



## Cellular and molecular methods in neuroscience research /

Merighi, Adalberto  
Carmignoto, Giorgio

Springer,  
2002

Laboratory Manual

Electronic books

Laboratory manuals.

Monografía

Analysis of the neural tissue presents unique and peculiar technical problems encountered in everyday bench work. Numerous books dealing with cellular and molecular protocols for general use in cell biology are available, but few are specifically devoted exclusively to neurobiology. Moreover, the "cross-talk" between researchers with different backgrounds, i.e. histologists, cell and molecular biologists and physiologists, is still quite difficult, and very often one remains somehow "confined" to his or her own specific field of expertise never daring to explore "mysterious" lands unless having the support of a big laboratory beyond. The general idea beyond this project was to put together the contributions from a number of well-known neuroscientists to produce a book that offers a survey of the most updated techniques for the study of nerve cells. After a long time spent doing research in the neuroscience field, and having acquired a good technical background in certain specific fields of neurobiology we have realized how difficult is to be able to step into a different technology. This book endeavors to assist in that goal

<https://rebiunoda.pro.baratznet.cloud:28443/OpacDiscovery/public/catalog/detail/b2FpOmNlbGVicmF0aW9uOmVzLmJhcmF0ei5yZW4vMjUyNTk5OTg>

**Título:** Cellular and molecular methods in neuroscience research editors, Adalberto Merighi, Giorgio Carmignoto

**Editorial:** New York Springer 2002

**Descripción física:** 1 online resource (1 volume (various pagings)) illustrations (some color)

**Bibliografía:** Includes bibliographical references and index

**Contenido:** Analyses of Intracellular Signal Transduction Pathways in CNS Cells -- Confocal and Electron Microscopic Tracking of Internalized Neuropeptide/Receptor Complexes -- Transfection Methods for Neurons in Primary Culture -- Polyethylenimine: a Versatile Cationic Polymer for Plasmid-based Gene Delivery in the CNS -- Transfection of GABAA Receptor with GFP-Tagged Subunits in Neurons and HEK293 Cells -- Neuronal Transfection Using Particle-Mediated Gene Transfer -- Analysis of Gene Expression in Genetically Labeled Single Cells -- Immunocytochemistry and In Situ Hybridization: Interest of their Combinations for Cytofunctional Approaches of Central and Peripheral Neurons -- In Situ Reverse Transcriptase PCR for Detection of mRNA in the CNS -- Immunocytochemical Labeling Methods and Related Techniques for Ultrastructural Analysis of Neuronal

Connectivity -- Combined electrophysiological and morphological analysis of CNS neurons -- Tract -Tracing Methods at the Light Microscopy Level -- Tract-tracing Methods at the Ultrastructural Level -- In vivo Analysis of Cell Proliferation and Apoptosis in the CNS -- Confocal Imaging of Nerve Cells and their Connections -- Confocal Imaging of Calcium Signaling in Cells from

**Lengua:** English

**Copyright/Depósito Legal:** 53337505 55050766 133157971 229457239 456042923 465031620 551393000 559289010 647289513 722205120 793528225 808036508 814404178 888728399 961615368 961643997 962656292 962681302 1044207281 1056332111 1058952202

**ISBN:** 0387224602 electronic bk.) 9780387224602 electronic bk.) 0585472726 electronic bk.) 9780585472720 electronic bk.) 1280009527 9781280009525 661000952X 9786610009527 0387953868 9780387953861

**Materia:** Molecular neurobiology- Laboratory manuals Neurons- Laboratory manuals Neurobiology Neurons- physiology SOCIAL SCIENCE- Anthropology- Physical. Molecular neurobiology. Neurons.

**Autores:** Merighi, Adalberto Carmignoto, Giorgio

**Enlace a formato físico adicional:** Print version Cellular and molecular methods in neuroscience research. New York : Springer, 2002 (DLC) 2001054917

---

### **Baratz Innovación Documental**

- Gran Vía, 59 28013 Madrid
- (+34) 91 456 03 60
- [informa@baratz.es](mailto:informa@baratz.es)