

- S1. Solmaz SRN, Hunte C (2008) Structure of complex III with bound cytochrome *c* in reduced state and definition of a minimal core interface for electron transfer. *J Biol Chem* 283: 17542-17549.
- S2. Engstrom G, Rajagukguk R, Sauders AJ, Patel CN, Rajagukguk S, et al. (2003) Design of a ruthenium-labeled cytochrome *c* derivative to study electron transfer with the cytochrome *bc*₁ complex. *Biochemistry* 42: 2816-2824.
- S3. Schwieters CD, Clore GM (2002) Reweighted atomic densities to represent ensembles of NMR structures. *J Biomol NMR* 23: 221-225.
- S4. Kisker C, Schindelin H, Pacheco A, Wehbi WA, Garrett RM, et al. (1997) Molecular basis of sulfite oxidase deficiency from the structure of sulfite oxidase. *Cell* 91: 973-983.
- S5. Salemme FR (1976) An hypothetical structure for an intermolecular electron transfer complex of cytochromes *c* and *b*₅. *J Mol Biol* 102: 563-568.
- S6. Pelletier H, Kraut J (1992) Crystal structure of a complex between electron transfer partners, cytochrome *c* peroxidase and cytochrome *c*. *Science* 258: 1748-1755.
- S7. Vitu E, Bentzur M, Lisowsky T, Kaiser CA, Fass D (2006) Gain of function in an ERV/ALR sulfhydryl oxidase by molecular engineering of the shuttle disulfide. *J Mol Biol* 362: 89-101.
- S8. Wang K, Mei H, Geren L, Miller MA, Saunders A, et al. (1996) Design of a ruthenium-cytochrome *c* derivative to measure electron transfer to the radical cation and oxyferryl heme in cytochrome *c* peroxidase. *Biochemistry* 35: 15107-15119.
- S9. Summers FE, Erman JE (1988) Reduction of cytochrome *c* peroxidase compounds I and II by ferrocyanocytocrome *c*. A stopped-flow kinetic investigation. *J Biol Chem* 263: 14267-14275.
- S10. Barker PD, Mauk AG (1992) pH-linked conformational regulation of a metalloprotein oxidation-reduction equilibrium: electrochemical analysis of the alkaline form of cytochrome *c*. *J Am Chem Soc* 114: 3619-3624.
- S11. Purcell WL, Erman JE (1976) Cytochrome *c* peroxidase catalyzed oxidations of substitution inert iron(II) complexes. *J Am Chem Soc* 98: 7033-7037.
- S12. McLendon G, Miller JR (1985) The dependence of biological electron transfer rates on exothermicity. The cytochrome *c*/cytochrome *b*₅ couple. *J Am Chem Soc* 107: 7811-7816.
- S13. Velick SF, Strittmatter P (1956) The oxidation-reduction stoichiometry and potential of microsomal cytochrome. *J Biol Chem* 221: 265-275.

- S14. Erecinska M, Chance B, Wilson DK (1971) The oxidation-reduction potential of the copper signal in pigeon heart mitochondria. *FEBS Lett* 16: 284-286.
- S15. Schroedl NA, Hartzell CR (1977) Oxidative titrations of reduced cytochrome aa_3 : correlation of midpoint potentials and extinction coefficients observed at three major absorption bands. *Biochemistry* 16: 4961-4965.
- S16. Sharp KA (1998) Calculation of electron transfer reorganization energies using the finite difference Poisson-Boltzmann model. *Biophys J* 73: 1241-1250.
- S17. Farver O, Lu Y, Ang MC, Pecht I (1999) Enhanced rate of intramolecular electron transfer in an engineered purple CuA azurin. *Proc Natl Acad Sci USA* 96: 899-902.
- S18. Capeillère-Blandin C, Barber MJ, Bray RC (1986) Comparison of the processes involved in reduction by the substrate for two homologous flavocytochromes b_2 from different species of yeast. *Biochem J* 238: 745-756.
- S19. Banci L, Assfalg M (2001) Mitochondrial cytochrome c . In: Messerschmidt A, Huber R, Poulos TL, Wieghardt K, editors. *Handbook of Metalloproteins*. Chichester: Wiley, pp. 33-43.
- S20. Dabir DV, Leverich EP, Kim SK, Tsai FD, Hirasawa M, et al. (2007) A role for cytochrome c and cytochrome c peroxidase in electron shuttling from Erv1. *EMBO J* 26: 4801-4811.
- S21. Banci L, Bertini I, Calderone V, Cefaro C, Ciofi-Baffoni S, et al. (2012) An electron-transfer path through an extended disulfide relay system: the case of the redox protein ALR. *J Am Chem Soc* 134: 1442-1445.
- S22. Durley RC, Mathews FS (1996) Refinement and structural analysis of bovine cytochrome b_5 at 1.5 Å resolution. *Acta Crystallogr, Sect D: Biol Crystallogr* 52: 65-76.
- S23. Louie GV, Brayer GD (1990) High-resolution refinement of yeast *iso*-1-cytochrome c and comparisons with other eukaryotic cytochromes c . *J Mol Biol* 214: 527-555.
- S24. Tsukihara T, Shimokata K, Katayama Y, Shimada H, Muramoto K, et al. (2003) The low-spin heme of cytochrome c oxidase as the driving element of the proton-pumping process. *Proc Natl Acad Sci USA* 100: 15304-15309.
- S25. Bushnell GW, Louie GV, Brayer GD (1990) High-resolution three-dimensional structure of horse heart cytochrome c . *J Mol Biol* 214: 585-595.
- S26. Cunane LM, Barton JD, Chen ZW, Welsh FE, Chapman SK, et al. (2002) Crystallographic study of the recombinant flavin-binding domain of baker's yeast flavocytochrome b_2 : comparison with the intact wild-type enzyme. *Biochemistry* 41: 4264-4272.