

Advanced Veterinary Anatomy

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Dr. Santosh Kumar Sahu

Assistant Professor

Veterinary Anatomy and Histology

Institute of Veterinary Science and Animal Husbandry (IVSAH)

Siksha 'O' Anusandhan (SOA) Deemed to be University

Dr. Shilpa Modekar Salunke

Associate Professor & I/C Head

Department of Veterinary Anatomy and Histology

College of Veterinary and Animal Sciences Parbhani

MAFSU, Nagpur, Maharashtra State

Dr. Shashi Tekam

Assistant Professor (Veterinary Anatomy)

College of Veterinary Science & Animal Husbandry, Jabalpur

Nanaji Deshmukh Veterinary Science University - 482001

Dr. Manish Gautom

Ph.D. Scholar (Veterinary Anatomy)

Odisha University of Agriculture and Technology, Bhubaneswar



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Head, Production (Higher Education and Professional) & Publishing Director

Dr. Jitendra Mehta

Product Manager

Aman Saxena

General Manager

Jaya Mehta

Graphic Designer

Avneet Kaur

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Office Address:

VITAL BIOTECH PUBLICATION

772, Basant Vihar, Kota,

Rajasthan-324009 India

Visit us at: <http://www.vitalbiotech.org>

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Preface

Advanced Veterinary Anatomy is designed to provide a comprehensive and contemporary understanding of animal anatomy, serving as an essential resource for veterinary students, educators, researchers, and practicing veterinarians. Anatomy forms the cornerstone of veterinary science, offering the structural framework necessary to understand physiology, pathology, surgery, diagnostic imaging, and clinical medicine. As veterinary education continues to evolve alongside technological innovations and expanding species diversity, a modern approach to anatomical learning has become increasingly important.

This book integrates classical anatomical knowledge with recent advances in imaging modalities, three-dimensional visualization, comparative anatomy, embryology, histological correlations, and digital educational resources. It emphasizes clinically relevant anatomy across domestic animals, companion animals, equines, avian species, and selected exotic and laboratory animals. Detailed illustrations, anatomical diagrams, radiographic and cross-sectional images, and practical clinical correlations are included to strengthen conceptual understanding and facilitate the application of anatomical principles in veterinary practice.

Special attention has been given to functional anatomy, anatomical variations, surgical landmarks, and diagnostic interpretation, enabling readers to bridge the gap between foundational science and clinical application. The multidisciplinary approach adopted throughout the book reflects current trends in veterinary education, where anatomy serves as the basis for evidence-based diagnosis, minimally invasive procedures, regenerative medicine, and advanced surgical interventions.

We sincerely hope that *Advanced Veterinary Anatomy* will inspire curiosity, promote analytical thinking, and support excellence in veterinary education and research. By combining scientific accuracy with practical relevance, this volume aims to become a valuable reference for learners and professionals dedicated to advancing animal health, welfare, and veterinary medical science.

Dr. Santosh Kumar Sahu
Dr. Shilpa Modekar Salunke
Dr. Shashi Tekam
Dr. Manish Gautom

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CONTENTS

S. NO.		PAGE NO.
1.	Foundations of Advanced Veterinary Anatomy: Concepts and Clinical Relevance <i>Santosh Kumar Sahu</i>	1-12
2.	Comparative Gross Anatomy of Domestic and Wild Animal Species <i>Shilpa Modekar Salunke</i>	13-24
3.	Developmental and Embryological Basis of Veterinary Anatomy <i>Shashi Tekam</i>	25-36
4.	Advanced Osteology, Arthrology, and Functional Biomechanics <i>Manish Gautam</i>	37-46
5.	Myology and Functional Anatomy in Animal Locomotion <i>Santosh Kumar Sahu</i>	47-58
6.	Neuroanatomy of Domestic Animals: Structure, Function, and Clinical Applications <i>Shilpa Modekar Salunke</i>	59-70
7.	Comparative Anatomy of the Cardiovascular and Lymphatic Systems <i>Shashi Tekam</i>	71-82
8.	Advanced Anatomy of the Respiratory, Digestive, and Urogenital Systems <i>Manish Gautam</i>	83-94
9.	Cross-Sectional, Radiological, and Diagnostic Imaging Anatomy <i>Santosh Kumar Sahu, Shilpa Modekar Salunke</i>	95-108

- 10. Three-Dimensional (3D) Anatomy, Virtual Dissection, and Digital Learning Technologies** 109-118
Shashi Tekam, Manish Gautom
- 11. Microscopic Anatomy, Histology, and Ultrastructural Organization of Animal Tissues** 119-132
Santosh Kumar Sahu
- 12. Applied Surgical and Clinical Veterinary Anatomy** 133-146
Shilpa Modekar Salunke
- 13. Anatomical Variations, Congenital Anomalies, and Developmental Disorders** 147-158
Shashi Tekam
- 14. Stem Cells, Regenerative Medicine, and Tissue Engineering in Veterinary Anatomy** 159-170
Manish Gautom
- 15. Artificial Intelligence, Digital Morphometry, and Future Perspectives in Veterinary Anatomical Sciences** 171-182
Santosh Kumar Sahu, Shilpa Modekar Salunke, Shashi Tekam, Manish Gautom