



June 2006

Biotech News

- Scientists show how a key biological pathway, when obstructed, causes Parkinson's disease symptoms, and how to restore this pathway in certain animal models.
<http://web.mit.edu/newsoffice/2006/parkinsons.html>
- Scientists learn how epidermal growth factor receptor – a protein overactive in many cancers – is turned on and promotes cell growth.
<http://www.hhmi.org/news/kuriyan20060615.html>
- Researchers find that changing the shape of an NFATc protein can increase bone mass and thereby reverse the effects of osteoporosis.
http://www.hhmi.org/news/winslow_crabtree20060606.html
- Engineering team develops a new material for potential use in vascular grafts.
<http://www.vcu.edu/uns/Releases/2006/june/061406.html>
- Engineers discover corn mold could boost ethanol production by 4%.
<http://www.iastate.edu/~nscentral/news/06/may/mold.shtml>

SBE Highlights

Register at the early bird rate by July 15th to SAVE at SBE's upcoming International Conference on Bioengineering and Nanotechnology (ICBN) on September 5-7 in Santa Barbara, California. This conference could help you learn about nano-biomedical devices, targeted drug delivery, the latest in biocompatible materials, or self-assembled molecules. With plenty of time for group interaction and discussion, join us in Santa Barbara. Register [here](#).

Renowned speakers include:

- **Annelise Barron** of Northwestern
- **Angie Belcher** of MIT
- **Carlos Bustamante** of UC Berkeley
- **Arup Chakraborty** of MIT
- **Morinobu Endo** of Shinshu University
- **Dan Hammer** of University of Pennsylvania
- **Suzi Jarvis** of University of Dublin
- **Jong-Duk Kim** of Korea Advanced Institute of Science and Technology
- **Deborah Leckband** of UC San Diego
- **Carlo Montemagno** of University of Cincinnati
- **Chris Murray** of IBM
- **Erkki Ruoslati** of Burnham Institute
- **Tom Soh** of UC Santa Barbara
- **Joachim Spatz** of Stuttgart MPI and University of Heidelberg
- **Janos Voeroes** of ETH Zurich
- **Karen Wooley** of Washington University
- **Peidong Yang** of UC Berkeley.

To find out more, go to <http://bio.aiche.org/icbn>.

Meetings Update

Abstract submission is now open for SBE's 1st International Conference on Biomolecular Engineering. Scheduled for January 14-18th at the Marriott Hotel in Coronado Island, California (outside of San Diego), this conference promises to bring together experts working in the exciting field of biomolecular engineering. The theme is "Integrating Biological Design Principles, from Molecules to Cells." Topics include engineering functional biomolecules, molecular interactions and intracellular pathways, and systems biology and multiscale integration. Submit your abstract now or learn more at our website www.aiche.org/icbe. If you would like to be kept apprised of the conference, email us at ICBE@aiiche.org.

Geoff Slaff of Amgen and Chuck Goochee of Merck are chairing SBE's 1st Conference on Accelerating Biopharmaceutical Development. Scheduled March 19-22 at the Loews Resort in Coronado Island, California, this conference is perfect for the biological R&D technologist who is challenged to bring new products to production more efficiently and rapidly. The preliminary program is starting to take shape:

- Rapid Cell Line Development and Improved Expression System Development
- High Throughput Process, Analytical and Formulation Development
- Emerging, "Disruptive" Technologies
- Technology Transfer: Case Studies and Business Practices
- Phase-specific Quality Systems and/or Standards, and Phase-specific Analytical Comparability Studies
- Strategies for Production -In-house Production or External Launch/Commercialization Facilities
- Development Organizations and Metrics.

Learn more about this exciting new conference at:
<http://www.aiche.org/acceleratingbio>.

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

Career Central

Check out the many jobs listed on our website. - You can post you position to be filled or look at our extensive listing for academic and industrial positions at companies throughout the U.S. at <http://www.aiche.org/SBE/Careers/Find.aspx>.

Join SBE

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 our 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.

*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>*

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