

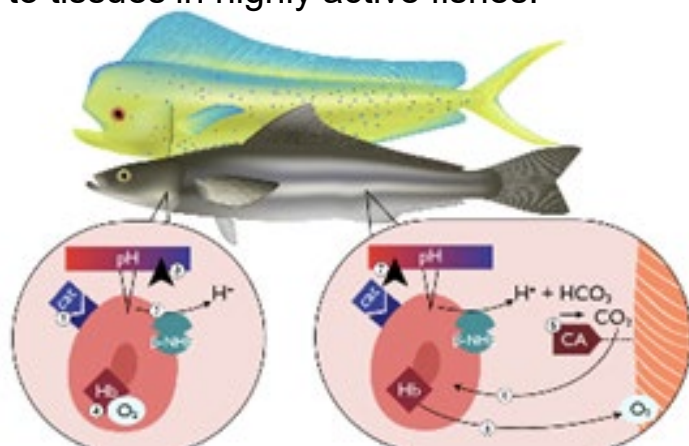


Physiological adaptations at the gills and tissues of fishes

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Fish comprise almost half of all vertebrates by species number and not only survive, but thrive, in almost every aquatic environment on the planet. Adaptations at the level of the gills and tissues have played an important role in this groups' remarkable adaptive success. In this talk, I will review our findings that have used a range of in vivo and in vitro experiments, on a broad phylogeny of fishes at different developmental stages to *i)* shed insight into the early evolution of gill function and *ii)* identify and characterize a unique system that greatly enhances oxygen unloading to tissues in highly active fishes.



Shu et al., 2022 Comp Biochem Physiol 264, 111101)

Friday September 27th at 14.15

Auditorium G2 in building 1532-122