

SELECTED PUBLICATIONS

SUMMARY AS PER MARCH 31ST, 2020

24 publications, including 22 peer-reviewed journal articles, 2 peer-reviewed scholarly book chapter, and 1 non-peer reviewed popular scientific article. Citations: 220, h-index: 10 (Google Scholar)

Damsgaard, C., H. Lauridsen, T. S. Harter, G. T. Kwan, J. S. Thomsen, A. M. D. Funder, C. T. Supuran, M. Tresguerres, P. G. D. Matthews, C. J. Brauner. A novel acidification mechanism for greatly enhanced oxygen supply to the fish retina. *eLife* (in review after first revision).

Damsgaard, C., M. McGrath, C. M. Wood, J. G. Richards, C. J. Brauner (2020). Ion-regulation, acid/base-balance, kidney function, and effects of hypoxia in coho salmon, *Oncorhynchus kisutch*, after long-term acclimation to different salinities. *Aquaculture* 528: 735571.

Damsgaard, C., V. Baliga, E. Bates, W. Burggren, D. J. McKenzie, E. W. Taylor, P. A. Wright (2020). Evolutionary and Cardio-Respiratory Physiology of Air-breathing and Amphibious Fishes. *Acta Physiologica* 228: e13406.

Damsgaard, C., H. Lauridsen, A. M. D. Funder, J. S. Thomsen, T. Desvignes, D. Crossley II, P. R. Møller, D. T. T. Huong, H. W. Detrich III, A. Brüel, E. Warrant, T. Wang, J. R. Nyengaard, M. Berenbrink, M. Bayley (2019). Retinal oxygen supply shaped the functional evolution of the vertebrate eye. *eLife* 8: e52153.

Bayley, M., **C. Damsgaard**, M. T. Thomsen, H. Malte, T. Wang. Learning to air breathe; the first steps. *Physiology* 34: 14-29.

Damsgaard, C., M. T. Thomsen, M. Bayley, T. Wang (2018). Air-breathing changes the pattern for temperature-induced pH regulation in a bimodal breathing teleost. *Journal of Comparative Physiology* 188: B451-459.

Damsgaard, C., L. M. Phuong, D. T. T. Houg, F. B. Jensen, T. Wang, M. Bayley (2015). High affinity and temperature sensitivity of blood oxygen binding in *Pangasianodon hypophthalmus* due to lack of chloride-hemoglobin allosteric interaction. *American Journal of Physiology* 308: R907-915.

Damsgaard, C., L. T. H. Gam, D. D. Tuong, P. V. Thinh, D. T. T. Huong, T. Wang, M. Bayley (2015). High capacity for extracellular acid/base regulation in the air-breathing fish *Pangasianodon hypophthalmus*. *The Journal of Experimental Biology* 218: 1290-1294.

Lefevre, S., **C. Damsgaard**, G. E. Nilsson, D. R. Pascale, J. A. Stecyk (2014). Air breathing in the arctic: influence of temperature, hypoxia and restricted air access on respiratory physiology of Alaska blackfish (*Dallia pectoralis*). *The Journal of Experimental Biology* 217: 4387-4398. [Journal Cover]

Damsgaard, C., I. Findorf, S. Helbo, Y. Kocagoz, R. Buchanan, D. T. T. Huong, R. E. Weber, A. Fago, M. Bayley, T. Wang (2014). High blood oxygen affinity in the air-breathing swamp eel *Monopterus albus*. *Comparative Biochemistry and Physiology* 178A: 102-108.

Damsgaard, C., J. F. Storz, F. Hoffmann, A. Fago (2013). Hemoglobin isoform differentiation and allosteric regulation of hemoglobin oxygen binding in the turtle *Trachemys scripta*. *American Journal of Physiology – Regulatory, Integrative and Comparative Physiology* 305: R961-967.

Damsgaard, C., A. Fago, S. Hagner-Holler, H. Malte, T. Burmester, R. E. Weber (2013). Molecular and functional characterization of hemocyanin of the giant African millipede, *Archispirostreptus gigas*. *The Journal of Experimental Biology* 216: 1616-1623.