

to answer the questions it raises before all the evidence is gone forever.

I would be remiss as a reviewer should I fail to mention that both the author and the publisher have been unforgivably careless in the production of this volume. There appears to have been no editing and no proofreading, at least in the first part, where proper names especially suffer. One should not have to pay the high price charged to read raw field notes with greatly reduced freehand sketches presented as "site plans."

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## Correlates of Movement

**Neurophysiological Approaches to Higher Brain Functions.** EDWARD V. EVARTS, YOSHIKAZU SHINODA, and STEVEN P. WISE. Wiley, New York, 1984. x, 198 pp., illus. \$39.95. The Neurosciences Institute Publications Series.

This book arises from discussions held during two conferences at the Neurosciences Institute. The book takes the well-established point of view that all behavior requires movement for its expression and its communication and that therefore "higher brain functions" may be examined by studying the neural correlates of movement execution. The proposition is that the output neurons in the primary motor area of the cerebral cortex, which Evarts has studied so fruitfully, are closely linked with motor behavior in advanced animals. On the other hand, sensory signals that trigger behavior are not tightly coupled to that behavior, and an identical stimulus can trigger a variety of different behaviors under different circumstances. To study how the brain controls these different behavioral responses in a flexible manner is to study the foundation of higher brain functions.

The work makes no attempt to be exhaustive in its coverage of the background of or the experimental observations that relate to this general proposition. Nevertheless, the views of the authors themselves and their interpretations of the contributions that their own studies have made to the understanding of "preparatory set" (to make a movement) and motor output are described in some detail. Hammond's 1956 demonstration that prior instruction of a subject could dramatically modify an apparently involuntary (automatic or reflex) neuro-

muscular response is at the basis of many of the investigations that are described. It is made clear that many motor actions that would appear to be completely automatic are, in fact, greatly influenced by changes in central excitatory state that are "set dependent." The flexibility of the response is attributed to functional changes in the cerebral cortex.

This is not a work to be consulted for detailed information about the cellular or regional organization of the cerebral cortex, although these are reviewed in a summary manner, as are the connective relationships of the sensorimotor regions of the cerebral cortex. Most pertinent to the topic under review are the physiological observations made in monkeys and in humans under conditions of flexible motor responsiveness and from regions of cerebral cortex not closely linked to the motor output itself, for example from frontal regions of the forebrain. Yet the section of the book that discusses these observations provides little information. It presents very selective observations and describes them rather uncritically.

The penultimate section of the book has the attractive title Behavioral Correlates of Identified Cell Types in Cerebral Cortex. It reviews methods that might be employed to give more precision to the understanding of the meaningfulness of physiological responses recorded from the cerebral cortex or its connections. The review is a most unsatisfactory one that does less than justice to a number of the methods it explores. For example, it is concluded that the spike-triggered averaging method for revealing the functional significance of cell-to-cell connections is unlikely to find substantial application beyond the search for connections to motoneurons. Such a conclusion fails to acknowledge the wealth of detailed functional and connective information that has already been obtained in many other neural systems using such approaches.

One can have little disagreement with the final conclusion of the book, that, by monitoring the function of cortical neurons with identified relationships to motor output, it should be possible to observe the influences on the neurons of the continuously changing activity in many other brain regions and circuits, some local and some remote, as an animal modifies its behavior in relation to changing situations. Sherrington, in concluding his Silliman Lectures, *The Integrative Action of the Nervous System* (1906), saw the cerebral cortex "as the

organ of, and for, the adaptation of nervous reactions." But the connections of the sampled cerebral neurons will have to be known, and inputs and outputs will need to be specified precisely in terms of their quantitative contributions of excitatory or inhibitory influences to the local neuronal state, if any sensible interpretation is to be provided of their observed responses. This book does not help to define the need for this detailed knowledge to be evaluated for the individual connections of each of the identified neurons whose contributions to behavior are being evaluated.

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## Gerontology in the U.S.S.R.

**Physiology of Cell Aging.** VLADIMIR V. FROLKIS, Ed. Karger, Basel, 1984. viii, 206 pp., illus. \$89.25. Interdisciplinary Topics in Gerontology, vol. 18. Translated from the Russian by Alexander Lipinsky.

This book reviews some of the extensive studies done during the past decade at the Institute of Gerontology in Kiev, U.S.S.R. The Institute, perennially directed by D. F. Chebotarev, is the major Soviet group for gerontology and geriatric research and is a unit of the prestigious Academy of Medical Sciences of the U.S.S.R. (Department of Clinical Medicine). Like the National Institute on Aging, it runs a broad extramural program and also has its own experimental and clinical research groups; the groups comprise about 100 full-time scientists. (After more than ten obvious sources in the United States could not supply current information about the Institute, I tried to telephone two English-speaking colleagues at the Institute. After a minute's hubbub in Russian, the Institute's switchboard unexpectedly deflected me to the director's office and Chebotarev himself came on the line to graciously answer my questions.) Vladimir Frolkis, the editor of the book, is head of the Laboratory of Physiology, one of eight in the Section of Experimental Medicine. Frolkis's name is familiar to experimental gerontologists for his physiological and biochemical studies of the nervous systems of aging laboratory animals. He is first author of seven of the ten chapters.

The volume represents many Soviet scientists who are little known in the

# Physiology Of Cell Aging Interdisciplinary Topics In Gerontology Vol 18

**William H. Adler, Nordin**



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