



May 2010

▼ Biotech News

- Researchers at MIT develop an array of microscopic wells that can capture single cells and analyze the amount of DNA damage in each cell, promising to help identify new drugs and screen out hazardous agents.
<http://web.mit.edu/newsoffice/2010/dna-damage-0504>
- Researchers engineer an RNA-based molecular control switch into immune cells, turning on and off T-cell proliferation, thereby potentially increasing their therapeutic uses in cancer and other diseases.
<http://www.technologyreview.com/biomedicine/25237/?ref=rss&>
- Researchers identify how transfer RNA (tRNA) may have another function in addition to its well-established role in gene expression; in helping control apoptosis, programmed cell death.
<http://www.cell.com/molecular-cell/abstract/S1097-2765%2810%2900074-2>
- Researchers develop "template-directed assembly" (TDA) a new method for assembling teams of signaling proteins outside the cell into receptor-signaling complexes, for the purpose of engineering new compounds and drugs.
<http://www.umass.edu/newsoffice/newsreleases/articles/103777.php>
- Researchers develop an improved method for gassifying biomass into syngas that achieves total conversion into CO (vs. some carbon dioxide), and H₂.
<http://www.technologyreview.com/energy/24838/>



Five (5) Excellent Reasons to Join SBE

- Access to an international professional network
- Free monthly webinars
- Discounts on Conferences, Events and Publications
- Free monthly e-newsletter and biannual CEP Biosupplement
- Career services

▼ Society News

We're back from SBE's **Second International Conference on Stem Cell Engineering** in **Boston**. This was a very exciting and successful event and we would like to thank our chairs: George Daley (Children's Hospital Boston) and Peter Zandstra (University of Toronto) as well as ISSCR and our wonderful speakers, poster presenters, sponsors, exhibitors and all 290 attendees, without your dedication and support this would not have been possible. See you at the Third International Conference in Stem Cell Engineering in 2012!

Register Now! Connect with our experts through our monthly webinars. Join other SBE members in **SBE's May Webinar** on "**Development of Vaccine Candidates using Cell Free Technology**" presented by Professor **Jim Swartz, Stanford University**, on **Thursday, May 27th from 2-3pm EST**. For more info, click [here](#).

Call for Nominations! [SBE's James E. Bailey Award for Biological Engineering](#). In memory of Professor Jay Bailey for his many pioneering contributions to biotechnology, the award is presented to an individual who has had an important impact on biological engineering. Deadline is **June 1st, 2010**.

▼ Conference Updates

Register now! The 5th International Conference on **Bioengineering and Nanotechnology (ICBN)** will take place in Biopolis, Singapore from **August 1-4, 2010**. For more info, click [here](#).

Call for Papers! The 3rd International Conference on **Biomolecular Engineering (ICBE)** will be co-chaired by **Jeff Varner** (Cornell University) and **Kurt Deshayes** (Genentech) and held at the Grand Hyatt San Francisco on **January 16-19, 2011**. For more info, click [here](#).

Global Proteins Summit. Click [here](#) for more information on **SMI's 6th annual Global Proteins Summit, 23rd & 24th June, London UK**. This conference aims to address the latest developments in protein therapeutics and investigate related issues like immunogenicity.

Student Affairs

SBE Representatives attended the Mid-Atlantic Regional Conference hosted by the Johns Hopkins AIChE/SBE chapter. The Conference brought together 260 people from 24 universities to share ideas and network with fellow students. Invite an SBE representative to your next chapter meeting, email us at bio@aiiche.org!

Students from SBE chapters at MIT and Tufts took a joint tour of the Shire Process Development Facility in Boston, MA. Check out the SBE Student Chapter Spotlight for more event ideas! <http://www.aiiche.org/SBE/Students/StudentChapterSpotlight.aspx>

Congratulations to Chris Love at MIT for guessing SBE's April Mystery Protein p53! Take a shot at the May Protein: <http://www.aiiche.org/sbe/education/wpai.aspx>

Interested in starting an SBE Student Chapter at your school?

Contact Jonathan Monk at jonam@aiiche.org.

Comments?

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

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 free for undergraduates. Join now at <http://www.aiiche.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.
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***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 bio@aiiche.org.***

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