

John Walker Part III Reading List 2018

1. Walker, J. E. (2013). The Keilin Lecture 2012: The ATP synthase: the understood, the uncertain and the unknown. *Biochem. Soc. Trans.* **41**, 1-16. PMID 23356252
2. Watt, I. N., Montgomery, M. G., Runswick, M. J., Leslie, A. G. W. & Walker, J. E. (2010). Bioenergetic cost of making an adenosine triphosphate molecule in animal mitochondria. *Proc. Natl. Acad. Sci. U. S. A.* **107**, 16823-16827. PMID 20847295
3. Guo, H., Bueler, S. A. & Rubinstein, J. L. (2017). Atomic model for the dimeric F_o region of mitochondrial ATP synthase. *Science.* **358**, 936-940. PMID 29074581
4. Zhou, A., Rohou, A., Schep, D. G., Bason, J. V., Montgomery, M. G., Walker, J. E., Grigorieff, N. & Rubinstein, J. L. (2015). Structure and conformational states of the bovine mitochondrial ATPase synthase by cryo-EM. *eLife.* **4**, e10180. PMID 26439008
5. Bason, J. V., Montgomery, M. G., Leslie, A. G. W. & Walker, J. E. (2014). Pathway of binding of the intrinsically disordered mitochondrial inhibitor protein to F₁-ATPase. *Proc. Natl. Acad. Sci. U. S. A.* **111**, 11305-11310. PMID 25049402
6. Bason, J. V., Montgomery, M. G., Leslie, A. G. W. & Walker, J. E. (2015). How release of phosphate from mammalian F₁-ATPase generates a rotary substep. *Proc. Natl. Acad. Sci. U. S. A.* **112**, 6009-6014. PMID 25918412
7. Andries, *et al* (2005). A diarylquinoline drug active on the ATP synthase from *Mycobacterium tuberculosis*. *Science*, **307**, 223-227. PMID 15591164
8. Preiss, *et al* (2015). Structure of the mycobacterial ATP synthase F_o rotor ring in complex with the anti-TB drug bedaquiline. *Sci. Adv.* **1**:e1500106. PMID 26601184
9. Georgio, *et al* (2013). Dimers of mitochondrial ATP synthase form the permeability transition pore. *Proc. Natl. Acad. Sci. U. S. A.* **110**, 5887-5892. PMID 23530243
10. Alavian, *et al* (2014) An uncoupling channel within the c-subunit of the ATP synthase is the permeability transition pore. *Proc. Natl. Acad. Sci. U. S. A.* **111**, 10580-10585. PMID 24979777
11. He, *et al* (2017) Persistence of the mitochondrial permeability transition in the absence of subunit c of human ATP synthase. *Proc. Natl. Acad. Sci. U. S. A.* **114**, 3409-3414. PMID 28289229
12. He, *et al* (2017) Permeability transition in human mitochondria persists in the absence of peripheral stalk subunits of ATP synthase. *Proc. Natl. Acad. Sci. U. S. A.* **114**, 9086-9091. PMID 28784775
13. He, *et al* (2018) Assembly of the membrane domain of ATP synthase in human mitochondria. *Proc. Natl. Acad. Sci. U. S. A.* *in press*
14. Letts, Fiedorczuk & Sazanov (2016) The architecture of respiratory super-complexes *Nature* **537**, 644-648. PMID 27654913

15. Blaza *et al* (2014) Kinetic evidence against partitioning of the quinone pool and the catalytic relevance of respiratory chain super complexes. *Proc. Natl. Acad. Sci. U. S. A* **111**, 15735- 15740. PMID 25331896
16. Bulutoglu *et al.* (2016) Direct evidence for metabolic formation and substrate channeling in recombinant TCA cycle enzymes *ACS Chem. Biol.* **11**, 2847-2853. PMID 27556423
17. Wu, F, Minter, S, (2015) Krebs cycle metabolic pathway: structural evidence of substrate channeling revealed by cross-linking and mass spectrometry. *Angewandte Chemie* **54**, 1851-1854. PMID 25537779
18. Zhu, Vinothkumar & Hirst (2016) Structure of mammalian respiratory complex I. *Nature* **536**, 354-358. PMID 27509854
19. Fiedorczuk, Letts, Degliuposti, Kaszuba, Skehel & Sazanov (2016) Atomic structure of the entire mammalian mitochondrial complex I. *Nature* **536**, 19794. PMID 27595392