

# **THE METHODS OF BACTERIOLOGICAL INVESTIGATION**

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The Methods of Bacteriological Investigation by Ferdinand Hueppe & Hermann M. Biggs

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**FERDINAND HUEPPE & HERMANN M. BIGGS**

**THE METHODS OF  
BACTERIOLOGICAL  
INVESTIGATION**



THE METHODS  
OF  
BACTERIOLOGICAL INVESTIGATION.

BY  
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TO THE  
GEHEIMEN REGIERUNGSRATH,  
DR. ROBERT KOCH.

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## AUTHOR'S PREFACE.

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URGED by the wish of my highly esteemed teacher, the Geheimrath Koch, I have attempted in the following work to meet the lack of a comprehensive representation of the methods of bacteria-investigation. It was my endeavor, as an historical and experimental critic, to sift the whole of the literature, which was extraordinarily scattered and in part very difficult of access, and to select the good from the hardly conceivable confusion of useful and useless communications, in order to give to the independent investigator a useful hand-book, and to the beginner a trustworthy introduction into this territory.

THE AUTHOR.

WIESBADEN, February, 1885.





## TRANSLATOR'S PREFACE.

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THIS translation of Hueppe's excellent work on the "Methods of Bacteriological Investigation" was suggested by the want in English of a satisfactory text-book on this subject for the use of students working under my direction in the Carnegie Laboratory. The preparation of the original was undertaken by Dr. Hueppe, at the request of Prof. Robert Koch, and the work has been thoroughly and carefully done. It shows a complete familiarity with the subject in hand, is comprehensive in character, and treats carefully all of the approved methods of investigation.

Some difficulties have been met in the translation which those acquainted with this kind of work will readily understand. It is literal so far as is consistent with clearness, and no attempt has been made to attain elegance in style or diction; but it is well known that many German terms have no exact English equivalent, and can only be rendered accurately by a roundabout expression. This is well illustrated by "Maassenkultur" (as translated by quantity-culture on page 101 *et seq.*), which means a culture, whether pure or not, where a great

quantity or bulk of bacteria are growing; but, since this expression can not be inserted each time in the text, *quantity-culture* will be used wherever it occurs.

The labor of preparing the translation was performed in the short intervals of leisure found in the midst of numerous other duties, and was unavoidably interrupted just before its completion, so that some errors may be found in the book, but I think that none of serious importance have escaped correction.

The author has requested me to emphasize the fact "that the short, concise form chosen in the work is based on an extensive historical and experimental review of the whole subject, and that if any methods, still much used, have been omitted or only briefly considered, it is because they have not now the significance or importance that has been ascribed to them by other writers."

I here desire to acknowledge my indebtedness to Dr. L. W. Hubbard and Dr. S. N. Nelson, both of New York, for valuable assistance kindly rendered me in the translation.

The work has been very favorably received in Germany, and if this translation meets only a small part of the same consideration in America, I shall feel well repaid for the labor expended.

HERMANN M. BIGGS.

CARNEGIE LABORATORY, NEW YORK,  
December 1, 1885.