

**SYLLABUS OF A
COURSE OF LECTURES
ON PHYSIOLOGY.**

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Syllabus of a Course of Lectures on Physiology. by J. Burdon Sanderson

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J. BURDON SANDERSON

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LANE LIBRARY
ON
PHYSIOLOGY

BY
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PREFACE.

IN the new edition of the Syllabus of my Lectures on Physiology, I have followed the same arrangement as in the last, with the exception that in the chemical part the descriptions of immediate principles, which were before printed separately, have now been incorporated in the text. The whole has been revised, and some parts have been much extended. Under the title "Practical Exercises," I have added to the Syllabus instructions for laboratory work relating to the chemical properties of the animal liquids, and of the most important foodstuffs; and to the physiological endowments of living tissues and organs. The experiments I have selected are of so simple a character that, with the directions given and such aid as he will readily obtain in the laboratory, every man who takes pains will find it easy to carry them out successfully. The chemical series already form part of the Course of Practical Physiology. The others, which relate chiefly to the properties of the excitable and contractile tissues, have been hitherto omitted; not because they are regarded as of less importance, but for want of space—a difficulty which will be removed as soon as our new laboratories are completed. I cannot too strongly recommend their use to all who desire to acquire a serviceable knowledge of the elementary facts of physiology. They will also fulfil another but less important purpose, that of aiding candi-

dates in their preparation for the higher examinations in physiology, of the University.

To the "Practical Exercises" I have added a series of "Demonstrations." Under this heading I have given an account of experiments which, although they are of such fundamental importance that every student ought to witness them, cannot be advantageously repeated. These are given during the winter session, all students who have already attended the summer practical course being invited to attend them.

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Figure 1. Relationship between the number of species (S) and the number of individuals (N) for 10 different samples. The dashed line represents a linear fit to the data.