

**Dong Wang, Ph.D.**

**Assistant Professor**

University of California, San Diego  
Skaggs School of Pharmacy and Pharmaceutical Sciences  
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**Employment**

Jan., 2010 – Assistant Professor  
Skaggs School of Pharmacy and Pharmaceutical Sciences  
University of California San Diego, La Jolla, CA  
Molecular Biophysics Training Program  
Molecular Pharmacology Training Program  
Cancer Biology Program, Moores Cancer Center  
University of California San Diego, La Jolla, CA

**Education**

Oct., 2004 - Dec., 2009 Postdoctoral Fellow, Department of Structural Biology  
School of Medicine, Stanford University, Stanford, CA  
Advisor: Prof. Roger D. Kornberg

Sept., 1999-Sept., 2004 Ph.D., Department of Chemistry  
Massachusetts Institute of Technology, Cambridge, MA  
Advisor: Prof. Stephen J. Lippard

Sept., 1993-June, 1998 B.S., Department of Chemistry  
Peking University, Beijing, P.R. China  
Advisors: Prof. Genpei Li & Prof. Dacheng Wang

**Publications** (\* Corresponding Authors)

29. Xu, L., Wang, W., Zhang, L., Chong, J., Huang, X., **Wang, D.\*** (2015) Impact of template backbone heterogeneity on RNA polymerase II transcription. *Nucleic Acids Res.* 43(4), 2232-2241.
28. Walmacq, C., Wang, L., Chong, J., Scibelli, K., Lubkowska, L., Gnat, A., Brooks, P.J., **Wang, D.\***, and Kashleva, M.\* (2015) Mechanism of RNA polymerase II bypass of oxidative cyclopurine DNA lesions. *Proc. Natl. Acad. Sci. USA* 112 (5), E410-419.
27. Wang, L., Limbo, O., Fei, J., Chen, L., Kim, B., Luo, J., Chong, J., Conaway, R.C., Conaway, J.W., Ranish, J.A., Kadonaga, J.T., Rusell, P., **Wang, D.\*** (2014) Regulation of the Rhp26<sup>ERCC6/CSB</sup> Chromatin Remodeler by a Novel Conserved Leucine Latch Motif. *Proc. Natl. Acad. Sci. USA* 111 (52), 18566-18571.
26. Xu, L., Chen, Y.-C., Chong, J., Fin, A., McCoy, L.S., Xu, J., Zhang, C., **Wang, D.\*** (2014) Pyrene-Based Quantitative Detection of the 5-Formylcytosine Loci Symmetry in the CpG Duplex Content during TET-dependent Demethylation. *Angew. Chem. Int. Ed.* 53(42), 11223-11227.

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25. Xu, L., Zhang, L., Chong, J., Xu, J., Huang, X., **Wang, D.\*** (2014) Strand-specific (asymmetric) contribution of phosphodiester linkages on RNA polymerase II transcriptional efficiency and fidelity. *Proc. Natl. Acad. Sci. USA* 111(32), E3269-3276.
  24. Silva, D.A., Weiss, D., Pardo, F., Da, L.T., Levitt, M., **Wang, D.\***, Huang, X.\* (2014) Millisecond Dynamics of RNA Polymerase II Translocation at Atomic Resolution. *Proc. Natl. Acad. Sci. USA* 111(21), 7665-7670.
  23. Eun, C.\*, Ortiz-Sánchez, J. M., Da, L.T., **Wang, D.\***, McCammon, J. A. (2014) Molecular Dynamics Simulation Study of Conformational Changes of Transcription Factor TFIIS during RNA Polymerase II Transcriptional Arrest and Reactivation. *PLoS One* 9(5):e97975. PMID: 24842057.
  22. Xu, L., Da, L.T., Plouffe, S.W., Chong, J., Kool, E. T., **Wang, D.\*** (2014) Molecular Basis of Transcriptional Fidelity and DNA Lesion-induced Transcriptional Mutagenesis. *DNA Repair* 19, 71-83. PMID: 24767259 (Invited Review).
  21. Xu, L., Butler, K.V., Chong, J., Wengel, J., Kool, E. T., **Wang, D.\*** (2014) Dissecting the Chemical Interactions and Substrate Structural Signatures Governing RNA Polymerase II Trigger Loop Closure by Synthetic Nucleic Acid Analogues. *Nucleic Acids Res.* 42, 5863-5870.
  20. Xu, L., Chen, Y., Nakajima, S., Chong, J., Wang, L., Lan, L., Zhang, C.\*, **Wang, D.\*** (2014) A Chemical Probe Targets DNA 5-Formylcytosine Sites and Inhibits TDG Excision, Polymerases Bypass, and Gene Expression. *Chem. Sci.* 5, 567-574.
  19. Xu, L., Plouffe, S.W., Chong, J., Wengel, J., **Wang, D.\*** (2013) A Chemical Perspective on Transcriptional Fidelity: Dominant Contributions of Sugar Integrity Revealed by Unlocked Nucleic Acids. *Angew. Chem. Int. Ed.* 52, 12341-12345. PMCID: PMC3866818 (Inside Cover).
  18. Kellinger, M.W., Park, G.Y., Chong, J., Lippard, S. J.\*, **Wang, D.\*** (2013) Effect of a Monofunctional Phenanthriplatin-DNA Adduct on RNA Polymerase II Transcriptional Fidelity and Translesion Synthesis. *J. Am. Chem. Soc.* 135, 13054-13061. PMCID: PMC3791135.
  17. Zhang, S., **Wang, D.\***, (2013) Understanding the Molecular Basis of RNA Polymerase II Transcription. *Isr. J. Chem.* 53, 442-449. PMCID: PMC3881536 (Invited Review).
  16. Da, L.T., Pardo Avila, F., **Wang, D.**, Huang, X. (2013) A Two-state Model for the Dynamics of the Pyrophosphate Ion Release in Bacterial RNA Polymerase. *PLoS Comput. Biol.* 9(4): e1003020. PMCID: PMC3617016.
  15. Kellinger, M.W., Song, C., Chong, J., Lu, X., He. C., **Wang, D.\*** (2012) 5-Formyl- and 5-Carboxyl-cytosine Reduce the Rate and Substrate Specificity of RNA Polymerase II Transcription. *Nature Struct. Mol. Biol.* 19, 831-33. PMCID: PMC3414690.
  14. Kellinger, M.W., Ulrich, S., Chong, J., Kool, E.T.\*, **Wang, D.\*** (2012) Dissecting Chemical Interactions Governing RNA Polymerase II Transcriptional Fidelity. *J. Am. Chem. Soc.* 134, 8231-40. PMCID: PMC3367139.

13. Da, L.T., **Wang, D.\***, Huang, X.\* (2012) Dynamics of Pyrophosphate Ion Release and Its Coupled Trigger Loop Motion from Closed to Open State in RNA Polymerase II. *J. Am. Chem. Soc.* 134, 2399-2406. PMID: PMC3273452.
12. Huang, X., **Wang, D.**, Weiss, D.R., Bushnell, D.A., Kornberg, R.D., Levitt, M. (2010) RNA Polymerase II Trigger Loop Residues Stabilize and Position the Incoming Nucleotide Triphosphate in Transcription. *Proc. Natl. Acad. Sci. USA*, 107, 15745-15750. PMID: PMC2936645.
11. **Wang, D.\***, Zhu, G., Huang, X., Lippard, S. J.\* (2010) X-ray Structure and Mechanism of RNA Polymerase II Stalled at an Antineoplastic Monofunctional Platinum-DNA Adduct. *Proc. Natl. Acad. Sci. USA*, 107, 9584-9589. PMID: PMC2906855.
10. Liu, X., Bushnell, D. A., **Wang, D.**, Calero, G., Kornberg, R. D. (2010) Structure of an RNA Polymerase II – TFIIB Complex and the Transcription Initiation Mechanism. *Science* 327, 206-209. PMID: PMC2813267.
9. **Wang, D.**, Bushnell, D. A., Westover, K. D., Huang, X., Levitt, M., Kornberg, R. D. (2009) Structural Basis of Transcription: Backtracked RNA Polymerase II at 3.4 Å Resolution. *Science* 324, 1203-1206. PMID: PMC2718261.
8. **Wang, D.**, Bushnell, D. A., Westover, K. D., Kaplan, C. D., Kornberg, R. D. (2006) Structural Basis of Transcription: Role of the Trigger Loop in Substrate Specificity and Catalysis. *Cell* 127, 941-954 (Cover).
7. Takagi, Y., Masuda, C. A., Chang, W. H., Komori, H., **Wang, D.**, Hunter, T., Joazeiro, C. A., Kornberg, R. D. (2005) Ubiquitin Ligase Activity of TFIID and the Transcriptional Response to DNA damage. *Mol. Cell* 18, 237-243.
6. Danford, A. J., **Wang, D.**, Wang, Q., Tullius, T. D., Lippard, S. J. (2005) Platinum Anticancer Drug Damage Enforces a Particular Rotational Setting of DNA in Nucleosomes. *Proc. Natl. Acad. Sci. USA* 102, 12311-12316.
5. **Wang, D.**, Lippard, S. J. (2005) Cellular Processing of Platinum Anticancer Drugs. *Nature Rev. Drug Discov.* 4, 307-320 (Review).
4. **Wang, D.**, Lippard, S. J. (2004) Cisplatin-induced Post-translational Modification of Histones H3 and H4. *J. Biol. Chem.* 279, 20622-20625.
3. **Wang, D.**, Hara, R., Singh, G., Sancar, A., Lippard, S. J. (2003) Nucleotide Excision Repair from Site-specifically Platinum-modified Nucleosomes. *Biochemistry* 42, 6747-6753.
2. Lee, K. B., **Wang, D.**, Lippard, S. J., Sharp, P. A. (2002) Transcription-coupled and DNA Damage Dependent Ubiquitination of RNA Polymerase II in vitro. *Proc. Natl. Acad. Sci. USA* 99, 4239-4244.
1. Guan, R. J., Wang, M., **Wang, D.**, Wang, D. C. (2001) A New Insect Neurotoxin AngP(1) with Analgesic Effect from the Scorpion *Buthus martensii* Karsch: Purification and Characterization. *J. Pept. Res.* 58, 27-35.

**Research Grants and Funding**

Jan., 2013- Dec., 2017 R01 Grant (GM102362)  
National Institute of General Medical Sciences, NIH

July, 2012 - June, 2014 Kimmel Scholar Award (SKF-12-014)  
The Sidney Kimmel Foundation for Cancer Research

**Honors and Awards**

2012 - 2014 Kimmel Scholar Award, The Sidney Kimmel Foundation for  
Cancer Research

2008 - 2012 NIH Pathway to Independence Award (K99/R00)

2010 - 2011 UCSD Academic Senate Research Grant Award

2010 CIBA Young Scientist Award

2007 - 2008 Leukemia & Lymphoma Society  
Career Development Program Special Fellow Award

2007 - 2009 TriLink BioTechnologies Research Reward  
2008 ASBMB & Experimental Biology 2008 Travel Award

2007 ASBMB & Experimental Biology 2007  
Chromosome Cycle Theme Poster Award

2007 ASBMB & Experimental Biology 2007 Travel Award

2002 - 2003 Anna Fuller Fund Graduate Fellowship Award

**Editor Advisory Board**

*Chemical Research in Toxicology* (2014-)

**Professional Memberships and Associations**

Member

American Crystallographic Association  
American Chemical Society  
American Society for Biochemistry and Molecular Biology  
Biophysical Society  
Leukemia & Lymphoma Society  
Society of Toxicology  
Sigma Xi, The Scientific Research Society  
Environmental Mutagenesis and Genomics Society

**Invited Presentations and Seminars**

**Wang, D.** Structural basis of RNA polymerase II transcription and its regulation.  
University of California at Merced, School of Natural Sciences, Quantitative Systems  
Biology Seminar, Sept., 2008.

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- Wang, D.** Structural basis of transcription: Backtracked RNA polymerase II complex. ASBMB National Meeting. New Orleans, LA, Apr., 2009.
- Wang, D.** Structural basis of transcription elongation by RNA polymerase II. Peking University, Beijing, China, Oct., 2009.
- Wang, D.** X-ray structure and mechanism of RNA polymerase II stalled by a monofunctional antineoplastic agent. 240th American Chemical Society National Meeting. Boston, MA, Aug., 2010.
- Wang, D.** Structural insights into the action of new anti-cancer drugs. Photon Science Seminar Series. SLAC National Accelerator Laboratory, Palo Alto, CA. June, 2011.
- Wang, D.** Molecular basis of RNA polymerase II transcription and inhibition of anticancer agent. University of Utah, Department of Medicinal Chemistry, Oct., 2012.
- Wang, D.** Dissect the chemical interaction of RNA polymerase II transcriptional fidelity. University of California at Riverside, Department of Chemistry, Dec., 2012.
- Wang, D.** Transcription and epigenetic DNA modifications. Stowers Institute for Medical Research, Kansas City, MO, Dec., 2012.
- Wang, D.** Molecular basis of RNA polymerase II transcription. International Conference on Biomolecular Dynamics: Computation Meets Experiment. King Abdullah University of Science and Technology (KAUST), Saudi Arab, Feb., 2013.
- Wang, D.** Understanding the molecular basis of RNA polymerase II transcription. Hong Kong University of Science and Technology, Department of Biology and Chemistry, Hong Kong, China, Feb., 2013.
- Wang, D.** Molecular basis of RNA polymerase II transcription. The Chinese University of Hong Kong, Department of Chemistry, Hong Kong, China, Feb., 2013.
- Wang, D.** Molecular basis of RNA polymerase II transcription. City University of Hong Kong, Department of Biology and Chemistry, Hong Kong, China, Feb., 2013.
- Wang, D.** Functional interplay between DNA damage and transcription machinery. Metals in Medicine: Diagnostic and Therapeutic Applications, 245th American Chemical Society National Meeting. New Orleans, LA, March, 2013.
- Wang, D.** Molecular basis of RNA polymerase II transcription. San Digeo State University, Department of Chemistry, San Diego, CA, April, 2013.
- Wang, D.** Molecular basis of RNA polymerase II transcription. University of California San Diego, Cardiovascular Science Conference Series, April, 2013.
- Wang, D.** Reading between the DNA lines: A chemical perspective of transcriptional fidelity. University of California San Diego, Department of Chemistry and Biochemistry, Oct., 2013.

- Wang, D.** Molecular basis of RNA polymerase II transcriptional fidelity. 2nd Zing Enzymes, Coenzymes and Metabolic Pathways Conference. Cancun, Mexico, Nov., 2013.
- Wang, D.** Functional interplay between DNA damage and transcription machinery. Gordon Research Conference: DNA Damage, Mutation & Cancer. Ventura, CA, March, 2014.
- Wang, D.** Transcription fidelity control, epigenetic DNA modification and damage recognition. The University of Chicago, Department of Chemistry, April, 2014.
- Wang, D.** Transcription fidelity control, epigenetic DNA modification and damage recognition. Northwestern University, School of Medicine, Department of Pharmacology, April, 2014.
- Wang, D.** Transcription fidelity control and DNA damage recognition. National Cancer Institute, NIH, Frederick, MD, April, 2014.
- Wang, D.** Transcription fidelity control, epigenetic DNA modification and damage recognition. Johns Hopkins University, Department of Pharmacology, Baltimore, MD, April, 2014.
- Wang, D.** Transcription fidelity control and DNA damage recognition. National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), National Institutes of Health, Bethesda, MD, April, 2014.
- Wang, D.** Molecular basis of transcription fidelity control and DNA damage recognition. University of California Santa Cruz, Department of Molecular, Cell and Developmental Biology, May, 2014.
- Wang, D.** Molecular basis of transcription fidelity control and DNA damage recognition. University of California Davis, Joint Seminar by Departments of Chemistry and Department of Microbiology & Molecular Genetics, May, 2014.
- Wang, D.** Molecular basis of transcription fidelity control and DNA damage recognition. University of California Irvine, Department of Physiology, May, 2014.
- Wang, D.** Molecular basis of transcription fidelity control and DNA damage recognition. University of Southern California, Department of Chemistry, Aug., 2014.
- Wang, D.** Transcription fidelity control and DNA damage recognition. Pennsylvania State University, Department of Biochemistry and Molecular Biology, Sept., 2014.
- Wang, D.** Transcription fidelity control and DNA damage recognition. University of Pittsburgh, School of Medicine, Department of Microbiology & Molecular Genetics, Sept., 2014.
- Wang, D.** RNA polymerase II transcriptional fidelity control and lesion recognition. Department of Biochemistry and Biophysics, University of North Carolina at Chapel Hill, Sept., 2014.
- Wang, D.** Molecular basis of RNA polymerase II transcriptional fidelity control and lesion recognition. Structural Biology & Biophysics seminar series, Duke University, co-hosted by Departments of Chemistry and Structural Biology & Biophysics, Sept., 2014.
- Wang, D.** Molecular basis of RNA polymerase II transcriptional fidelity control and lesion recognition. Vanderbilt University, Vanderbilt Institute of Chemical Biology, Sept., 2014.

- Wang, D.** Molecular basis of RNA polymerase II transcriptional fidelity control and lesion recognition. National Institute of Environmental Health Sciences, NIH, Sept., 2014.
- Wang, D.** Molecular basis of RNA polymerase II transcriptional fidelity control and lesion recognition. Massachusetts Institute of Technology, Department of Chemistry, Sept., 2014.
- Wang, D.** Molecular basis of RNA polymerase II transcriptional fidelity control and lesion recognition. University of California Berkley, Lawrence Berkeley National Laboratory, Oct., 2014.
- Wang, D.** Molecular basis of RNA polymerase II transcriptional fidelity control and lesion recognition. University of California Riverside, Department of Chemistry, Oct., 2014.
- Wang, D.** Molecular basis of RNA polymerase II transcriptional fidelity control and lesion recognition. Division of Chemistry and Chemical Engineering, California Institute of Technology, Oct., 2014.
- Wang, D.** Functional interplay between pol II transcription and DNA demethylation pathways. ASBMB National Meeting. Boston, MA., April, 2015.

***Other Selected Presentations***

- Wang, D.,** Hara R., Sancar A. & Lippard S.J. Nucleotide excision repair from a site-specifically cisplatin-modified nucleosome. 224th American Chemical Society National Meeting. Boston, MA, Aug., 2002.
- Wang, D.,** Hara R., Singh G., Sancar, A. & Lippard, S. J. Nucleosomes inhibit nucleotide excision repair from site-specific platinum-DNA adducts. 226th American Chemical Society National Meeting. New York, NY, Sept., 2003.
- Wang, D.,** & Lippard, S. J. Histone modifications following treatment of cells with cisplatin: cause and effects. 9th International Symposium on Platinum Coordination Compounds in Cancer Chemotherapy. New York, NY, Oct., 2003.
- Wang, D.,** Bushnell, D. A., Westover, K. D. & Kornberg, R. D. Structural basis of nucleotide selection and catalysis by RNA polymerase II. ASBMB Transcriptional Regulation by Chromatin and RNA Polymerase II Meeting. Kiawah Island, SC, Nov., 2006.
- Wang, D.,** Bushnell, D. A., Westover, K. D. & Kornberg, R. D. Structural basis of RNA polymerase II substrate specificity and catalysis. ASBMB National Meeting. Washington, D.C., April, 2007 (featured oral presentation as a travel award winner).
- Wang, D.,** Bushnell, D. A., Westover, K. D. & Kornberg, R. D. Structural basis of Mg<sup>2+</sup> inhibition of RNA polymerase II transcription. 233rd American Chemical Society National Meeting. Chicago, IL, March, 2007.
- Wang, D.,** Bushnell, D. A., Westover, K. D. & Kornberg, R. D. Structural basis of RNA polymerase II pausing and arrest. ASBMB National Meeting. San Diego, CA, April, 2008.

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- Wang, D.**, Bushnell, D. A., Westover, K. D. & Kornberg, R. D. Structural basis of transcription: Backtracked RNA polymerase II. Gordon Research Conferences: Nucleic Acids. Biddeford, ME, May-June, 2009.
- Wang, D.**, & Kornberg, R. D. Structural basis of transcription elongation by RNA polymerase II. Gordon Research Conferences: Nucleosides, Nucleotides & Oligonucleotides. Newport, RI, July, 2009.
- Wang, D.** Structural basis of transcription elongation by RNA polymerase II. The National Institute of Biological Sciences, Beijing, China, Oct., 2009.
- Wang, D.** Structural basis of transcription elongation by RNA polymerase II. Tsinghua University, Beijing, China, Oct., 2009.
- Wang, D.** & Kornberg, R. D. Structural basis of transcription: Backtracked RNA polymerase II. Joint Conference of the Asian Crystallographic Association & Chinese Crystallography Society. Beijing, China, Oct., 2009.
- Wang, D.** Structural basis of transcription elongation by RNA polymerase II. University of California San Diego, Molecular Biophysics Training Grant Retreat. La Jolla, CA, Jan., 2010.
- Wang, D.** Structural basis of RNA polymerases transcription & allosteric modulation. Special Workshop on Allosteric Mechanisms of Signal Transduction: Molecular & Atomic Considerations. University of California San Diego, La Jolla, CA, March, 2010.
- Wang, D.** Zhu, G., Huang, X. & Lippard, S. J. X-ray structure and mechanism of RNA polymerase II stalled at an antineoplastic monofunctional platinum-DNA adduct. Gordon Research Conferences: DNA Damage, Mutation, & Cancer. Ventura, CA, March, 2010.
- Wang, D.** Structural basis of RNA polymerase blockage by a monofunctional DNA lesion. FASEB Science Research Conference: Nucleic Acid Enzymes. Saxtons River, VT. June, 2010.
- Wang, D.** Mechanisms of transcription elongation and inhibition by anticancer drugs. University of California San Diego, Biomedical Sciences Graduate Program Retreat, CA, Sept., 2010.
- Wang, D.** Mechanisms of transcription elongation and inhibition by anticancer drugs. University of California San Diego, Department of Chemistry and Biochemistry Retreat, CA, Sept., 2010.
- Wang, D.** Molecular basis of RNA polymerase II transcription fidelity. Biophysical Society 56th Annual Meeting. San Diego, CA, Feb., 2012.
- Wang, D.** When transcription and DNA damage meet. Gordon Research Conferences: DNA Damage, Mutation, & Cancer. Ventura, CA, March, 2012.
- Wang, D.** Molecular basis of RNA polymerase II transcription. Society of Toxicology Annual Meeting. San Francisco, CA, March, 2012.



- Wang, D.** Molecular basis of RNA polymerase II transcription. ASBMB Annual Meeting. San Diego, CA, April, 2012.
- Wang, D.** Dissecting Chemical Interactions and Impact of DNA lesions on RNA Polymerase II Transcriptional Fidelity. Environmental Mutagen Society 43rd Annual Meeting. Bellevue, WA, Sept., 2012.
- Wang, D.** Molecular basis of RNA polymerase II transcription. Transcription Regulation: Chromatin and RNA polymerase II ASBMB Meeting. Snowbird, UT, Oct., 2012.
- Wang, D.** Molecular basis of RNA polymerase II transcription. Zing Nucleic Acids Conference, Xcaret, Mexico, Nov., 2012.
- Wang, D.** Functional interplay between DNA damage and transcription machinery. Gordon Research Conferences: Mammalian DNA Repair. Ventura, CA, Feb., 2013.
- Wang, D.** Understanding the molecular basis of RNA polymerase II transcriptional fidelity via a chemical biology approach. Mechanisms and Regulation of Prokaryotic Transcription. Saxtons River, VT, June, 2013.
- Wang, D.** Understanding the molecular basis of RNA polymerase II transcriptional fidelity. The 14th SCBA International Symposium. Xi'an China, July, 2013.
- Wang, D.** Dark matter of RNA polymerase II transcription. Mechanism of Eukaryotic Transcription Meeting. Cold Spring Harbor Laboratory, NY, Aug., 2013.
- Wang, D.** Molecular Basis of Transcriptional Fidelity Control and DNA Lesion Recognition by Transcriptional Machinery. Fusion Conference: Dynamic Structures in DNA Damage Responses & Cancer. Cancun, Mexico, Feb., 2014.
- Wang, D.** Functional interplay between epigenetic DNA modifications and RNA polymerase II transcriptional machinery. FASEB Science Research Conferences: Biological Methylation: Regulation of Chromatin, Epigenetics, and Disease, Nassau, Bahamas, July, 2014.
- Wang, D.** Using chemical and fluorescence-based tools to understand the mechanisms of RNA polymerase II transcription and DNA demethylation pathways. Fluorescent Biomolecules and their Building Blocks Design and Applications (FB3) Meeting. San Diego, CA, Aug., 2014.
- Wang, D.** Molecular basis of DNA lesion recognition and processing by transcriptional machinery. 248th American Chemical Society National Meeting. San Francisco, CA, Aug., 2014.
- Wang, D.** Transcriptional fidelity control and DNA lesion recognition by RNA polymerase II. Transcription Regulation: Chromatin and RNA polymerase II ASBMB Meeting. Snowbird, UT, Oct., 2014.
- Wang, D.** Transcriptional fidelity control and DNA lesion recognition. 4<sup>th</sup> Zing Nucleic Acids Conference. Cancun, Mexico, Dec., 2014.

**Review Experiences**

Reviewer for Journals:

*Nature Struct. Mol. Biol.*  
*Nature Methods*  
*Mol. Cell*  
*Proc. Natl. Acad. Sci. USA*  
*J. Am. Chem. Soc.*  
*J. Biol. Chem.*  
*J. Med. Chem.*  
*J. Mol. Biol.*  
*Nucleic Acids Res.*  
*ACS Chem. Biol.*  
*RNA*  
*Biochemistry*  
*Small*  
*PLoS One*  
*ChemMedChem*  
*Crit. Rev. Biochem. Mol. Biol.*  
*BBA - Proteins and Proteomics.*  
*Sci. Rep.*

Reviewer for Book Chapter:

*Molecular Biology: Principles of Genome Function, Chapter 12: Cellular Responses to DNA Damage.* Craig, N., Cohen-Fix, O., Green, R., Greider, C., Storz, G., and Wolberger, C. Ed. Oxford Univ. Press, Oxford, UK.

Grant Reviewer for Czech Science Foundation

**Co-organizer of International Meeting**

IAS Focused Program on Mechanisms of Transcription and its Regulation, Jan. 4-8, 2016, Hong Kong University of Science and Technology, with Profs. Robert Landick (Univ. Wisconsin-Madison) and Xuhui Huang (HKUST).

**Co-organizer of National Meeting**

Medicinal Inorganic Chemistry Symposium, 245<sup>th</sup> American Chemical Society National Meeting, New Orleans, LA, April, 2013, with Profs. Seth Cohen (UCSD) and Amy Barrios (University of Utah).

**Section Chair of National Meeting**

Mutagenesis, Environmental Genomics, and Cancer Section; Environmental Mutagen Society 43rd Annual Meeting, Bellevue, WA, Sept., 2012, with Prof. Larry Loeb (University of Washington).

DNA Repair in the Context of Chromatin; 2013 Gordon Research Seminar: Mammalian DNA Repair, Ventura, Feb., 2013.

RNA Polymerase Mechanism (Section X); Transcription Regulation: Chromatin and RNA polymerase II ASBMB Meeting. Snowbird, UT, Oct., 2014.