

TABLE OF CONTENTS – Comparative Mammalian Immunology

- **SECTION 1: MAMMALIAN IMMUNOLOGY**

1. The phylogeny of the mammals
2. The evolution of viviparity
3. The evolution of lactation
4. Endothermy
5. The mammalian microbiota and its role in the evolution of the immune system
6. Innate immunity in mammals
7. The evolution of the major histocompatibility complex and kir receptors
8. The generation of b cell and t cell antigen diversity
9. Mammalian lymphoid systems
10. Mammalian longevity and aging

SECTION 2: MAMMALIAN ORDERS

11. Monotremes: Echidnas and platypus
12. Marsupials: Koalas and kangaroos
13. Placentals: Cetartiodactyla: camels and llamas
14. Cetartiodactyla: Pigs and peccaries
15. Ruminants: Cattle, and sheep
16. Cetaceans: Dolphins and whales
17. Chiropterans: Bats
18. Carnivora
19. Perissodactyls: Horses
20. Lagomorphs: Rabbits
21. Rodents: Rats and mice
22. Primates: Monkeys, apes, and humans
23. Paenungulates: Elephants and sirenians
24. Xenarthrans: Sloths and anteaters
25. Synthesis.