













Genetics Websites for Undergraduate Level

Tutorials



	<p>BioCoach Activities Contains tutorials and self-quizzes about a variety of concepts in biology. The tutorials have illustrations and animations for each concept introduced.</p>
	<p>LabBench Activities A good source of online labs dealing with a variety of subjects in biology. Each lab goes over key concepts, the design of the experiment, analysis of the results and a lab quiz. Each concept is coupled with helpful illustrations or animations.</p>
	<p>Koshland Science Museum Provides introductory information for DNA, inherited diseases, DNA and criminal justice, improving crops and infectious diseases. There are several interactive activities, in which students use DNA to predict disease inheritance, solve forensics cases and improve crops.</p>
	<p>Evolution: Selected Papers and Commentaries Provides an overview of evolution and also lists various letters written by Charles Darwin corresponding with critics of his work and fellow scientists.</p>
	<p>Genetic Science Learning Center A tutorial that goes over the different kinds of clones and the methods of cloning. There are some animated video clips that demonstrate the various cloning methods.</p>

Biology Multimedia




	<p>BioEd Online This site lists pre-made biology Powerpoint presentations and individual slides by topic. Many of the presentations have the capability to show a video of a lecturer while displaying the corresponding slides at the same time.</p>
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	<p>HHMI BioInteractive</p> <p>An extensive resource for biology animations, video clips and professional lecture series. This site also features several interactive laboratories for various fields in biology. These virtual laboratories allow students to go through various lab procedures online. There are also educational DVDs and CD-ROMs available for purchase.</p>
	<p>Flashcard Exchange</p> <p>A useful tool for students or professors. This site allows students to create or view flashcards online. Professors can use this tool to create flashcards for students to download.</p>
	<p>Life Sciences/ HHMI Outreach Program</p> <p>This site lists lecture videos, teacher animations, lesson plans and links pertaining to the biology of cancer and other topics in biology. The image gallery also has plenty of pictures related to cancer.</p>
	<p>Educyclopedia</p> <p>A large database of sites that contain video clips and animations. The links to the video clips are listed by topic.</p>
	<p>BioClips</p> <p>"Cinema of the Cell" is a festival in which contestants submit biology video clips which they have produced. The clips on this site are informative while at the same time they bring an element of humor.</p>
	<p>BnIBio</p> <p>Contains several short video clips that show how knowledge of genomes can be put to use for practical purposes.</p>





Journals



	<p>NSTA: The College Science Classroom</p> <p>NSTA members have online access to <i>The Journal of College Science Teaching</i>. On this site non-members also have access to science articles with downloadable figures through the <i>Proceedings of the National Academy of Sciences</i>. In addition, there is a link to an online library of case studies, and a searchable database of recommended teaching materials and labware.</p>
	<p>National Center for Case Study Teaching in Science</p> <p>Provides an extensive collection of case studies for undergraduate life science and other sciences. This site also has links to numerous other sites that list case studies. There is also a section that links to various science education journals.</p>

Case Studies




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	<p>UD: Problem-Based Learning The University of Delaware provides a clearinghouse of problem-based learning ideas, which cover biology and biochemistry.</p>

Science Articles

	<p>BrightSurf This is a compilation of various articles dealing with genetics that have recently been in the headlines. The articles are a good way to link current events with science and show how science is relevant to all people.</p>
	<p>CBHD This site has links to articles dealing with the bioethical issues that arise in the field of genetics. The articles come from the perspectives of various authors.</p>
	<p>Kennedy Institute of Ethics This is a search engine that locates articles, books, publications, organizations and links that relate to bioethics. There is an emphasis on genetics and bioethics.</p>
	<p>Ethics Matters Jeffrey P. Kahn, Ph.D., has written a collection of columns about life science issues for the health section of CNN.com. The column deals with the ethics of current issues in biology.</p>

	<p>ActionBioscience Offers links to interesting articles concerning issues in genomics, the environment, biodiversity, biotechnology, evolution, new frontiers and education. The sections dealing with science education and ethical issues in genomics are especially relevant.</p>
	<p>ScienceWeek This page contains current articles dealing with many fields in science.</p>
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Lab Activities

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