KEMENTERIAN PENDIDIKAN, KEBUDAYAAN, RISET, DAN TEKNOLOGI
INSTITUT PERTANIAN BOGOR

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Nomor : 3955/IT3.D5/DI.04.01/2024 25 Januari 2024
Lampiran : 1 (satu) berkas
Hal : *Tawaran Internship 2024,*
National Pingtung University of Science and Technology, Taiwan

Yth.
Para Ketua Departemen
Institut Pertanian Bogor
Bogor

Dengan hormat kami teruskan informasi mengenai tawaran magang/ *internship* melalui program *2024 Taiwan Experience Education Program (TEEP), National Pingtung University of Science and Technology, Taiwan*. Tenggat waktu pendaftaran adalah sampai tanggal 19 Februari 2024.

Sehubungan dengan hal tersebut, kami mohon kiranya informasi ini dapat disebarluaskan kepada seluruh mahasiswa jenjang S1 semester akhir ataupun yang baru lulus (*fresh graduates*) yang berminat di lingkungan Bapak/ Ibu. Informasi lebih lanjut dapat dilihat pada berkas terlampir atau melalui tautan: https://ipb.link/teep-2024-npust

Demikian kami sampaikan, atas perhatian dan kerjasama Bapak/ Ibu diucapkan terima kasih.

Direktur Pendidikan Internasional,

digitally signed
disign.ipb.ac.id

Puji Mudiana, S.P., M.A.
NIP 197607102006042008

Tembusan:
Yth. Wakil Rektor Bidang Pendidikan dan Kemahasiswaan
Yth. Wakil Dekan bidang Akademik dan Kemahasiswaan

2024 Taiwan Experience Education Program (TEEP)

Host University: National Pingtung University of Science and Technology, Taiwan

April 1 – September 30, 2024

Program Overview & Important Links

This program offers the opportunity for international students to attend an education and training program in Taiwan in the field of Fundamental and Translational Research in Plant Pathology, The Relationships of Plant Ecophysiology and Plant Diversity, Animal Vaccine and Adjuvant Development, or Animal Nutrition and Waste Management. This program will be held in National Pingtung University of Science and Technology with the duration of education/ training is 5–6 months. Each student will be subsidized 12,000 NTD/month for 5-6 months. All expenses are to be paid for by each trainee student. The list of participating NPUST faculty members and research topics can be found in the attachment below.

Defined forms can be accessed through: https://ipb.link/teep-2024-npust

Eligibility:

- Currently enrolled bachelor's students (final semester) or who with a bachelor's degree (or higher) that graduated from IPB University.

Required Documents for TEEP:

1. Study plan; in english no set form, make sure you have to write the name of the prospective supervisor, the department, and the research topic.
2. Academic transcript; English, can be obtained in integrated service center/ ISC or student portal
3. Letter of recommendation from academic/ research supervisor; no set form
4. Copy of a certificate of English language proficiency; TOEIC, Duolinggo, TOEFL ITP or any equivalent with minimum CEFR B2
5. Passport copy
6. Certificate of study/ certificate of enrollment
7. Student consent form; will be sent to you after the nomination
8. Nomination letter from your home institute; you can submit later after the nomination

Application Procedures

- Please email softcopies of all required documents to dpi_ipb@apps.ipb.ac.id by **February 19th, 2024 (Friday) by 15.00 pm** at the latest with Subject: TEEP2024_APPLY_Name.
- Applicants **CANNOT** apply individually to NPUST.
- **Offline interview** will be conducted between **22 – 26 February, 2024** or based on further notification.
- **Incomplete or late applications will not be accepted.**
- If you have any inquiry please kindly DM our Instagram (@ico_ipb) or email us by format: TEEP2024_INQUIRY_Name to dpi_ipb@apps.ipb.ac.id.

Application Documents Naming System:

- Each file of application document should be named according the following naming format: DocumentNumber_YourName_DocumentName_TEEP2024
- Example 1:
    - 1_Jerry Yan_StudyPlan_TEEP2024
    - 2_ Jerry Yan_AcademicTranscript_TEEP2024
    - 3_ Jerry Yan_RecommendationLetter_TEEP2024
    - 4_ Jerry Yan_ Passport_TEEP2024
    - ……. so on

11. The information on the participating NPUST faculty hosts:

Number	Name / Title	Department	Research Topic	Email
1	Dr. Yuh Tzean Assistant Professor	Department of Plant Medicine	Fundamental and Translational Research in Plant Pathology (Appendix 1)	miketzean@gmail.com
2	Dr. I-Ling Lai Associate Professor	Graduate Institute of Bioresources	Plant Ecophysiology and Plant Diversity (Appendix 2)	ilai@mail.npust.edu.tw
3	Dr. Hsing-Chieh Wu Associate Professor	International Degree Program in Animal Vaccine Technology	Animal Vaccine and Adjuvant Development (Appendix 3)	hcwu@mail.npust.edu.com
4	Dr. Jai-Wei Lee Professor	Department of Tropical Agriculture and International Cooperation	Animal Nutrition and Waste Management	joeylee@mail.npust.edu.com

Appendix 1 (Dr. Yuh Tzean's research topic)

Microbial phytopathogens are a major limiting factor affecting plant growth and crop production. In the face of diseases caused by microbial phytopathogens, how fundamental knowledge in phytopathology can be translated for practical applications in plant protection needs to be addressed. In pursuit of this goal, we seek to conduct translational studies for the development of strategies to detect and/or control important phytopathogens including nematodes, fungi, and viruses.

Appendix 2 (Dr. I-Ling Lai's research topic)

The Relationships of Plant Ecophysiology and Plant Diversity

Assoc. Prof. I-Ling Lai

The Relationships of Plant Ecophysiology and Vegetation Distribution

My researches aimed to understand the underlying mechanism of plants adapted to the environmental factors, and the influences of their distribution and competition by survey of forest permanent plots.

The results could be important for species conservation, forest management and predicting vegetation shift under the circumstance of climatic change.

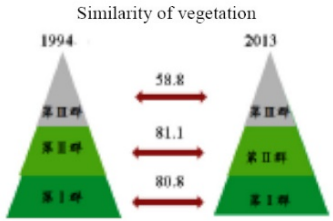
The vegetation shifted from tropical to temperate type

The vegetation change during lake succession

The influences of fog and light on cypress species

Mt. Nanren: 19-year changes of dominants

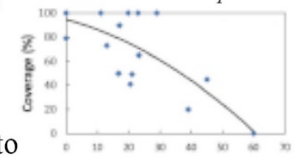
Mt. Nanren compressed of tropics originated tree species in foothill and temperate originated in top. The 19-year change of vegetation show only difference of dominance but not the migration. It's speculated by influence of Northeast Monsoon.



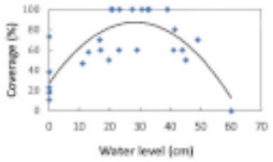
Nanren Lake: the succession of wetland plants and management of ecosystem

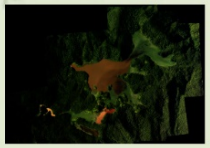
Invasive *Panicum repens* caused decline of native *Leersia hexandra* and the reduction of lake area and biodiversity. The ecophysiological characters of each species were studies in situ and nursery to pursue the policy of sustainable management.

Panicum repens



Leersia hexandra

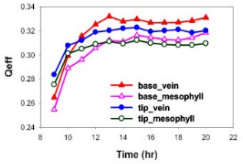




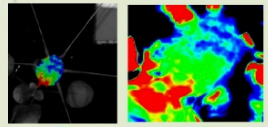
Applying Chlorophyll Fluorescence and Gas Analysis Techniques in Observing Dynamics of Leaf Photosynthesis

Applications

- Fast screening of healthy individuals with high photosynthetic performance
- Detection of leaf wound and infection before the morphological characters appeared.



Acquiring fluorescence image sequences



Growth: 0–5 % hr^{-1}

Qeff: 0.4 – 4.3

Qeff: photosynthetic efficiency

Appendix 3 (Dr. Hsing-Chieh Wu's research topic)

International Degree Program in Animal Vaccine Technology

Chun-Yen Chu
Professor & Director

Hsing-Chieh Wu
Associate Professor

Doan Thi Thu Dung
Assistant Professor

RESEARCH PLATFORMS

- **Cell culture system**
  - ✓ Mass production for viral Ag
  - ✓ Bioreactor
  - ✓ Modified medium
  - ✓ Genetic cell line
- **Expression system**
  - ✓ Virus like particle
  - ✓ High yield baculovirus
  - ✓ Insect cell mass production
- **Diagnostic kit and Vaccine**
  - ✓ Swine disease: PED, PRRS, PCV2, CSF, S. suis, APP, Er, PmT...
  - ✓ Avian disease: Ra, Parvovirus
  - ✓ Bovine disease: Mh, Sta, E. coli
- **Adjuvants**
  - ✓ Carrier
  - ✓ Bacterial
  - ✓ Bacterial toxin

RESEARCH ACHIEVEMENTS

Number of publications : 30 papers since 2011.
Number of funded projects : 43 projects since 2011.
Total amount of funded projects : NT 53,887,700 since 2011.
Number of patents : 16 patents since 2011

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