



Osaka
University
Humanware
Innovation
Program



Graduate School of
Information Science and Technology
OSAKA UNIVERSITY

Humanware Innovation Program

Seminar on Metabolic Engineering

Date : July 1st, 2016

Time : 3PM - 5PM

**Place : Room B101, Building B of Graduate School of
Information Science and Technology, Osaka University**

The metabolic engineering has rapidly emerged as an important and multi-disciplinary area whose effects range is expanded to the bio-productions of chemicals and fuels, foods, pharmaceuticals, and applications to environment and medicine filed. Biologists, chemists, computer scientists and engineers discuss the ways in which their disciplines can collaborate to find novel solutions to fundamental, applied and industrial problems. We are pleased to announce seminar on Metabolic Engineering with two professors, Gregory Stephanopoulos (MIT) and Maciek R. Antoniewicz, (University of Delaware) be held on July 1st. We are pleased to welcome all of you to attend the seminar at Osaka University.

The vision of a sustainable bioeconomy in an era of \$50 oil



Professor Gregory Stephanopoulos

Dept of Chemical Engineering, MIT
President of American Institute of Chemical Engineering
Pioneer of the Metabolic Engineering

Toward a holistic understanding of cellular metabolism through integrated ¹³C flux analysis

Professor Maciek R. Antoniewicz

Dept of Chemical Engineering, University of Delaware



Registration not required. Anyone can join.

【Contact】

Humanware Innovation Program, administrative office
MAIL: info@humanware.osaka-u.ac.jp TEL :06-6879-4349