



January 2007

### Biotech News

---

- Canadian researchers complete the first draft of human metabolome, the full set of metabolites produced by humans.  
<http://www.expressnews.ualberta.ca/article.cfm?id=8171>
- Scientists develop new nanotechnology to help determine gene expression by examining single molecules.  
[http://www.eurekalert.org/pub\\_releases/2007-01/nyu-nna012407.php](http://www.eurekalert.org/pub_releases/2007-01/nyu-nna012407.php)
- Biologists discover set of genes controlled by gene Foxp3 that play a key role in autoimmune diseases such as type 1 diabetes, lupus and rheumatoid arthritis.  
<http://web.mit.edu/newsoffice/2007/immune.html>
- Scientists create heart muscle with built-in blood supply, using embryonic stem cells on a scaffold. <http://www.newswise.com/articles/view/526706/>
- New model of ion channels in plants could help scientists understand how to control channels and restore cell function in conditions such as epilepsy and heart arrhythmia in humans.  
<http://mac10.umc.pitt.edu/m/FMPro?-db=ma&-lay=a&-format=d.html&id=2778&-Find>
- National Academy of Sciences honors 18 for their contributions.  
<http://www8.nationalacademies.org/onpinews/newsitem.aspx?RecordID=01172007>

### Student Corner

---

Students from the U.S., Mexico and Denmark converged on the campus of the University of California, Los Angeles, on Saturday, January 20th. Represented schools included Denmark Technical Institute Tec de Monterey, Oregon State University, UC Riverside, UC Davis, UCLA, Princeton, Rose-Heilman, MIT, and University of Illinois. Students learned from other students how to start up SBE student chapters. They also learned from professors about academic careers and from industrial speakers about internships, summer jobs, and permanent positions. Sponsors of this event included Amgen, Bristol-Myers Squibb, Danisco, Genentech, and Merck. Jobs from these companies are posted at <http://bio.aiche.org>.

### Meetings Update

---

SBE has reopened its call for papers (posters only) for the 1st Conference on Accelerating Biopharmaceutical Development in March 19-22, 2007 in Coronado, CA. This conference focuses on delivering cost-effective, robust processes and methods quickly and efficiently. Keynote speakers include:

- Helen Winkle, Director of the Office of Pharmaceutical Science at the FDA's Center for Drug Evaluation and Research
- Roger Perlmutter, VP of Research and Development, Amgen

- Tony Lubiniecki, VP of Development, J&J/Centocor.

The complete program is now available. View the program or register now.  
([www.aiche.org/AcceleratingBio](http://www.aiche.org/AcceleratingBio))

SBE's 1st Conference on Biomolecular Engineering in Coronado, California was a smashing success. J. Craig Venter provided one of the many highlights in his talk about the biodiversity of the oceans discovered by the Sorcerer II expedition and the field of combinatorial genomics. Pim Stemmer of Amunix provided another highlight as he discussed his founding of companies, some key learnings, and the science behind these companies. The proceedings will be made available. You can find out more at [www.aiche.org/ICBE](http://www.aiche.org/ICBE).

### Save the Dates

Professor Jackie Ying, head of Singapore's Institute for BioNanotechnology, is chairing SBE's 3rd International Conference on Bioengineering and Nanotechnology (ICBN 2007) on August 13-15, 2007 in Biopolis, Singapore. The call for papers is now open with student funding available. Find out more at [www.aiche.org/icbn](http://www.aiche.org/icbn).

SBE is pleased to announce its chairs for their 1st International Conference on Stem Cell Engineering – Dr. Fred Gage of the Salk Institute and Professor David Schaffer of UC, Berkeley. This conference will be held on January 20-23, 2008.

### Other Events

#### [AIMBE's 16th Annual Event](#)

*Engaging the Public's Trust: Exploring the Benefits and Risks of Medical and Bioengineering Innovations*

Feb 27 – March 2, 2007  
Washington, D.C.

#### [ASME's Frontiers in Biomedical Devices](#), Cosponsored by SBE

June 6-7, 2007  
Irvine, CA

A complete bio-event calendar can be found at <http://www.aiche.org/SBE/Events/index.aspx>

### [Join Now](#)

---

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?](#)

---

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.  
For comments and contributions to SBE Connections, email <mailto:bio@aiiche.org>*

AIChE © 2006 American Institute of Chemical Engineers