

Webliography: annotated listings of external web sites

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- **Critical Thinking in Biology: Case Problems: A guide for Instructors**
<http://www.saltsspring.com/capewest/ct.htm>
Biology Education has been criticized for emphasizing mindless memorization over analytical and creative science. This page illustrates how CASE PROBLEMS can inspire students in an introductory college biology course to develop scientific reasoning skills.
- **Problem-based Learning in Biology with 20 Case Examples**
<http://www.saltsspring.com/capewest/pbl.htm>
- **Biochemistry and the Practical Basis of Medical and Dental Science**
<http://www.liv.ac.uk/~agmc/en/Medpracs/Prachomepage.html>
A set of six biochemistry and biomedical science practical classes to illustrate some common laboratory techniques used in clinical chemistry, cytogenetics etc. and the scientific principles upon which these are based, and to put these in a context where their relevance to clinical practice can be appreciated.
- **Data Analysis for Postgraduate Researchers in the Life Sciences**
<http://www.stams.strath.ac.uk/teaching/classes/53.904/practicals/index.php>
This page provides links to practicals material.
These documents are provided in pdf format, and must be viewed using Adobe's acrobat reader plug-in.
- **Compendium of Innovation and Good Practice in Teaching Pharmacology**
<http://www.bps.ac.uk/epharnet/>
A collection of examples of practical and other forms of teaching activities that provides stimulating ideas for developing practice. Although pharmacology based, there are many examples that relate to generic skills development and that could be adopted in other branches of life sciences.
- **Assessment under Pressure**
http://www.brookes.ac.uk/services/ocsd/2_learnth/aup14pr.html
- 14 Innovative Case Studies from The Oxford Centre for Staff and Learning Development of Oxford Brookes University. Includes case studies involving assessment of practical work by peer assessment as well as other more general examples.
- **Promoting Effective Learning in the Chemistry Laboratory**
<http://dbweb.liv.ac.uk/ltsnpssc/workshop/reports/labchem.htm>
LTSN Physical Sciences Professional Development Workshop summary report with some useful and interesting summaries and observations of relevance to laboratory activities in science generally.
- **Neuroanatomy & Neuropathology on the Internet**
<http://www.neuropat.dote.hu/>
A searchable directory compiled for medical students, residents, and other health professionals.
- **The Axon Guide for Electrophysiology & Biophysics: Laboratory Techniques**
http://www.axon.com/MR_Axon_Guide.html
A practical laboratory guide covering a broad range of topics, from the biological basis of bioelectricity and a description of the basic experimental setup, to the principles of operation of the most advanced hardware and software currently available.

- **The Internet Pathology Laboratory of Medical Education**

<http://medlib.med.utah.edu/WebPath/webpath.html>

This web resource includes over 1900 images along with text, tutorials, laboratory exercises, and examination items for self-assessment that demonstrate gross and microscopic pathologic findings associated with human disease conditions.

- **Plant Sampling**

<http://www.wes.army.mil/el/aqua/apis/ecological/plantsam.html>

The methods described can be employed by operational aquatic plant management efforts to quantify the aquatic plant problem, monitor the success of the management plan on a whole-system basis, or assess the effectiveness of individual management techniques.

Anatomy

- **Human anatomy**

<http://www.leeds.ac.uk/chb/humbmods.html>

Notes to accompany Human Anatomy practicals.

- **Human Microscopic Anatomy**

<http://medocs.ucdavis.edu/CHA/402/course.htm>

Teaches normal structure of cells, tissues and organs to explain function in the human body.

- **Clinical Anatomy Interactive Laboratory Practical**

<http://www.osl.u-net.com/m322.htm>

This CD-ROM realistically simulates the lab practical exam. Students are presented with flagged screen images and related questions. They can select tutorial mode or simulated test mode.

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- **The Scientist -Instructors reconsider Dissection's Role in Biology Classes**

http://www.the-scientist.com/yr1997/nov/prof_971110.html (Requires free registration).

An interesting, USA based view on this important and controversial subject. Presents views for and against dissection and this article is well worth using to raise the subject with students and staff alike.

- **Fieldwork Methodology: a site provided by the Barcelona Field Studies Centre** (recommended by LTSN GEES)

<http://geographyfieldwork.com/Fieldwork%20Methodology.htm>

Contains a lot of interesting general information on approaches to fieldwork of very distinct relevance to life sciences fieldwork and field courses.

- **Invertebrate Bibliography**

<http://www.lander.edu/rsfox/invertbib.html>

Composite bibliography listing from Richard Fox at Lander University, valuable for those teaching or studying invertebrate anatomy.

- **Invertebrate Anatomy**

<http://www.lander.edu/rsfox/invertanat.html>

Original (Richard Fox) Invertebrate anatomy descriptions and dissection guides for about 90 species frequently used in North American studies. Presented as laboratory exercises. Valuable resource but note the requirement to inform him when they are used for class or research purposes.

- **MODULE BS300 - Practical writing and communication skills for biologists**

<http://www.le.ac.uk/biology/teach/mod300/pwcs.html>

An excellent series of pages from the University of Leicester related to topics including, Literature and Citations, Practical Desktop publishing, Planning a presentation, Visual aids, and delivering a presentation.