### List of Publications – Chen Davidovich

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| |  | | --- | | **List of Publications**   1. **C. Davidovich**, L. Zheng, K. J. Goodrich, T. R. Cech. "Promiscuous RNA binding by Polycomb repressive complex 2", *Nat. Struct. Mol. Biol.*, (2013) 20 (11), pp 1250-7.    * Selected as article of the month at *Nature Structural & Molecular Biology.*    * News & Views in*Nature Structural & Molecular Biology* byJohn Rinn    * Featured in *Nature Chemical Biology.*    * Recommended in F1000. 2. **C. Davidovich**. "Targeting Functional Centers of the Ribosome", *Springer Theses*, (2011). 3. A. Rasouly, **C. Davidovich,** E.Z. Ron. "The heat shock protein YbeY is required for optimal activity of the 30S ribosomal subunit", *J. Bacteriol.* (2010) 192 (18), pp. 4592-6. 4. **C. Davidovich**, M. Belousoff, I. Wekselman, T. Shapira, M. Krupkin, E. Zimmerman, A. Bashan, A. Yonath, "The Proto-Ribosome: An Ancient Nano-machine for Peptide Bond Formation", *Isr. J. Chem*, (2010) 50 (1), pp. 29–35. 5. M.J. Belousoff, **C. Davidovich**, E. Zimmerman, Y. Caspi, I. Wekselman, L. Rozenszajn, T. Shapira, O. Sade-Falk, L. Taha, A. Bashan, M.S. Weiss, A. Yonath. "Ancient machinery embedded in the contemporary ribosome." *Biochem. Soc. Trans.,* (2010) 38 (2), pp. 422-7. 6. T. Auerbach, I. Mermershtain, **C. Davidovich**, A. Bashan, M. Belousoff, I. Wekselman, E. Zimmerman, L. Xiong, D. Klepacki, K. Arakawa, H. Kinashi, A. Mankin and A. Yonath, “The structure of ribosome-lankacidin complex reveals ribosomal sites for synergistic antibiotics”, *Proc. Natl. Acad. Sci. U S A,* (2010) 107, pp. 1983-8. 7. **C. Davidovich**, M. Belousoff, A. Bashan and A. Yonath, “The evolving ribosome: from non-coded peptide bond formation to sophisticated translation machinery”, *Res. Microbiol.*, (2009) 160 (7), pp. 487-92. 8. T. Auerbach, I. Mermershtain, A. Bashan, **C. Davidovich**, H. Rosenberg, D. H. Sherman, and A. Yonath, “Structural basis for the antibacterial activity of the 12-membered-ring mono-sugar macrolide methymycin”, *Biotechnologia,* (2009) 84, pp. 24-35. 9. **C. Davidovich**, A. Bashan, A. Yonath, “Structural basis for cross-resistance to ribosomal PTC antibiotics”, *Proc. Natl. Acad. Sci. U S A*, (2008) 105 (52), pp. 20665-70. 10. I. Wekselman\*, **C. Davidovich\***, I. Agmon, E. Zimmerman, H. Rosenberg, A. Bashan, R. Berisio and A. Yonath, “Ribosome’s mode of function: myths, facts and recent results”, *J. Pept. Sci.*, (2008) 15 (3), pp. 122-30. 11. **C. Davidovich**, A. Bashan, T. Auerbach-Nevo, R.D. Yaggie, R.R. Gontarek, A. Yonath, “Induced-fit tightens pleuromutilins binding to ribosomes and remote interactions enable their selectivity”, *Proc. Natl. Acad. Sci. U S A*, (2007) 104 (11), pp. 4291-6. | |