



## Biomedical Sciences reading list 2018

We look forward to welcoming you to Corpus Christi in October!

The Biomedical Sciences (BMS) course consists of six threads (Cells, Molecules, Genes, Body, Brain, Behaviour) plus a course in Mathematics and Statistics. In the first half of term, emphasis will be placed primarily on Cells, Molecules and Brain, plus an introduction to Mathematics.

To prepare yourself for the BMS course, we recommend that you consult text books and the Internet ahead of your arrival.

- If you have not studied Chemistry at advanced level in school, we recommend that you read about atoms and ions, chemical equilibria, Nernst potentials, thermodynamics, and the pH scale.
- If you have not studied Physics at advanced level in school, we recommend that you read about electricity, covering in particular topics such as current, resistance and capacitance.
- A substantial component of the first term of the BMS course is based on a book by **D.J. Aidley** "*Physiology of Excitable Cells*". Reading the first three chapters will help you settle into the course with ease and confidence. A PDF of the most relevant pages is available in a [separate link](#).

Further reading:

- If you would like to learn more about physiology, "*Life at the extremes*" by **F.M. Ashcroft** is an excellent and accessible introduction. You will learn about how the body responds to unusual circumstances such as high altitude, exercise or extremes of temperature.
- We recommend that you consult one of the three recommended books in the field of Psychology and Neuroscience: **H. Gleitman et al** (1999) *Psychology*. (Norton), **R.D. Gross** (2002). *Psychology: The Science of Mind and Behaviour* (Hodder & Stoughton), or **N. Hayes** (1998). *Foundations of Psychology: an Introductory Text*. (Nelson).

Past experience tells us that many BMS students have found the Mathematics and Statistics course particularly challenging. Even if you have studied Further Mathematics at A level (or equivalent), we recommend that you read the attached guidelines describing the Mathematics course at Oxford.

Pawel Swietach  
Handa Fellow and Tutor in Physiology

Robin Murphy  
Fellow and Tutor in Psychology

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