



June 2007

### Biotech News

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- An international group of researchers make major advances in the transformation of different cells into stem cell lines.  
<http://www.news.harvard.edu/gazette/2007/06.07/99-stemcell.html>
- Cell biologists find that coactivators, master genes that turn other genes on and off in concert, are already preprogrammed to be destroyed as soon as they are activated.  
<http://www.bcm.edu/news/item.cfm?newsID=911>
- Team of engineers develop a two-stage process for turning biomass-derived fructose into 2,5-dimethylfuran (DMF), a liquid fuel with 40 percent greater energy density than ethanol.  
<http://www.news.wisc.edu/13881>
- Engineers show that common bacteria can deliver nanoparticles with sensors or drugs to a targeted cell for diagnosis or treatment.  
<http://news.uns.purdue.edu/x/2007a/070613BashirSmartnano.html>
- A large, interdisciplinary group of researchers find the latest type of "cancer stem cells" that propagate tumors in colon and rectal cancer.  
<http://news-service.stanford.edu/news/2007/june6/med-stemcolon-060607.html>

### Bio at AICHE's Annual Meeting in Salt Lake City, November

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The preliminary program for **AICHE's Annual Meeting** on November 4-9, 2007, in Salt Lake City, Utah is available. View the many sessions focusing on biotechnology [here](#). Also, please add the following events to your agenda for the meeting. The James E. Bailey Award Lecture will be given on Monday, November 5th, at 6pm. Later that evening, SBE members can relax and enjoy the company of many of their colleagues at SBE's Hospitality Suite, sponsored by Merck Research Laboratories. This suite is free for SBE members – so make sure your colleagues are members as well! And don't forget to go to the Institute Lecture on Tuesday, November 6th. Nicholas Peppas, a former Bailey Award recipient, will be giving the AICHE Institute lecture at 12 noon.

### SBE Conferences

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Registration is now open to attend **SBE's 3rd International Conference on Bioengineering and Nanotechnology (LCBN 2007)** on August 13-15, 2007 in Biopolis, Singapore. Professor Jackie Ying, head of Singapore's Institute for BioNanotechnology, is chairing the event. Some of our speakers include:

- Takuzo Aida, *University of Tokyo*
- Mounji Bawendi, *Massachusetts Institute of Technology*
- C. Jeffrey Brinker, *University of New Mexico*
- James Bryers, *University of Washington*
- James Heath, *California Institute of Technology*

- Allan Hoffman, *University of Washington*
- I-Ming Hsing, *Hong Kong University of Science and Technology*
- Yu-Chen Hu, *National Tsing Hua University*
- Kazuhiko Ishihara, *University of Tokyo*
- Klavs Jensen, *Massachusetts Institute of Technology*
- Kazunori Kataoka, *University of Tokyo*
- Thomas A. Kost, *GlaxoSmithKline*
- Gil Lee, *Purdue University*

Register [now](#).

### **Meeting Announcement — Bioeconomics: Developing an Economic Strategy for Healthcare Bio and Information Technologies**

Meet the movers and shakers of the biopharmaceutical world at the Biotechnology Council's conference on bio-economics on September 25, 2007 in Gaithersburg, MD. SBE as a member of the Biotech Council is cosponsoring a conference, together with the Department of Commerce's National Institute of Standards and Technology. Jerome Grossman, Senior Fellow and Director of the Harvard/Kennedy School Health Care Delivery Policy Program is chairing the event. Janet Woodcock, deputy commissioner of the FDA will speak. More information is available at <http://www.itl.nist.gov/Healthcare/conf/index.htm>.

The Call for Papers is open for [SBE's 1st International Conference on Stem Cell Engineering](#) on January 20-23, 2008 in Coronado, CA. Topics include:

- Biomaterials for stem cell growth and differentiation
- Biomaterial scaffolds for stem cell therapeutic applications
- Bioreactors and bioprocesses for cell expansion and differentiation
- High throughput and microfluidic screening platforms
- Intercellular signaling and the engineered niche
- Systems based approaches to understanding fate decisions
- Novel approaches for embryonic stem cell growth and differentiation
- Novel approaches for adult stem cell growth and differentiation
- Stem cells and drug discovery: pharmacology and toxicology screening platforms.

Find out more about this exciting new conference at:

<http://www.aiche.org/StemCellEng>

A complete bio-event calendar can be found at:

<http://www.aiche.org/SBE/Events/index.aspx>

### **Join SBE**

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Not a current SBE member? It's never too late to join or renew. Costs are \$75 for regular members, \$25 for graduate students, \$10 for AIChE, ACS and IBE members, or \$5 for undergraduates. Join now at <https://www.aiche.org/apps/ecommerce/bio/index.asp>.

### **Member benefits include:**

- Subscription to SBE's semi-annual BioSupplement to Chemical Engineering Progress.
- Discounts on leading biological engineering conferences including SBE and SBE cosponsored meetings and courses.
- Access to online membership directory.
- A voice in education, employment and technology advancement topics.

### **Comments?**

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SBE's e-Connections is edited by Adrian Andrew Fay, Web Science Editor, with input from various SBE staff. Contact us at [bio@aiiche.org](mailto:bio@aiiche.org)

*The Society for Biological Engineering (SBE) is a new technological community of AIChE  
Its mission is to promote the integration of biology with engineering and realize its benefits  
through bioprocessing, biomedical, and biomolecular applications.  
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