

Frontiers of Medicine

Student Resource Material

Related Print Materials

- Aldridge, Susan. *The Thread of Life: The Story of Genes and Genetic Engineering*, Cambridge University Press, 1998.
-- Provides an overview of the structure and function of DNA, and explains genetic engineering and biotechnology processes.
- Frumkin, Lyn R., M.D., Ph.D., Leonard, John M., M.D., preface by David D. Ho, M.D. *Questions & Answers on AIDS, 3/e*, Health Information Press, 1997.
-- Provides answers to the most common questions about AIDS, focusing upon its causes and treatment.
- Gelehrter, Thomas D., M.D., Collins, Francis S., M.D., Ph.D., Ginsburg, David. *Principles of Medical Genetics*, Lippincott, Williams & Wilkins, 1997.
-- Provides an overview of genetics and its applications to the field of medicine.
- Hoagland, Mahlon, Dodsen, Bert. *The Way Life Works*, Times Books, 1998.
-- Beautifully illustrated text that explains life processes, from the cellular to the community level, in easy-to-read prose.
- Pence, Gregory E., ed. *Flesh of My Flesh: The Ethics of Cloning Humans: A Reader*, Rowman & Littlefield, 1998.
-- Collection of essays on the topic, written from scientific, theological, legal, and ethical perspectives.
- Schwartz, William B., M.D. *Life Without Disease: The Pursuit of Medical Utopia*, University of California Press, 1998.
-- Reviews the past, and suggests the future, of medicine, and the impact that genetic technologies will have upon medicine's primary focus.
- Silver, Lee M. *Remaking Eden: How Genetic Engineering and Cloning Will Transform the American Family*, Avon, 1998.
-- Explores the current capabilities of genetic engineering and forecasts possible future applications and implications.
- Stein, Gerald J., Ph.D. *Acquired Immune Deficiency Syndrome: Biological, Medical, Social, and Legal Issues*, Prentice Hall, 1998.
-- Provides a comprehensive look at our current understanding of AIDS and HIV, from multiple perspectives.
- *Time Magazine*
. 1999. Special issue on the future of medicine. January 11.
-- Explores the role of genes in science and their applications and influence upon medicine; can also be accessed from <http://cgi.pathfinder.com/time/magazine/toc/0,3392,1101990111,00.html>.
- Weil, Andrew, M.D. *8 Weeks to Optimum Health*, Fawcett Books, 1998.
-- Provides a step-by-step plan for improving one's health status, through a holistic approach that stresses proper nutrition, exercise, dietary

- supplements, and stress-reduction techniques.
- Weil, Andrew, M.D. *Natural Health, Natural Medicine: A Comprehensive Manual for Wellness and Self-Care*, Chapters Pub Ltd., 1998.
 - A how-to-guide for using natural remedies to treat common acute and chronic illnesses.
- Weil, Andrew, M.D. *Spontaneous Healing: How to Discover and Enhance Your Body's Natural Ability to Maintain and Heal Itself*, Ballantine Books, 1996.
 - Reviews the role of the body's natural healing mechanisms in coping with disease processes, and the appropriate balance between traditional and holistic medicine.

Related Web Sites

- [A Clone in Sheep's Clothing](#)
Explains the science and implications of cloning.
- [A New Germ Theory](#)
Article that puts forth the theory that most chronic disease processes, just like peptic ulcers, are the result of pathogens.
- [Ask Dr. Weil](#)
Provides information on herbal medicine and vitamin supplements, suggestions for implementing his approach to healthier living, and recipes for healthful meals. Dr. Weil will also answer your health-related questions.
- [Biotechnology](#)
Provides teachers with classroom and laboratory activities for biotechnology.
- [Blazing a Genetic Trail](#)
Explores the science behind, and implications of, genetic diseases.
- [Cloned: News Updates and Information Resources](#)
Provides links to news articles on cloning.
- [DNA: The Instruction Manual for All Life](#)
Explores the structure, function, and significance of DNA.
- [Dolly the Sheep](#)
Explores the science behind the cloning process and provides links to additional resources.
- [Dr. Ian Wilmut](#)
An interview in which he discusses cloning and its impact upon medicine.
- [Ethical Scenarios Forum](#)
Join the ETHEX listserv, in which genetics issues with social, ethical, and legal implications are discussed.
- [Helicobacter pylori and Peptic Ulcer Disease](#)
CDC site that provides background information on the disease, its impact and treatment, and dispels ulcer myths.
- [HIV/AIDS Information Center](#)
Provides resources on AIDS treatment, prevention, education, policies, and news updates.
- [How Far Can You Knock Down HIV?](#)
An interview with David D. Ho, M.D.

- [Medical Ethics: Where Do You Draw the Line?](#)
Provides the opportunity to evaluate several scenarios where the decision-making process depends heavily upon one's ethics.
- [Medical Genetics](#)
Site explores cell biology and the role of genetics in hypertension, cardiology, oncology, and neurosciences.
- [National AIDS Treatment Information Project](#)
Provides detailed information on AIDS symptoms, testing procedures, and treatments.
- [The Helicobacter Foundation](#)
Web site for the foundation, created by Dr. Barry Marshall, that provides information on the diagnosis and treatment of medical conditions related to *Helicobacter pylori*.
- [The National Human Genome Research Institute](#)
National Institutes of Health site that provides information on genetics, The Human Genome Project, and the ethical, legal, and social issues that accompany genetics research.
- [The People's Pharmacy](#)
Provides helpful information on both traditional and alternative medicines.

Career Corner

The fields of medicine and biotechnology encompass many possible career paths, including:

- animal technician
- biomedical engineer
- biostatistician
- botanist
- cell biologist
- chemist
- clinical trials coordinator
- embryologist
- epidemiologist
- gastroenterologist
- genetic counselor
- genetic engineer
- geneticist
- medical researcher
- microbiologist
- pathologist
- pharmacologist
- physician
- technical writer

The following site, maintained by UC Berkeley, can help you begin to research some of these scientific careers

SOME OF THESE SCIENTIFIC CAREERS.

[Biological Sciences Career Exploration Links](#)

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