Physiology

Physiology Instruction Examples

**Physiology Simulations**: Loyola University Medical Education Network (LUMEN) has included cardiology and respiratory models in these physiology simulations.

**Cell and Tissue Structure/Physiology**: Self-study pages, practice questions, lecture handouts and images are provided.

**Hypertexts for Biomedical Sciences**: Four hypertexts focus on Medical Genetics, Biotechnology, Pathophysiology of the Digestive System and Pathophysiology of the Endocrine System. The later two include the physiology and anatomy of the Digestive System and fundamental concepts of endocrinology. The topics are linked to multiple related disciplines. Colorado State University developed these hypertextbooks as an educational experiment designed to assess the value of on-line, web-based information sources as a supplement to classroom teaching and continuing education. One key objective of the project includes providing textbooks that are useful to beginners and advanced students as illustrated by the material being coded as such.

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Resources

**PhysioNet**: A resource for research and education, PhysioNet includes three sections: PhysioBank, PhysioToolkit and PhysioNet. At the tour site, click on Examples to view illustration of what this resource provides.

- **PhysioBank**: An archive of well-characterized digital recordings of physiologic signals of multi-parameter cardiopulmonary, neural, and other biomedical signals from healthy subjects and also from patients with a variety of conditions.
- **PhysioToolkit**: A library of software for physiologic signal processing, analysis and detection of physiologically
significant events.
http://www.physionet.org/physiotools/ [8]
- **PhysioNet**: Provides tutorials and hands-on introductions to concepts, data, and software on PhysioNet.
  http://www.physionet.org/site-map.shtml [9]

Journals, Societies, Associations, etc.

**The American Physiological Society (APS)**: APS fosters education, scientific research, and dissemination of information in the physiological sciences.

- **Advances in Physiology Education**: This APS journal focuses on enhancing the teaching and learning of physiology, neuroscience and pathophysiology. It disseminates educational information and promotes educational scholarship to help improve teaching.

**The Physiological Society**: Goals for this United Kingdom Society include supporting education in physiology and physiological research through publications and scientific meeting. The Journal of Physiology and Experimental Physiology Journal are published by the Society. Educational resources are directed at those studying and teaching Physiology.
http://www.physoc.org/ [12]

**The Human Anatomy & Physiology Society**
This group promotes excellence in teaching anatomy and physiology. The site offers a wide range of teaching resources; some are public, while others require membership. Maintains two list-servs, HAPS-L, an open forum for discussions of teaching A & P, and a second one called Teaching Portfolios. Both are open to the public. Subscribe to the HAPS-List-serv at:
HAPS homepage: http://www.hapsweb.org/ [14]

Michigan State University's Physiology Resources

**Department of Physiology**: 
https://physiology.natsci.msu.edu [15]

These resources were compiled and annotated by Lois Rosen, Ph.D., Instructional Consultant for the Office of Faculty and Organizational Development, Michigan State University.
Source URL: http://www.fod.msu.edu/oir/physiology

Links
[15] https://physiology.natsci.msu.edu