

Elisa T. Zhang

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Education

Ph.D. in Molecular and Cell Biology University of California, Berkeley	2009-2015
A.B. <i>magna cum laude</i> in Molecular and Cellular Biology Harvard College	2004-2008

Research Experience

Jan. 2016-	Post-Doctoral Fellow Advisor: Dr. Julie C. Baker
Jun.-Dec. 2015	Post-Doctoral Associate Howard Hughes Medical Institute Advisor: Dr. Robert Tjian
2010-2015	Ph.D. candidate Advisor: Dr. Robert Tjian Thesis topic: Structural and biochemical characterization of the XPC DNA repair complex and embryonic stem cell transcriptional co-activator
2008-2009	Fulbright Fellow European Molecular Biology Laboratory (EMBL) in Heidelberg, Germany Advisor: Dr. Andreas Ladurner Topic: X-ray crystallography of the FACT histone chaperone complex
2006-2008	Harvard College Research Program (HCRP) Fellow Advisor: Dr. Tom Maniatis Thesis: Distinct sets of mRNA targets exhibit differential miRNA dose responses
2005-2006	Undergraduate research student Advisor: Dr. Sam Kunes Topic: Hedgehog signaling in <i>Drosophila melanogaster</i> eye and brain development
2001-2004	High school research student, Science Enrichment Program for Students Barrow Neurological Institute and Arizona State University Advisor: Dr. Thomas A. Day Topic: UV-induced Antarctic and Sonoran Desert plant degradation

Awards and Honors

2015	Alan J. Bearden Award for the outstanding dissertation on a biophysical topic
2012	UC Berkeley Outstanding Graduate Student Instructor Award
2009	NSF Graduate Research Fellow
2009	UC Berkeley Distinguished Fellow
2008	Thomas Temple Hoopes Prize for Outstanding Senior Thesis
2008	Fulbright Research Fellow
2006	Radcliffe Fellowship
2006	Fellow, Harvard Program for Research in Science and Engineering (PRISE)
2004	U.S. Presidential Scholar
2004	National Merit Scholar
2004	International winner of Padgett Business Services Scholarship
2004	Association for Women in Science Educational Foundation Award
2003	Harvard University Book Award

Publications

1. **E.T. Zhang**, Y. He, P. Grob, Y.W. Fong, E. Nogales, R. Tjian. Architecture of the human XPC DNA repair and Stem Cell Coactivator Complex. *PNAS*. 112(48):14817-22.
2. C. Cattoglio, **E.T. Zhang**, I. Grubisic, K. Chiba, Y.W. Fong, R. Tjian. Functional and mechanistic studies of XPC DNA-repair complex as transcriptional coactivator in embryonic stem cells. *PNAS*. 112(18):E2317-26.
3. S.C. Knight, L. Xie, W. Deng, B. Guglielmi, L.B. Witkowsky, L. Bosanac, **E.T. Zhang**, M. El Beheiry, J.-B. Masson, M. Dahan, Z. Liu, J. Doudna, R. Tjian. Dynamics of CRISPR-Cas9 Genome Interrogation in Living Cells. *Science*. In Press.
4. M. Hondele, T. Stuwe, M. Hassler, F. Halbach, A. Bowman, **E.T. Zhang**, B. Nijmeijer, C. Kotthoff, V. Rybin, S. Amlacher, E. Hurt, A.G. Ladurner (2013) Structural basis of histone H2A-H2B recognition by the essential chaperone FACT. *Nature* 499:111-114.
5. T. Chu, M. Chiu, **E. Zhang**, S. Kunes (2006) A C-terminal motif targets Hedgehog to axons, coordinating assembly of the Drosophila eye and brain. *Dev Cell* 10:635-646.
6. T.A. Day, **E.T. Zhang**, C.T. Ruhland (2007) Exposure to solar UV-B radiation accelerates mass and lignin loss of *Larrea tridentata* in the Sonoran Desert. *Plant Ecology* 193: 185-194.

Conference Presentations

Bay Area RNA Club Meeting, July 2015. San Francisco, CA.

Poster: "RNA in transcriptional regulation: the pluripotency factors SOX2 and XPC (SCC)."

Keystone Symposium: Transcriptional and Epigenetic Influences on Stem Cell States, March 2015. Steamboat Springs, CO.

Poster: "Structural and biochemical insights on the XPC complex, a transcriptional co-activator required for embryonic stem cell pluripotency."

12th Annual Advanced Imaging Methods Workshop, February 2015. Berkeley, CA.

Poster: "Structural and biochemical insights on the XPC complex, a transcriptional co-activator required for embryonic stem cell pluripotency."

HHMI Investigator Meeting, September 2014. Janelia Research Campus, Ashburn, VA.

Poster: "Electron microscopy structures of the XPC DNA repair complex, a transcriptional co-activator in embryonic stem cells."

CSHL Mechanisms of Eukaryotic Transcription Meeting, August 2013. Cold Spring Harbor, NY.

Poster: "Structural insights on the XPC DNA repair complex, a stem-cell-specific transcriptional co-activator."

Teaching Experience

2012, 2013

Instructor: Biological Sciences Discipline Cluster workshop
Teaching Conference for First-Time Graduate Student Instructors

2013

Instructor: Grading Strategies workshop
GSI Teaching & Resource Center

2013

Developer: iBiology.org - iBioseminar Teaching Tools accompanying "The Molecular Biology of Gene Regulation"

Teaching Experience (cont.)

2011	Graduate Student Instructor MCB 102: Survey of Biochemistry and Molecular Biology Outstanding Graduate Student Instructor Award, 2012
2010	Graduate Student Instructor MCB 110: Molecular Biology: Macromolecular Synthesis and Cellular Function

Professional Service & Leadership

President, Dept. of MCB Graduate Student Organization	2014-2015
Vice-President, MCB Graduate Student Organization	2012-2013
Co-founder and co-organizer, UC Berkeley and CHORI Stem Cell Journal Club	2011-2015
Student Divisional Representative (Biochemistry, Biophysics, & Structural Biology)	2013-2015
Organizer, Thesis Evening Research Presentations	2012-2013
Student representative, MCB Graduate Affairs Committee	2011-2013
Student representative, MCB Graduate Admissions Committee	2011-2012
Delegate, UC Berkeley Graduate Assembly	2010-2011
Founder & President, Harvard University Biological Sciences Society (HUBSS)	2005-2008