PUBLICATIONS ON EXPERIMENTAL BIOLOGY AND GENERAL PHYSIOLOGY

A SERIES of monographs covering the subjects of experimental biology and general physiology is announced by the J. B. Lippincott Company under the general editorship of Jacques Loeb, T. H. Morgan and W. J. V. Osterhout. The aim and character of the series are indicated by the following announcement of the editors.

The rapidly increasing specialization makes it impossible for one author to cover satisfactorily the whole field of modern biology. This situation, which exists in all the sciences, has induced English authors to issue series of monographs in biochemistry, physiology and physics. A number of American biologists have decided to provide the same opportunity for the study of experimental biology.

Biology, which not long ago was purely descriptive and speculative, has begun to adopt the methods of the exact sciences, recognizing that for permanent progress not only experiments are required but that the experiments should be of a quantitative character. It will be the task of this series of monographs to emphasize and further as much as possible this development of biology.

Experimental biology and general physiology are one and the same science, by method as well as by contents, since both aim at explaining life from the physico-chemical constitution of living matter. The series of monographs on experimental biology will, therefore, include the field of traditional general physiology.

The following is a list of the volumes announced:

Published

Vol. 1. Jacques Loeb (Rockefeller Institute), "Forced Movements, Tropisms and Animal Conduct."

In Preparation

T. H. Morgan (Columbia University), "The Chromosome Theory of Heredity."

E. M. East and D. F. Jones (Bussey Institution, Harvard University), "Inbreeding and Outbreeding: Their Genetic and Sociological Significance."

H. S. Jennings (Johns Hopkins University), "Pure Line Inheritance."

R. Pearl (Johns Hopkins University), "The Experimental Modification of the Process of Inheritance."

E. G. Conklin (Princeton University), "Localization of Morphogenic Substances in the Egg."

R. G. Harrison (Yale University), "Tissue Culture."

W. J. V. Osterhout (Harvard University), "Permeability and Electrical Conductivity of Living Tissue."

L. J. Henderson (Harvard University), "The Equilibrium between Acids and Bases in Organism and Environment."

T. B. Robertson (University of Toronto), "Chemical Basis of Growth."

G. H. Parker (Harvard University), "Primitive Nervous System."

A. R. Moore (Rutgers College), "Coordination in Locomotion."

There is also announced the publication of *The Journal of General Physiology* under the editorship of Dr. Jacques Loeb, the Rockefeller Institute for Medical Research, New York, and Professor W. J. V. Osterhout, Harvard University, Cambridge, Massachusetts. It will be published bimonthly from the Rockefeller Institute for Medical Research, beginning in September. The editors say:

The Journal of General Physiology is intended to serve as an organ of publication for papers devoted to the investigation of life processes from a physico-chemical viewpoint. As the constitution of matter is the main problem of physics and physical chemistry, so the constitution of living matter is the main problem of general physiology, and in both cases the method of quantitative experimentation is required.

Under the pressure of the demands of medicine and of other professions, physiology has developed in the direction of an applied science, with limited opportunity for the investigation of purely theoretical problems. On the other hand, the physico-chemical methods of analyzing life phenomena have thus far made little inroad into the domain of zoology and botany. Under these circumstances, it has happened that what might be regarded as the most fundamental of all the biological sciences, namely general physiology, has not come to have a journal of its own. It is this condition which the establishment of *The Journal of General Physiology* is intended to correct.

SCIENTIFIC NOTES AND NEWS

DR. WILLIAM WALLACE CAMPBELL, director of the Lick Observatory, University of Cali-