



The Teeth of Mammalian Vertebrates

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The Teeth of Mammalian Vertebrates presents a comprehensive survey of mammalian dentitions, based on material gathered from museums and research workers from around the world. The teeth are major factors in the success of mammals, and knowledge of tooth form and function is essential in mammalian biology. Illustrated with high-quality color photographs of skulls and dentitions, together with X-rays, CT images and histology, this book reveals the tremendous variety of tooth form and structure in mammals. Written by two internationally recognized experts in dental anatomy, *The Teeth of Mammalian Vertebrates* provides an up-to-date account of how teeth are adapted to acquiring and processing food, and draws together information on jaw function and on all aspects of tooth form and structure. The book also describes the ways in which composition, wear patterns and incremental markings of teeth can be exploited to gain information about growth, diet and other aspects of life history.

With its companion volume (*The Teeth of Non-Mammalian Vertebrates*), this book provides a complete survey of the teeth of vertebrates. It is the ideal resource for students and researchers in zoology, biology, anthropology, archaeology, palaeontology, and dentistry.

Key Features

- Provides a comprehensive account of mammalian dentitions, together with helpful reading lists
- The text is illustrated by 900 high-quality photographs, X-rays, CT scans and histological images from leading researchers and world class museum collections
- Depicts lateral and occlusal views of the skull and dentition, which convey a much greater level of morphological detail than line drawings alone, and allow the relationship between the teeth and skull to be clearly visualized
- Contains clear and concise up-to-date reviews of the structure and properties of the dental tissues, especially the enamel and tooth support system, which play vital roles in the functioning of the mammalian dentition

Front cover: Common marmoset (*Callithrix jacchus*). Oblique frontal view of skull. CT image. Courtesy Dr R Hardiman (see Figure 9.13).

Back cover: (from left to right): Figure 7.12C. Lateral radiograph of North American porcupine (*Erethizon dorsatum*). Courtesy Museum of Life Sciences King's College London; Figure 8.2C. Dentition of Malay colugo (*Galeopterus variegatus*). Anterior teeth of left mandible. Courtesy Royal College of Surgeons of England; Figure 1.7. Lateral view of the dentition of the marsupial mouse (*Antechinus stuarti*). Micro-CT scan. Courtesy Dr R. Hardiman.



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