

# Respiration Papers (Directory)

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Copies of these papers are located in the **shared google drive**. > RespirationPapers <https://drive.google.com/drive/folders/1Jcnx6t1sskNkcT2oJUaCiJAIspl1HUusT>

## Important resources

**Weibel Taylor Hoppeler 1991**. Symmorphosis: A testable hypothesis of structure-function relationship **EVERYONE READ**

## Fish

**Wilkie 2011**. Lamprey respiratory physiology, osmoregulation, and ionoregulation.

**Wood Eom 2021**. The osmorepiratory compromise in the fish gill <https://doi.org/10.1016/j.cbpa.2021.110895>. Very interesting paper on control of oxygen flux as well as iono and osmoregulation (next section!) pdf is in shared drive.

## Early Tetrapods & Amphibians & Misc

**Alhberg Clack 2006**. A firm step from water to land (early tetrapod evol)

**Carroll 2001**. Early tetrapod evolution.

**Dudley 1998**. Atmospheric oxygen, giant paleozoic insects and the evolution of aerial locomotor performance

**Gans 1970**. Respiration in early tetrapods: The Frog is a Red Herring

**Schaeffer 1965**. Rhipsidian (fish) - amphibian transition

**Pierson 2009**. The cardiopulmonary physiology of dinosaurs

**Shelton Boutilier 1982**. Apnea in amphibians and reptiles

**Wang et al 2001.** respiratory consequences of feeding in amphibians and reptiles

## **Reptiles**

**Bennett 1973.** Ventilation in lizards: rest and activity

**Crawford Kampe 1971.** Lizard *Sauromalus obesus* physiological responses to temperature

**Farmer and Carrier 2000.** Respiration and gas exchange during recovery from exercise in the American alligator

**Glass and Wood 1983.** Respiration in reptiles

**Gleeson and Bennett 1985.** Respiratory and cardiovascular adjustments to exercise in reptiles

**Milsom 1984.** Breathing in gecko

**Shelton Boutilier 1982.** Apnea in amphibians and reptiles

**Wang Carrier Hicks 1997.** Ventilation and gas exchange in lizards during treadmill exercise

**Wang et al 2001.** respiratory consequences of feeding in amphibians and reptiles

## **Birds**

**Benzo, Sturke 1986.** Sturkey's avian physiology – **Essential for anyone attempting a Bird model** Check out from library and See me for help

**Berger, Hart, and Roy 1970.** Respiration, oxygen consumption and heart rate in some birds during rest and exercise

**Brackenberry, Avery, and Gleeson 1981.** Respiration in exercising fowl

**Brackenberry, Gleeson, and Avery 1982.** Control of ventilation in running birds: effects of hypoxia, hyperoxia, and CO<sub>2</sub>

**Brackenberry, Darby, and El-Sayed 1989.** Respiratory function in exercising fowl following occlusion of the thoracic air sacs

**Butler 1991.** (not me!) Exercise in birds

**Calder Schmidt-Neilsen 1966.** Evaporative cooling and respiratory alkalosis in the pigeon

**Frappell et al 2001.** Scaling of respiratory variables in birds

**Hinds and Calder 1971.** Tracheal Dead Space in the Respiration of Birds

**Schmidt-Nielsen, Kanwiyher, Lasiewski, Cohn, Bretz 1969.** Temperature regulation and respiration in the Ostrich

## **Mammals**

**Fortuna and Saibene 1991.** Mechanics of breathing in horses at rest and during exercise

**Gallivan McDonnell Forrest 1989.** Comparative pulmonary mechanics in the horse and the cow

**Hoppeler and Weibel 1998.** Limits for oxygen and substrate transport in mammals \*\*  
more about symmorphosis \*\*

**Huscuk Et al 1990.** Ventilatory control during exercise in calves with artificial hearts

**Jones Longworth Lindholm Conley Karas Kayar Taylor 1989.** O<sub>2</sub> transport in large mammals (horse vs steer)

**Martin Hutchinson.** 1979 Ventilation in two amphibians

[[Noel et al 2022](#)] The origin of the allometric scaling of lung ventilation in mammals. *Modeling including BMR, FMR (DMR), and MMR.*

**Stahl 1967.** Scaling of Respiratory Variables in Mammals

**Weibel 1987.** Scaling of structural and functional variables in the respiratory system (mammals)

**Withers 1992.** p 627-631: pages from your text with a couple of highlighted comments inserted by me.

[[Young et al 1992](#)] Some properties of the mammalian locomotory and respiratory systems in relation to body mass. *Coupling of locomotion and respiration at the trot-gallop transition.*

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