TISTR organization

Divided into 4 groups

1) Research and Development for Bio-industries Group

2) Research and Development for Sustainable Development Group

3) Industrial Services Group

4) Administration Group
Research and development for Bio-industries group

1) Food Technology Department
2) Pharmaceutical and Natural Products Department
3) Bioscience Department
4) Agriculture Technology Department
5) Thailand Packaging Center

“TISTR Culture collection” or “Bangkok MIRCEN”
Timeline

1976 Establishment of Bangkok MIRCEN

1981 Affiliation with World Federation of Culture Collection (WFCC) : number 383

Asian Network of Microbial Research 1985

MOU with WDCM
MOU with KCTC

2000 Obtainment of ISO 9001 Certification

2013 MOU with TBRC

2014

TISTR Culture Collection
Activities

1. Culture collection
2. Research
3. Other services

TISTR Culture Collection
1 : Culture Collection

- TISTR Culture Collection collected more than 6,500 strains (bacteria, yeast, fungi and microalgae). 230 genera 950 species

- Long-term preservation of microorganisms.

- Training on preservation methods.
Service cultures

Under investigation 2,500 strains
Distribution of cultures

- Universities: 66%
- Private company: 17%
- Government agencies: 11%
- Schools: 4%
- International Institutes: 2%

% in 2016
Distribution of cultures

- Yeast: 13%
- Fungi: 12%
- Microalgae: 5%
- Bacteria: 70%
2 : Research

- Prebiotics and probiotics
- Product from Yeast
- Gliding bacteria
- 2\textsuperscript{nd} metabolite substances from microbial strains
- Biofuel+high value product from microalgae
Human probiotics
Probiotics for livestock
The 2\textsuperscript{nd} Asian Fermented Foods on Probiotic: The potential ingredients for health products
27-28 August 2015
Food Ingredients Asia 2017 (Fi Asia)
13-15 September 2017
at Bangkok Thailand
Secondary metabolites from gliding bacteria
Flavobacterium tistrianum sp. nov., a gliding bacterium isolated from soil at Sakaerat Biosphere Reserve, Thailand

Chatrudee Suwannachart, Kanjana Rueangyotchantha, Suksan Srichuay, Sophea Pheng, Bundit Fungsin, Chantara Phoonsiri and Song-Gun Kim

1 TISTR Culture Collection, Thailand Institute of Scientific and Technological Research (TISTR), 35 M 3, Technopolis, Khlong Ha, Khlong Luang, Pathum Thani 12120, Thailand

2 Microbial Resource Center/Korean Collection for Type Cultures (KCTC), Research Institute of Bioscience and Biotechnology, Yuseong, Daejeon 305-343, Republic of Korea

Corresponding Authors
Chatrudee Suwannachart Tel: +662 577 9028, Fax: +662 577 9031, E-mail: chatrudee@tistr.or.th
Song-Gun Kim, Tel: +82-42-860-4627, Fax: +82-42-860-4625, E-mail: sgkim@kribb.re.kr
Biofuel + high value product from microalgae
Signing ceremony between TISTR and Siam Nostoc & Microalgae Co., Ltd. “Exclusively technology transfer on production of Mook Yok” 2nd phase is under negotiation
3. Other services

- Identification
- Analysis of Microbiological Quality
- Anti-Microbial Assay
- Monitoring of Internal Air Quality
Database management

The TISTR Culture Collection is the main culture collection in Thailand. It was established in 1976 with the aim of establishing a holding center for agriculturally and industrially useful microbial strains. Since then, the Collection has been devoted to collection, preservation, and distribution of microorganisms. In the year 2000, the quality management system of TISTR culture collection services such as culture supply, preservation, and deposition of microbial cultures have been conformed to the requirement of the quality standard ISO 9001:2008.
The TISTR Culture Collection at the Bangkok MIRCEN is the main service collection in Thailand. It was created with UNESCO/UNEP support in 1976 with the aim of establishing a holding center for agriculturally and industrially useful microbial strains. Since then, the Collection has been devoted to collection, preservation, and distribution of microorganisms. In the year 2000, the quality management system of TISTR culture collection services such as culture supply, preservation and deposition of microbial cultures have been conformed to the requirement of the quality standards ISO 9001 (ISO 9001:2008).
Future plans

- Expertise of TISTR staffs (Taxonomy)
- ISO 17025 for Lab services
- More collaboration with Asian Economic community (AEC) countries and others on research and training
TISTR culture collection colleagues
Thailand Institute of Scientific and Technological Research (TISTR)
Thank you for your attention