

SynCTI Seminar

Gazi Sakir

Research Fellow



DATE : Thursday, 09 February 2017

TIME : 4 pm

LOCATION : CeLS Auditorium

TOPIC:

Microbial production of α -Keto acids and 2,5-Furandicarboxylic acid through enzyme evolution, transporter engineering and metabolic pathway engineering.

Gazi received BSc and MSc degree in Biochemistry and Molecular Biology from Dhaka University, Bangladesh and a PhD degree in Genetic Engineering and Biotechnology from the Meijo University, Japan, in 2006. My doctoral dissertation research was focused on elucidating the salt stress tolerance mechanism in cyanobacteria and plant. After completing my PhD, I established a research group as a head scientist in a private group of company (Apex Holdings Limited, Bangladesh) to produce different types of commercially important enzymes and probiotics (such as, cellulase, amylase, protease, and isomaltooligosaccharide) through isolation, characterization and classical mutagenesis of different types of native microbes. After that, I joined in a Bioprocess and Biosystem Engineering Laboratory at Jiangnan University, China, in 2012. As a postdoctoral research fellow, my work was focused on the microbial production of α -Keto acids and 2,5-Furandicarboxylic acid through enzyme evolution, transporter engineering and metabolic pathway engineering. The results of my works have published in the different international journals such as PLoS One Journal, Applied and Environmental Microbiology Journal, Applied Microbiology and Biotechnology Journal, Journal of Biotechnology, Plant Biotechnology journal, RSC Advances Journal and Journal of Biological Chemistry. In addition, I have two patents on the α -Ketoglutarate production process. I also developed "Fermentation Engineering" course and served as a course teacher for the foreign graduate students at Jiangnan University, from 2012 to 2016. Recently, I have joined as a Research Fellow in the Department of Biochemistry at National University of Singapore.