

Howard D. White, PhD

Recent Publications

Barua B, Winkelmann DA, White HD, Hitchcock-DeGregori SE. (2012) Regulation of actin-myosin interaction by conserved periodic sites of tropomyosin. *Proc Natl Acad Sci U S A.* 109(45):18425-30. doi: 10.1073/pnas.1212754109. Epub 2012 Oct 22.

Haithcock J, Billington N, Choi K, Fordham J, Sellers JR, Stafford WF, White H, Forgacs E. (2011) The Kinetic Mechanism of Mouse Myosin VIIa. *J Biol Chem.* 286:8819-28.

Song CF, Sader K, White, H, Kendrick-Jones J. and Trinick J. (2010) Nucleotide dependent shape changes in the reverse direction motor, myosin VI. *Biophys J.* 99:3336-44.

Nicholson W, White H and Trinick J. (2010) An approach to automated acquisition of cryoEM images from lacey carbon grids. *J Struct. Biol.* 172:395-9.

Houmeida A, Heeley DH, Belknap B, and White HD. (2010). Mechanism of regulation of native cardiac muscle thin filaments by rigor cardiac myosinS1 and calcium. *J. Biol. Chem.* 285:32760-9

Oke OA, Burgess SA, Forgacs E, Knight PJ, Sakamoto T, Sellers JR, White H, Trinick J. (2010). Influence of lever structure on myosin 5a walking. *PNAS* 107, 2509-2514.

Baboolal TG, Sakamoto T, Forgacs E, White HD, Jackson SM, Takagi Y, Farrow RE, Molloy JE, Knight PJ, Sellers JR & Peckham M. (2009). The SAH domain extends the functional length of the myosin lever. *PNAS* 106, 22193-22198.

Xu S, White HD, Offer GW, Yu LC. (2009). Stabilization of helical order in the thick filaments by blebbistatin: further evidence of coexisting multiple conformations of myosin. *Biophys J.* 96. 3673-3681.

Forgacs E, Sakamoto T, Cartwright S, Belknap B, Kovacs M, Toth J, Webb MR, Sellers JR & White HD. (2009). Switch 1 Mutation S217A Converts Myosin V into a Low Duty Ratio Motor. *J Biol Chem.* 284, 2138-2149.

Sakamoto T, Webb MR, Forgacs E, White HD & Sellers JR. (2008). Direct observation of the mechanochemical coupling in myosinVa during processive movement. *Nature* 455, 128-132.

Forgacs E, Cartwright S, Sakamoto T, Sellers JR, Corrie JET, Webb MR & White HD. (2008). Kinetics of ADP dissociation from the trail and lead heads of actomyosin V following the power stroke. *J Biol Chem.* 283, 766-773.

White HD, Ashcroft AE. (2007). Real-time measurement of myosin-nucleotide noncovalent complexes by electrospray ionization mass spectrometry. *Biophys J.* 93, 914-919.

Howard D. White, PhD

Forgacs E, Cartwright S, Kovács M, Sakamoto T, Sellers JR, Corrie JE, Webb MR, White HD. (2006). Kinetic mechanism of myosinV-S1 using a new fluorescent ATP analogue. *Biochem.* 45, 13035-13045.

Heeley DH, Belknap B, White HD (2006) Maximal activation of skeletal muscle thin filaments requires both rigor myosin S1 and calcium. *J Biol Chem.* 281:668-76.