "Cell Sciences and Molecular Biology 2019". Paris, France. Title: "Structural and molecular basis for XPB helicase function and its disease-causing mutations".

02/10-15/2019. Poster presentation at "Gordon Research Conference on Mammalian DNA Repair". Ventura, CA. Title: "Structural and molecular basis for XPB helicase function and its disease-causing mutations".

09/28/2017. Invited speaker of Distinguished Lecture Series at Fox Chase Cancer Center, Philadelphia. Title: "Understanding the role of XPB helicase in DNA repair: from structure to mechanism".

08/08/2017. Invited speaker of Distinguished Seminars at Central South University, Changsha, China. Title: "Structural insights on the role of XPB helicase in DNA repair".

05/7-11/2017. Invited speaker at "2017 FEBS DNA Repair Workshop", Smolenice, Slovakia. Title: "The Interaction of XPB helicase with nucleases".

02/11-15/2017. Poster presentation at the 61st Annual Meeting of Biophysical Society, New Orleans, Louisiana. Title: "ATP-binding drives domain rotation in XPB helicase : evidence from crystal structures and small angle X-ray scattering."

06/13-17/2016 Poster presentation at the 2016 Cold Spring Harbor Asia Conference on DNA metabolism, Genomic Stability and Disease at Suzhou, China. Title: "Structural and functional study of a novel ATPase associated with Holiday junction resolvase Hjc".

05/26-29/2016 Oral presentation at the 2016 International Conference on Nucleic Acid-Protein Chemical and Structural Biology for Novel Drug Discovery at Chengdu, China. Title: "Identification and characterization of a novel RuvB-like ATPase from *S. Islandicus"*

03/15/2015 Session Chair and Oral presentation at 22nd West Coast Protein Crystallography Workshop, Monterey, California. Title: "Structural evidence supporting XPB helicase as a molecular wrench".

02/08/2015 Poster presentation at Gordon Research Conference of Mammalian DNA Repair, Ventura, California. Title: "Structural evidence supporting XPB helicase as a molecular wrench".

02/15/2014 Oral presentation at International Fusion conference of Dynamic Structures in DNA Damage Responses and Cancer, Cancun, Mexico. Title: "Structural study of XPB helicase: insight into molecular mechanism of DNA unwinding and impact of disease-causing mutations"

10/04/2013 Invited lecture at Molecular and Computational Biology program at University of Southern California (USC). Title: "Structural study of XPB helicase: insight into molecular mechanism of DNA unwinding and impact of disease-causing mutations".

03/25/2013 Invited lecture at School of Life Sciences, Shangdong University, Jinan, China. Title: "How two helicases work together within the TFIIH complex, a perspective from structural studies of XPB and XPD helicases".

03/25/2013 Invited lecture at State Key Laboratory of Microbial Technology, Shangdong University, Jinan, China. Title: "Structural biology of citrus canker: structural and functional studies on Xanthomonas proteins important for the disease".

03/22/2013 Oral presentation at BIT's 6th Annual World Protein and Peptide Conference 2013 at Suzhou, China. Title: "Crystal structures of Xanthomonas small heat shock protein provide a structural basis for active molecular chaperone oligomers".

03/17/2013 Poster presentation at the West Coast Protein Crystallography Workshop XXI in Monterey, CA. March 16 - 21, 2013. Title: "The crystal structure of C-terminal half of the human XPB helicase at 1.8 Angstroms and the impact of the genetic disease-causing mutation XP11BE".

11/30/2012 Invited lecture at Department of Botany and Plant Sciences and Center for Plant Cell Biology, University of California Riverside. Title: "Structural biology of citrus canker: structural and functional studies on Xanthomonas proteins important for the disease".

05/10/2011 Invited lecture at Institute of Cancer Research, Central South University, Changsha, China. Title: "Structural biology of XPB and XPD in nucleotide excision repair and insights into clinical mutations in cancer and aging".

05/09/2011 Distinguished lecture at Central South University, Changsha, China. Title: "Genome-wide structural and functional studies on *Xanthomonas axonopodis* pv *citri* (Xac)-citrus infections"

04/26/2011 Oral presentation at the 2nd International Symposium on Enzymes & Biocatalysis-2011 in Dalian, China. Title: "Structural Basis of Disease Causing Mutation G47R at the ATP Binding Site of DNA Repair Helicase XPD".
04/21/2011 Keynote speaker at 50th anniversary of Department of Biochemistry and Molecular Biology, Michigan State University, East Lansing, MI. Title: "Helicases are not built the same: crystal structures of archaeal XPB and XPD helicases reveal the "transmission" and "driving wheel" of TFIIH to open damaged DNA for DNA repair".

04/07/2011 Invited lecture at Department of Chemistry and Biochemistry, California State University, Fullerton, California. Title: "Genome-wide structural and functional studies on *Xanthomonas axonopodis* pv *citri* (Xac)-citrus infections"

11/17/2010 Invited Seminar for Enviromental Toxicology Seminar Series 2010 Fall, UCR.
Title: "Helicases are not built the same: crystal structures of archaeal XPB and XPD"

11/1&3/2010 Invited Guest speech for BCH095 2010 Fall, UCR.
Title: "Application of X-ray crystallography to structural determination of biomolecules."

3/02/2010 Invited Seminar in Biochemistry of BMB graduate program, UCR.
Title: "Genome-wide studies on *Xanthomonas axonopodis* pv *citri* (Xac)-citrus infections by protein X-ray crystallography"

11/02/2009 Invited Guest lecture at BCH095, UCR.
Title: "Introduction to protein structure determination by X-ray crystallography"

July 18-22, 2008. *DNA Replication and Genome Integrity meeting.* Salk Institute for Biological Studies, La Jolla, California. (Selected for Oral presentation). Title: "Insights into the Cancer and Aging Phenotypes from XPD Mutations: structural and function studies on archaeal XPD helicase".

May 8-10, 2008. *The 7rd Workshop of Structural Biology of DNA Repair.* Berkeley, California. (*poster*) Title: "Crystal structures of XPD helicase from Sulfolobus acidocaldarius."

July 22-27, 2006. *The 2006 Meeting of the American Crystallographic Association*. Honolulu, Hawaii (*poster*). Title: "Structural and Biochemical Characterization Of An Archaeal XPB: A Helicase Adapted For Damaged DNA Unwinding."

March 20-23, 2005. *XVII West Coast Protein Crystallography Workshop*. Asilomar, California. (*poster*). Title: "Crystal structure of Archaeoglobus fulgidus XPB protein: the structural basis for unwinding damaged DNA."

May 20-25, 2004. *The 3rd Workshop of Structural Biology of DNA Repair*. Berkeley, California. (*poster*). Title: "XPB crystal structure reveals a damage verification domain flexibly linked to a helicase core."

August 17-21, 2002. *The 16th Protein Society Meeting.* San Diego, California. *(poster*). Title: "A 1.47 Å resolution crystal structure of human manganese superoxide dismutase Y166F mutant".

Sept., 1999. *The 1999 Keystone Symposia on "Molecular Mechanisms in DNA Replication and Recombination."* Taos, New Mexico. (poster and *selected for oral presentation*).
Title: "Subunit Assembly of Drosophila Mitochondrial DNA Polymerase."

Nov. 1999. *The 1999 Cold Spring Harbor Laboratory International Conference on " Eukaryotic DNA Replication."* Cold Spring Harbor, New York. (selected for *oral presentation*). Title: "Structure-function Studies of Drosophila Mitochondrial DNA Polymerase Reveal A Critical Role For The Accessory Subunit".

Professional Memberships

- American Crystallography Association
- American Association for the Advancement of Science
- American Pharmaceutical Scientists Society
- Biophysical Society
- Protein Society