


[DOWNLOAD](#)


The Sodium Theory Revisited: Or 45 Years of a Full Time Cnrs Neurophysiologist

By Yves Pichon

XLIBRIS. Paperback. Condition: New. 100 pages. Dimensions: 8.9in. x 6.0in. x 0.6in. The sodium theory revisited (45 years of a full time CNRS neurophysiologist). The sodium theory has been elegantly proposed by Hodgkin, Huxley and Katz in the early fifties, after their experiments on Plymouth squids, to account for the role of sodium and potassium ions in nerve activity. Since then, the electrophysiological techniques and the data acquisition techniques have known an amazing development. In this short paper, Yves Pichon wants to give an account of what happened since then in different laboratories (mostly marine) with a variety invertebrate species and mostly insects. One of the most important technical development has been the use of single cockroach axons which have been found to behave very much like squid axons. Another, almost simultaneous development which revealed extremely useful for the understanding of the nerve function was in situ microelectrode recording which enables an indirect analysis of the extraaxonal environment. Experiments on several species indicate that the CNS is protected from the ionic environment by a blood-brain barrier. On the other hand, quite unexpectedly, little ion accumulation is detected in the vicinity of the axonal membrane in physiological conditions. Another innovating technique was...



[READ ONLINE](#)

[3.99 MB]

Reviews

The publication is simple in go through preferable to fully grasp. I am quite late in start reading this one, but better then never. It is extremely difficult to leave it before concluding, once you begin to read the book.

-- Mrs. Josiane Collins

Certainly, this is the very best work by any writer. It is loaded with knowledge and wisdom I am just quickly will get a satisfaction of reading through a created publication.

-- Donavon Okuneva