

**A CLASS BOOK OF  
(ELEMENTARY) PRACTICAL  
PHYSIOLOGY: INCLUDING  
HISTOLOGY, CHEMICAL AND  
EXPERIMENTAL PHYSIOLOGY**

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A Class Book of (Elementary) Practical Physiology: Including Histology, Chemical and Experimental Physiology by De Burgh Birch

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**DE BURGH BIRCH**

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A CLASS BOOK  
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(ELEMENTARY)  
**PRACTICAL PHYSIOLOGY**  
INCLUDING  
HISTOLOGY, CHEMICAL AND EXPERIMENTAL  
PHYSIOLOGY.

BY  
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## PREFACE.

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THIS volume represents in a more formal setting the notes which the author has been in the habit of issuing to students attending the ordinary course of Practical Physiology in this College.

The aim has been to supply the student with concise directions for performing the work which he has to do with his own hands in class.

The choice of methods has been necessarily governed by their adaptability to class purposes, and as much as possible also by their simplicity.

In order that the student may read beforehand the work that is to engage his attention at the next meeting of the class, the subject matter has been divided into lessons, which are indicated by marginal numbers.

Illustrations have been omitted from the section on Histology, as it is essential that the student should systematically practice drawing from the preparation itself uninfluenced by the suggestions of a drawing ready to his hand.

He is thus led to form his own opinion of what he himself sees, and is encouraged to cultivate and to rely upon his own powers of interpretation.

For the same reasons tracings have been omitted from the Experimental Section.

A system of abbreviated references to the Appendix has been employed in those cases in which sections of tissues are given to the class ready for mounting, by which means the methods of preparation can be found in full.

Much attention has been devoted by the author to the simplification of the instrumental appliances\* in the Experimental Section, so that the student's time may not be needlessly spent in mastering details of machinery, which are not the direct objects of study but only the means to an end.

The author is indebted to his former demonstrators, W. Gough, B.Sc. Lond., and J. A. Cairns Forsyth, B.Sc. (Hon.) Vict., for repeating many of the processes in the Histological Section, and to his present demonstrator, J. W. Milroy, M.A., M.B., C.M., Edin., for some suggestions in the Chemical Section.

Existing works have been freely consulted, and acknowledgment has been made as far as possible in the context.

DE BURGH BIRCH.

YORKSHIRE COLLEGE,

LEEDS, *April, 1899.*

\* Carried out mainly by A. Kershaw, East Dorrington Street, Leeds.

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