

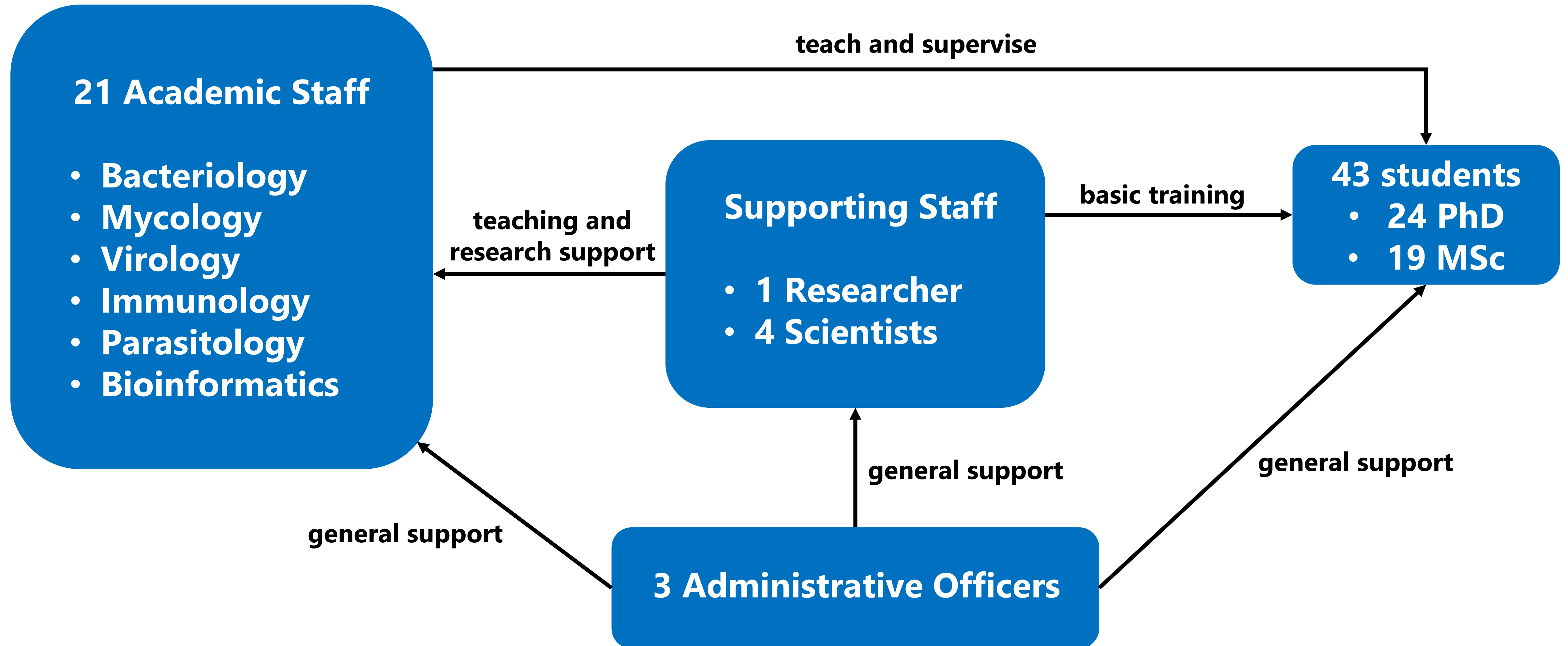


Department of Microbiology

Faculty of Science, Mahidol University



Department Members





Program Offered by Department

- **Master of Science in Microbiology and Immunology (International Program)**
- **Doctor of Philosophy in Microbiology and Immunology (International Program)**



- **Both programs have been initiated for more than 50 years**
- **Produced more than 400 graduates**
- **Joined and visited by students from many countries**
- **Alumni**
 - ✓ **Top university**
 - ✓ **Famous institute**
 - ✓ **Private company**



AUN-QA

AUN-QA assessment on 27, 30 Sep 2019





Highlighted Research Topics

Research from basic to advance

- **Tuberculosis**
- **Influenza virus**
- **Dengue virus**
- **Malaria**
- **Foodborne bacteria**



Department Research Center

BIOTEC-MU Tuberculosis Research Lab

BIOTEC
a member of NSTDA
National Center for Genetic Engineering and Biotechnology

Tuberculosis Research Laboratory
Medical Molecular Biology Research Unit

MAIN MENU

- ABOUT US
- MISSION & VISION
- RESEARCH & DEVELOPMENT
- RESEARCH OUTPUT
- COLLABORATION
- HIGHLIGHT
- STAFF
- CONTACT US

NETWORK LINKS

- Medical Molecular Biology Research Unit
- Protein-Ligand Engineering and Molecular Biology Laboratory
- Tuberculosis Research Laboratory

You are here: Home > Collaboration

COLLABORATION

COLLABORATION WITH LOCAL AND INTERNATIONAL

1. Department of Microbiology, Faculty of Science, Mahidol University, Thailand
2. Department of Microbiology, Faculty of Medicine Siriraj Hospital, Mahidol University, Thailand
3. Department of Pathology, Faculty of Medicine at Ramathibodi Hospital, Mahidol University, Thailand.
4. Department of Applied Biology, Faculty of Science, King Mongkut's Institute of Technology Ladkrabang, Thailand.
5. Tuberculosis Division, Department of Disease Control, Ministry of Public Health, Thailand
6. National Institute of Health, Ministry of Public Health, Thailand
7. Institute of Tuberculosis Research, University of Illinois, Chicago, USA.
8. Research Institute of Tuberculosis, Japan Antituberculosis Association, Japan

BY NC SA

HORNBILL PROJECT THAILAND

THAILAND HORNBILL PROJECT

หน้าหลัก
เกี่ยวกับ
รูปภาพ
วิดีโอ

ถูกใจแล้ว
กำลังติดตาม
แชร์
...

ส่งข้อความ

ชุมชน
10,135 คนถูกใจสิ่งนี้
ดูทั้งหมด

CURRENT PROJECTS
Hornbill Research Foundation

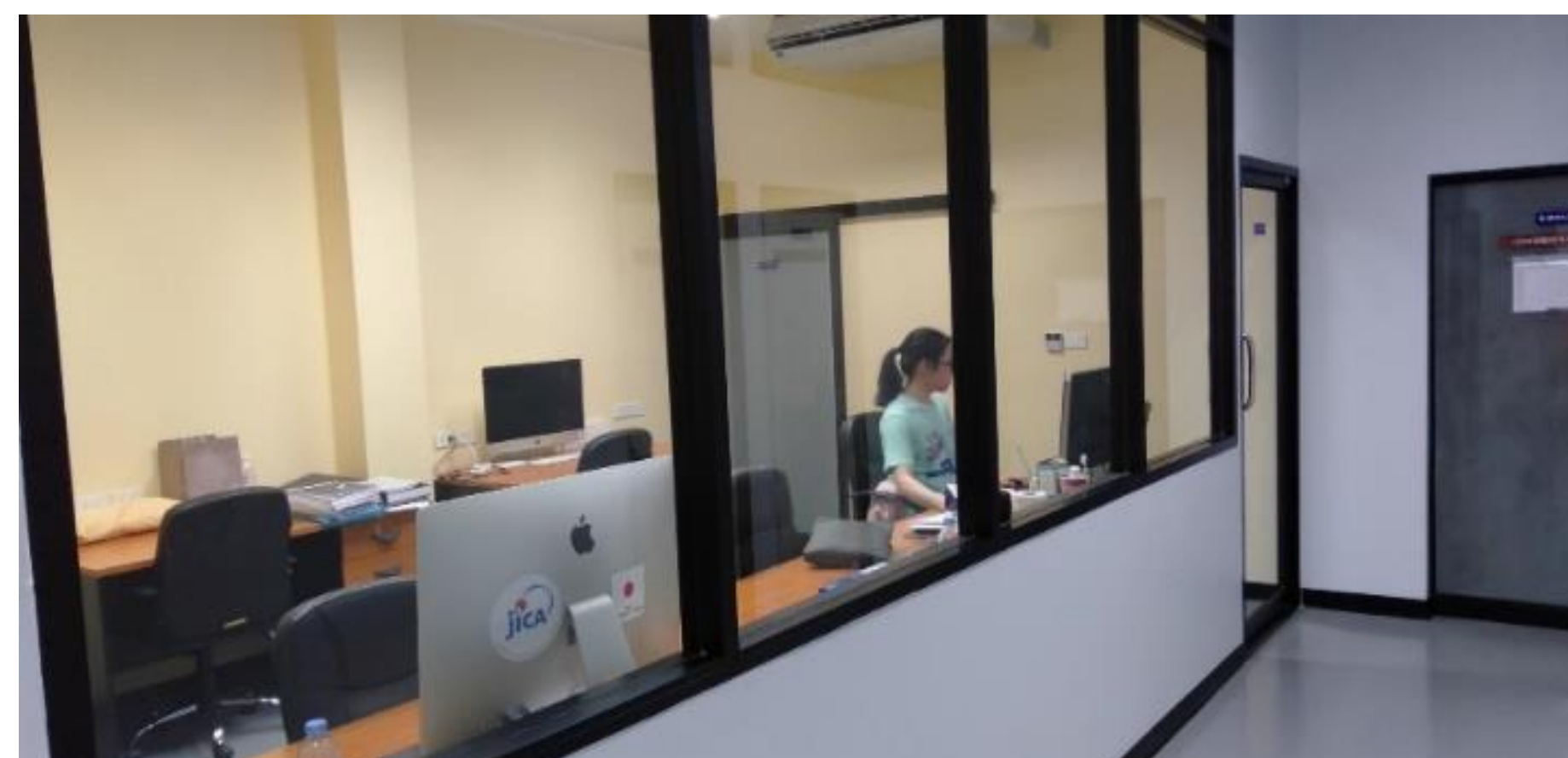
Mission: To continue and expand further research initiatives into hornbills and related topics, increase awareness of forests and the wildlife within them, encourage the study of natural ecosystems among scientists, researchers, students and school children, and set up a centre for the exchange of information and training in research into hornbills at both national and international levels.

Hornbill Ecology Research Center



Department Research Center

CENMIG (Center for Microbial Genomic)

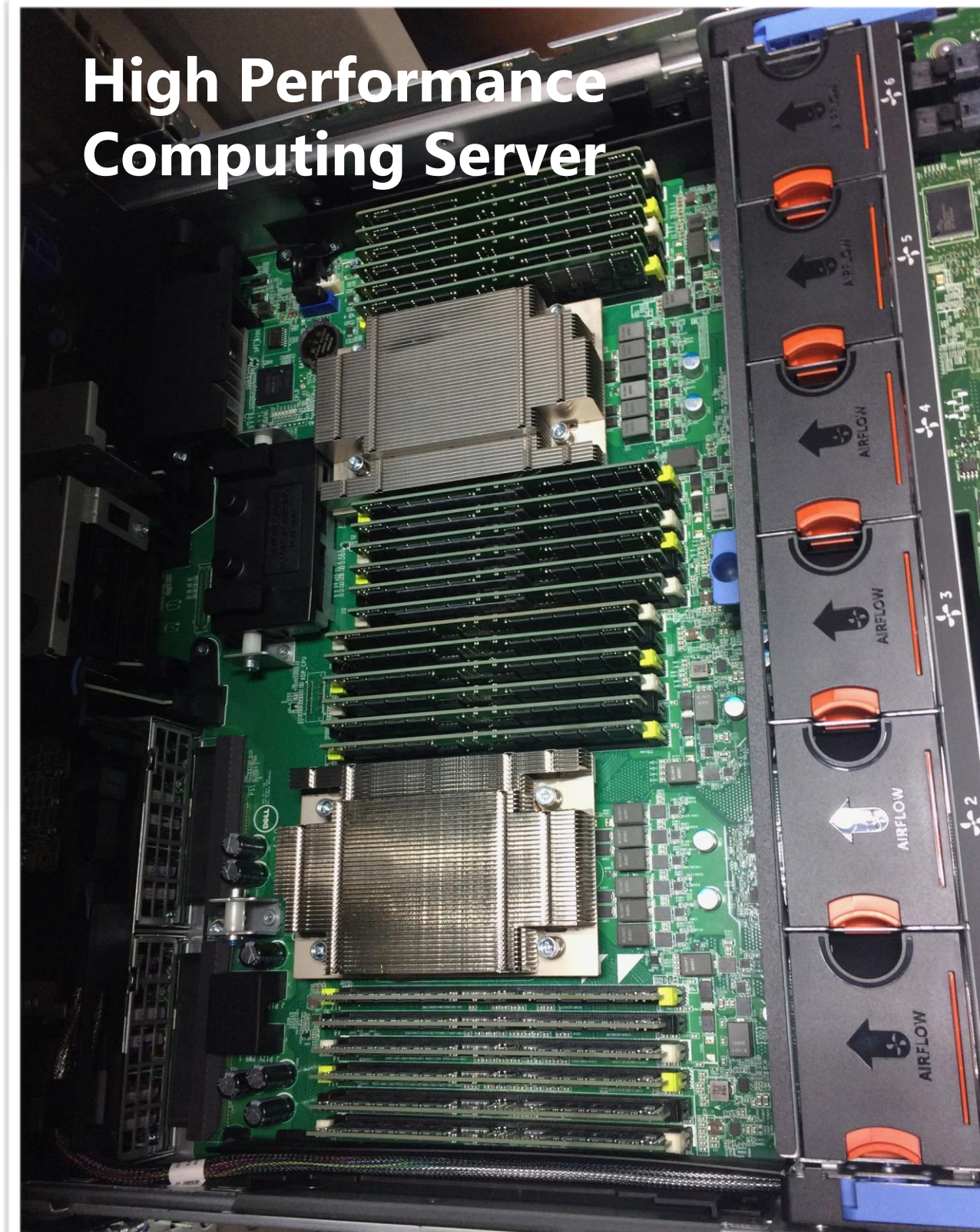




Central Facilities of Department



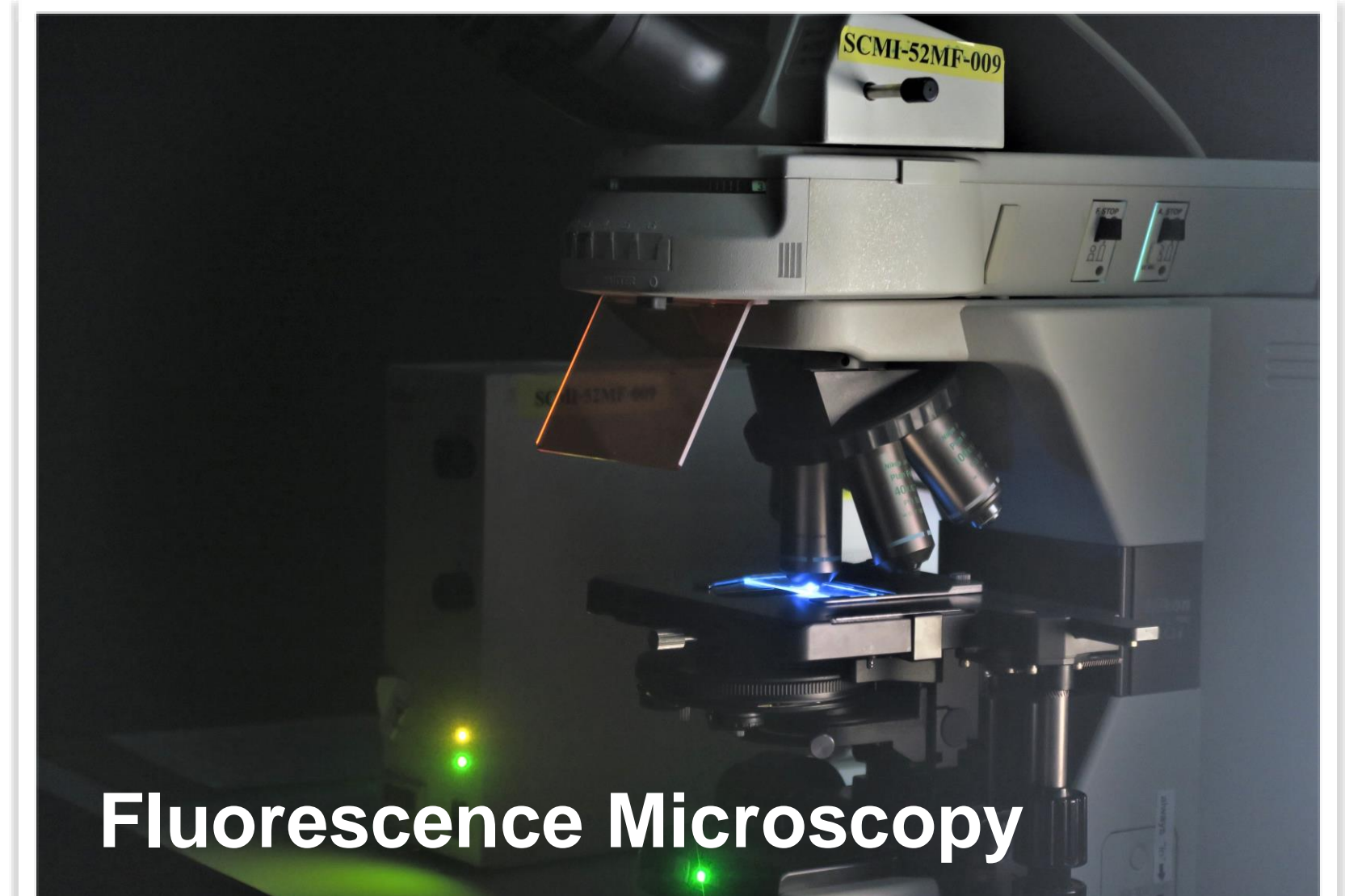
BSL-3



High Performance Computing Server



8-color Fluorocytometry



Fluorescence Microscopy



Publications

Average (12 years) = 32 articles/year

***** Most articles were published in international journals*****





Awards



Best Research Quality in Microbiology (Thailand Research Fund, 2017)



- Thailand Outstanding Scientist Award (Microbiology)
- Mahidol University Prize for Excellence in Research
- L'ORÉAL Thailand Awards for Women in Science
- Thailand Outstanding Young Scientist Award (Biochemistry)
- TWAS Prize for Young Scientists in Thailand
- NRCT Research Award (Medical Sciences)
- National Science and Technology Development Agency
- Research Career Development Award
- Thailand Toray Science and Technology Award
- Dhushdi Mala Medal in Science
- Dean's List
- L'ORÉAL Thailand Awards for Women in Science
Special fellowship for COVID-19 research



Teaching Services for Several Undergraduate Programs



- **Medical Schools (RA, PI, PC)**
- **Nursing Schools (SI, RA, NW, PC)**
- **Faculty of Science (BI, Plant Science)**
- **School of Public Health**
- **Biomedical Science (International Program)**



Department Activities


Organize 3 events and participate at least 3 events

- **Workshop on Biosafety**
- **Workshop on Bioinformatics**
- **The Microbiology Summer Camp**
- **Mahidol Open House (มหิดลวิชาการ)**
- งานสัปดาห์วิทยาศาสตร์แห่งชาติ
- มหกรรมวิทยาศาสตร์และเทคโนโลยีแห่งชาติ





Workshop on Biosafety

 **DEPARTMENT OF MICROBIOLOGY
FACULTY OF SCIENCE, MAHIDOL UNIVERSITY**

**WORKSHOP on
BIOSAFETY:
PRINCIPLES &
PRACTICES**

JANUARY 18-20, 2017

Practical Sessions:
Risk assessment
Hand hygiene
PPE procedures
Waste handling
Emergency response
Shipping dangerous goods

Theory Sessions:
Principles of biosafety
How to create safety cultures
Pathogen and animal toxin act 2015
Laboratory acquired infection
Primary containment equipment & engineering
Biological risk management manual & SOP
Biowaste management

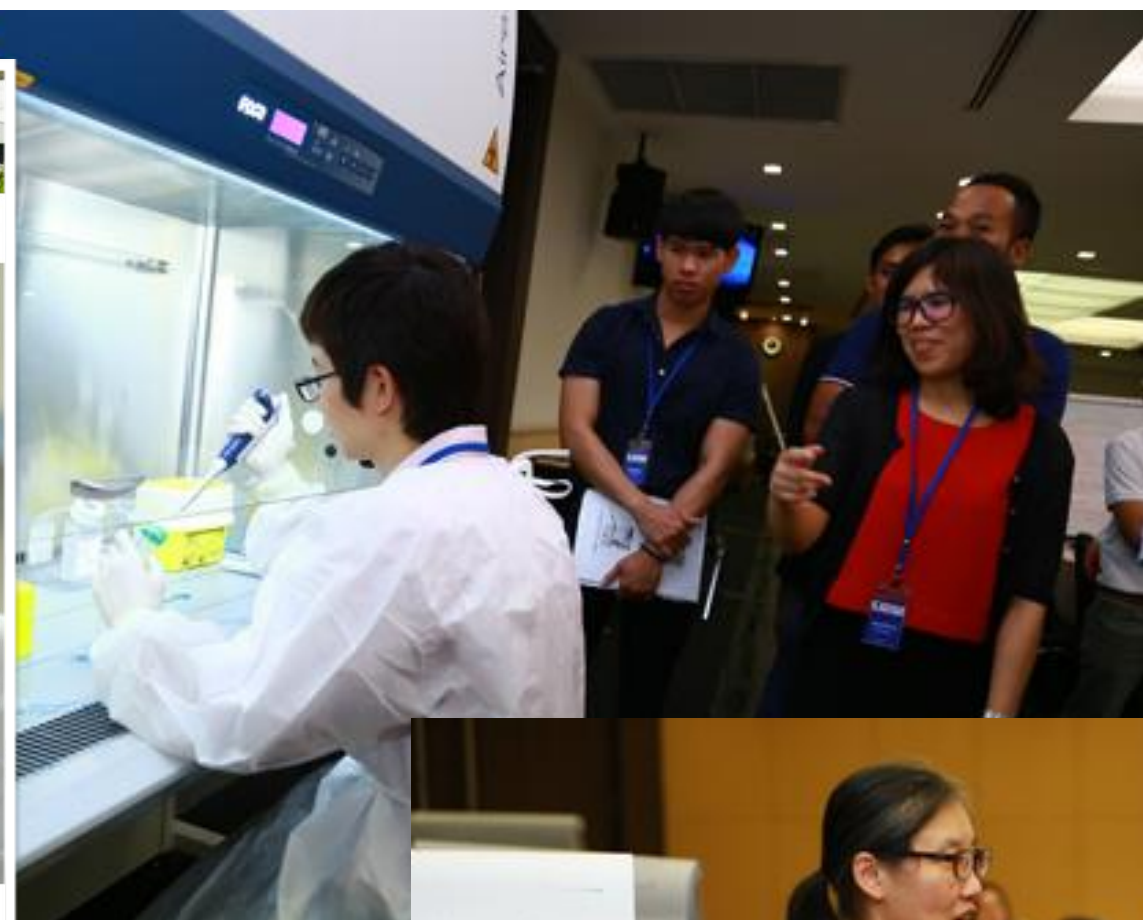

Aranee Thitthanyanont
Mahidol University

Dan Yoong
World BioHazTec
Corporation

Damien Chew
World BioHazTec
Corporation

อัตราค่าลงทะเบียนท่านละ 6,000 บาท
ผู้ลงทะเบียนเบิกค่าลงทะเบียน
ค่าเดินทางและที่พักตามระเบียบกระทรวงการคลังจากต้นสังกัด

Tel: 0867879804, 0818222100, 0843833759
<https://www.facebook.com/groups/1825939964345198/>
Facebook: musc-biosafety-2017, E-mail: scmibiosafety@gmail.com



- Key persons to form training teams
- Organize the workshop together with IBC and Faculty Research Unit
- Organize every year to train Faculty staff
- Internal biosafety training for all department members





Workshop on Bioinformatics

คณะวิทยาศาสตร์ มหาวิทยาลัยมหิดล
Wisdom of the Land

"The Phylogenomics"

Workshop on Genome Evolution
of Important Infectious Diseases 2017
ภาควิชาจุลชีววิทยา คณะวิทยาศาสตร์ มหาวิทยาลัยมหิดล
13-15 ธันวาคม พ.ศ. 2560

Keynote:
The Roles of Next Generation Sequencing in Studying Infectious Diseases:
diagnosis, molecular epidemiology and genome evolution

Case Studies:
Applications of genomics and evolution in several important infectious
diseases in:
• Influenza and emerging viruses
• *Mycobacterium tuberculosis*
• *Salmonella* spp.

Computer Practices:
• Manipulation of the Next-generation Sequencing Data
• Read Mapping and Variants Calling
• Methods and Techniques in Sequence Alignments
• Molecular Phylogenetic Analysis using Maximum Likelihood
• Bayesian Inference in Molecular Phylogeny
• Phylogenomics—the whole genome tree

อัตราค่าสมัคร

ประเภท	ราคา
ลงทะเบียนล่วงหน้า (ภายในวันที่ 31 ตุลาคม พ.ศ. 2560)	5,000.- บาท
ค่าลงทะเบียนปกติ	6,000.- บาท

สอบถามรายละเอียดเพิ่มเติมได้ที่
อีเมล: geiid.workshop@gmail.com
หรือติดต่อโดยตรงได้ที่
ภาควิชาจุลชีววิทยา คณะวิทยาศาสตร์ มหาวิทยาลัยมหิดล
272 ถนนพหลโยธิน เขตราชเทวี กรุงเทพมหานคร 10400
โทรศัพท์ 0-2201-5680 โทรสาร 0-2644-5411
Facebook: <https://www.facebook.com/groups/166655464939361/>

ลงทะเบียนออนไลน์ได้ที่
<http://www.sc.mahidol.ac.th/scmi/geiid/>



- Aim to share the knowledge to the people in science
- Participants will learn how to analyze genomic data
- Been organized for 3 years with good responses
- Planning to expand to department short program



Microbiology Summer Camp

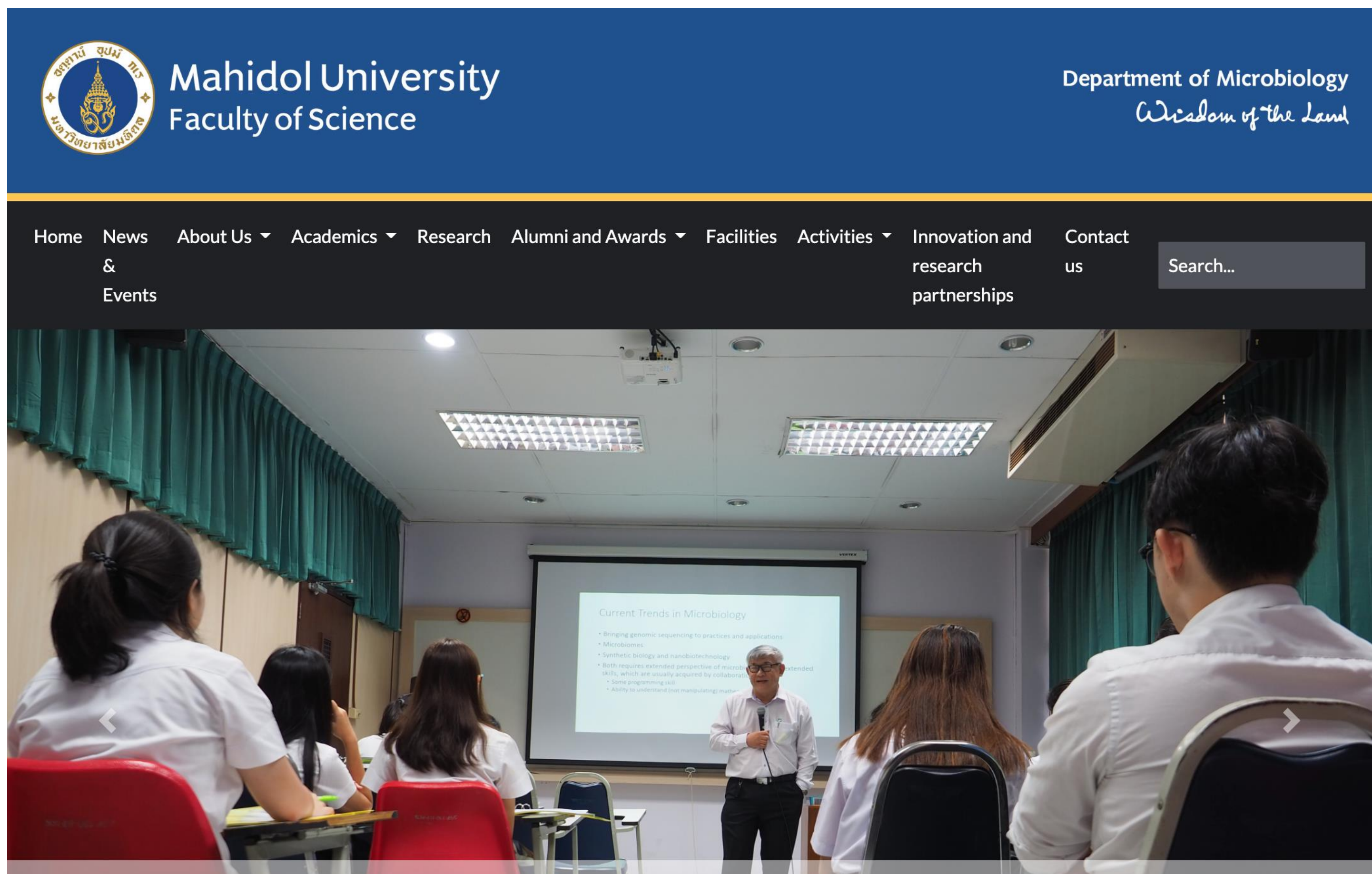


- **Has been organized for 11 years**
- **To let the undergraduate students to gain more experiences in science and know how to do the scientific research**
- **Recruit 20 students from over the country to participate**
- **The students have a chance to do experiments to develop their scientific thinking**
- **Our students have a chance to practice their teaching skill and work together as a team**
- **On-site visit the famous institute or company outside the faculty**
 - ✓ **NSTDA**
 - ✓ **Bionet Asia**
 - ✓ **Siam Winery**
 - ✓ **Thai Asia Pacific Brewery**



Department Website

<https://microbiology.sc.mahidol.ac.th>



Internet

- Program offered
- Program curriculum
- Study plan
- Field of researches
- Public announcement
- Etc.

Intranet

- Online room booking
- Online equipment booking
- Internal announcement
- Etc.