

Just published
**Motile Muscle
and Cell Models**

By N. I. Aronnet
Institute of Cytology
Academy of Sciences of the USSR
Leningrad, USSR

Translated from Russian by Basil Haigh

A comprehensive survey of a rapidly developing field, this important volume offers insights into the versatility of contractile models as a research tool. In addition to reviewing fundamental concepts, it presents an extensive analysis of the properties of various motile models and an up-to-date review of methods of obtaining these models. A separate chapter deals with the application of motile models in the study of topics that go beyond the usual mechanochemical problems.

OF INTEREST TO: cellular biologists, physiologists, molecular biologists, biochemists, and medical research workers.

CONTENTS: The concept of cell model. The general characteristics of models, principles of their preparation and their sphere of application • Properties of various motile models • The use of motile models to study problems of non-mechanochemical nature • Methods of obtaining motile models • Index.

192 pages Consultants Bureau 1973 \$25.00
ISBN 0-306-10877-1
LC 72-88884

Now in its Second Printing!
**Aging in
Cell and Tissue Culture**

Edited by Emma Holečková
Czechoslovak Academy of Sciences
Prague, Czechoslovakia

and Vincent J. Cristofalo
Wistar Institute of Anatomy and Biology
Philadelphia, Pennsylvania

"This collection will fill the needs of gerontologists for an introduction to cells in culture as a model aging system... it is a valuable addition to the literature of gerontology."

—QUARTERLY REVIEW OF BIOLOGY

"... recommended to all those in the field of tissue culture and gerontology."

—GROWTH

The proceedings of the European Tissue Culture Society's Annual Meeting, held in Czechoslovakia.

OF INTEREST TO: cellular biologists, biochemists, molecular biologists, biophysicists, zoologists, gerontologists, and medical research workers.

163 pages \$15.00
ISBN 0-306-30470-8
LC 70-110800

32

Just published

**Membrane
Structure and Mech:
of Biological Energy
Transduction**

Edited by J. Avery
Department of Chemistry
Imperial College of Science and Technology
London, England

Part A
Mechanisms of Biological Energy Transduction (reprinted from the *Journal of Bioenergetics* Volume 3, Numbers 1 and 2, 1972.)

Part B
Membrane Structure (a selection of these articles will appear in the *Journal of Bioenergetics* Volume 4, Numbers 1 and 2, January, 1973.)

OF INTEREST TO: molecular, cell, and membrane biologists.

600 pages 1973 \$20.00
ISBN 0-306-30718-9
LC 72-95064

Just published
**Biological Aspects
of Circadian Rhythms**

Edited by J. N. Mills
Department of Physiology
University of Manchester
Manchester, England

Providing in-depth coverage of important biological aspects of circadian rhythms, this comprehensive volume explores the processes and effects of the "biological clock" phenomenon in a variety of organisms and tissues and suggests areas of future research.

Eminent international experts consider such vital topics as the processes connecting rhythms, the effects of latitude, and the transmission processes between clocks. M. B. Wilkins provides insight into the cellular origins of rhythmicity in his chapter on plants, and F. Hawking reports on parasites and the implication of their adaptive value.

OF INTEREST TO: biologists, zoologists, botanists, parasitologists, and medical pharmacologists.

CONTENTS: F. Halberg, Laboratory techniques and rhythmometry • J. N. Mills, Transmission processes between clock and manifestations • M. C. Lobban, Effect of latitude on circadian rhythms • A. Reinberg, Circadian rhythms in pharmacology • F. Hawking, Circadian rhythms of parasites • J. Harker, Circadian rhythms in insects • M. B. Wilkins, Circadian rhythms in plants • G. V. T. Matthews, Use of circadian clocks in bird migration • Index.

Approx. 384 pages 1973 \$18.00
ISBN 0-306-30595-X
LC 72-77044

33