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Autore	Cenerini, Francesca
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Nota di contenuto	Basic Structure of Skeletal Muscle -- Binding Proteins -- The Neuromotor Junction -- Skeletal Muscle Receptors -- Neuromuscular Signal Transmission -- Skeletal Muscle Energy Metabolism & Contraction -- Skeletal Muscle Formation, Regeneration, and Recovery from Injury -- The Effects of Exercise on Skeletal Muscle -- Central and Peripheral Fatigue.
Sommaro/riassunto	<p>This book provides a comprehensive overview of skeletal muscle structure, function, and regulation at the cellular and molecular levels. In addition, the book covers various topics, such as muscle contraction, energy metabolism, fatigue, adaptation, and plasticity. This book discusses skeletal muscle anatomy and histology and then covers muscle contraction's molecular and cellular mechanisms. Also, it includes an in-depth discussion of the sarcomere, the basic unit of muscle contraction, and the role of calcium in the process of muscle contraction. This book also explores the energy metabolism of skeletal muscle, including the role of ATP, glycogen, and fatty acids in providing energy for muscle contraction. Additionally, the book covers the mechanisms of fatigue, including peripheral and central factors contributing to muscle fatigue. Other topics covered include muscle adaptation to exercise, the molecular and cellular mechanisms of muscle hypertrophy and atrophy, and the influence of age, sex, and disease on skeletal muscle function. Overall, <i>Skeletal Muscle Physiology: An Update to Anatomy and Function</i> thoroughly explores the structure and function of skeletal muscle, making it an essential resource for students and professionals in exercise science, sports medicine, and physiology. The auto-summaries have been generated by a recursive clustering algorithm via the Dimensions Auto-summarizer by Digital Science handled by Subject Matter Experts and the external editor. The editor of this book selected which SN content should be auto-summarized and decided its order of appearance. Please be aware that the auto-summaries consist of original sentences, but are not representative of its original paper, since we do not show the full length of the publication. Please note that only published SN content is represented here, and that machine-generated books are still at an experimental stage.</p>