

CALCIUM SIGNALING

Second Edition

Edited by

James W. Putney, Jr.

The first edition of James Putney's **Calcium Signaling** offered readers a comprehensive view of the fascinating diversity of technologies that the new field of calcium signaling employed. And while that work is still regarded as a premier text on the basics of calcium signaling, progress has been so dramatic that an update is now required.

Putney elected to focus **Calcium Signaling, Second Edition** on those processes that generate calcium signals, and compile the first comprehensive exploration of calcium signaling research from a methodological standpoint. Once again, Putney has called upon top researchers from across the globe to contribute their expertise. Several new chapters have been added and in many cases, where chapters from the first edition were retained, new researchers were recruited to offer a fresh perspective.

Completely revised and refocused, **Calcium Signaling, Second Edition**—

- Explores the molecular basis, as well as the complex aspects, of calcium signaling
- Employs an easy-to-follow format in describing numerous research techniques, along with the pros and cons of each approach
- Discusses the major intracellular and surface membrane calcium channel molecules and intracellular effectors in terms of their molecular nature and biophysical behavior
- Introduces the application of high-throughput technology, and the use of genetically tractable organisms such as *C. elegans* and yeast

As calcium signaling involves such a breadth of technical approaches and a wide range of applications, this work contains invaluable information for established researchers, as well as those graduate students and scientists just beginning to find a direction in cellular calcium signaling.

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