For NST Part IB Biochemistry & Molecular Biology, NST 2022-23

Most of these books should be available in your College library, but to give as many students as possible an opportunity to use them on a regular basis the Department of Biochemistry also keeps copies in the Part I Section of the Colman Library (in the Hopkins Biochemistry building, facing Tennis Court Road on the Downing Site). Selected books may be borrowed overnight from this collection. You are also welcome to make use of the main collection of books and journals, but borrowing these is not permitted. Part II and Part III Biochemistry students have priority for seating in the library. The Assistant Librarian is available to help you to locate books. Part IB BMB students who wish to use the library outside the hours of 8.30am – 5pm, Monday-Thursday, or 8:30am - 4pm, Friday, should ask the Hopkins building receptionist to programme their University proximity card for access.

There are a number of very good biochemistry textbooks available – some of which are quite general and cover similar topics, while others are more specialised. It’s probably a good idea to primarily use the ‘General Biochemistry Texts’, then use the others to dip in and out of as required. The use of relevant textbooks is essential for underpinning the material given to you in lectures – do make the most of the resources available to you.

Recommended books

If you wish to buy, we suggest that you browse first in libraries, book shops or third-years’ book collections.

a. General Biochemistry Texts

There are good companion websites that give further information about these books, and contain useful onward links.


  *For access to Student Resources see:*
  


  *Particularly useful for bioenergetics and metabolism. Good for signalling. For access to Student Resources see:*

  
  *The largest and most comprehensive of the cell and molecular biology textbooks, now with a CD-ROM as well as a revised Problems Book. Will be useful for Part II courses as well as IB.*
  
  www.garlandscience.com/product/isbn/9780815345244


b. **Books on specific topics**

  **Protein structure, function and evolution**

  - Protein Structure and Function, Petsko, G. & Dagmar, R., 2008

  **Enzyme catalysis and protein engineering:**


  **Energy transduction**


  **Oncogenes, tumour suppressor genes and cancer:**

    
    *The most comprehensive cancer biology textbook complete with a CD-ROM. Will be useful for Part II courses as well as IB.*
Other sources of information

a. Journals – well worth consulting

Research-oriented summaries (2-4 pages) of important topics in biochemistry and molecular biology are contained in the monthly journal *Trends in Biochemical Sciences* (usually known as TIBS). A similar journal is *Bioessays*. The *Scientific American* usually contains at least one biochemical article per issue and is well worth a glance. Copies of these journals are found near the Part I reading area.

b. Web Sites

Ever more useful source of information. We shall just give here two of our favourite general addresses, which have many forward links.

- Online Mendelian Inheritance in Man
- Swiss Institute of Bioinformatics (www.expasy.ch/)

c. Links to literature sources on Moodle

The Reading list and links to Textbooks and Journals can be found on Moodle in the book entitled “Course Information”.

- Textbooks via pubmed
- Links to Electronic Journals via the University
- Trends in Biochemical Sciences (TiBS)
- Current Opinions in Chemical Biology
- Current Opinions in Structural Biology