



2011 ANNUAL CONFERENCE

**Institute of
Biological
Engineering**

Welcome

Leadership & Partnership Recognition



2011 ANNUAL CONFERENCE

National Science Foundation (NSF)

2011 Travel Award Grant Recipients



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NSF Travel Award Recipients

- Hua Bai
- Jonathan Claussen
- Rajan Gangadharan
- Felipe Lee Montiel & Hyuck Jim Kwon
- Marquita Lilly
- Lauren Matlock-Colangelo
- Kyungho Kang
- Jaouad Mamouni

IBE Awards & Competitions

Annual

Bioethics Essay Competition

Poster Competition

Journal of Biological Engineering Awards

Presidential Citations



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IBE Awards & Competitions

Other

Leadership Award*

Student Leadership Award

Fellows

Brahm and Sudha Verma Lifetime Visionary Award



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Bioethics Essay Competition

Competition Winners



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Honorable Mention

Mian M. B. Khalid

University of Maryland

“Biological Engineering: Looking Beyond
the Boundaries”

Honorable Mention

Yasmin Kadry

University of Maryland

“The Application of the “Reductionist Approach” to Solve Societal Health Problems and Develop New Health Technologies”

Third Place

Spencer Sokoloski

University of Maryland

“The Ethics of Biological Engineering:
Community versus the Individual”

Second Place

Allison Mettler

University of Nebraska

“Solving Community Problems – A Polio
Case Study”

First Place

Sam Sun

Olin College of Engineering

“The Importance of National Funding for
Society-Level Bioengineering
Solutions”

Poster Competition

Undergraduate Award Winners



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Judges & Reviewers

Chair – Prem Parajuli

Eric McLamore

Ryan Senger

Choul-Gyun Lee

Woo-Seok Choe

Soonjo Kwon

Joel Paz

Tom Richard

Ramaraja Ramasamy

Liju Yang

Ron Sims

Oladrian Fasina

Yu Lei

Sabrina Jedlicka

Fei Yu

Kaustubh Bhalerao

Jixun Zhan

Charles Miller

*Reviewers – Jerry Gilbert, Sabrina Jedlicka
& Liju Yang*

Undergraduate - Third Place

Liyang Tang, Dr. Yulan Xiong,
Dr. Ted Dawson

**Suggested Neurotoxicity for
LRRK2 GCK Domains in HEK 293T Cells**

Johns Hopkins University

Undergraduate - Second Place

Effects of biomechanical
microenvironments on breast cancer

**Aaron Winder, Timothy Doyle,
Soonjo Kwon**

Utah State University

Undergraduate - First Place

Tyler Pyle, K.D.L. Millar, P. Kumar,
J.Z. Kiss, F. Souret, M.J. Correll

**The Spaceflight Environment Induces
Differential Gene Expression Including C
ell-Wall-Related Genes of Arabidopsis
Thaliana**

Miami University, Ohio &
University of Florida

Undergraduate – Grand Prize Sponsored by KSBB

Nhean Chea, Kalie S. McCulloch, James
A. Powell, Ronald C. Sims

Daphnia Impact on Logan Wastewater Lagoons

Utah State University



Poster Competition

Graduate Award Winners



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Graduate - Third Place

Matthew Stensberg, Eric McLamore,
Gowri Yale, Marisol Sepulveda,
D. Marshall Porterfield

Comparing the physiological effects of ionic silver and nanosilver on *Daphnia magna* embryos

Purdue University &
University of Florida-Gainesville

Graduate - Second Place

Jonathan Claussen, James Hengenius,
David B. Jaroch, Amani Salim, Jin Shi,
Anurag Kumar, Mohammad H. Khawaja,
Allison B. Hibbard, Monique M. Wickner

**Controlling the performance of electrochemical biosensors through nanomaterials:
Simulation and Experiment**

Purdue University

Graduate - First Place

Lauren Matlock-Colangelo, Daehwan Cho,
Peter Asiello, Chunhui Xiang,
Margaret Frey, Antje Baeumner

Investigation of Functional Electrospun Bionanofibers in Microfluidic Channels

Cornell University

Graduate – Grand Prize Sponsored by KSBB

Jin Shi, Eric S. McLamore, David Jaroch,
Jonathan C. Claussen, Jenna L. Rickus,
D. Marshall Porterfield

**Oscillatory glucose flux in INS 1
pancreatic \hat{I}^2 cells: A self-referencing
microbiosensor study**

Purdue University & University of Florida



Journal of Biological Engineering



Editor-in-Chief: Mark Eiteman, University of Georgia





JOURNAL OF BIOLOGICAL
ENGINEERING

Editor-in-Chief

Mark A. Eiteman (University of Georgia)

Journal of Biological Engineering is an open access, peer-reviewed online journal that encompasses all aspects biological engineering.

The journal welcomes manuscripts on the following topics:

- synthetic biology and cellular design
- engineering of biomolecular and cellular devices
- bioproduction and bioproduct engineering
- ecological and environmental engineering
- biological engineering education and the biodesign process

Journal of Biological Engineering is the official journal of the Institute of Biological Engineering.



Most Accessed Publication of 2010 ***Journal of Biological Engineering***

On behalf of the editors of *Journal of Biological Engineering*, we recognize the contribution of the following authors for the most accessed publication of the year.

“Insulation of a synthetic hydrogen metabolism circuit in bacteria”

**Christina M. Agapakis, Daniel C. Ducat, Patrick M. Boyle,
Edwin H. Wintermute, Jeffrey C. Way, Pamela A. Silver**

Journal of Biological Engineering 2010, 4:3 (25 February 2010)

6120 accesses

The Institute of Biological Engineering

Mark A. Eiteman, Editor-in-Chief



Presidential Citations



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Presidential Citations

Kaustubh Bhalerao*

Patrick Cirino

Majed Dweik*

Drew Endy

Mark Eiteman*

Jerry Gilbert*

Praveen Kolar*

Natalie Kuldell

Sarah Laskey

Prem Parajuli*

Brahm Verma*

Liju Yang*

Roy Young*

Guigen Zhang*

Presidential Citations



Thank you for your leadership and determination as 2010 President

Leadership Award

To encourage, recognize and reward leadership in the field of biological engineering.



2011 ANNUAL CONFERENCE

Leadership Award

Mark R Riley
University of Arizona

Recognized for:

Advancing IBE mission
Contributing to the Creation of JBE
Negotiating JBE Publisher
Serving as Founding JBE Editor-in-Chief
Academic Leadership
Recognized and Cited Research

MA
PR
TECH
T
C
I
B

Thank you



Save the Date
2012 Annual Conference - March 1-3, 2012
Westin Indianapolis
Indianapolis, IN