

The Evolution of the Primate Foot [Anatomy, Function, and Palaeontological Evidence /

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Monografía

The human foot is a unique and defining characteristic of our anatomy. While most primates have grasping, prehensile feet, the human foot stands out as a powerful non-grasping propulsive lever that is central to our evolution as adept bipedal walkers and runners. Very few books have compiled and evaluated key research on the primate foot and provided a perspective on what we know and what we still need to know. This book serves as an essential companion to âThe Evolution of the Primate Handâ volume, also in the Developments in Primatology series. This book includes chapters written by experts in the field of morphology and mechanics of the primate foot, the role of the foot in different aspects of primate locomotion (including but not limited to human bipedalism), the âhard evidenceâ of primate foot evolution including fossil foot bones and fossil footprints, and the relevance of our footâs evolutionary history to modern human foot pathology. This volume addresses three fundamental questions: (1) What makes the human foot so different from that of other primates? (2) How does the anatomy, biomechanics, and ecological context of the foot and foot use differ among primates and why? (3) How did foot anatomy and function change throughout primate and human evolution, and why is this evolutionary history relevant in clinical contexts today? This co-edited volume, provides, for the first time, a comprehensive review and scholarly discussion of the primate foot from multiple perspectives. It is accessible to readers at different levels of inquiry (e.g., undergraduate/graduate students,

postdoctoral researchers, other scholars outside of biological anthropology). This volume provides an all-inâone resource for research on the comparative and functional morphology and evolution of the primate foot.

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