



# A Practical Guide to the Study of Calcium in Living Cells, Volume 40 (Methods in Cell Biology)

From Academic Press

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*A Practical Guide to the Study of Calcium in Living Cells* describes popular techniques along with helpful do's and don'ts and computer programs. The volume enables investigators to evaluate confocal images, use the latest dyes, and design Calcium buffers appropriate to their research needs. This book is designed for laboratory use by graduate students, technicians, and researchers in many disciplines, ranging from molecular to cellular levels of investigation.

- Describes techniques for detection of  $[Ca^{2+}]$ :  $Ca^{2+}$  - sensitive microelectrodes
- Fluorescent dyes
- Luminescent proteins
- Includes techniques for perturbing intracellular  $Ca^{2+}$
- Covers detailed methodology plus problems and pitfalls of each technique
- Contains a practical guide to preparing  $Ca^{2+}$  buffers with an easy-to-use computer program
- Color plates illustrate techniques such as
- Confocal ratio-imaging
- Use of aequorin

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## **A Practical Guide to the Study of Calcium in Living Cells, Volume 40 (Methods in Cell Biology) From Academic Press Bibliography**

- Sales Rank: #2379342 in Books
- Published on: 1994-03-24
- Released on: 1994-03-10
- Original language: English
- Number of items: 1
- Dimensions: 9.19" h x .92" w x 7.25" l, 1.75 pounds
- Binding: Spiral-bound
- 368 pages



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## **Editorial Review**

### **Review**

"This multi-authored book... provides theoretical and applied aspects of different established techniques for the measurement of  $[Ca^{2+}]_i$  at submicromolar concentration. Each chapter is organized, keeping in view the needs of a person working in the laboratory, by giving the detailed methodology required for the implementation of that particular technique, and all the chapters are well referenced... The book provides a pragmatic approach for the estimation of cytosolic  $[Ca^{2+}]_i$  and also provides a means for studying the spatial and temporal resolution of  $[Ca^{2+}]_i$ . The book achieves the stated goal in the preface, 'this material will be very useful to the investigator who wants to apply any of these methods to his or her research.' It is a very well-written monograph and includes useful illustrations and helpful, practical points." --**RAMESH BHALLA, University of Iowa, Iowa City**

"The book achieves the stated goal in the preface, this material will be very useful to the investigator who wants to apply any of these methods to his or her research. It is a very well-written monograph and includes useful illustrations and helpful, practical points." --**MOLECULAR & CELLULAR NEUROSCIENCES**

### **From the Back Cover**

This volume in the acclaimed series **Methods in Cell Biology** is designed for students and researchers in biology and biomedicine. **A Practical Guide to the Study of Calcium in Living Cells** describes highly sensitive techniques for measuring the calcium vital to many important cellular functions. This manual enables investigators to evaluate confocal images, use the latest dyes, and design  $Ca^{2+}$  buffers appropriate to their research needs.

### **Highlights**

- \* Describes techniques to
- \* Detect  $Ca^{2+}$  with sensitive microelectrodes, fluorescent dyes, and luminescent proteins
- \* Perturb intracellular  $Ca^{2+}$
- \* Prepare  $Ca^{2+}$  buffers with an easy-to-use computer program
  
- \* Contains color plates that illustrate confocal ratio-imaging and the use of aequorin
- \* Covers methods in detail and describes the problems and pitfalls of each technique

## **Users Review**

### **From reader reviews:**

#### **Lorraine Wheat:**

Book is to be different for every single grade. Book for children right up until adult are different content. We all know that that book is very important usually. The book *A Practical Guide to the Study of Calcium in Living Cells, Volume 40 (Methods in Cell Biology)* had been making you to know about other know-how and of course you can take more information. It is quite advantages for you. The publication *A Practical Guide to the Study of Calcium in Living Cells, Volume 40 (Methods in Cell Biology)* is not only giving you much more new information but also being your friend when you truly feel bored. You can spend your own spend time to read your book. Try to make relationship while using book *A Practical Guide to the Study of*

Calcium in Living Cells, Volume 40 (Methods in Cell Biology). You never really feel lose out for everything if you read some books.

**Hector Duggan:**

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**Tiffany Reyes:**

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**Jesse Eriksen:**

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