

# Agro-Environment Control and Renewable Energy laboratory

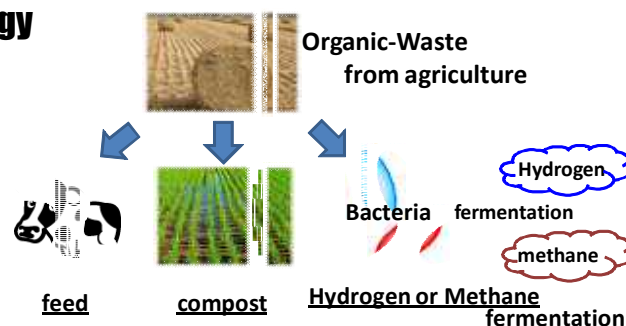
<http://www.tuat.ac.jp/~seigyo/>



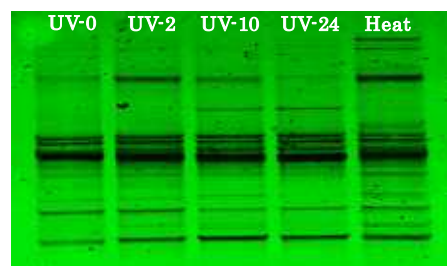
## Production and Management of Renewable Energy

Global environmental concerns according to the use of the fossil resource was actualized in various points also in agriculture and increased seriously. It is time to have another look against the way of 20th century, mass production, mass consumption and mass disposal. More efficient energy consumption need be are required. Environmental impact have to be decreased through the all stages in farming and pre/post processing. The biological waste need to be recycled. And it will be the new source of the energy in future. Our research focuses on the recycles the domestic animal excrement and the food processing residue, etc. to collects energy. Low carbonization technologies such as bio-energy manufacturing are our target.

Related Topics; Hydrogen Fermentation, Gene Analysis for Efficient Fermentation, Soil Deodorizer, Bio-ethanol by Sunflower, Bio-energy Production System in Rural Area



Background of the Hydrogen and Methane Fermentation



Gene Analysis for Efficient Fermentation



Sunflower for Bio-energy



Monitoring of Blueberry's Health Condition

## Measurement and control for Agro-Products

The application of ICT (Information and Communication Technology) to biological engineering is an undeveloped science area although the fundamental devices have been already common in our life. It is difficult to treat actual situations of living matter, environment and agriculture as a engineering target. These are usually unstable and breakable. The unique system have to be developed for each target.

At the study of ICT is never our goal. Our research also focuses on the control of these target using ICT to realize sustainable production and consumption system.

Related Topics; Post Harvesting Technology for Aromatic Rice, Advanced Paddy Seeding for Northeast Asia, Management of Bluberry Campus Factory, Site-specific or Individual Plant Management

contact to;



Prof. Seishu TOJO  
tojo@cc.tuat.ac.jp

Dr. Tadashi CHOSA  
chosa@cc.tuat.ac.jp

