

Dr. Megan Davey - Publications

1. DaSilva LF, Pillon S, Genereaux J, **Davey MJ**, Gloor GB, Karagiannis J, Brandl CJ. (2013) The C-terminal residues of *Saccharomyces cerevisiae* Mec1 are required for its localization, stability, and function. *G3 (Bethesda)*. Oct 3;3(10):1661-74.
2. Stead BE, Brandl CJ, Sandre MK, **Davey MJ**. (2012) Mcm2 phosphorylation and the response to replicative stress. *BMC Genet.* **13**(1): 36.
3. **Davey MJ**, Andrighetti HJ, Ma X, Brandl CJ. (2011) A synthetic human kinase can control cell cycle progression in budding yeast. *G3 (Bethesda)* **1**(4): 317-325.
4. Stead BE, Brandl CJ, **Davey MJ**. (2011) Phosphorylation of Mcm2 modulates Mcm2-7 activity and affects the cell's response to DNA damage. *Nucleic Acids Res.* **39**(16): 6998-7008.
5. Ma X, Stead BE, Rezvanpour A, **Davey MJ**. (2010) The effects of oligomerization on *Saccharomyces cerevisiae* Mcm4/6/7 function. *BMC Biochem.* **11**(1): 37.
6. **Davey MJ**. (2010) Towards defining a role for DDK in replication fork stabilization and/or recovery. *Cell Cycle* **9**(12): 2272-2273.
7. Stead BE, Sorbara CD, Brandl CJ, **Davey MJ** (2009) ATP Binding and Hydrolysis by Mcm2 Regulate DNA Binding by Mcm Complexes. *J Mol Biol.* **391**(2): 301-313.
8. Muecke M, Samuels M, **Davey M**, Jeruzalmi D (2008) Preparation of multimilligram quantities of large, linear DNA molecules for structural studies. *Structure* **16**(6): 837-841.
9. Alan J. Tackett, David J. Dilworth, **Megan J. Davey**, Michael O'Donnell, John D. Aitchison, Michael P. Rout, Brian T. Chait (2005) Proteomic and genomic characterization of a boundary chromatin complexes. *J. Cell Biol.* **169**: 35-47.
10. Daniel L. Kaplan, **Megan J. Davey** and Mike O'Donnell (2003) Mcm4/6/7 unwinds DNA by steric exclusion and can actively translocate along a duplex. *J. Biol. Chem.* **278**: 49171-49182.

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11. **Megan J. Davey**, Chiara Indiani and Mike O'Donnell (2003) Reconstitution of the Mcm2-7p heterohexamer, subunit arrangement and ATP site architecture. *J. Biol. Chem.* **278**: 4491-4499.
12. **Megan J. Davey** and Mike O'Donnell (2003) Replicative helicase loaders: Ring Makers and Ring Breakers *Current Biology* **13**: R594-R596.
13. **Megan J. Davey**, David Jeruzalmi, John Kuriyan, and Mike O'Donnell (2002) Motors and Switches: AAA+ machines within the replisome. *Nature Rev. Molec. Cell Bio.* **3**, 826–835.
14. **Megan J. Davey**, Linhua Fang, Peter McInerney, Roxana Georgescu and Mike O'Donnell (2002) The DnaC helicase loader is a dual ATP/ADP switch protein. *EMBO J.* **12**: 3148-3159.
15. **Megan J. Davey** and Mike O'Donnell (2000) Mechanisms of DNA replication. *Current Opinion Chem. Bio.* **4**:581-586.
16. Linhua Fang, **Megan J. Davey** and Mike O'Donnell (1999) Replisome assembly at *oriC*, the replication origin of *E. coli*, reveals an explanation for initiation sites outside an origin. *Mol. Cell* **4**: 541-553.
17. **Megan J. Davey** and Barbara E. Funnell (1997) Modulation of the P1 plasmid partition protein ParA by ATP, ADP and ParB. *J. Biol. Chem.* **272**: 15286-15292.
18. **Megan J. Davey** and Barbara E. Funnell (1994) The P1 plasmid partition protein ParA: A role for ATP in site-specific DNA binding. *J. Biol. Chem.* **269**: 29908-29913.