

# Metabolic Engineering IX: Metabolic Engineering and Synthetic Biology

## Student/Young Investigator Poster Awards

### Topical Area: Metabolic Engineering for Fuels

**Sponsor:** Engineering Conferences International (ECI)  
**Winner:** **Dominic Pinel**, Concordia University, Canada  
**Title:** “Sequencing of a genome shuffled *S. cerevisiae* strain to generate inverse engineering targets for lignocellulosic substrate inhibitor tolerance”

### Topical Area: Metabolic Engineering for Chemicals and Materials

**Sponsor:** Metabolic Engineering Journal  
**Winner:** **Solvej Siedler**, Forschungszentrum Jülich GmbH  
**Title:** “Improved product-per-glucose yield in a reductive whole-cell biotransformation with *Escherichia coli*”

### Topical Area: Emerging Tools and Methods in Metabolic Engineering

**Sponsor:** Bioprocess & Biosystems Engineering and ECI  
**Winner:** **Stefan M. Gaida**, University of Delaware  
**Title:** “Engineering the transcription machinery of *E. coli* to enable efficient functional screening of heterologous or metagenomic libraries”

### Topical Area: System Biology and Metabolic Engineering

**Sponsor:** Biotechnology Journal and ECI  
**Winner:** **Satoshi Ohno**, Osaka University  
**Title:** “FastPros: Screening method of multiple gene knockout for microbial production using genome-scale metabolic model”

### Topical Area: Synthetic Biology and Metabolic Engineering

**Sponsor:** ACS Synthetic Biology Journal  
**Winner:** **Han Min Woo**, Joint BioEnergy Institute, Lawrence Berkeley National Laboratory / Korea Institute of Science and Technology  
**Title:** “Quorum sensing-based IPTG-free system for production of bisabolene as a precursor of advanced biofuels in engineered *E. coli*”

### Topical Area: Metabolic Engineering of Industrial Microorganisms

**Sponsor:** Journal of Industrial Microbiology and Biotechnology  
**Winner:** **Borim Kim**, Sogang University  
**Title:** “Development of recombinant *Klebsiella pneumoniae* for the enhanced 2,3-butanediol production”

### Top Overall Poster Award

**Sponsor:** Metabolic Engineering Journal  
**Winner:** **Amanda Lanza**, University of Texas at Austin  
**Title:** “A quantitative, graded dominant mutant approach for probing protein function and gene regulation”