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## Education

BS in Chemistry-Biochemistry, University of North Carolina at Chapel Hill; PhD, Weill Cornell Graduate School of Medical Sciences

Current Position

Senior Scientist I, Altos Labs

## Publications

Li S, Bonner JN, Wan B, So S, Summers A, Gonzalez L, Xue X, Zhao X. [Esc2 orchestrates substrate-specific sumoylation by acting as a SUMO E2 cofactor in genome maintenance.](#) Genes Dev. 2021 Feb 1;35(3-4):261-272. doi: 10.1101/gad.344739.120. Epub 2021 Jan 14. PMID: 33446573; PMCID: PMC7849368.

Bonner JN, Zhao X. [Replication-Associated Recombinational Repair: Lessons from Budding Yeast.](#) Genes (Basel). 2016 Aug 17;7(8). doi: 10.3390/genes7080048. Review. PubMed [PMID: 27548223]; PubMed Central PMCID: PMC4999836.

Bonner JN, Choi K, Xue X, Torres NP, Szakal B, Wei L, Wan B, Arter M, Matos J, Sung P, Brown GW, Branzei D, Zhao X. [Smc5/6 Mediated Sumoylation of the Sgs1-Top3-Rmi1 Complex Promotes Removal of Recombination Intermediates.](#) Cell Rep. 2016 Jul 12;16(2):368-378. doi: 10.1016/j.celrep.2016.06.015. Epub 2016 Jun 30. PubMed [PMID: 27373152]; PubMed Central PMCID: PMC5051638.

Xue X, Papusha A, Choi K, Bonner JN, Kumar S, Niu H, Kaur H, Zheng XF, Donnianni RA, Lu L, Lichten M, Zhao X, Ira G, Sung P. [Differential regulation of the anti-crossover and replication fork regression activities of Mph1 by Mte1.](#) Genes Dev. 2016 Mar 15;30(6):687-99. doi: 10.1101/gad.276139.115. Epub 2016 Mar 10. PMID: 26966246; PMCID: PMC4803054.

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[Xue, X., Choi, K., Bonner, J., Chiba, T., Kwon, Y., Xu, Y., Sanchez, H., Wyman, C., Niu, H., Zhao, X., Sung, P. \(2014\). Restriction of replication fork regression activities by a conserved SMC complex. Molecular Cell 56, 436-445.](#)

[Houck SA, Ren HY, Madden VJ, Bonner JN, Conlin MP, Janovick JA, Conn PM, Cyr DM, \(2014\). Quality control autophagy degrades soluble ERAD-resistant conformers of the misfolded membrane protein GnRHR. Molecular Cell 54, 166-79.](#)

