



IBS 2012

15th International Biotechnology Symposium and Exhibition

www.ibs2012.org

We are pleased to announce that the 15th International Biotechnology Symposium (IBS) and Exhibition will be held from **September 16th to 21st, 2012 in Daegu, Korea** under the main theme of **"Innovative Biotechnology for Green World and Beyond"**.

We believe that IBS 2012 will provide you with a great opportunity to exchange scientific achievements, experience and visions in every aspect of current biotechnology with world-leading scientists and opinion leaders from all over the world!

Plenary Speakers

Plenary/Invited Speaker



Prof. Aaron Ciechanover

- Technion-Israel Institute of Technology, Israel
- Laureate, the 2004 Nobel Prize in Chemistry

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- Lecture Title : TBA
- Time : TBA



Prof. Stanley N. Cohen

- Genetics and Medicine, Stanford Univ., USA

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• Lecture Title : TBA

• Time : TBA



Prof. Sung Wan Kim

• Pharmaceutics and Pharmaceutical Chemistry and Bioengineering, Univ. of Utah, USA

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• Lecture Title : TBA

• Time : TBA



Prof. Daniel I.C. Wang

• Chemical Engineering, MIT, USA

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Invited Speakers (Incomplete List)

- - **Casimir C. Akoh**, University of Georgia (USA)
- - **Feng Wu Bai**, Dalian Univ. of Technology (China)
- - **Michael Bott**, Institut für Biound Geowissenschaften (Germany)
- - **Milan Certik**, Slovak University of Technology (Slovak Republic)
- - **Heriberto D. Cerutti**, University of Nebraska–Lincoln (USA)
- - **Jin Woo Cheon**, Yonsei University (Korea)
- - **Douglas S. Clark**, University of California Berkeley (USA)
- - **Jonathan S. Dordick**, Rensselaer Polytechnic Institute (USA)
- - **Masao Fukuda**, Nagaoka University of Technology (Japan)
- - **Arthur R. Grossman**, Stanford University (UK)
- - **Man Bock Gu**, Korea University (Korea)
- - **Alois Jungbauer**, University of Natural Resources and Life Sciences (Austria)
- - **Romas Kazlauskas**, University of Minnesota (USA)
- - **Yong-Hwan Kim**, KwangWoon University (Korea)
- - **Akihiko Kondo**, Kobe University (Japan)

- - **Sang Yup Lee**, KAIST (Korea)
- - **ZhangLin Lin**, Tsinghua University (China)
- - **Wei Liu**, Shanghai 9th People's Hospital, Shanghai Jiao Tong University (China)
- - **Yi Lu**, University of Illinois at Urbana-Champaign (USA)
- - **Teruyuki Nagamune**, The University of Tokyo (Japan)
- - **Bernhard Palsson**, UC San Diego (USA)
- - **Ashok Pandey**, National Institute for Interdisciplinary Science and Technology (India)
- - **Kinam Park**, Purdue University (USA)
- - **Robin Rogers**, Alabama State University (USA)
- - **Shiro Saka**, Kyoto University (Japan)
- - **Richard Sayre**, Donald Danforth plant Science Center (USA)
- - **Andreas Schmidt**, Technical University Dortmund (Germany)
- - **Peter Senter**, Seattle Genetics (USA)
- - **Hiroshi Shimizu**, Osaka University (Japan)
- - **Hang-Sik Shin**, KAIST (Korea)
- - **Greg Stephanopoulos**, MIT (USA)
- - **Yasuhiko Tabata**, Kyoto University (Japan)
- - **Jian Xu**, Qingdao Institute of BioEnergy and Bioprocess Technology (China)
- - **Ji-Won Yang**, KAIST (Korea)
- - **Young-Lyeol Yang**, CJ cooperation (Korea)
- - **Jiane Zuo**, Tsinghua University (China)

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The scientific committee of the IBS 2012 is pleased to invite you to submit abstracts for oral/ poster presentations related to, but are not limited to, the following topics;

Section 1 : Agricultural and Food Biotechnology

- Lipid biotechnology
- Carbohydrate biotechnology
- Functional foods and new materials
- Fermented foods and probiotics
- General food biotechnology

Section 3 : Bioenergy & Biorefinery

- Pretreatment of ligno-cellulosic biomass
- Enzymes for bioenergy and biorefinery
- Metabolic engineering for biofuel and biochemicals
- Algal biomass and biofuel
- Biochemicals from renewable resources
- Synthetic biology for metabolic engineer

Section 5 : Environmental Biotechnology

- Microbial Ecology and Processing
- Environmental Bioprocessing
- Environmental Biotechnology for Industrial Sustainability
- Environmental microbiology

Section 2 : Applied Microbiology

- Corynebacterium glutamicum biotechnology
- Extremophiles and its application
- Microbial natural products
- Quorum-sensing and/or biofilm
- Biomolecular and metabolic engineering
- Biocatalyst and biotransformation

Section 4 : Biosensors and Nanobiotechnology

- Nanobiosensors and nanoanalytical systems
- Enzyme-based biosensors
- Nucleic acid sensors
- Cell / organism-based biosensors
- Protein chips
- Lab-on-a-chip and microfluidics
- Nano-theranostics
- Nanobio imaging

Section 6 : Medical Biotechnology

- Biomedical imaging
- Regenerative medicine
- Biomedical device
- Biomaterials
- Molecular diagnosis and therapeutics
- Stem cell

Section 7 : Pharmaceutical Biotechnology

- Biologics (Biopharmaceuticals)
- Drug delivery
- Drug design and discovery
- Drug metabolism
- Industrial pharmacy
- Omics and bioinformatics
- Pharmacology
- Pharmaceutical regulatory sciences

Section 8 : Process Biotechnology

- Microbial fermentation
- Animal and plant cell culture
- Enzyme and bioconversion process
- Bioseparation and purification
- Engineering perspectives in bioprocess
- Process biotechnology
- Pharmacology
- Pharmaceutical regulatory sciences

Online abstract submission will start early in December, 2011 via the IBS 2012 website at www.ibs2012.org.

Submitted abstracts will be reviewed by referees assigned by the scientific committee. The city of Daegu & Gyeongsanbuk-do province is the center of traditional Korean culture with over a thousand years of history. Located at the center of the three kingdom of Korea, Daegu-Gyeongbuk possesses a rich history and an abundance of cultural heritage sites. With the fine transportation network linked in all directions, it is a point leading to numerous cultural heritage and tourist attractions representative of Korean culture.