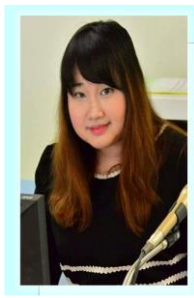
# Applied Microbiology: environmental microbiology

**รศ.ดร.ศิริพรรณ สารินทร์**

**ดร.สงกรานต์ เชื้อครุฑ**

**ดร. ศิริวัฒน์ คูเจริญไพบูลย์**



**ดร. รัมภา จุฑะกนก**

# Research Area

รศ.ดร.ศิริพรรณ สารินทร์ (Assoc.Prof.Dr.Siripun Sarin)

- **Applied Microbiology**
  - Application of plant growth regulators produced by Pink Pigmented Facultative Methylotrophs (PPFMs) in plant tissue culture

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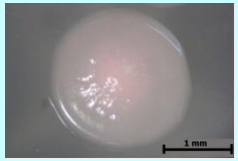
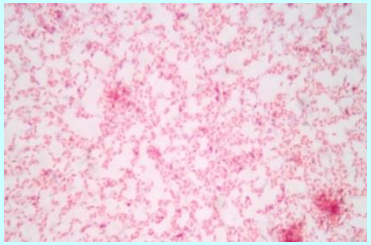
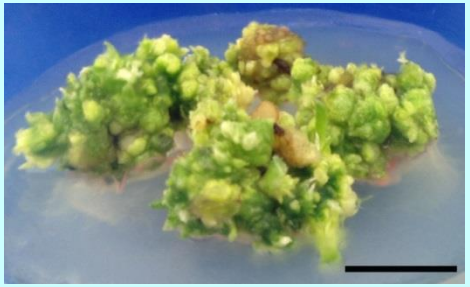


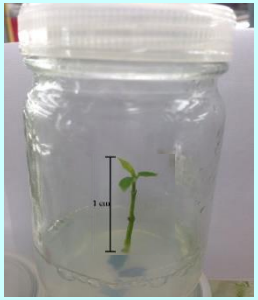


***Methylobacterium radiotolerans***



***Murdannia loriformis* (Hassk.) R. Rao and Kammathy**

***Rauvolfia* serpentina (L.) Benth. ex Kurz**



***Gymnema inodorum* (*Lour.*) Decne.)**

# Research Area

## ดร. สงกรานต์ เชื้อครุฑ (Songkran Chuakrut, Ph.D.)

## Agricultural and Environmental Biotechnology

- Treatment and utilization of agro-industrial wastes
- Production of bioactive substances by photosynthetic bacteria (SCP, pigments, vitamins, CoQ10, enzymes)
- Diversity of photosynthetic bacteria and cyanobacteria in rice paddy fields and their applications


**Contact info:**

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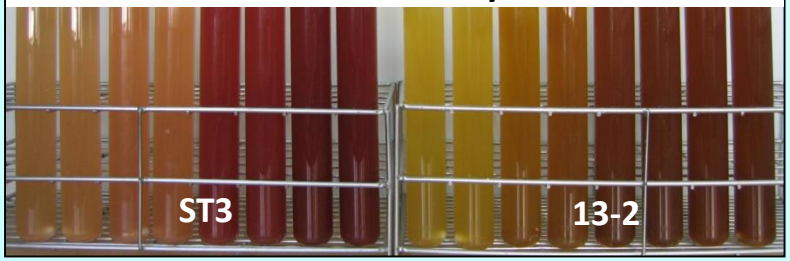
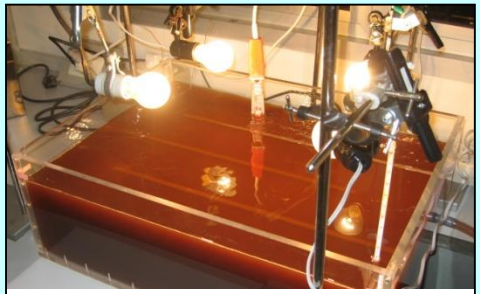
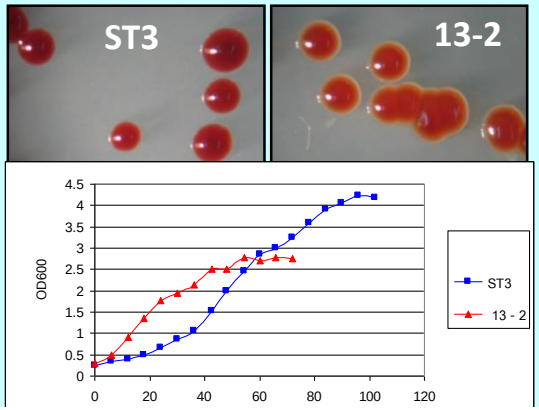
**Growth of the isolate ST3 and 13-2 under 5-30% inocula in non-sterilized yeast wastewater**

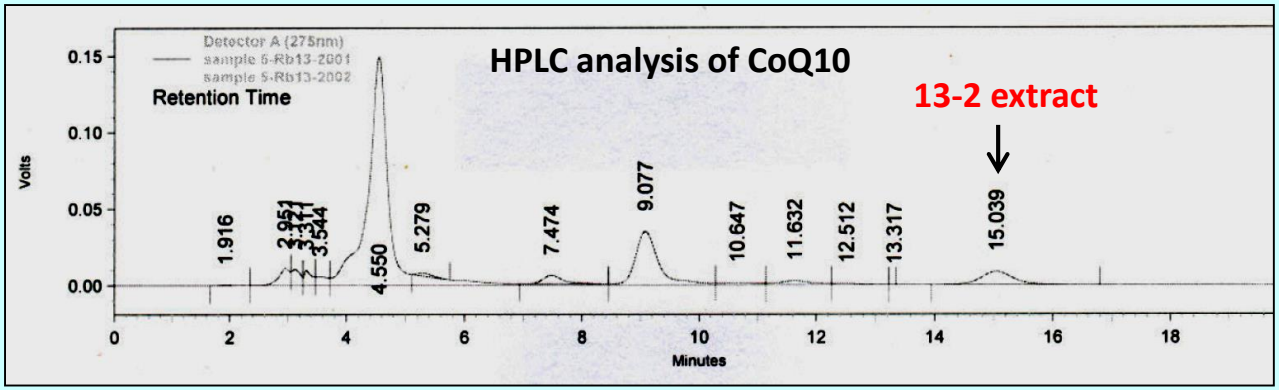


**Outdoor culture of ST3**




**Growth of ST3 and 13-2 in sterilized yeast wastewater**



# Research Area

## ดร.ศิริวัฒน์ คูเจริญไพบูลย์ (Dr. Siriwat Kucharoenphaibul)

- **Microalgal Technology and Wastewater Treatment**
- **Biodiesel Production from Microalgae**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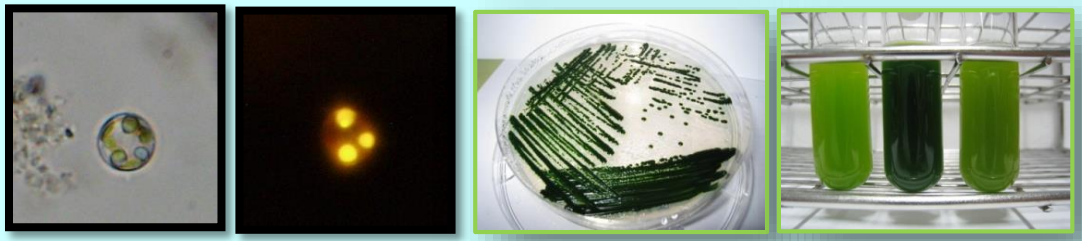
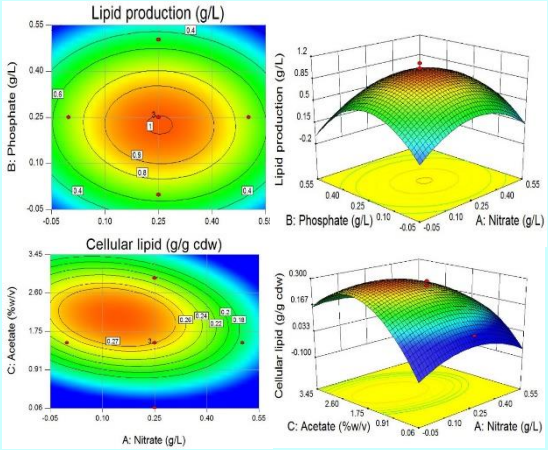
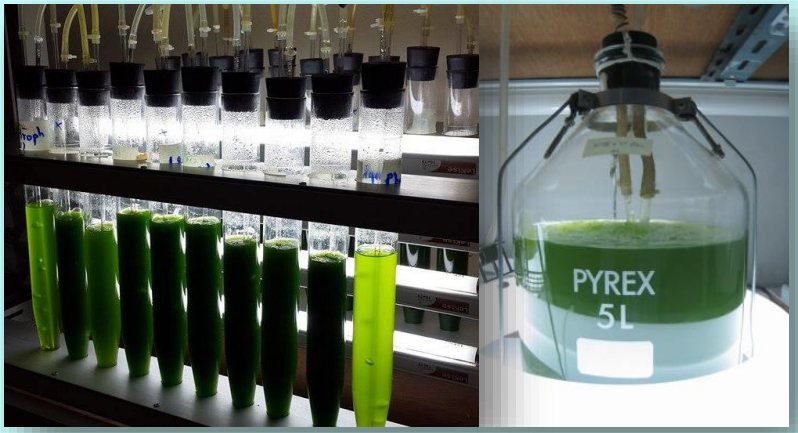


Screening

Wastewater treatment




Response surface Methodology




Cultivation

# Research Area

## ดร. รัมภา จุฑะกนก (Rumpa Jutakanoke, Ph.D.)

- Screening and Identification of Microorganism and Its Applications
- Probiotics for Animal Feed
- Yeast Taxonomy
- Lignocellullose and Waste Utilization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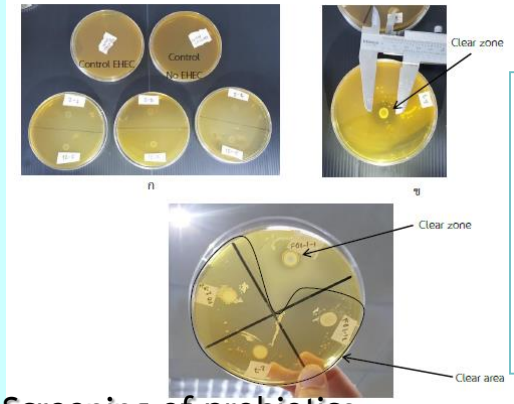
**Ethanol Production from Sugarcane Leaves by *Kluyveromyces marxianus* S1.17, a Genome-Shuffling Mediated Transformant**

Rumpa Jutakanoke,[a,b] Vasana Tolieng,[c] Somboon Tanasupawat,[d] and Ancharida Akaracharanya [a,*]

Invasive plants

*Gomphrena celosioides* Mart.




Screening of probiotics

INTERNATIONAL JOURNAL OF SYSTEMATIC AND EVOLUTIONARY MICROBIOLOGY

NOTE

Jutakanoke *et al.*, *Int J Syst Evol Microbiol* 2017;67:250–255

DOI 10.1099/ijsem.0.001607

MICROBIOLOGY SOCIETY

*Allodekkera sacchari* gen. nov., sp. nov., a yeast species in the Saccharomycetales isolated from a sugar factory

Rumpa Jutakanoke,[1,2]† Rikiya Endoh,[3,*]† Masako Takashima,[3] Moriya Ohkuma,[3] Somboon Tanasupawat[4] and Ancharida Akaracharanya[1,*]

*Macroptilium lathyroides* (L.) Urb.

# Medical Entomology

ผศ.ดร.รักษิณา พลสีลา

รศ.ดร.ดำรงพันธุ์ ทองวัฒน์

ผศ.ดร.นพวรรณ บุญชู