



高雄醫學大學

KAOHSIUNG MEDICAL UNIVERSITY

未來高醫 引領未來

Integrity(誠信)、Internationalization(國際化)、Innovation(創新)
Intelligence(智慧)、Integration(整合)、Impact(影響力)



Dept. of Biomedical Science and
Environmental Biology, KMU

College of Life Science

Department of Biomedical Science and Environmental Biology

Department Introduction

2025/11/25



**Biomedical
Science**

Interdisciplinary fields

**Environmental
Biology**

1991

Department established
(originally named Department of Biology)

2003

Renamed Department of Biomedical Science
and Environmental Biology

2005

Establishment of the Master's Program in the
Department of Biomedical Science and
Environmental Biology

Degrees offered (Bachelor, Master)

Lucky Clover

**Biomedical
Science**

**Molecular
Biology**

Ecology

Biodiversity

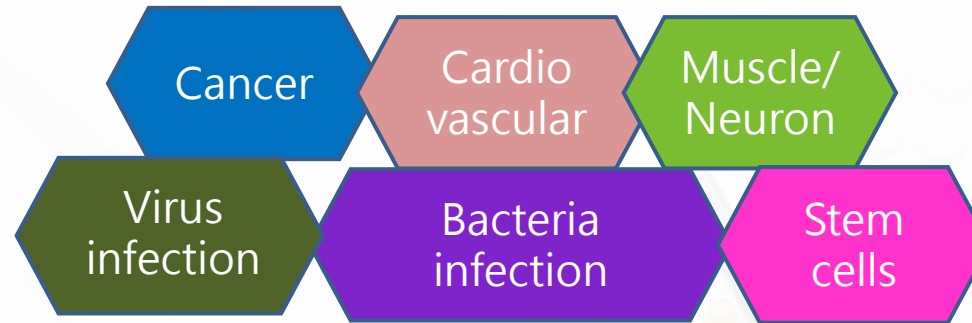
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Dept. of Biomedical Science and
Environmental Biology, KMU

Research Areas

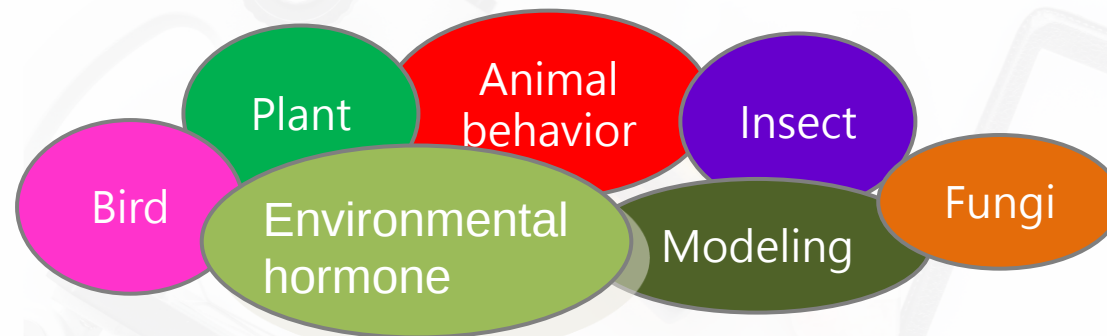
1. Biomedical Science- Improves Human Health

--Molecular biology, Genetics, Proteomics, Bioinformatics, Molecular medicine, **Natural compounds, Biomarker, Therapeutic targets, Cell therapy**



2. Environmental Biology- Improves Environment Health

--Biodiversity, Molecular phylogenetic, Ecological evolution, Behavioral & evolutionary ecology, Ecological modelling, Toxicological monitoring



Academic Guidance

- 
- **Early Research Engagement:** Freshmen are encouraged to begin lab work in their first year.
 - **Integrated Master's Program:** Option to pursue a five-year accelerated master's degree.
 - **International Environment:** Actively recruits foreign students; most courses taught in English.
 - **Strong Academic Mentorship:** Supervising professors and the department head provide personalized guidance.
 - **Global Opportunities:** Study-abroad programs, exchange initiatives, collaborative research projects.
 - **Scholarships Available:** Financial support offered for academic and research excellence.
 - **Research Activities:** Workshops, student research forums, hands-on training, and expert seminars.

Career Support

- 
- **Industry-Experienced Faculty:** Courses taught by professional teachers from relevant industries.
 - **Graduate Tracking Surveys:** Conducted annually to evaluate and enhance program effectiveness.
 - **Career Planning:** Third-year career development sessions for undergraduates.
 - **Job Information:** Regular updates on job vacancies and employment opportunities.
 - **Active Alumni Network:** Student-run Facebook group for alumni connections and mentorship.
 - **Industry Guidance:** Talks and career advice from invited industry professionals.
 - **Internships:** Opportunities with partner companies for real-world experience.
 - **International Dual Degree Programs:** Enhance global career and academic pathways.

Teacher Honors (2022-2025)

- **2025 QS World University Rankings by Subject:**

The College of Life Sciences at Kaohsiung Medical University ranked **9th in Taiwan** and **579th globally** in Biological Sciences.

- **World' s Top 2% Scientists (2025):**

Professor Hans-Uwe Dahms received the prestigious recognition as one of the **World' s Top 2% Scientists**.

- **International Research Grant (2025):**

Professor Yong-Chao Su received the **NSTC–DOST Program Grant** from the National Science and Technology Council for an international collaborative research project.

- **USR Sustainability Course Model Award (2025):**

Professor Yong-Chao Su won the **USR University Social Responsibility – Sustainability Course Category Model Award**.

- **National Innovation Award (2024):**

Professor Tian-Lu Cheng received the **Academic Research Innovation Award** at the National Innovation Awards.

Learning Environment

- Department **located on** 9th floor of The First Teaching Building
- **Specialized rooms** include:
 - Research rooms
 - Specimen storage rooms
 - Student laboratories
 - Fine instrument laboratories
 - Cell culture rooms
 - Dark room

Facilities and Equipment



Category	Equipment
General Lab Equipment	Spectrophotometer, Deep freezers, Autoclaves, Vacuum ovens, Water baths, Gel dryers
Sterile & Cell Culture	Laminar flow hoods, Carbon dioxide incubators, Cell culture rooms equipment
Molecular Biology & Genetics	PCR thermal cyclers, DNA sequencing apparatus
Centrifugation	Ultracentrifuges, Tabletop centrifuges
Microscopy & Imaging	Fluorescent microscopes, Microscope photography apparatus, Digital photography tools
Tissue & Sample Preparation	Tissue section dissectors
Miscellaneous	UV cross-linkers, Other advanced laboratory equipment

未來高醫 引領未來 **Number of staff and students**

Job Title	Number	Duration	Number
International Adjunct Visiting Professor	3	Graduate students	13
Full-time professors	4	Undergraduate students	166
Full-time associate professors	7	SUM	179
Full-time assistant professors	3*		
Professional Teachers from the Industries	1		
Tutor	1		
Intermediate Technician	1		
Secretary	1		
SUM	21		

* Recruiting in the field of botany

Biomedical Science Group

Pei-Feng Liu



Hsueh-Wei Chang



Yung-Fu Chang



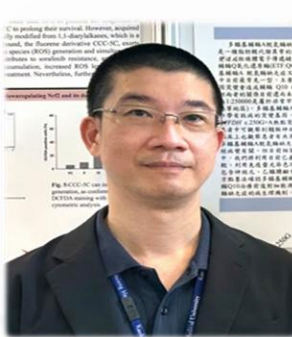
Chih-Mei Cheng



Ruei-Nian Li



Chuang-Yu Lin



Environmental Biology Group

Hans-Uwe Dahms

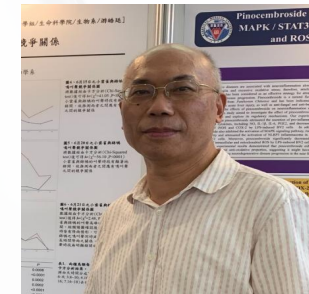


Bao-Sen Shieh

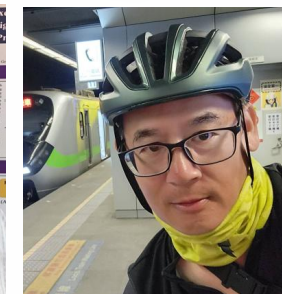


Is awarded the title of
"World's Top 2%
Scientists in 2025"

Chao-Chieh Chen



Bin Huang



Yong-Chao Su



Chi-Yun Kuo



Yin-Tse Huang



1. Received **International collaborative research grant** from National Science and Technology Council)
2. Won the **USR Course Category Model Award**

International Adjunct Visiting Professors

Prof. Li-Ping Tang



Department of
Bioengineering,
University of Texas
at Arlington, **USA**

Prof. Dmitry Lvovich Aminin



Chief Scientific
Secretary, Far Eastern
Branch of the
Russian Academy of
Sciences

Prof. Gladys Cherisse J. Completo



Institute of
Chemistry,
University of the
Philippines
Los Baños

Education and Expertise of Full Time Professors (1/2)

【Biomedical Science】

Job Title	Name	Degree	Expertise
Professor (Chairman)	Pei-Feng Liu	Ph.D. from Department of Life Science, National Tsing-Hua University, Taiwan	Tumor Biology, Bacterial Pathogenesis, Molecular Medicine, Biomarkers, Therapeutic Targets
Professor	Hsueh-Wei Chang	Ph.D. from Department of Life Science, National Tsing-Hua University, Taiwan	Natural product bioactivity, Antioxidants, Anticancer
Associate Professor	Yung-Fu Chang	Ph. D. from Graduate Institute of Medicine, Kaohsiung Medical University, Taiwan	Protein analysis, RNA analysis, gene construction
Associate Professor	Chih-Mei Cheng	Ph.D. from Kaohsiung Medical University , Taiwan	Biochemistry, Cell Biology
Associate Professor	Ruei-Nian Li	Ph.D. from National Yang-Ming University, Taiwan	Microbiology, Virology, DNA methylation
Assistant Professor	Chuang-Yu Lin	Ph.D. from Department of chemical engineering and biotechnology, National Taipei University of Technology, Taiwan	Stem Cell Biology, Tissue Engineering, Building <i>in vitro</i> Disease Model

Education and Expertise of Full Time Professors (2/2)

【Environmental Biology】

Job Title	Name	Degree	Expertise
Professor	Bao-Sen Shieh	Ph.D. from Iowa State University, U.S.A.	Animal Communication, Ornithology
Professor	Hans-Uwe Dahms	Ph.D. from University Oldenburg, Germany	Environmental and Public Health, Antibiotic Resistance, Toxicology, Biomarker, Monitoring, Integrative Approach
Associate Professor	Chao-Chieh Chen	Ph.D. from Louisiana State University, U.S.A.	Ornithology, Behavioral Ecology, Community Ecology
Associate Professor	Bin Huang	Ph.D. from National Taiwan University, Taiwan	Mitochondrial transplantation, Nitric oxide, biomechanical force, Plant physiology
Associate Professor	Yong-Chao Su	Ph.D. from Department of Ecology and Evolutionary Biology, Kansas University, U.S.A.	Evolutionary genomics, genomic ecology, social behavior, biogeography, insect and arachnid biology
Associate Professor	Chi-Yun Kuo	Ph.D. from Organismic and Evolutionary Biology, University of Massachusetts Amherst, U.S.A.	Behavioral Ecology, Evolutionary Ecology, Ecological Modelling, Biostatistics
Assistant Professor	Yin-Tse Huang	Ph.D. from School of Forestry and Resources Conservation, University of Florida, U.S.A.	Mycology, Systematics and Evolution, Genomics, and Ecology



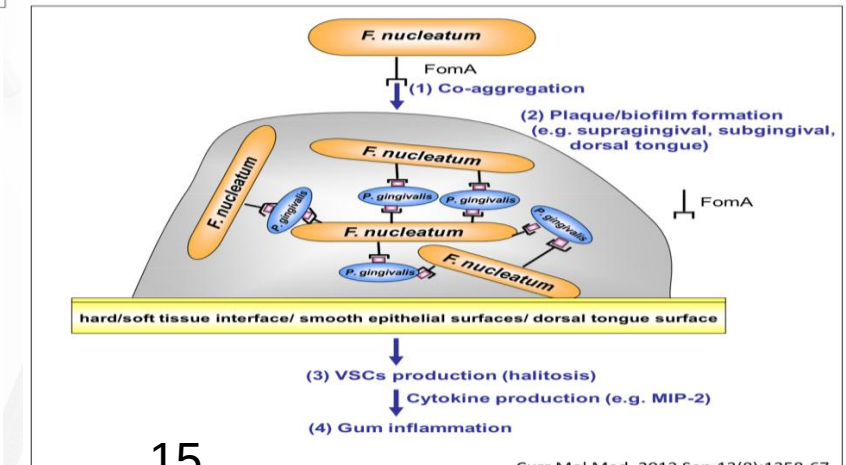
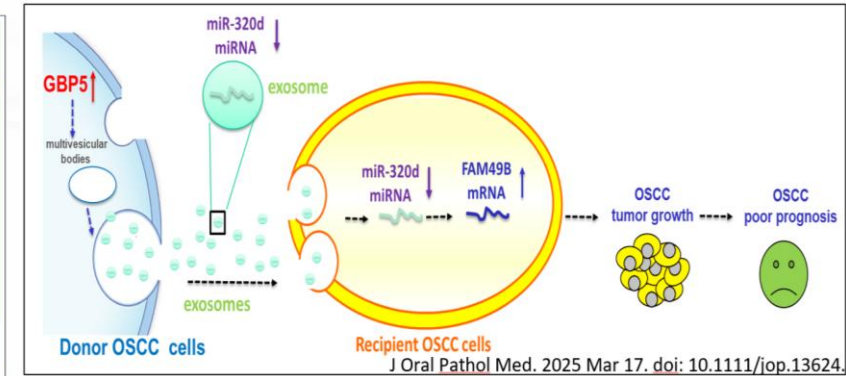
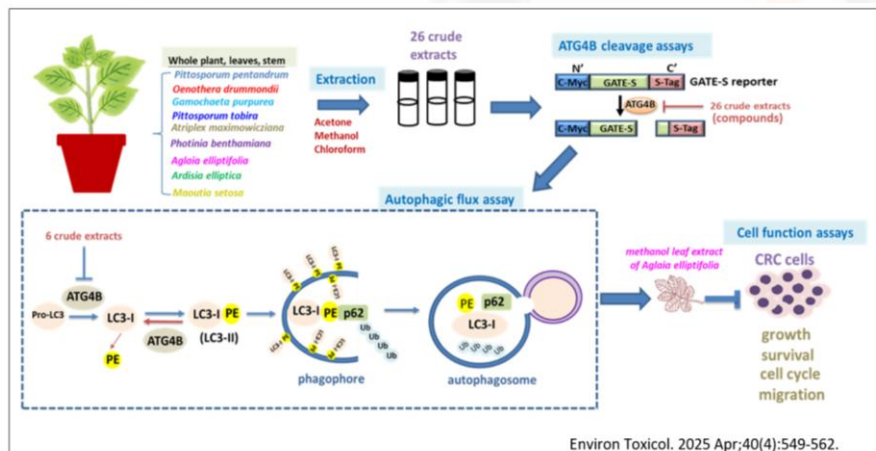
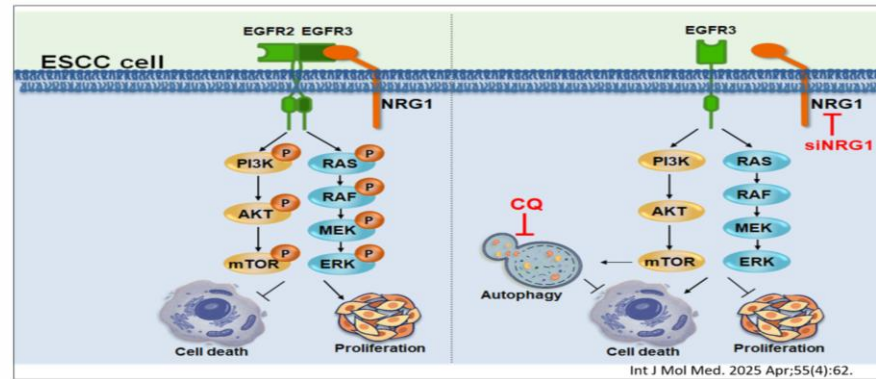
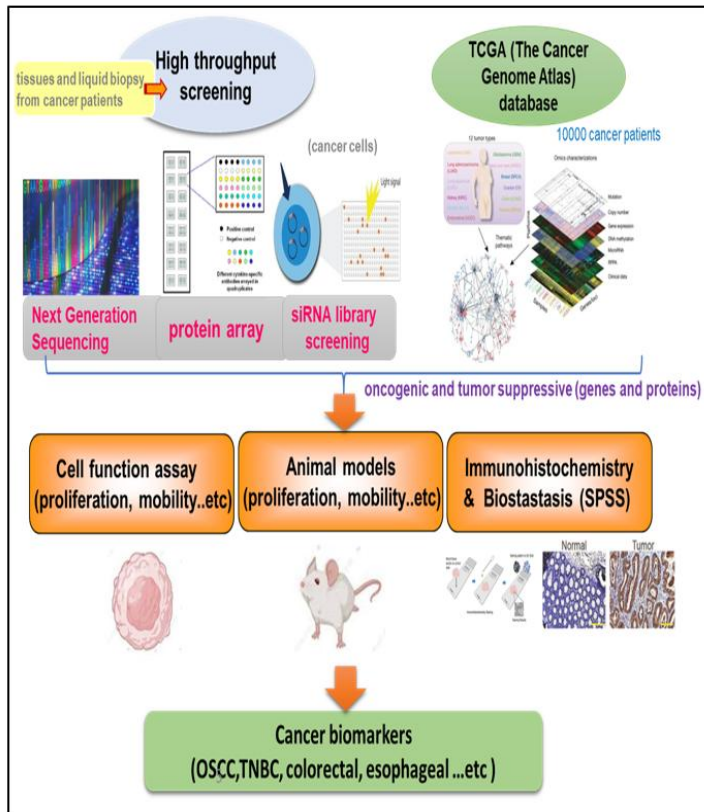
Research Areas

Biomedical Science



Pei-Feng Liu/Chairman Precision Medicine Laboratory

- ❖ Courses offered : Molecular Biotechnology, Molecular Oncology, Principles and Technologies of Cell Biology · Special Topics on Cell Molecular Biology, General Biology (Including Laboratory)
- ❖ Specialty : Tumor Biology, Bacterial Pathogenesis, Clinical data analysis, Molecular Medicine, Biomarkers, Therapeutic targets
- ❖ Research Interests : Screen potential biomarkers for various tumors or pathogenic bacteria to: (1) explore their molecular mechanisms; (2) confirm their applications in diagnosis, prognosis and targeted therapy.





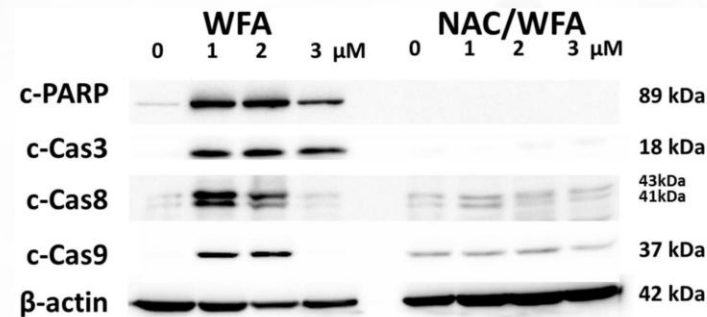
Hsueh-Wei Chang Anticancer/Antioxidant Laboratory

- ❖ Courses offered : Genomics, Bioinformatics, General Biology (Including Laboratory)
- ❖ Specialty : Natural product bioactivity, Antioxidants, Anticancer
- ❖ Research Interests : Screening for anticancer drugs from natural products and synthetic compounds

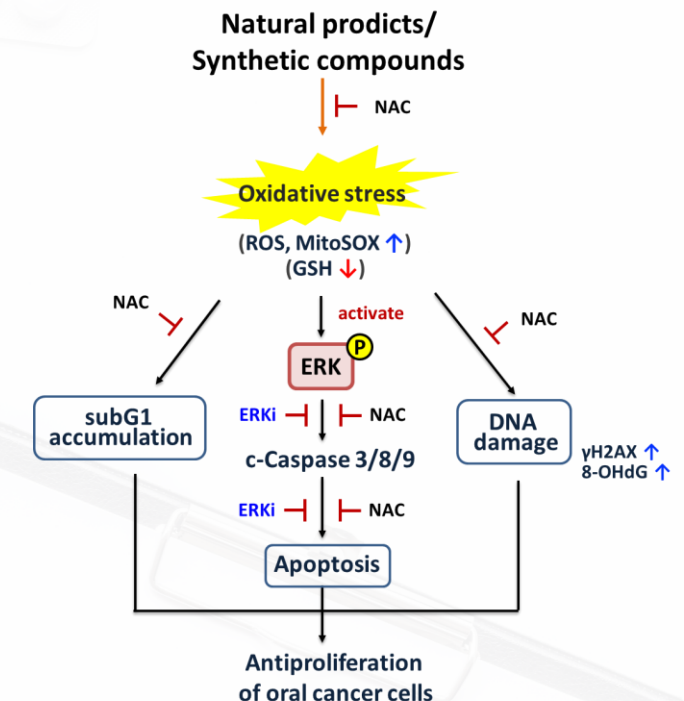
Flow cytometry

- Cell cycle
- Reactive oxygen species
- Mito. Membrane potential
- Apoptosis
- DNA damage/repair
- Others

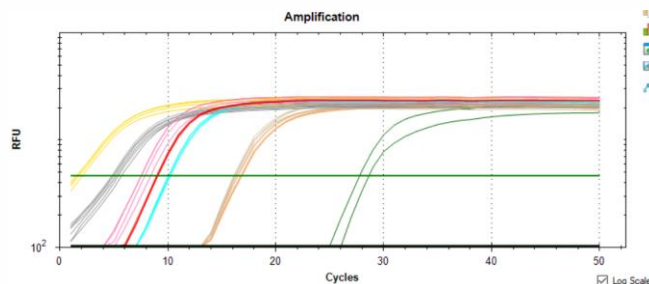
Western blotting



Strategy



Real time PCR

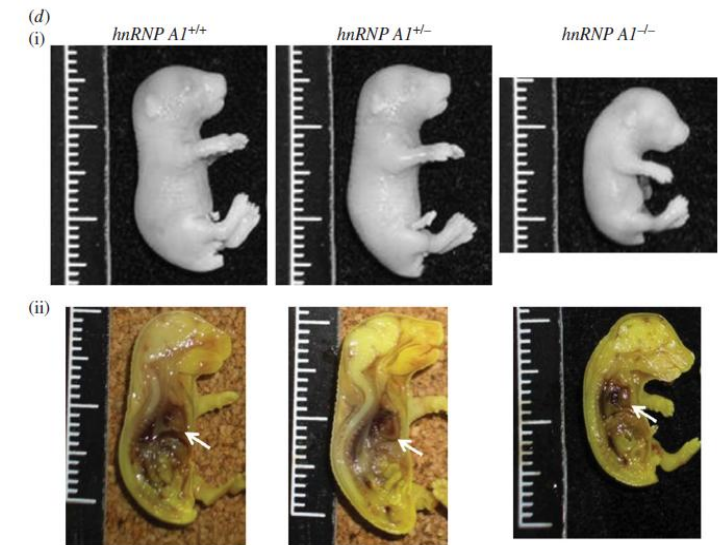
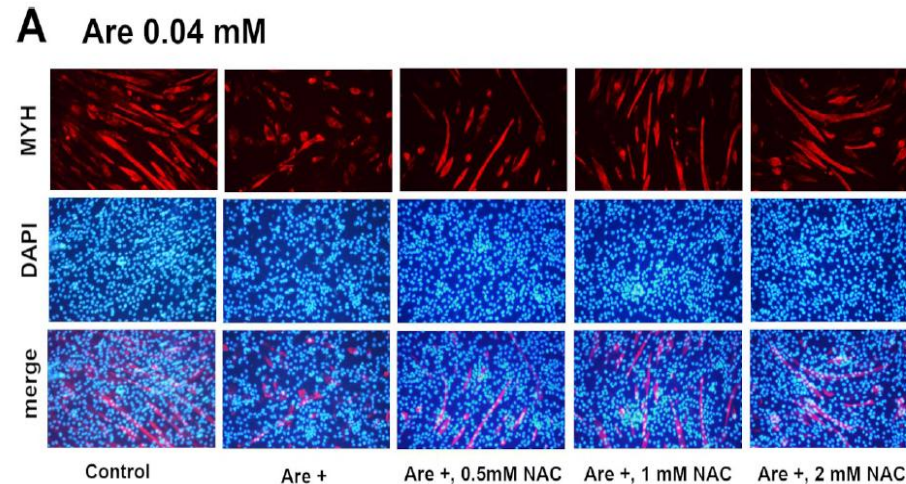
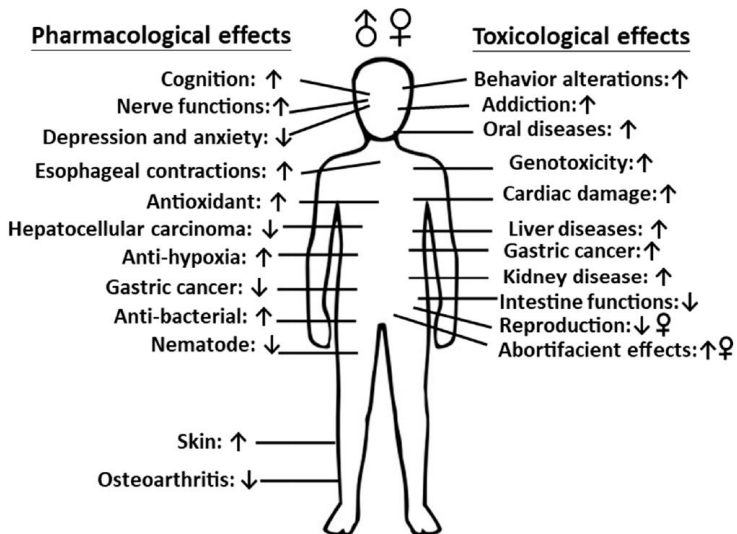


Patents



Yung-Fu Chang Muscle Development Laboratory

- ❖ Courses offered : Molecular biology 、 Biotechnology
- ❖ Specialty : protein analysis 、 RNA analysis 、 gene construction
- ❖ Research Interests : The effects of toxins on muscle development 、
The effects of neurotransmission on muscle development

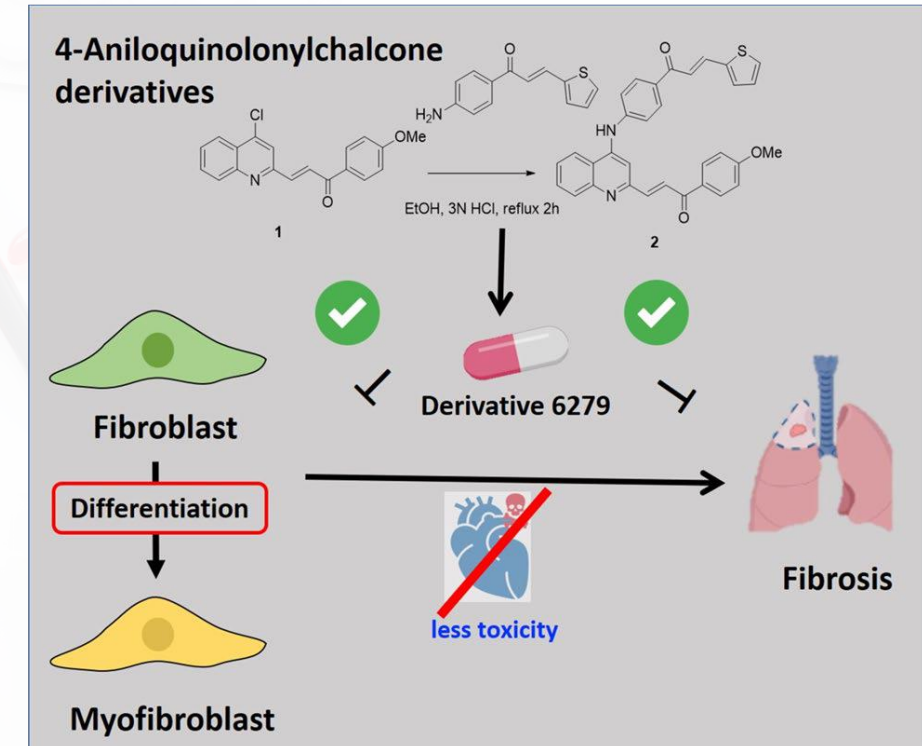
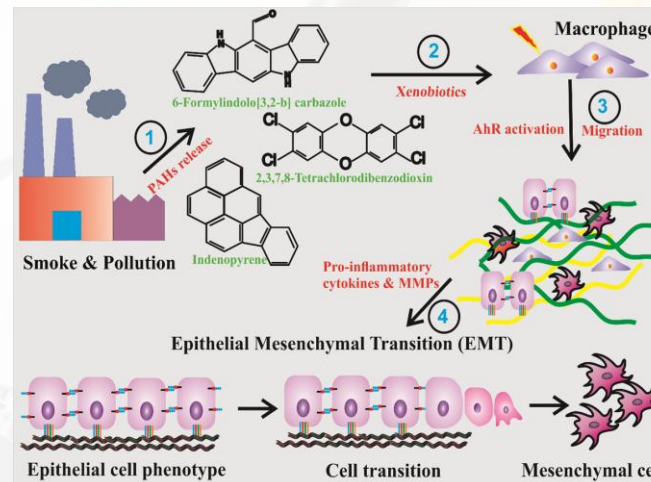
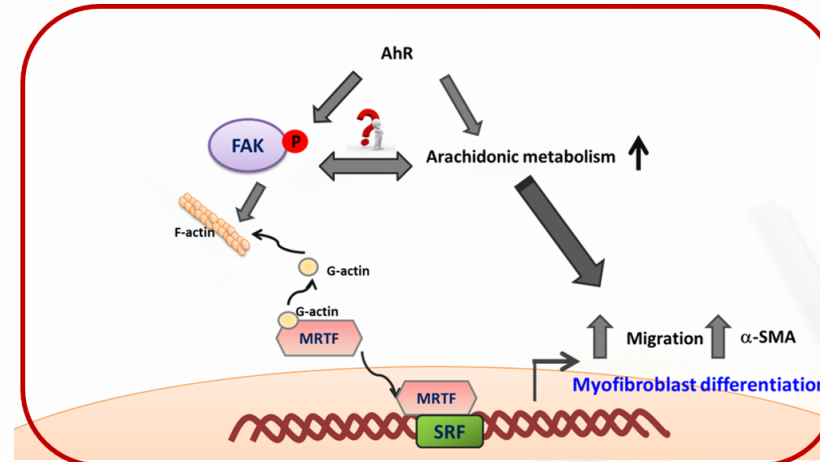
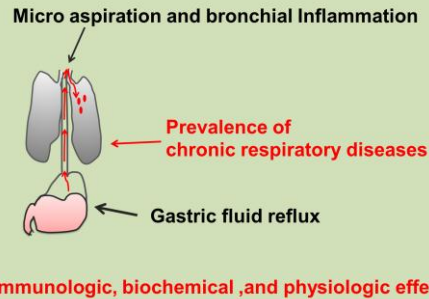


Chih-Mei Cheng Environmental Pollutants and Diseases Laboratory

- ❖ Courses offered : Special Topics in Seminar, Application of Animal Cell Culture
- ❖ Specialty : Biochemistry, Cell Biology
- ❖ Research Interests : Investigation of anti fibrotic drug, Mechanisms of environmental pollutants and in initiation of pulmonary fibrosis and tumor microenvironment



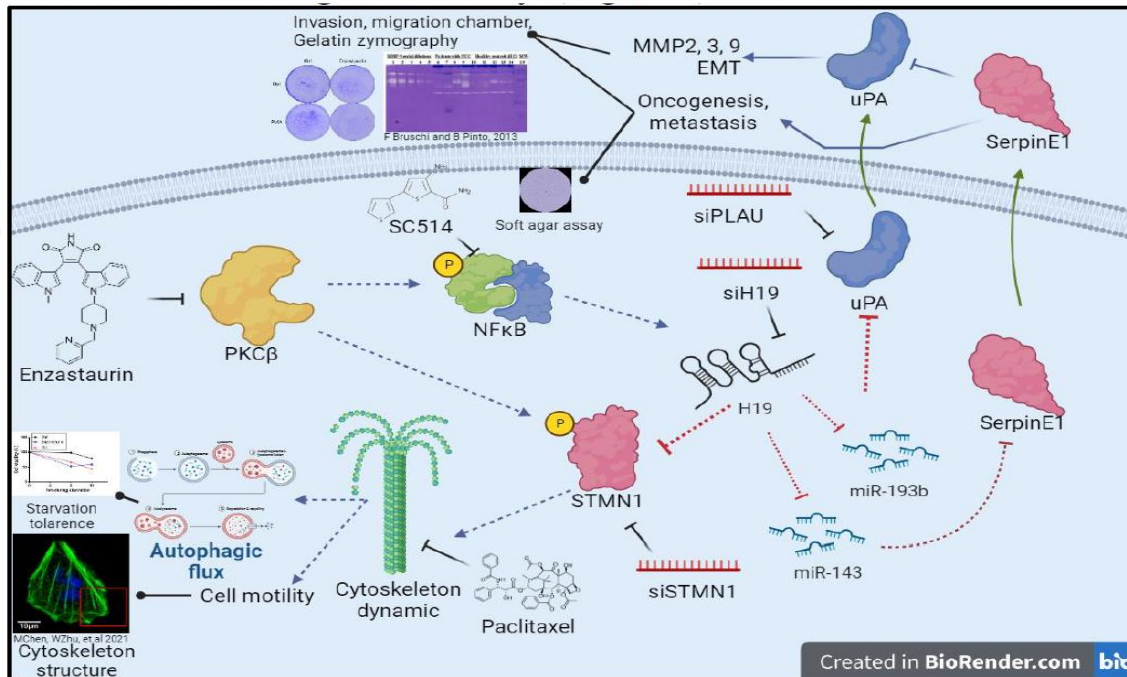
Scheme of the Study





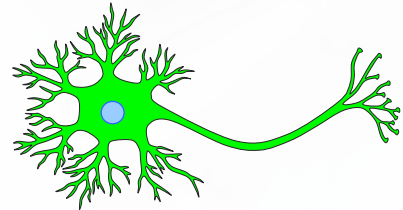
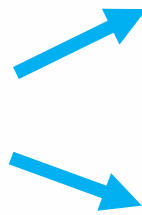
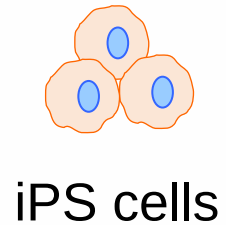
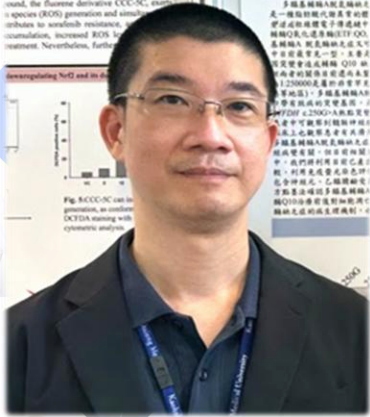
Ruei-Nian Li Microbiology Laboratory

- ❖ Courses offered : General Biology, Virology, Microbiology, Microbial Genetics, Modern Biotechnology
- ❖ Specialty : Microbiology, Virology, DNA methylation
- ❖ Research Interests : Antibacterial substances, Tumor Biology

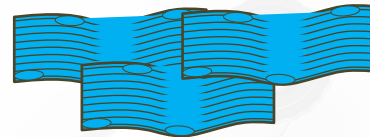


Chuang-Yu Lin Regenerative Biology Laboratory

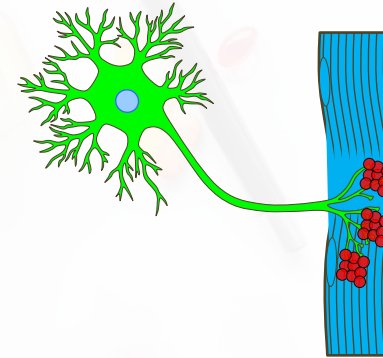
- ❖ Courses offered : Stem cell biology, Biological microscopy, Genetics, General biology
- ❖ Specialty : Stem Cell Biology, Tissue Engineering, Building *in vitro* Disease Model
- ❖ Research Interests : Investigating diseases related to the neuromuscular junction between skeletal muscles and motor neurons by establishing in vitro models to elucidate pathological mechanisms and explore potential therapeutic strategies.



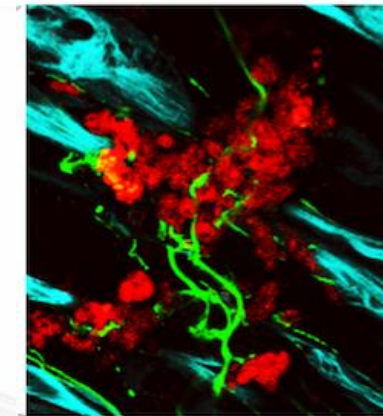
Motor neurons



Myotubes



NMJ formation





Research Areas

Environmental Biology

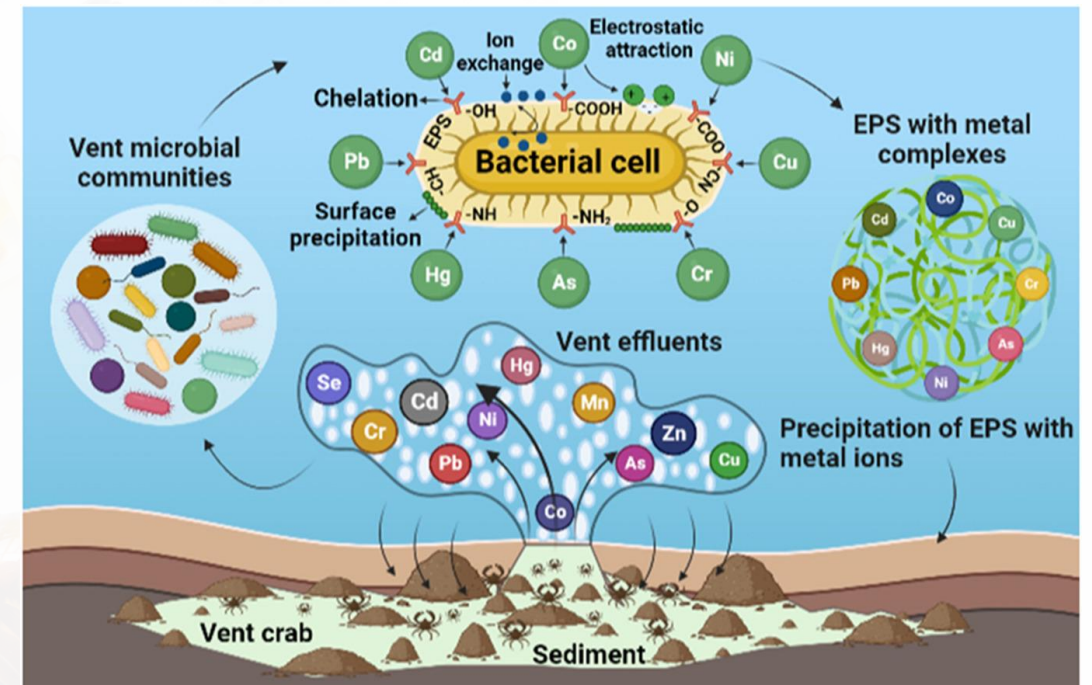




Hans-Uwe Dahms Environmental Toxicity Testing Laboratory

- ❖ Courses offered : Introduction to Environmental and Public Health Sciences 、 Vertebrate Zoology(Lab.) 、 Invertebrate Zoology(Lab.) 、 English Presentations in Science
- ❖ Specialty : Environmental and Public Health 、 Antibiotic Resistance 、 Toxicology 、 Biomarker 、 Monitoring 、 Integrative Approach
- ❖ Research Interests : Marine ecology, behavioral ecology, climate change

Johnthini Munir Ahamed, Hans-Uwe Dahms*, Yeou Lih Huang*
Heavy metal tolerance, and metal biosorption by
exopolysaccharides produced by bacterial strains isolated from
marine hydrothermal vents, Chemosphere 2024/01;351:1-
141170





Bao-Sen Shieh Acoustic Communication Laboratory

- ❖ Courses offered : **Animal Behavior** 、 **Behavioral Ecology**
- ❖ Specialty : **Animal Communication** 、 **Ornithology**
- ❖ Research Interest : **Invasive species, Acoustic adaptation in the city. Cultural evolution of bird songs**

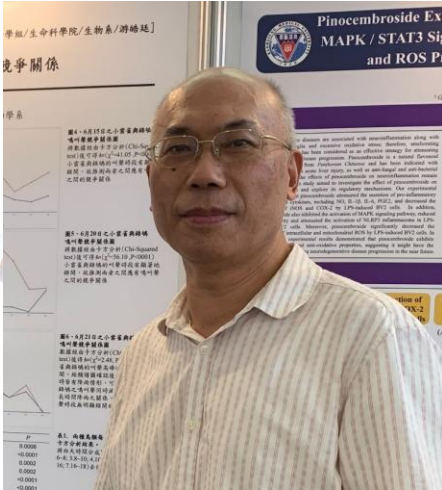
Shieh, Bao-Sen*, Liang, S-H, Chang, S C. 2025. Learning from the local: the variety and spatial pattern of vocal mimicry in songs of the invasive White-rumped Shama in Taiwan. R. Soc. Open Sci. 12: 241676. <https://doi.org/10.1098/rsos.241676>

Liang, S. H., Jen, C. H., Lee, L. L., Chen, C. C. & **Shieh, Bao-Sen***. 2024. Savanna Nightjars (*Caprimulgus affinis stictomus*) adjust calling height to gain amplitude advantage in urban environments. J. of Ornithology. DOI: <https://doi.org/10.1007/s10336-023-02142-z>

Shieh, Bao-Sen*, Liang, S.-H. & Jen, C.-H. 2023. Effect sizes of divergence in urban noise and song minimum frequency of grey-cheeked fulvetas *Alcippe morrisonia morrisonia*. J. of Avian Biology 2023: e03182. DOI: <http://doi.org/10.1111/jav.03182>

Liang, S. H., Lee, L. L., & **Shieh, Bao-Sen***. (2022). Female preference for song frequency in the cicada *Mogannia formosana* Matsumura (Hemiptera: Cicadidae). Behavioural Processes, 197: 104626.

Liang, S. H., Walther, B. A., Jen, C. H., Chen, C. C., Chen, Y. C. & **Shieh, Bao-Sen***. 2020. Acoustic preadaptation to transmit vocal individuality of savanna nightjars in noisy urban environments. Scientific Reports 10:18159.



Chen,Chao-Chieh Bird Ecology Laboratory

- ❖ Courses offered : Ornithology (+practice), Biostatistics (+practice), Special Topics on Experimental Design, Introduction of Biodiversity, Ecological Interpretation, General Biology, Evolution and life (General Education), Seminar (EMI), Service Learning.
- ❖ Specialty : Ornithology, Behavioral Ecology, Community Ecology
- ❖ Research Interests : Mixed-species bird flocks, Bird migration, Avian foraging behavior, Avian biodiversity monitoring and conservation.



① Mixed-species flocks

- Chen, C.-C.* , C.-C. Liao, and B. A. Walther. 2025. Influence of foraging guild on heterospecific preference of association in mixed-species bird flocks: distinguishing potential benefits for attendant species. *Journal of Ornithology* 166:145-156.
- Liao, C.-C., C.-C. Chen, R. D. Magrath. 2024. Asymmetric information in mixed-species mobbing flocks: why are leader species special? *Animal Behaviour* 210:383-393.
- Chen, C.-C.* , C.-C. Liao, and B. A. Walther. 2022. Interspecific competition and facilitation coexist in mixed-species bird flocks of montane coniferous forests in Taiwan. *Journal of Avian Biology* 2022: e02947.

② Bird migration

- Wu, I.-C., Y.-J. Cheng, H.-C. Lai, C.-C. Chen*. 2023. Migratory daily departure times of Chinese Sparrowhawks (*Accipiter soloensis*) and Gray-faced Buzzards (*Butastur indicus*) in Taiwan. *Journal of Raptor Research* 57(3):344-351.
- Chen, C.-C.* , J.-G. Lin, Y.-J. Cheng, T.-C. Chen, J.-S. Tsai, and Y.-H. Sun. 2022. Autumn migration of diurnal raptors across Kenting National Park, Taiwan, along the East-Asian Oceanic Flyway. *Journal of Raptor Research* 56(1):95-100.
- Chen, C.-C.* , J.-C. Wu, B. A. Walther, and P. J. Chiang. 2020. Nocturnal migration in the Tataka Area, Yushan National Park, Taiwan in autumn 2014. *Ornithological Science* 19:135-144.



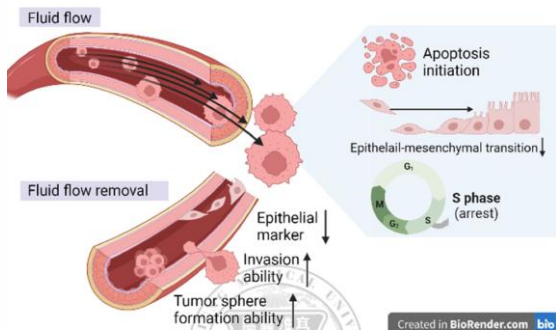
③ Avian acoustical ecology

- Chen, C.-C.* , J.-C. Wu, B. A. Walther, and P.-J. Chiang. 2020. Nocturnal migration in the Tataka Area, Yushan National Park, Taiwan in autumn 2014. *Ornithological Science* 19:135-144.
- Chen, C.-C.* , K.-H. Lin, Y.-H. Yang. 2019. Effect of call types on White-breasted Waterhen (*Amaurornis phoenicurus*) response to playbacks on Pratas Island, Taiwan. *Waterbirds* 42: 321-327.
- Liao, C.-C., B.-S. Shieh, C.-C. Chen*. 2018. Air temperature influenced the vocal activity of birds in a subtropical forest in southern Taiwan. *Taiwan Journal of Forest Science* 33(4):301-314.

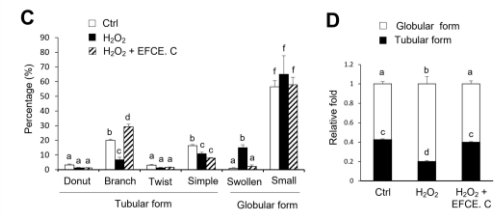
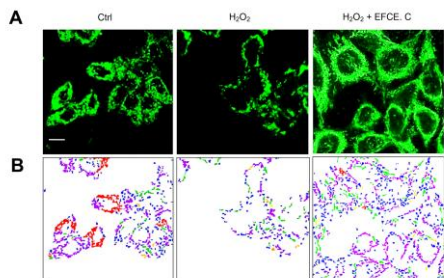


Bin Huang Mitochondrial Laboratory

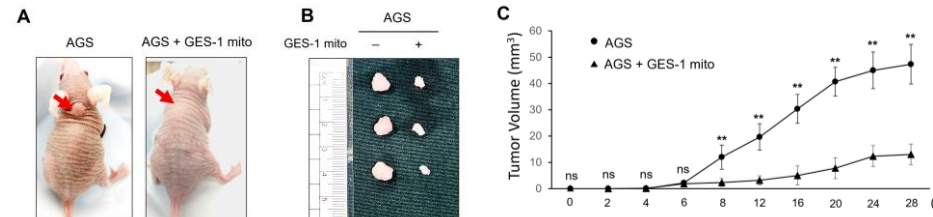
- ❖ Courses offered : Genomics, Plant tissue culture and genetic engineering, Plant Physiology, General Biology (Including Laboratory)
- ❖ Specialty : Mitochondrial transplantation, Nitric oxide, biomechanical force, Plant physiology
- ❖ Research Interests : Mitochondrial transplantation in regulating cancer malignancy, Mitochondria and neural regeneration, Shear flow/stretch modulating cellular physiology



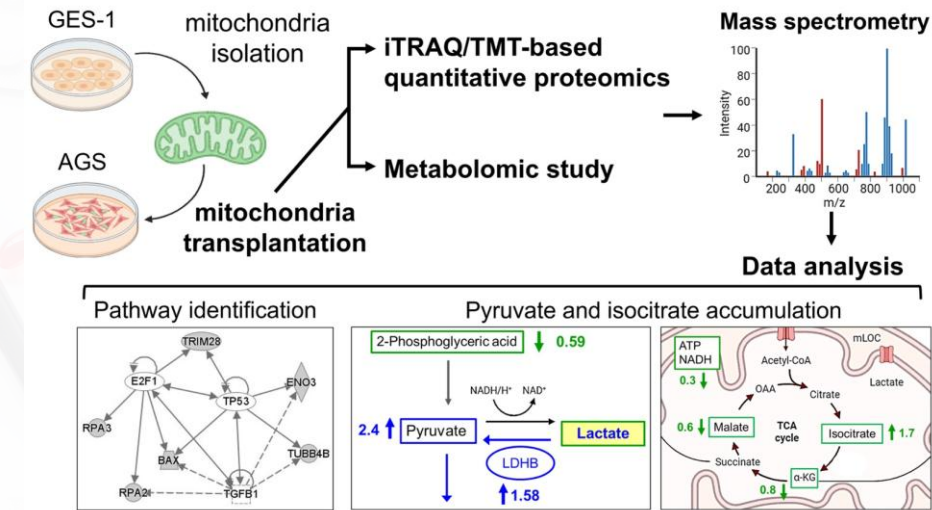
Mechanical shear flow regulates the malignancy of colorectal cancer cells (2024, KJMS)



The crude extract obtained from *Cinnamomum macrostemon* Hayata regulates the oxidative stress and mitophagy in keratinocytes

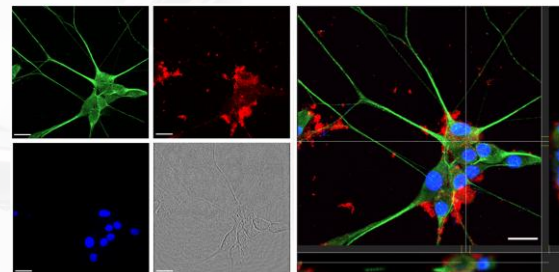


Transplanting mitochondria from gastric epithelial cells reduces the malignancy of gastric cancer (2024, Mitochondrion)



Proteomic and metabolomic studies of transplanted gastric epithelial cell mitochondria in reducing gastric cancer cell malignancy (2025, JPR)

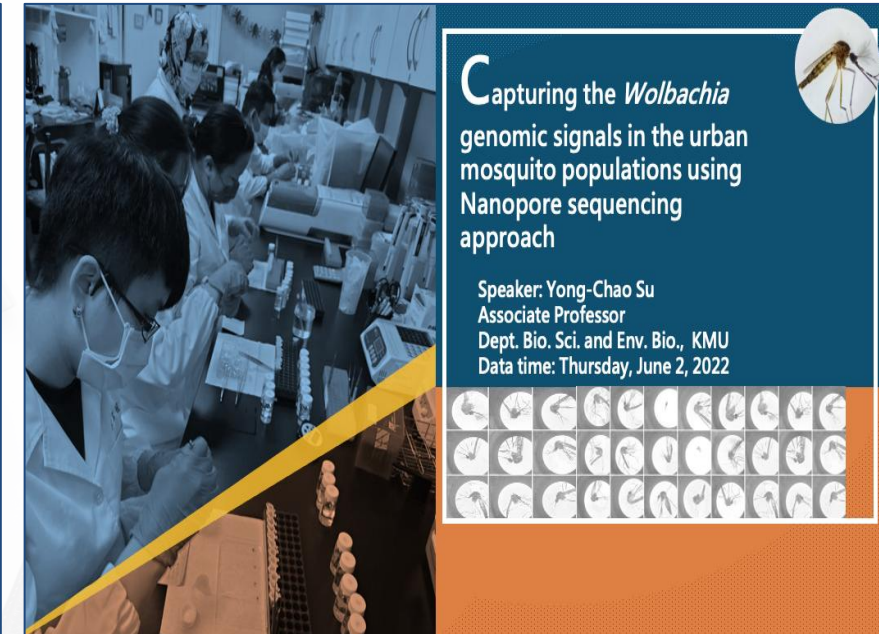
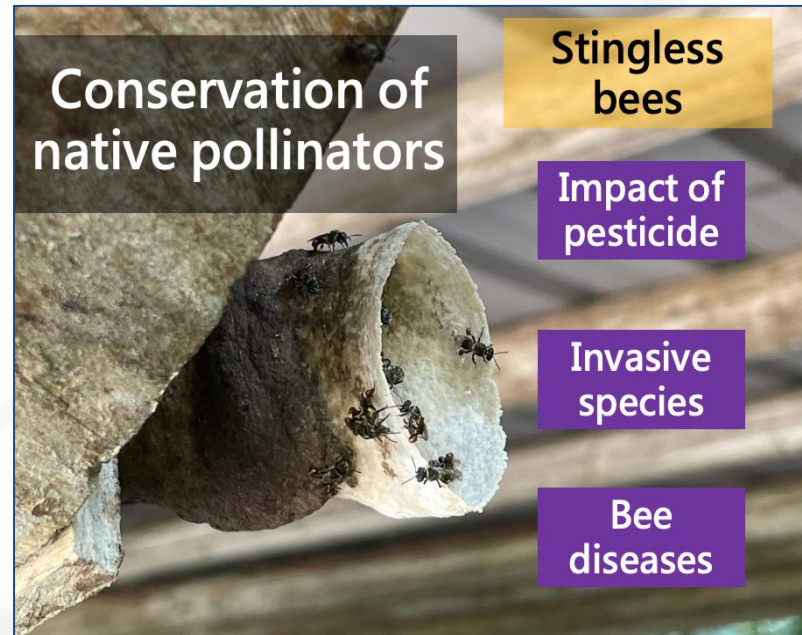
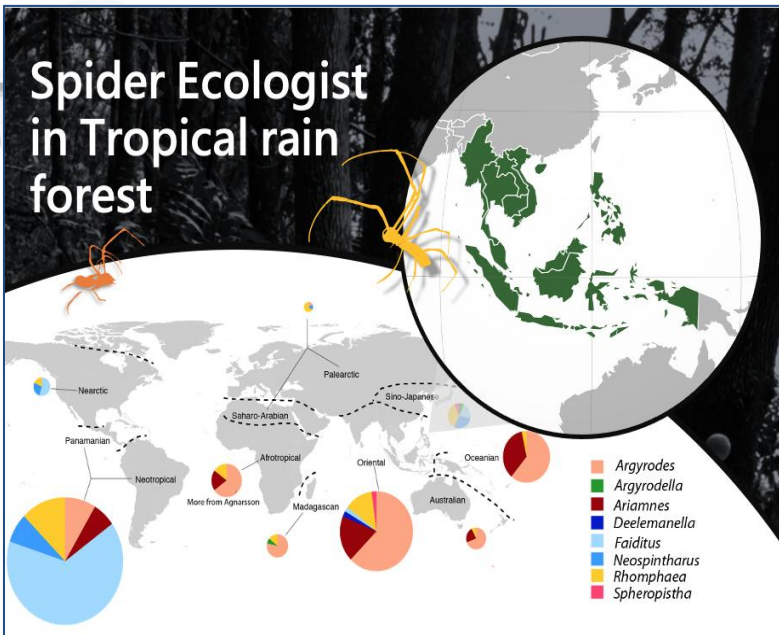
The regulatory effect of mitochondrial transplantation on neuronal functions.

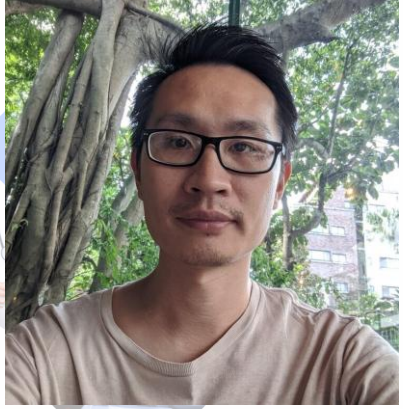




Yong-Chao Su Ecology & Evolution Genomics Laboratory

- ❖ Courses offered : Special Topics in Ecogenomics, Ecological Research Methods, Special Topics in Systems Genomics, Entomology, Special Topics in Advanced Biological Sciences Journals, Special Topics in Advanced Ecological Research Methods, Special Topics in Advanced Evolutionary Biology
- ❖ Specialty : Evolutionary genomics, genomic ecology, social behavior, biogeography, insect and arachnid biology
- ❖ Research Interests : The research team in our lab is interested in using genomic tools to answer questions in ecological adaptation, phylogenetics, biogeography, and functional trait evolution.





Chi-Yun Kuo

Behavioral & Evolutionary Ecology Lab

- ❖ Courses offered : Evolutionary Biology 、 Ecological Modelling 、 Research Methods in Ecology
- ❖ Expertise : Behavioral Ecology 、 Evolutionary Ecology 、 Ecological Modelling 、 Biostatistics
- ❖ Research topics : Personality-cognition coupling 、 Predator learning and warning signal diversity
- ❖ Lab website: <https://thekuolab.github.io>

How do animal personalities correlate with learning style?

Exploration

Fast explorers

Slow explorers

Dietary choosiness

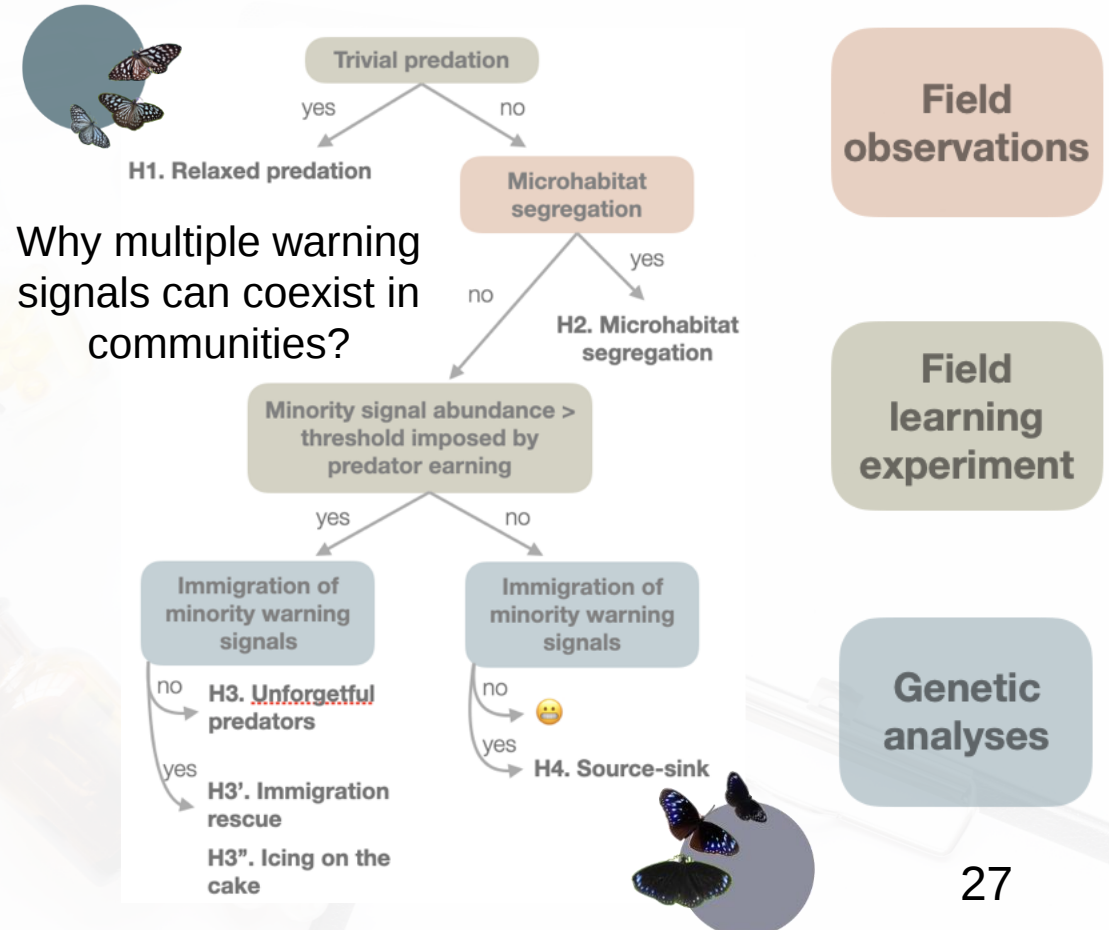
Less choosy eaters

More choosy eaters

Avoidance learning style

Fast, inflexible learning

Slow, flexible learning

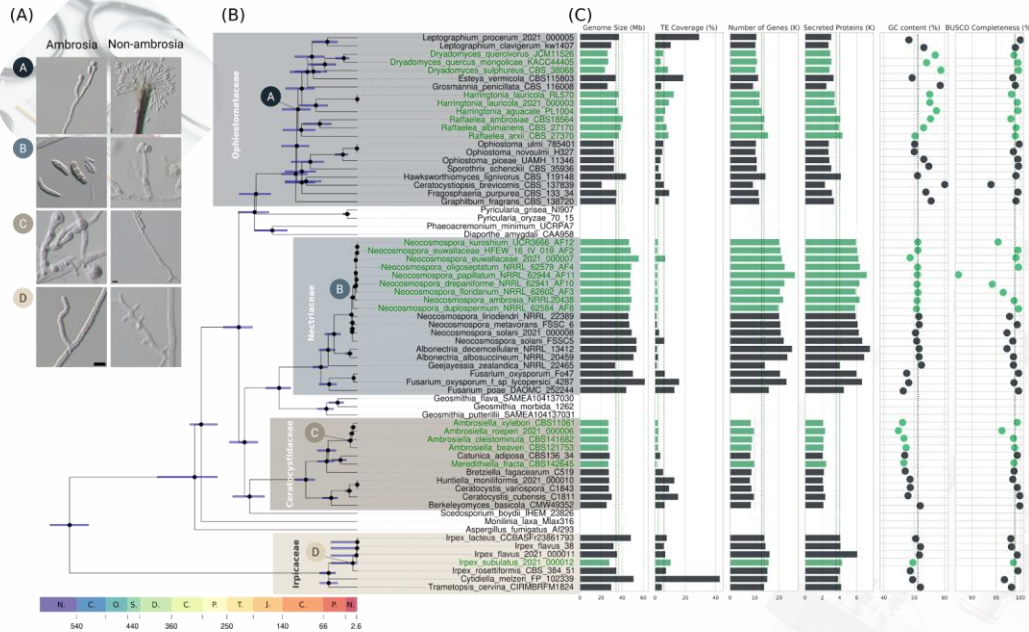
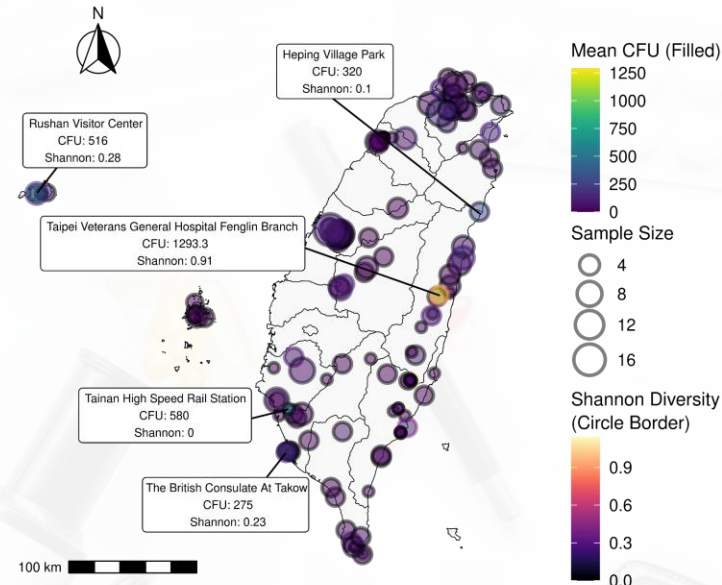


Yin-Tse Huang Microbial Ecology Laboratory

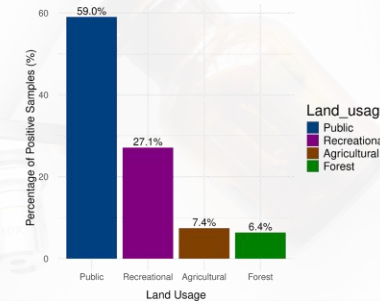
- ❖ Courses offered : Mycology, Symbiology, Literature Review
- ❖ Specialty : Mycology, Systematics and Evolution, Genomics, and Ecology
- ❖ Research Interests : Drug Resistance Development in Microbes, Environmental Opportunistic Microbiota, Mechanisms of Maintaining Microbial Symbiosis



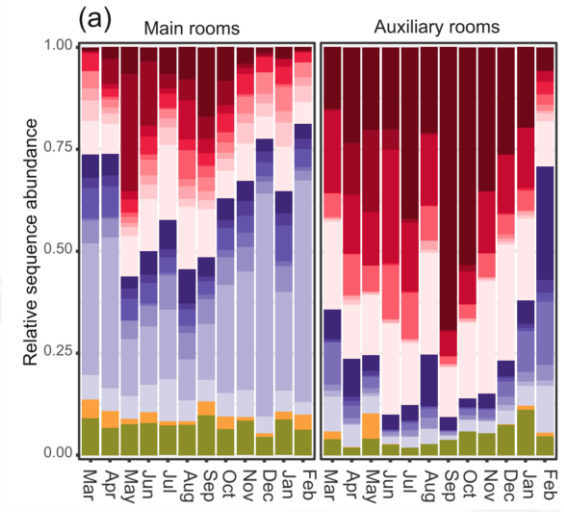
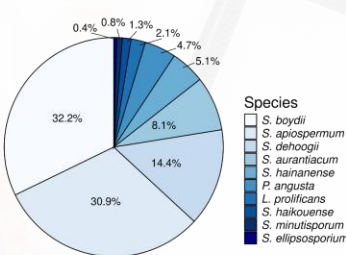
(A) Mean CFU and Shannon Diversity Distribution Across Taiwan



(B) Culture Positive Samples by Land Usage



(C) Species Occurrence Frequency



International achievements (2022-2025)

- Organize international co-teaching activities
- Host international speech
- Perform international academic exchange activities
- Participate in international conferences

International co-teaching

日期Date	演講者Speaker	題目Title	
2022.12.12- 2022.12.13	University of the Philippines Mindanao (Prof. Aleyla de Cadiz)	Evolution class Journal discussion class	
2022.12.19- 2022.12.20	Visayas State University, Philippines (Prof. Julissah Evangelio)	Bioinformatics training Ecological methods class	
2024.07.10	University of the Philippines Open University (Prof. Lorena Jean D.Saludadez) UP Asian Institute of Tourism (Dean Giovanni Francis A. Legaspi & Prof. Maria Carmela M. Ibanez & Prof. Reil G. Cruz)	International Lecture and Collaborative Teaching	

International co-teaching

日期Date	演講者Speaker	題目Title	
2024.10.15	University of the Philippines Los Baños (Prof. Gladys Cherisse J. Completo)	Integrative Studies in Evolution and Ecology	
2025.10.08- 2025.10.12	Bataan Peninsula State University, Philippines (Prof. John Ryan C. Dizon)	IUSR: Expanding from Regional Cooperation to Global Impact	
2025.10.08- 2025.10.12	University of the Philippines Open University (Prof. Lorena Jean D. Saludadez)	Cross-Sector Collaboration Models and Governance Challenges	

International speech

日期Date	演講者Speaker	題目Title	
2023.04.13	Katholieke Universiteit te Leuven, Belgium (Assoc. Prof. Wen-Hui Lien)	Roles of ROR2 in skin development, stem cell maintenance and tumorigenesis.	
2023.07.10	Directeur de Recherche en IRD, Montpellier, Occitanie, France (Prof. Dr. Juan-Carlos Molinero)	Biotic dynamics in a changing world - Compensatory dynamics and risks for environmental shifts	
2023.08.17	University of the Philippines Los Baños (Asst. Prof. Melvin A. Castrosanto)	Comparative Metabolomics of Philippine Traditional Maize Varieties in Response to Asian Corn Borer Feeding	

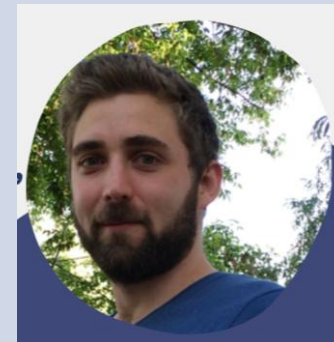
International speech

日期Date	演講者Speaker	題目Title	
2023.08.18	University of the Philippines Los Baños (Prof. Rochelle P. Ibabao)	Synthesis of carbon dots from coconut flour for the fluorescence sensing of Cu^{2+} in aqueous solutions.	
2023.11.06	Department of Zoology, School of Life Sciences, Bharathiar University, India (Prof. Kadarkarai Murugan)	Dengue Control through biological insecticides and for the sustainable management of non-targets	
2024.01.04- 2024.01.05	Department of Biology, University of Wisconsin- River Falls, USA Prof. Cheng-Chen Hunag)	Sharing the latest progress in related research	

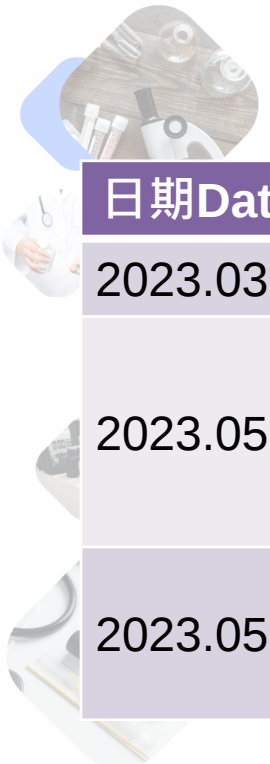
International speech

日期Date	演講者Speaker	題目Title	
2024.08.26	Department of Biology, University of Malaya, Malaysia (Dr. Daicus M. Belabut)	Amphibian Diversity and Conservation Challenges in Peninsular Malaysia : A comprehensive Overview	
2024.08.26	Department of Biology, University of Malaya, Malaysia (Dr. Noorhidayah binti Mamat)	In-depth Exploration of Dragonfly Importance and River Conservation	
2024.09.24	Department of infectious Diseases, Bharathiar University, India (Prof. Kadarkarai Murugan)	Will Climate Change Promote HIGH TROPICAL VECTOR-BORNE DISEASES in TAIWAN ?	

International speech

日期Date	演講者Speaker	題目Title	
2024.11.27	Royal Botanic Gardens, Kew, London Torda Varga (Future Leader Fellow)	The evolution of mushroom- forming fungi and medicinal mushrooms.	
2025.09.19	Department of Zoology, Bharathiar University, India (Prof. Kadarkarai Murugan)	Integrated Mosquito Vector Management Using Botanical, Microbial, and Nanoinsecticides: Laboratory and Field Investigations	

International academic exchange



日期Date	姓名Name	活動名稱Event Name
2023.03.12-03.19	Yong-Chao Su	2023 Taiwan Higher Education Fair Indonesia
2023.05.15-05.25	Chi-Yun Kuo	Visit to the Vietnam National Institute of Ecology and Biological Resources and the University of Malaya Faculty of Science
2023.05.18	Hsueh-Wei Chang Yong-Chao Su	2023 KMU–Philippines Bilateral Exchange Meeting and MOU Signing Ceremony

International academic exchange

日期Date	姓名Name	活動名稱Event Name
2023.08.05-08.16	Yong-Chao Su	Philippine University Exchange Visit and Field Ecology Survey Program
2023.08.11-08.18	Bin Huang	2023 Taiwan Higher Education Fair Indonesia
2023.08.14-08.23	Chi-Yun Kuo	2023 Overseas Internship Program Studying Butterfly Wing Pattern Diversity Using CRISPR-Cas9 Technology
2024.01.08-01.11	Hsueh-Wei Chang Yong-Chao Su	URS Philippines Bilateral Exchange Meeting Workshop Sign a MOU with URS University

International academic exchange



日期Date	姓名Name	活動名稱Event Name
2024.01.16-01.21	Yong-Chao Su	2024 Project LAKBAY(Journey in English camp)
2024.02.19-02.23	Chi-Yun Kuo	Taiwan-Malaysia International Indigenous Observation and Biological Field Survey
2024.03.10-03.18	Yong-Chao Su	“Namaxia and International Indigenous Sustainable Development Project” Philippine Indigenous Beekeeping Training and Ecological Survey Workshop

International academic exchange

日期Date	姓名Name	活動名稱Event Name
2024.04.11	Hsueh-Wei Chang Yong-Chao Su	2024 USR Joint Capacity-Building Activity Signing Ceremony and Activity Briefing Session
2024.04.14-04.20	Yong-Chao Su	2024 Ministry of Education USR Promotion Center Visit to Japan
2024.06.15-06.21	Yong-Chao Su	2023 Dream Pursuit Internship Program (Evolutionary Genomics Talent Development Program)

International academic exchange



日期Date	姓名Name	活動名稱Event Name
2024.08.03-08.11	Bin Huang	2024 Taiwan Higher Education Fair Indonesia
2024.08.28-08.30	Yong-Chao Su	MOU Signing with University of the Philippines Manila
2024.10.10	Yong-Chao Su	Online MOU Signing with Eastern Visayas State University(EVSU)
2024.12.09	Yong-Chao Su	Hosting Dr. Geraldine Dayrit and Delegation from the University of the Philippines Manila and Discussing the MOU Signing
2024.12.26	Yong-Chao Su	Hosting Dr. Glean Gregorio, SEARCA Chair, and Delegation

International academic exchange



日期Date	姓名Name	活動名稱Event Name
2025.01.14-01.16	Yong-Chao Su	Visit to UP Manila for International Collaboration Discussions
2025.02.04-02.14	Yong-Chao Su	2025 Project LAKBAY(Journey in English)
2025.03.26-03.30	Yong-Chao Su	Collaboration with the University of the Philippines on Genomics-Related Technologies (NSC Project), UP Diliman

International academic exchange

日期Date	姓名Name	活動名稱Event Name	活動內容Activity
2024.04.06-04.09	Yong-Chao Su	Implementing the USR Namasia Project of this university - Conducting training and ecological survey workshops on Philippine native beekeeping.	UP Los Banos
2025.04.08	Yong-Chao Su	Fostering Innovation Through Collaborative Academia and Industry: Advancing Smart City and AIoT Healthcare Solutions between the Philippines and Taiwan	Centro Escolar University (CEU)
2025.05.22-05.25	Yong-Chao Su	2026 Taiwan–Philippines (NSTC-DOST) Bilateral Agreement International Collaborative Research Project	Phase 1 – Project Title: Enhancing Stingless Bee Farming Efficiency through Smart Agriculture, Pan-Genomics, and Edge AIoT Technologies

International academic exchange

日期Date	姓名Name	活動名稱Event Name
2025.10.13-10.14	Yong-Chao Su	2025 International Industrial Talent Education Program Philippine Education Expo
2025.10.15-10.16	Yong-Chao Su	GSTA × UPOU International Master's Program Curriculum Design Meeting

International Conference

日期Date	姓名Name	研討會名稱 Conference	論文名稱 Paper title
2022.07.21	Chi-Yun Kuo	2022 Animal Behavioral Society Annual Meeting, USA	Resolving the paradox of warning signal diversity with predator learning
2023.07.11-07.15	Chi-Yun Kuo	2023 Animal Behavioral Society Annual Meeting, Portland	Intricate covariation between exploration and avoidance learning in a generalist predator
2023.10.27-11.01	Bao-Sen Shieh	The XXVIII International Bioacoustics Congress, Japan	Vocal mimicry in songs of invasive White-rumped Shamas in Taiwan)
2023.11.07	Yong-Chao Su	2023 KMU–BPSU Bilateral Exchange Meeting, Taiwan	2023 KMU–BPSU Bilateral Exchange Meeting
2023.11.29-11.30	Chuang-Yu Lin	CiRA 2023 International Symposium, Japan	The conditioned medium from neuromuscular junction differentiation can transform the fibroblast cells to neuron cells(Poster presentation)

International Conference

日期Date	姓名Name	研討會名稱 Conference	論文名稱 Paper title
2024.03.17-03.21	Bao-Sen Shieh	The 71 st Annual Meeting of the Ecological Society of Japan	The Temporal Pattern of Vocal Mimicry in Songs of Invasive White-rumped Shamas in Taiwan
2024.05.29-05.31	Yong-Chao Su	Association of Systematic Biologists of the Philippines International Symposium and 41st Annual Meeting	Association of Systematic Biologists of the Philippines International Symposium and 41st Annual Meeting
2024.07.10-07.12	Pei-Feng Liu	10th Asia-Pacific Gastroesophageal Cancer Congress, held in conjunction with the Singapore Gastric Cancer Consortium's 15th Annual Scientific Meeting	Neuregulin-1 (nrg1) modulates signaling for autophagy and malignancy of esophageal squamous cell carcinoma]
2024.06.25-06.29	Chi-Yun Kuo	Animal Behavior Society Meeting, London	Exploration correlates with dietary choosiness and avoidance learning style in a generalist predator

International Conference

日期Date	姓名Name	研討會名稱 Conference	論文名稱 Paper title
2024.11.15-11.17	Chi-Yun Kuo	Taiwan-Japan Ecology Workshop 2024, Japan	Resolving the paradox of local warning signal diversity: possible resolutions and a framework for hypothesis testing
2025.03.15-03.18	Bao-Sen Shieh	The 72 nd Annual Meeting of the Ecological Society of Japan	Acoustic Comparison of Two Invasive Myna Species in Taiwan
2025.07.08-07.12	Chi-Yun Kuo	Animal Behavior Society 2025 Meeting, USA	What determines the level of predator avoidance towards unprofitable prey? A meta-analysis.
2025.07.13-07.18	Pei-Feng Liu	Lactic Acid Bacteria Biology, Symbioses and Applications Gordon Research Conference, USA	Identification of plant-derived compounds against antibiotic-resistant non-typhoidal Salmonella

Collaboration Strengths

- **Strong partnerships** with international universities and research institutions.
- Joint **teaching** and **visiting faculty programs** with global experts.
- Active **international exchange opportunities** for students and researchers.
- Frequent **speech** from leading scientists worldwide.
- **Collaborative research projects** connecting academia, industry, and government.

Further Directions

- **Expand Global Partnerships**

- More collaborations with top universities, dual-degree programs, and co-teaching initiatives.

- **Advance Research & Innovation**

- Support interdisciplinary research, student-led projects, startups, and patents.

- **Enhance Career Opportunities**

- Increase internships, co-ops, and industry collaborations in emerging fields.

- **Strengthen Alumni & Mentorship Networks**

- Build a global network for mentoring, career guidance, and professional connections.

- **Boost International Recognition & Impact**

- Host international conferences, publish high-impact research, and increase global collaborations.

More information about our department

Website of Department of
Biomedical Science and
Environmental Biology



Department Information QR Code



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