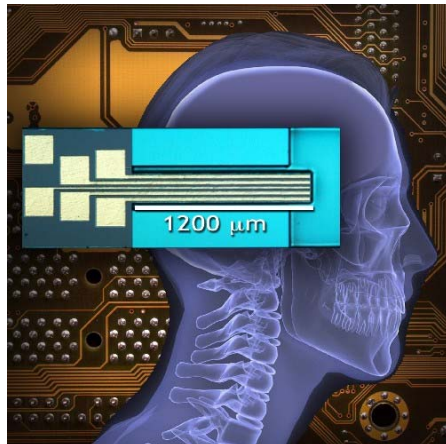


# Biotechnology & Medical Engineering

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National Institute of Biomedical Imaging and Bioengineering and Dr. Ranu Jung, Arizona State University

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## Full text journal papers

Bring a USB flash drive or your own computer to the library to download biotechnology related research papers in selected databases (**PDF** format).

Chandrasekaran, Aarthi et al. 2008. Glycan topology determines human adaptation of avian H5N1 virus hemagglutinin. *Nat Biotech* 26, no. 1:107-113.

Chen, Jianchun et al. 2008. Modifying murine von Willebrand factor A1 domain for in vivo assessment of human platelet therapies. *Nat Biotech* 26, no. 1:114-119.

Cross, Sarah E., Yu-Sheng Jin, Jianyu Rao, and James K. Gimzewski. 2007. Nanomechanical analysis of cells from cancer patients. *Nat Nano* 2, no. 12:780-783.

Davies, Brian. 2006. Medical robotics-a bright future. In *Lancet*, Vol. 368 of, 53-54, *Lancet*

Mannix, Robert J. et al. 2008. Nanomagnetic actuation of receptor-mediated signal transduction. *Nat Nano* 3, no. 1:36-40.

Van Beilen, Jan B., and Yves Poirier. 2007. Guayule and Russian Dandelion as Alternative Sources of Natural Rubber. *Critical Reviews in Biotechnology* 27, no. 4:217-231.



## Laptop docking

Connect your portable computer to the library's Ethernet (wired) network in the main reading room to access both the Internet and subscription databases at the same time. For communication settings, please visit the reference desk for a guide sheet. Download articles to your own hard drive at the same time as keeping in touch by email and the Internet.

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Abidian, Mohammad Reza, and David C. Martin. 2008. Experimental and theoretical characterization of implantable neural microelectrodes modified with conducting polymer nanotubes. *Biomaterials* 29, no. 9:1273-1283.

Bartholomew, Sadie R., and John T. Tansey. 2007. Cost-effective engineering of a small-scale bioreactor. *Biotechnology and Bioengineering* 96, no. 2:401-407.

Cebollero, Eduardo, Daniel Gonzalez-Ramos, Laura Tabera, and Ramon Gonzalez. 2007. Transgenic wine yeast technology comes of age: Is it time for transgenic wine? *Biotechnology Letters* 29, no. 2:191-200.

Huisman, J., H. Dijkman, and G. Schouten. 2005. Biological fluegasdesulfurization: Sustainable, effective and cost-efficient. In 2005 TMS Annual Meeting, Feb 13-17, 1149-1157, San Francisco, CA, United

States: Minerals, Metals and Materials Society, Warrendale, PA 15086, United States.

Kotz, Kenneth T. et al. 2008. Inspiratory contrast for in vivo optical imaging. *Optics Express* 16, no. 1:19-31.

Krishna, Hare, and S.K. Singh. 2007. Biotechnological advances in mango (*Mangifera indica* L.) and their future implication in crop improvement - A review. *Biotechnology Advances* 25, no. 3:223-243.

Lei, Kin Fong et al. 2007. A vortex pump-based optically-transparent microfluidic platform for biotech and medical applications. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine 221, no. 2:129-141.

Ma, J., Tao Li, Y.H. Chen, T.H. Lim, and F.Y.C. Boey. 2007. Piezoelectric materials for biomedical applications. *Key Engineering Materials* 334-335 II:1117-1120.

Parra, Lucas C. et al. 2008. Spatiotemporal linear decoding of brain state. *IEEE Signal Processing Magazine* 25, no. 1:107-115.

Sanchez, Justin C. et al. 2008. Technology and signal processing for brain-machine interfaces. *IEEE Signal Processing Magazine* 25, no. 1:29-40.

White, D., J.A. Evans, J.G. Truscott, and R.A. Chivers. 2007. Can Ultrasound Propagate in the Joint Space of A Human Knee? *Ultrasound in Medicine and Biology* 33, no. 7:1104-1111.

Peter, Gary F., David E. White, Rafael De La Torre, Rajan Singh, and David Newman. 2007. The value of forest biotechnology: A cost modelling study with loblolly pine and kraft linerboard in the southeastern USA. *International Journal of Biotechnology* 9, no. 5:415-435.

von Sivers, M., G. Zacchi, L. Olsson, and B. Hahn-Haegerdal. 1994. Cost analysis of ethanol production from willow using recombinant *escherichia coli*. *Biotechnology Progress* 10, no. 5:555-560.

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Ahluwalia, V. K. *Chemistry of Natural Products: Amino Acids, Peptides, Proteins, and Enzymes*. Boca Raton, Fla: CRC Press, 2007.

De Grey, Aubrey D. N. J. *Ending Aging: The Rejuvenation Breakthroughs That Could Reverse Human Aging in Our Lifetime*. New York: St. Martin's, 2007.

Landecker, Hannah. *Culturing Life: How Cells Became Technologies*. Cambridge: Harvard University, 2007.

Sandel, Michael J. *The Case Against Perfection: Ethics in the Age of Genetic Engineering*. Cambridge, Mass: Belknap Press, 2007.

Sharp, Lesley Alexandra. *Bodies, Commodities, and Biotechnologies: Death, Mourning, and Scientific Desire in the Realm of Human Organ Transfer*. New York: Columbia Univ. Press, 2007.



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*Advances in Medical Engineering*. Berlin: Springer, 2007.

*Biological Membrane Ion Channels: Dynamics, Structure, and Applications*. New York: Springer, 2007.

*Biomedical Applications of Nanotechnology*. Hoboken, N.J: Wiley-Interscience, 2007.

*Kernel Methods in Bioengineering, Signal and Image Processing*. Hershey, PA: Idea Group Pub, 2007.

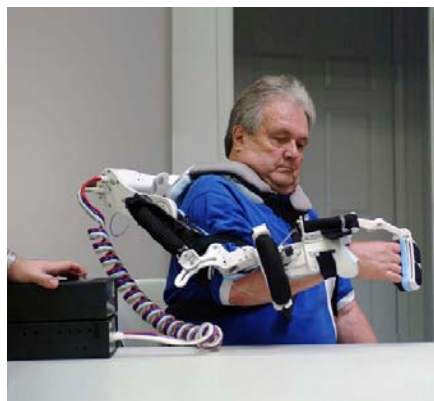
*Methods in Protein Structure and Stability Analysis*. New York: Nova Biomedical Books, 2007.

*Nanobiotechnology of Biomimetic Membranes*. New York, NY: Springer, 2007.

*New Aspects of Biotechnology and Medicine*. New York: Nova Biomedical Books, 2007.

*Smart Biosensor Technology*. Boca Raton: CRC Press/Taylor & Francis, 2007.

Waite, Lee. *Applied Biofluid Mechanics*. New York: McGraw-Hill, 2007.



National Institute of Biomedical Imaging and Bioengineering; Kinetic Muscles, Inc. and Tim Trumble of Arizona State University's Biodesign Institute

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**Plunkett's Biotech Industry Research Center** is part of Plunkett Research Online, a database available at SIBL. A major update of all data in this special section was made in 2007, and is divided by Market Research and Trends, Company Profiles, Export Company Contacts, Statistics, Associations/Organizations and a special Plunkett's Build-a-Report.

**Mergent Horizon**, part of Mergent Online, gives detailed business analysis of biomedical and pharmaceutical companies, and the industry as a whole, by sector.

**Epicom Business Intelligence** contains *Medical Device Companies Analysis*, a database of comprehensive reports on over 75 leading medical device and equipment manufacturers covering all aspects of their operation including corporate structure, M&A, agreements, financial performance,

product portfolio, international activities and R&D.

**Investext Plus** contains investment, company & industry reports from over 500 brokers in North America, Europe, Asia/Pacific, Latin America, Africa and the Middle East. Under 'Biotechnology Industry' there are more than 18,000 reports, most of them PDF documents of up to 100 pages or more.

**MarketResearch.com Academic** contains 95 Biotechnology Market Research Reports available for free to NYPL users with a one-year post-publication delay. Many of these are book-length PDF documents, originally costing thousands of dollars (and usually available in their most recent editions now at that price). For example, *The 2007-2012 World Outlook for Biotechnology* 185 pages long, was published in June 2006 for \$800 is now free at SIBL.

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