

Molecular and Physiological Mechanisms of Muscle Contraction

Thoroughly researched using experimentation and re-examination of all previously published evidence, **Molecular and Physiological Mechanisms of Muscle Contraction** is a carefully crafted treatise and revision of previous conceptions of muscle contraction. It presents detailed descriptions of new, previously unpublished data and hybrids recent findings with the standard Huxley model.

This book demonstrates that traditional concepts cannot fully explain contraction and builds upon previous work. It identifies flaws in the reasoning initially used to explain some results as well as alternative interpretations accounting for inconsistencies. In response to previous bodies of inconsistent or conflicting theories and data, the book synthesizes research based on the Huxley model with more recent experimental and laboratory findings to define a new model.

The new model this book proposes is not a replacement for the standard Huxley model of muscle contraction, but a modification based on recent research and synthesized with pre-existing data and concepts. It reconciles new data with prior information that is contradictory or not entirely explicable in proposing a new integrated and more complete model of muscle contraction.

Features

- Presents a new hybrid model of muscle contraction
- Discusses the standard models and hundreds of forgotten papers on muscle contraction
- Analyzes and synthesizes experimental, theoretical, and semiempirical studies published over the last century
- Incorporates experimental and laboratory evidence



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6000 Broken Sound Parkway, NW
Suite 300, Boca Raton, FL 33487
711 Third Avenue
New York, NY 10017
2 Park Square, Milton Park
Abingdon, Oxon OX14 4RN, UK

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