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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.

In Calcium Signaling, Second Edition, Putney focuses on those processes that generate calcium signals to compile the first comprehensive exploration of calcium signaling research from a methodological standpoint.

This new edition deals with methods for studying calcium from a variety of perspectives. Several chapters discuss calcium indicators and other tools, and look at microscopic and electrophysiological techniques, as well as other special methodological aspects of calcium signaling research. Other chapters examine the study of different systems, ranging from those found in yeast to those found in mammals, and several more are devoted to the cellular and molecular basis for calcium signaling, including explorations of receptors, calcium pumps, apoptosis, and drug delivery.

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.