1. Record Nr. UNINA9911019378503321

Autore	Molleman Areles
Titolo	Patch clamping : an introductory guide to patch clamp electrophysiology / / Areles Molleman
Pubbl/distr/stampa	New York, : J. Wiley, c2003
ISBN	9786610270514 9781280270512 1280270519 9780470856512 0470856513 9780470856529 0470856521
Descrizione fisica	1 online resource (187 p.)
Disciplina	572/.437
Soggetti	Patch-clamp techniques (Electrophysiology)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Patch Clamping; Contents; Preface; 1 Introduction; 1.1 Patch Clamping and its Context; 2 Basic Theoretical Principles; 2.1 Introduction to Membrane Biology; 2.1.1 The plasma membrane and its ionic environment; 2.1.2 Electrochemical gradients and the Nernst equation; 2.1.3 Maintenance of ion gradients and the membrane potential; 2.1.4 Ion channels; 2.2 Electrical Properties of the Cell Membrane; 2.2.1 Driving force and membrane resistance; 2.2.2 Membrane capacitance; 2.2.3 Consequences of membrane capacitance; 2.2.4 An electronic model of the plasma membrane 2.3 Recording Modes and their Equivalent Circuits2.3.1 The basics of equivalent circuits; 2.3.2 Intracellular recording; 2.3.3 Voltage clamp and current clamp; 2.3.4 Introduction to patch clamp configurations; 2.3.5 The equivalent circuit for the cell-attached patch configuration; 2.3.6 The equivalent circuit for the whole-cell configuration; 2.3.7 The equivalent circuit for the excised patch configurations; 3 Requirements; 3.1 The Platform; 3.1.1 Stability: vibrations and drift; 3.1.2 Where in the building should the set-up be placed?; 3.1.3 Anti-vibration tables; 3.2

Mechanics and Optics

3.2.1 The microscope3.2.2 Micromanipulators; 3.2.3 Pipette pressure; 3.2.4 Baths and superfusion systems; 3.3 Electrodes and Micropipettes; 3.3.1 Solid-liquid junction potentials and polarisation; 3.3.2 The bath electrode; 3.3.3 Micropipettes; 3.3.4 Liquid junction potentials; 3.4 Electronics; 3.4.1 External noise and Faraday cages; 3.4.2 Patch clamp amplifiers; 3.4.3 Noise prevention and signal conditioning; 3.4.4 Data acquisition and digitisation; 3.4.5 Computers and software; 4 The Practice of Patch Clamping; 4.1 Preparing the Experiment and Making a Seal; 4.1.1 Setting up

4.1.2 Bringing the pipette near the preparation4.1.3 Making the seal; 4.2 Whole-cell Modes; 4.2.1 Conventional whole-cell recording; 4.2.2 Perforated patch recording; 4.3 Single-channel Modes; 4.3.1 General notes; 4.3.2 Cell-attached patch; 4.3.3 Excised patches; 5 Whole-cell Protocols and Data Analysis; 5.1 Standard Cellular Parameters; 5.2 Voltage-activated Currents; 5.2.1 Introduction to pulse protocols; 5.2.2 Signal conditioning and positive/negative subtraction; 5.2.3 Space clamp artefacts; 5.2.4 Isolation of a homogeneous population of channels

5.2.5 Current-voltage relationships and reversal potential5.2.6 Determination of relative permeabilities; 5.2.7 Activation and inactivation studies; 5.3 Non-voltage-activated Currents; 5.3.1 Introduction to continuous recording; 5.3.2 Determination of reversal potential using voltage ramps; 6 Single-channel Protocols and Data Analysis; 6.1 General Single-channel Practice and Analysis; 6.1.1 Practical notes; 6.1.2 Amplitude analysis; 6.1.3 Event detection; 6.1.4 Dwell time analysis; 6.2 Continuous Recording of Single Channels; 6.2.1 Data acquisition; 6.2.2 Spontaneous activity

6.2.3 Receptor-induced activity

Sommario/riassunto

Patch clamping is a widely applied electrophysiological technique for the study of ion channels; membrane proteins that regulate the flow of ions across cellular membranes and therefore influence the physiology of all cells. Patch Clamping aims to cover the basic principles and practical applications of this important technique. Starting with a review of the history of patch clamping, the text then goes on to cover the basic principles, platforms, equipment and environmental control, and will also include coverage of preparation types, recording modes and analysis of results. <

2. Record Nr. UNINA9910985847603321

Titolo	Komentowana bibliografia polskich przekadów literatury ludowej krgu Slavia Orthodoxa. Series Ceranea tom 8
Pubbl/distr/stampa	ód [Poland], : Wydawnictwo Uniwersytetu ódzkiego, 2022
ISBN	83-8220-417-1
Descrizione fisica	1 online resource (1 p. 354)
Collana	Uniwersytet ódzki
Soggetti	Language and Literature Studies Other Language Literature Translation Studies
Lingua di pubblicazione	Polacco
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Translations – produced, at varying rates, across the ages – constitute one of the basic components of the reception of Slavia Orthodoxa folk literature in Poland. Their comprehensive description and in-depth analysis require the collection, presentation, and commentary of the bibliographic data concerning the existing translations of the works in question. This is the goal of the present publication.The Bibliography systematizes the Polish translations of folk texts originating from the Slavia Orthodoxa area. The primary division of the source material is based on the criterion of geographic origin: South Slavic vs East Slavic. Within these two groups, the pieces are categorized according to the means of transmission or performance: prose works intended for being retold (fables, legends, folk tales, etc.) and poetic works intended for being sung or recited (songs, including epic songs; ballads, dumas, bylinas, etc.). The bibliographic information concerning the existing translations is presented in chronological order. The bibliography is accompanied by a number of detailed analytic/descriptive studies.