
Zhao Cheng

Synthetic & Systems Biology Innovation Hub (SSBiH),

Department of Plant Pathology & Microbiology, Texas A&M University

R151, Norman E. Borlaug Center, TAMU 2123, College Station, TX, USA 77843

Email: zhaochengtamu@gmail.com, zhaochengcause@tamu.edu; Tel: +1-979-587-4666

Education

Texas A&M University August 2013-now

PhD student, Department of Plant Pathology & Microbiology

Advisor: Dr. Joshua Yuan

Wuhan University September 2009 – June 2013

Bachelor of Science, College of Life Sciences

Research experiences

Dr. Joshua Yuan's lab, Texas A&M University August 2013-now

Topic: Terpene production in photosynthetic system; lignin degradation and conversion via enzyme-bacterium system.

Dr. Ling Zheng's lab, Wuhan University October 2011 – February 2013

Topic: Influence of a newly found peptide on diabetes and diabetic nephropathy and its mechanism.

International Genetically Engineered Machine (iGEM) competition, Wuhan University October 2012 - November 2012

Topic: Engineering intestinal bacteria to control obesity.

Peer-reviewed Publications

Zhao C, Xie S, Pu Y, et al. Synergistic Enzymatic and Microbial Conversion of Lignin for Lipid. *Green Chemistry*, 2015, 18(5):1306-1312.

Zhao C, Kim YK, et al. Co-compartmentalization of terpene synthesis and storage via synthetic organelle. 2017, Submitted to *Nature Plant*

Ma H, Kim YK, Takahashi E, Xin C, **Zhao C**, et al. Rewiring Photosynthesis for Terpene Production. 2017, Submitted to *Plant Biotechnology Journal* (in review)

Conference Publications

Zhao C, Wang X, Ma H, Kim YK, Huang K, Dai SY, Yuan JS. Enhancing Terpene Yield by Synthetic Organelle to Compartment Storage with Biosynthesis. "Plant Metabolic Engineering" Gordon Research Conference. July 19-24, 2015, Waterville Valley, NH, USA.

Ma H, **Zhao C**, Xin C, Kim YK, Takahashi E, Goklany S, Yu Wang, Liu Y, Dai SY, Ort D, Chappell J, Zhu X, Yuan JS. Synthetic pathway design for photosynthetic production of Terpenoid hydrocarbon biofuels and bioproducts in tobacco. "Photosynthesis" Gordon Research Conference, August 10-15, 2014, West Dover, VT, USA.

Wang X, **Zhao C**, Xie S, Zhang Y, Huang K, Dai SY, Yuan JS. Evaluating terpene production as a 'non-native' photosynthate sink in cyanobacteria. "Photosynthesis" Gordon Research Conference, August 10-15, 2014, West Dover, VT, USA.

Honors and Awards

| | |
|---|------------|
| The silver medal of iGEM (The International Genetically Engineered Machine Competition) | 2012 |
| The Second Prize scholarship for Excellent student | 2010、 2012 |
| The Third Prize scholarship for Excellent student | 2011 |
| Merit Student | 2010、 2012 |