

# **EXPERIMENTAL PHYSIOLOGY**

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Experimental Physiology by E. A. Schäfer

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**E. A. SCHÄFER**

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# Experimental Physiology

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WITH EIGHTY-THREE ILLUSTRATIONS

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## Preface

THE present volume is based upon a small book, entitled *Directions for Class Work in Practical Physiology*, which was published in 1901, and consisted chiefly of an account of the methods employed in the study of muscle and nerve physiology and of the heart, in so far as these could be illustrated in preparations from the frog. To that account have now been added descriptions of such other methods of Experimental Physiology as may be performed by the student either in class or individually, although a few which are given can—at least in this country—only take the form of demonstrations. The additions deal chiefly with the heart and vascular system, respiration, secretion, the central nervous system, and the sense organs; but considerable changes have also been introduced in the description of the methods of studying the physiology of muscle and nerve, and not only have a large number of new illustrations—for the most part in the form of diagrams—been added, but all the original figures have been redrawn, so that the work has taken the character of a new book, which it has been thought proper to furnish with another name.

The descriptions of the methods employed are founded upon twelve years' experience in conducting the classes of Practical Physiology in the University of Edinburgh. These classes are of two kinds, elementary and advanced, and some of the methods described are intended only for advanced students. But no attempt has been made in the work to discriminate between the experiments which are expected to be performed by the one or the other grade. Such selection can be best made by the teacher of the subject, and would be regulated by the requirements of the students and the nature of the examinations for which they are preparing.

UNIVERSITY, EDINBURGH,  
September 1912.

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