

TABLE OF CONTENTS – Reproductive Biology & Phylogeny of Lizards and Tuatara

Lizard reproduction: A history of discovery.

The phylogeny of lizard families.

Pheromones and chemical communication in lizards.

Sexual selection and sexual dimorphism.

Cues for reproduction in squamate reptiles.

Female reproductive anatomy: cloaca, oviduct, and sperm storage.

Female reproductive cycles.

Oogenesis.

Discovery of parthenogenesis in lizards.

Male reproductive anatomy: the gonads, gonadoducts, sexual segment of the kidney, and cloaca.

Male reproductive cycles.

The architecture of the testis, spermatogenesis, and mature spermatozoa.

Evolutionary ecology of reproductive investment in lizards.

Viviparity and placentation in lizards.

The complexity of understanding patterns of multiple paternity in lizards.

The evolutionary ecology of parental care in lizards.

Reproductive anatomy and cycles of tuatara (*Sphenodon punctatus*), an intriguing non-squamate lepidosaur.

The ultrastructure of spermatogenesis and spermatozoa of the tuatara *Sphenodon punctatus* (Sphenodontidae: Amniota).

