



# 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 -- Juxtapusal 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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