



Biotechnologies for efficient and improved production of food crops and bioenergy

SESSION 2:

MICROBIOLOGY FOR BIOTECHNOLOGICAL APPLICATION

Chair: Tsai Siu Mui

Luiz de Queiroz College of Agriculture
Center for Nuclear Energy in Agriculture
University of São Paulo (USP)



<p>Hiroko Kawasaki National Institute of Technology and Evaluation</p>	<p>Role of International Standardized Microbial Resource Center (Microbial Biobank) to promote research and development using microorganisms</p>
<p>Chiaki Ogino Kobe University</p>	<p>Contribution of agricultural crop's waste material for bio-economy</p>
<p>Tsai Siu Mui University of São Paulo</p>	<p>New strategies to harness the potential of Amazonian Dark Earth microbiomes</p>
<p>Discussion</p>	



Dr. Hiroko Kawasaki

National Institute of Technology and Evaluation (NITE)

Yeast section leader in NITE Biological Resource Center (NBRC)

Research: Yeast taxonomy and diversity

Molecular phylogenetic studies (yeast taxonomy)

Phototrophy, culture collection and evolutionary studies of N₂-fixing bacteria



Dr. Chiaki Ogino

Kobe University

Shindai – Department of Chemical Science and Engineering

Biodiesel

**Applied
Microbiology**

**Microbial
Biotechnology**

**Surface
Characterization**

**Biodiesel
Production**

**Biomass
Conversion**

**Ethanol
Characterization**

**Trans-
esterification**

**Fermentation
Biotechnology**

**Atomic Force
Microscopy**



Dr. Tsai Siu Mui

University of São Paulo



Center for Nuclear Energy in Agriculture
Luiz de Queiroz College of Agriculture
Cell and Molecular Biology Laboratory

Applied
Microbiology

Ecogenomics

Plant-Microbe
Interactions

Symbioses

Biogeochemical
processes

Rhizosphere
Ecology

Soil
Microbiology

Environmental
Stresses

Biodegradation

Laser Microscopy
Dissection