



Skeletal Muscle: Form and Function - 2nd Edition

By Brian MacIntosh, Phillip Gardiner, Alan McComas

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Skeletal Muscle: Form and Function, Second Edition, provides readers with a detailed understanding of the different facets of muscle physiology. Meticulously researched and updated, this text examines motoneuron and muscle structure and function. It is intended for those who need to know about skeletal muscle—from undergraduate and graduate students gaining advanced knowledge in kinesiology to physiotherapists, physiatrists, and other professionals whose work demands understanding of muscle form and function.

A unique feature of this book is that it combines basic sciences (anatomy, physiology, biophysics, and chemistry) with clinical applications (detection of disease and genetic mutations and training and rehabilitation). Each chapter ends with a section on clinical and other applied aspects of the information presented in that chapter, showing, for example, how specific defects of muscle or nerve cells can result in certain clinical disorders. The result is a thorough understanding of skeletal muscle structure and physiology.

This new edition includes the following:

-The latest research in all areas of muscle physiology

-Major revisions of chapters covering muscle contraction, muscle metabolism, and fatigue

-More than 200 drawings (many of them original) and 30 photos (mostly micrographs), all of which clarify and augment the text

-Pedagogical aids to facilitate comprehension, including key points in the margins, special interest points, an index, and a greatly expanded glossary

Skeletal Muscle: Form and Function, Second Edition, is divided into three parts. Part I presents the structures of the neuromuscular system: muscle, motoneurons, and neuromuscular junctions and sensory receptors as well as the development of these structures. Part II examines muscle function, including neuromuscular transmission, muscle contraction, motor units, and muscle metabolism. Part III focuses on the adaptability of the neuromuscular system. Among the issues it explores are fatigue, loss and recovery of muscle innervation, trophism, muscle

training, and injury and repair.

The depth and breadth of the contents, combined with the practical applications, make this book the leading authority on the structure, electrophysiology, and adaptability of human skeletal muscle. It is an excellent text for students and a practical and up-to-date reference for professionals.

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"Overall, this text will serve as a solid, comprehensive text for undergraduates and graduate students, and as a practical reference for its professional audience."

Coral Murrant
Department of Human Health and Nutritional Science
University of Guelph

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