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Dissertation

[Structural and Functional Characterization of the RNA Exosome from *S. cerevisiae* \(2015\)](#)

Mentor

[Christopher D. Lima, PhD](#)

Start Year

2008

End Year

2015

Education

Cornell University

Publications

[Bose R, Karthaus WR, Armenia J, Abida W, Iaquinta PJ, Zhang Z, Wongvipat J, Wasmuth EV, Shah N, Sullivan PS, Doran MG, Wang P, Patruno A, Zhao Y, International SU2C/PCF Prostate Cancer Dream Team, Zheng D, Schultz N, Sawyers CL. \(2017\) ERF mutations reveal a balance of ETS factors controlling prostate oncogenesis. *Nature* 546, 671-675. PMID: PMC5576182 \[Available on 2018-06-29\].](#)

[Wasmuth EV, Zinder JC, Zattas D, Das M, Lima CD. \(2017\) Structure and reconstitution of yeast Mpp6-nuclear exosome complexes reveals that Mpp6 stimulates RNA decay and recruits the Mtr4 helicase. *Elife* 6, pii: e29062. PMID: PMC5553935.](#)

[Wasmuth EV, Lima CD. \(2017\) The Rrp6 C-terminal domain binds RNA and activates the nuclear RNA exosome. *Nucleic Acids Res.* 45, 846-860. PMID: PMC5314766](#)

[Zinder JC, Wasmuth EV, Lima CD. \(2016\) Nuclear RNA Exosome at 3.1 Å Reveals Substrate Specificities, RNA Paths, and Allosteric Inhibition of Rrp44/Dis3. *Mol Cell.* 64, 734-745. PMID: PMC5115963](#)

[Wasmuth E, Januszyk K, Lima C. \(2014\) Structure of an Rrp6-RNA exosome complex bound to polyA RNA. *Nature*, 511, 435-9. PMID: PMC4310248.](#)

[Wasmuth E, Lima C. \(2012\) Exo- and endoribonucleolytic activities of yeast cytoplasmic and nuclear RNA exosomes are dependent on the noncatalytic core and central channel. *Mol Cell*, 48, 133-144. PMID: PMC3472098.](#)

[Wasmuth E, Lima C. \(2012\) Structure and activities of the eukaryotic RNA exosome. Chapter in the book "The Enzymes" 31, 53-75. ISBN: 18746047. Publisher: Elsevier, Editors: Guillaume F. Chanfreau, Fuyuhiko Tamanoi.](#)

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