



Photographic and Descriptive Musculoskeletal Atlas of Orangutans: with notes on the attachments, variations, innervations, function and synonymy and weight of the muscles

By Rui Diogo, Josep M. Potau, Juan F. Pastor, Felix J. de Paz, Mercedes Barbosa, Eva M. Ferrero, Gaëlle Bello, Mohammed Ashraf Aziz, Julia Arias-Martorell, Bernard Wood

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Orangutans, together with chimpanzees and gorillas, are our closest living relatives. **Photographic and Descriptive Musculoskeletal Atlas of Orangutans**, the first photographic and descriptive musculoskeletal atlas of the genus *Pongo*, adopts the same format as the photographic atlases of *Gorilla*, *Pan* and *Hylobates* previously published by the same authors. These four books are part of a series of monographs that will set out the comparative and phylogenetic context of the gross anatomy and evolutionary history of the soft tissue morphology of modern humans and their closest relatives.

The present atlas, which includes detailed high-quality photographs of musculoskeletal structures from most anatomical regions of the body as well as textual information about the attachments, innervation, function and weight of the respective muscles, is based on dissections of five orangutans and on an extensive review of the literature. It provides an updated review of the anatomical variations within orangutans as well as an extensive list of the synonyms used in the literature to designate the structures we discuss. It will be of interest to students, teachers and researchers studying primatology, comparative anatomy, functional morphology, zoology, and physical anthropology and to medical students, doctors and researchers who are curious about the origin, evolution, homology and variations of the musculoskeletal structures of modern humans.

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About the Author

Rui Diogo is an Assistant Professor at the Howard University College of Medicine and a Resource Faculty at the Center for the Advanced Study of Hominid Paleobiology of George Washington University (US). He is the author or co-author of numerous publications, and the co-editor of the books *Catfishes* and *Gonorynchiformes and ostariophysan interrelationships - a comprehensive review*. He is the sole author or first author of several monographs, including the three atlases of gorillas, chimpanzees and hylobatids and the books *Morphological evolution, adaptations, homoplasies, constraints and evolutionary trends - catfishes as a case study on general phylogeny and macroevolution*, *The origin of higher clades - osteology, myology, phylogeny and evolution of bony fishes and the rise of tetrapods*, *Muscles of vertebrates - comparative anatomy, evolution, homologies and development*, and *Comparative anatomy and phylogeny of primate muscles and human evolution*.

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