



Advanced Patch-Clamp Analysis for Neuroscientists [

Korngreen, Alon.,
editor

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Monografía

This volume presents current adaptations of the patch-clamp technique to neuroscience. Chapters focus on in-vivo recordings, voltage-gated channel recording and analysis, dendritic and axonal recordings, synaptic current recording and analysis, advanced fluorescent techniques, optogenetics and voltage-sensitive dye imaging, and finally channel and neuronal modeling. Written for the popular Neuromethods series, chapters include the kind of detail and key implementation advice that ensures successful results in the laboratory. Authoritative and practical, Advanced Patch-Clamp Analysis for Neuroscientists aims to ensure successful results in the further study of this vital field

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Contenido: In Vivo Whole-Cell Recordings -- Juxtасomal Loose-Patch Recordings in Awake, Head-Fixed Rats to Study the Link between Structure and Function of Individual Neurons -- Studying Sodium Channel Gating In Heterologous Expression Systems -- Elucidating the Link between Structure and Function of Ion Channels and Transporters with Voltage-Clamp and Patch-Clamp Fluorometry -- Dendrites: Recording from Fine Neuronal Structures Using Patch-Clamp and Imaging Techniques -- Patch-clamp Recording from Myelinated Central Axons -- Analysis of Transsynaptic Attentional Neuronal Circuits with Octuple Patch-Clamp Recordings -- Optogenetic Dissection of the Striatal Microcircuitry -- Paired Recordings from Synaptically Coupled Neurones in Acute Neocortical Slices -- Extracting Quantal Properties of Transmission at Central Synapses -- Acousto-optical

Scanning-Based High Speed 3D Two-Photon Imaging In Vivo -- Intracellular Voltage-Sensitive Dyes for Studying Dendritic Excitability and Synaptic Integration -- Modeling the Kinetic Mechanisms of Voltage-Gated Ion Channels -- Recording and Hodgkin-Huxley Kinetic Analysis of Voltage-Gated Ion Channels in Nucleated Patches -- Creating and Constraining Compartmental Models of Neurons Using Experimental Data

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