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1. De Gruyter Main Homepage (http://www.degruyter.com)

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주제별

자료유형: Book/ Journal / Databases 선택

고급검색

SUBJECTS

- ART • MUSIC
- LIBRARY & INFORMATION SCIENCE
- CLASSICAL AND ANCIENT NEAR EASTERN STUDIES
- GENERAL DATABASES
- HISTORY
- LAW
- LINGUISTICS & COMMUNICATIONS
- LITERARY STUDIES
- MATHEMATICS
- MEDICINE
- NATURAL SCIENCES
- PHILOSOPHY
- SOCIAL SCIENCES • ECONOMICS
- THEOLOGY • JUDAISM • RELIGION

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- Textbooks
- Journals/Yearbooks
- Databases
- Multi-Volume Works
- Book Series
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our new website where you can now find all title information and the complete electronic contents for De Gruyter journals and books under one roof. All De Gruyter databases and eBookPLUS publications will follow in August 2012.

We would like to thank all our customers for their ongoing patience and support during the crucial phase of moving from one online platform to another. Not least thanks to your valuable feedback we could identify and work at the most important teething problems as quickly as possible. On our [library information page](#) you can now find the latest status update on all the important details.

Apart from that, please feel free to [take a look](#) at everything else you need to know about the switch.

HIGHLIGHTS

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Shih-Kuan Tzu, Hui-Li
EARLY CHILD

KLUGE

2. Search: 간단검색 - ebook

The screenshot shows the De Gruyter search results page for the keyword 'physiology'. The page includes a search bar at the top right with the text '키워드 검색 Ex. physiology' (Keyword search Ex. physiology) and a search button. Below the search bar, there are navigation options like 'SUBJECTS' and 'PRODUCT TYPES'. The main content area displays search results for 'physiology' with 28 items found. The first result is 'Molecular and Cellular Physiology of Neurons (2014)' by Fain, Gordon L. This result is highlighted with a red box and has a green box around the 'LICENSED ACCESS' checkbox, which is checked. A callout bubble points to the 'LICENSED ACCESS' checkbox with the text '원문 접속 권한' (Original document access permission). Another callout bubble points to the search results with the text '검색 결과 클릭' (Click search results). The page also features a 'NARROW YOUR CHOICES' sidebar on the left and a 'DE GRUYTER NEWSLETTER' sign-up box at the bottom left.

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physiology

키워드 검색
Ex. physiology

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Titles Chapters, Articles, Entries

You are looking at 1-28 of 28 items for: physiology

physiology Harvard University Press

Fain, Gordon L.
Molecular and Cellular Physiology of Neurons (2014)
ISBN: 978-0-674-73564-4
Product Type: Books
Format: eBook (PDF)
HARVARD UNIVERSITY PRESS

SAVE LICENSED ACCESS

Fantuzzi, Giamila
Body Messages (2017)
ISBN: 978-0-674-97250-6
Product Type: Books
Format: eBook (PDF)
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Constrain results to publications only. Do not search documents - articles, chapters and entries

Print Publication Date: From: To: Exact:

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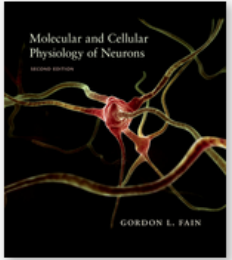
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3. Overview

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Fain, Gordon L.
Molecular and Cellular Physiology of Neurons
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접속 기관

eBook (PDF)
Second Edition
Publication Date: November 2014
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ISBN 978-0-674-73564-4

ISBN, 출판년도

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Language: English

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Subjects
[Life Sciences](#) > [Neurobiology](#)

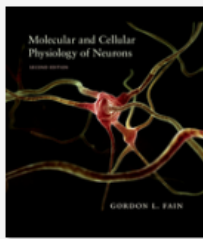
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Overview를 클릭하시면 책에 대한 간단 설명을 보실 수 있습니다.

4. Content

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Fain, Gordon L.
Molecular and Cellular Physiology of Neurons
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Overview >
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Pages i-vi
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Contents
Pages vii-viii
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Feedback

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다운로드,
인쇄

2

Electrical Properties of Neurons

A NERVE CELL INTEGRATES incoming signals by performing simple calculations. It adds and subtracts inputs from excitatory and inhibitory synapses, and the results of these calculations are reflected in the output that the cell transmits to other cells. For the pyramidal cell in Fig. 1.1, there are many excitatory synapses onto spines (Fig. 1.1C), and the changes in membrane potential at these synapses are summed and communicated to other parts of the dendritic tree and to the cell body and axon. If the changes in potential are large enough and of the right polarity, the axon produces action potentials, which are propagated sometimes for very long distances to other parts of the nervous system.

The spread of signals throughout the dendritic tree allows inputs in different parts of the cell to interact with one another. For pyramidal cells in the hippocampus, the spread of excitation from one dendrite to the next may have important implications for our behavior, because these cells are thought to participate in some forms of learning. Learning in many cases is *associative*: that is, learning occurs more easily if one event is paired with another. The summing of synaptic inputs within the dendritic tree may be in part responsible for this phenomenon (Chapter 14).

Signal Spread

The principal mechanism of signal spread in the dendritic tree of a neuron is called *passive spread*, *electrotonic decay*, or *decremental conduction*. It is the spread of voltage (and current) that occurs purely as the result of the resistance and capacitance of the cell membrane. The membrane of neurons, like the membrane of other cells in the body, is composed mostly of phospholipid and protein,



Thank you!!

(주) 제이알엠

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