

Section 13.1

Benesch R, Benesch RE (1969). Intracellular organic phosphates as regulators of oxygen release by haemoglobin. *Nature* 221: 618-622.

Berenbrink M, Koldkjær P, Kepp O, Cossins AR (2005). Evolution of oxygen secretion in fishes and the emergence of a complex physiological system. *Science* 307: 1752-1757.

Garry DJ, Ordway GA, Lorenz JN, Radford NB, Chin ER, Grange RW, Bassel-Duby R, Williams RS (1998). Mice without myoglobin. *Nature*, 395, 905-908

Gödecke A, Flögel U, Zanger K, Din, Z, Hirchenhain J, Decking UKM, Schrader J (1999). Disruption of myoglobin in mice induces multiple compensatory mechanisms. *Proceedings of the National Academy of Sciences USA* 96: 10495-10500

Jessen T-H, Weber RE, Fermi G, Tame J, Braunitzer G (1991). Adaptation of bird hemoglobins to high altitudes: Demonstration of molecular mechanisms by protein engineering. *Proceedings of the National Academy of Sciences USA* 88: 6519-6522.

Perutz MF, Rossmann MG, Cullis AF, Muirhead H, Will G, North, ACT (1960). Structure of haemoglobin. A three-dimensional Fourier synthesis at 5.5-Å resolution, obtained by X-ray analysis. *Nature* 185: 416-422

Rummer JL, McKenzie DJ, Innocenti A, Supuran CT, Brauner CJ (2013). Root effect haemoglobin may have evolved to enhance general tissue oxygen delivery. *Science* 340: 1327-1329.

Snyder GK (1973). Erythrocyte evolution: the significance of the Fåhraeus-Linqvist phenomenon. *Respiration Physiology* 19: 271-278.

Weber RE, Jessen T-H, Malte H, Tame J (1993). Mutant hemoglobins (α^{119} -Ala and β^{55} -Ser): functions related to high-altitude respiration in geese. *Journal of Applied Physiology* 75: 2646-2655.

Section 13.2

Glatz JFC, Schaap FG, Binas B, Bonen A, van der Vusse GJ, Luiken JJFP (2003). Cytoplasmic fatty acid-binding protein facilitates fatty acid utilization by skeletal muscle. *Acta Physiologica Scandinavica* 178: 367-371.

McFarlan JT, Bonen A, Guglielmo CG (2009). Seasonal upregulation of fatty acid transporters in flight muscles of migratory white-throated sparrows (*Zonotrichia albicollis*). *Journal of Experimental Biology* 212: 2934-2940.

Metcalf VJ, Gemmell NJ (2005). Fatty acid transport in cartilaginous fish: absence of albumin and possible utilization of lipoproteins. *Fish Physiology and Biochemistry* 31: 55-64.

Richards JG, Bonen A, Heigenhauser GJF, Wood CM (2004). Palmitate movement across red and white muscles membranes of rainbow trout. *American Journal of Physiology* 286: R46-R53

Roberts TJ, Weber J-M, Hoppeler H, Weibel ER, Taylor CR (1996). Design of the oxygen and substrate pathways. II Defining the upper limits of carbohydrate and fat oxidation. *Journal of Experimental Biology* 199: 1651-1658.

Uldry M, Thorens B (2004). The SLC2 family of facilitated hexose and polyol transporters. *Pflügers Archiv - European Journal of Physiology* 447: 480-489.

Section 13.3

Hitzig BM, Perng W-C, Burt T, Okunieff P, and Johnson DC (1994). ¹H-NMR measurement of fractional dissociation of imidazole in intact animals. *American Journal of Physiology* 266: R1008-R1015.

Jackson DC, Palmer SE, Meadow WL (1974). The effects of temperature and carbon dioxide breathing on ventilation and acid-base status of turtles. *Respiration Physiology* 20: 131-146.

Lutz PL, Bergey A, Bergey M (1989). Effects of temperature on gas exchange and acid-base balance in the sea turtle *Caretta caretta* at rest and during routine activity. *Journal of Experimental Biology* 144: 155-169.

Malan A, Wilson TL, Reeves RB (1976). Intracellular pH in cold-blooded vertebrates as a function of body temperature. *Respirator Physiology* 28: 29-47.

Randall DJ, Cameron JN (1973). Respiratory control of arterial pH as temperature changes in rainbow trout *Salmo gairdneri*. *American Journal of Physiology* 225: 997-1002.

Stewart PA (1983). Modern quantitative acid-base chemistry. *Canadian Journal of Physiology and Pharmacology* 61: 1444-1461.

Wood CM (1988). Acid-base and ionic exchanges at the gills and kidney after exhaustive exercise in rainbow trout. *Journal of Experimental Biology* 136, 461-481.

Wood SC, Johansen K, Glass ML, Hoyt RW (1981). Acid-base regulation during heating and cooling in the lizard, *Varanus exanthematicus*. *Journal of Applied Physiology* 50: 779-783.