

List of NPUST Faculty Member Willing to Host UNTA Member for Short Term Research and Interest Research Area

No.	Name	Title	Department	Email	Phone	Number of Expected Guest	Proposed Period of Stay	Expertise	Research Fields	Faculty Teaching Website
1	Wu-Jang Huang	Professor	Dept. of Environmental Science and Engineering	w Huang@mail.npu.edu.tw	886-8-7703202#7076	2 or 3	2018 15th June to 30th August.	1. Preparation and application of novel carbon materials. 2. Recycling and treatment of solid wastes. 3. Biological toxicity test. 4. Chemistry.	1. Biochar 2. Biomass Graphene 3. Liquid Fertilizer from arg. Wastes	https://goo.gl/rP2rDy
2	Li-Hsin Wu	Asst. Professor	Department of Plant Medicine	lihsinwu@gmail.com	886-9-05533097	2	2018 August to September (1 month)	Biological Control/Climate Change and species modelling	1. Parasitism by Trichogramma wasp: potential and reality under climate change scenario focusing on Asian corn borer and its Trichogramma parasitoids 2. Interactions between Trichogramma and its endosymbionts Wolbachia under extreme climate change 3. The Latest Innovations in Pest Control Technology - Application of Alkaline Materials	
3	Cheng-Jung Yang	Asst. Professor	Department of Mechanical Engineering	cjyang@mail.npu.edu.tw	886-8-7703202#7012	1	2018 August to September (1 month)	1. 3D Printing 2. Life Cycle Assessment 3. Product Design		
4	Jie-Lun Chiang	Assoc. Professor	Dept. of Soil and Water Conservation	jchiang@mail.npu.edu.tw	886-8-7703202#7386	2	2018 20th June to 30th September (3 to 8 weeks)	1. Climate change impact on soil and water resources 2. spatial-temporal process modeling 3. remote sensing image processing 4. environment information analysis 5. monitoring-network design, water resource management and remote sensing applications to soil and water conservation		https://goo.gl/W7tB7Z
5	Shao-Yu Peng	Asst. Professor	Department of Animal Science	sypeng@mail.npu.edu.tw	886-8-770320#6198	3 to 5	2018 July to September	1. Animal husbandry. 2. The application of stem cells and regenerative medicine in animals. 3. Reproductive physiology and reproductive disorders and treatment of bovine mastitis. 4. The construction of wisdom pig and cow houses. 5. Animal husbandry waste water and recycling economy. 6. Research and development of feed probiotics.	1. Stem Cells, Regenerative Medicine and Experimental Animal Research. 2. Ultrasonic Testing and Treatment of Animal Reproductive Disorders. 3. Treatment of Mastitis and Detection of Milk Quality. 4. Animal breeding technology and sperm, egg, embryo operation technology. 5. Smart agriculture and smart farm construction. 6. Livestock Husbandry Waste and Waste Treatment and Circular Economy R&D. 7. Research and development of animal medical equipment.	https://goo.gl/3CHK7T
6	Jue-Liang Hsu	Professor	Department of Biological Science & Technology	jhsu@mail.npu.edu.tw	886-8-7703202#5197	1	2018 August to 31st August	1. Biotechnology 2. Natural Products 3. System Biology (Proteomics & Metabolomics) 4. Functional Foods 5. Analytical Chemistry 6. Mass spectrometry	This lab aims to develop novel and efficient platforms for biochemical applications, in particular, the screening and functional evaluation of biological active proteins, peptides and natural products. Current research topics of this lab include: 1. Functional evaluation of natural products, in particular those with potential antihypertensive, antidiabetic, anti-inflammatory effects. 2. Natural product analysis and molecular docking simulation assisted activity screening. 3. Novel analytical platforms for lipidomics.	https://goo.gl/NpFXnA
7	Hsueh-Ling Cheng	Professor	Department of Biological Science and Technology	hcheng@mail.npu.edu.tw	886-8-7703202#5186	1	2018/2019 July to September	1. Protein Engineering 2. Cell Biology 3. Molecular Biology	1. Anti-diabetic natural compounds 2. Anti-inflammatory natural compounds 3. Bitter-taste receptors related to anti-diabetes 4. Enzymes for bioenergy	https://goo.gl/sDdaNL

8	Yu-Hung Lin	Professor	Department of Aquaculture	yuhunglin@mail.npust.edu.tw	88687703202#6371	3 to 5	2018 July to August	<ol style="list-style-type: none"> 1. Fish and shrimp nutrition 2. Feed additives 3. Functional feed 4. Fish physiology 	<ol style="list-style-type: none"> 1. Selection and evaluation of alternative plant protein feedstuff 2. Development of functional feed additives for health management 3. Application of feed additives in high-plant feedstuff diet 4. Basic nutrient requirements of specific species 	https://goo.gl/ygdak2
9	Douglas JH Shyu	Assoc. Professor	Department of Biological Science and Technology	dshyu@mail.npust.edu.tw		1	2018 July to September	<ol style="list-style-type: none"> 1. Enzyme biotechnology 2. Plant Biotechnology 3. Functional Genomics 4. Gene Expression and Regulation 	<ol style="list-style-type: none"> 1. Application of enzymes and their inhibitors - Protease, lipase 2. Plant key enzymes of functional compounds - Antidepressants, GABA, resveratrol 3. Environmental metagenome and microbiome <ul style="list-style-type: none"> - Development of biological control agents - Monitoring and control of environmental hazards - Regulation and disruption of cell-to-cell communication (quorum sensing and quorum quenching) 	https://goo.gl/LW6YBT
10	Jyh Jian Chen	Professor	Department of Biomechatronics Engineering	chaucer@mail.npust.edu.tw	886-9-2876662	2	2018 1st July to 30th September	<ol style="list-style-type: none"> 1. Heat and mass transfer 2. Biomechatronics 3. Internet of Things 	<ol style="list-style-type: none"> 1. Portable nucleic acid analysis platform 2. Intelligent animal farm monitoring 	https://goo.gl/FwK2E1