



Functional Anatomy of the Vertebrates: An Evolutionary Perspective

By Karel Liem, William Bemis, Warren F. Walker, Lance Grande

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This book introduces students to the groups of vertebrates and explores the anatomical evolution of vertebrates within the context of the functional interrelationships of organs and the changing environments to which vertebrates have adapted. The text contains all of the material taught in classic comparative anatomy courses, but integrates this material with current research in functional anatomy. This integration adds a new dimension to our understanding of structure and helps students understand the evolution of vertebrates.

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Editorial Review

Review

Part I: Background for the Study of Vertebrate Anatomy. 1. Introduction. 2. Phylogenetic Relationships of Chordates and Craniates. 3. Diversity and Phylogenetic History of Craniates. 4. Early Development and Comparative Embryology. 5. Form and Function. Part II: Protection, Support, and Movement. 6. The Integument. 7. The Cranial Skeleton. 8. The Postcranial Skeleton: The Axial Skeleton. 9. The Postcranial Skeleton: The Appendicular Skeleton. 10. The Muscular System. 11. Functional Anatomy of Support and Locomotion. Part III: Integration. 12. The Sense Organs. 13. The Nervous System I: Organization, Spinal Cord, and Peripheral Nerves. 14. The Nervous System II: The Brain. 15. Endocrine Integration. Part IV: Metabolism and Reproduction. 16. The Digestive System: Oral Cavity and Feeding Mechanisms. 17. The Digestive System: Pharynx, Stomach, and Intestine. 18. The Respiratory System. 19. The Circulatory System. 20. The Excretory System and Osmoregulation. 21. The Reproductive System and Reproduction. Part V: Conclusion. 22. Conclusion/Epilogue.

About the Author

Warren F. Walker, Jr., is Emeritus Professor at Oberlin College, where he taught for 38 years after taking a Harvard doctorate. Well known for his articles on reptile anatomy and locomotion, Dr. Walker is the author of seven laboratory manuals and textbooks published in over 30 editions and in several translations. In addition to being the coauthor of *Vertebrate Dissection*, Dr. Walker is also coauthor of the Brooks/Cole title *FUNCTIONAL ANATOMY OF THE VERTEBRATES*, Third Edition by Liem/Bemis/Walker/Grande.

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