

2025 7th Tzu Chi-Academia Sinica International Forum for Biomedical Sciences (TCASB)

Date & Time:

March 7, 2025 (Friday): 2:00 PM – 5:50 PM (Venue: B101, He Jing Building, Tzu Chi University)

March 8, 2025 (Saturday): 8:00 AM – 5:00 PM (Venue: B106, He Jing Building, Tzu Chi University)

March 7, Friday_B101

TIME	MINS	CONTENT
14:00-14:20	20	Registration
14:30-14:40	10	Opening Remarks_曾俊傑研發長 (Chun-Chieh Tseng/ Dean of Research and Development, Tzu Chi University)
Moderator: 曾俊傑研發長 (Chun-Chieh Tseng/ Dean of Research and Development, Tzu Chi University) Leu Kim Fey (Leu Kim Fey/ Lecturer, Department of Chinese Medicine, FMHS in Universiti Tunku Abdul Rahman (UTAR))		
14:40-14:52	12	【P01】 The study in the penetration mechanisms of cell-penetrating peptide in mouse BBB cells 劉瑞霖副教授 慈濟大學醫學檢驗生物技術學系 Betty Revon Liu/ Associate Professor, Department of Laboratory Medicine and Biotechnology, Tzu Chi University
14:52-15:04	12	【P02】 Peptides Derived from CXCL12 Based on In Silico Analysis Alleviates CXCL12 Induced A549 Cell Progression 江信仲副教授 慈濟大學生化學科 Shinn-Jong Jiun/ Associate Professor, Department of Biochemistry, Tzu Chi University
15:04-15:16	12	【P03】 Modulation of protein stability of different ribonucleotide reductase subunits 李惠春副教授 慈濟大學生化學科 Hui-Chun Li/ Associate Professor, Department of Biochemistry, Tzu Chi University
15:16-15:28	12	【P04】 The molecular mechanism study of AQP family in colorectal cancer 曾若嘉副教授 慈濟大學分子生物暨人類遺傳學系 Ruo-Chia Tseng/ Associate Professor, Department of Molecular Biology and Human Genetics, Tzu Chi University
15:28-15:40	12	【P05】 Isolation and identification of active ingredients in traditional Chinese

TIME	MINS	CONTENT
		medicine catechu 陳灝平教授 慈濟大學生化學科 Hao-Ping Chen/ Professor, Department of Biochemistry, Tzu Chi University
15:40-15:52	12	【P06】 Exposure to Indoor Air Pollutants and Insecticide in Residential Environments and Its Impact on Children's Health 謝佳容副教授 慈濟大學公共衛生學系 Chia-Jung Hsieh/ Associate Professor, Department of Public Health, Tzu Chi University
15:55-16:10	15	Break
Moderator: 林祝君副研發長 (Zu-Chun Lin/ Associate Dean of Research and Development, Tzu Chi University) Jennifer S. Florida (Jennifer S. Florida/ Far Eastern University, Philippines)		
16:10-16:22	12	【P07】 Potential by estrogen of nociceptive transmission in rats 賴志嘉教授 慈濟大學藥理暨毒理學碩、博士班 Chih-Chia Lai/ Professor, Master Program/PhD Program in Pharmacology and Toxicology, Tzu Chi University
16:22-16:34	12	【P08】 <i>Akkermansia muciniphila</i>: revealing its unexpected role in schistosomiasis 林皓然助理教授 慈濟大學生化學科 Ho Yin Pekklee Lam/ Assistant Professor, Department of Biochemistry, Tzu Chi University
16:34-16:46	12	【P09】 The pivotal role of arachidonic acid-induced ferroptosis in the early stage of cardiac ischemia/reperfusion injury 楊昆達教授 慈濟大學生理學科 Kun-Ta Yang/ Professor, Department of Physiology, Tzu Chi University
16:46-16:58	12	【P10】 Kisspeptin is involved in restraint-induced neuronal activation in the paraventricular nucleus 袁宗凡助理教授 慈濟大學生理學科 Zung-Fan Yuan/ Assistant Professor, Department of Physiology, Tzu Chi University
16:58-17:10	12	【P11】 Confirmative involvement of ANAC003 in Tic55-mediated signaling pathway of leaf senescence 林麗鳳副教授 慈濟大學生物醫學暨工程學系 Lee-Fong Lin/ Associate Professor, Department of Biomedical Sciences and Engineering, Tzu Chi University

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17:10-17:22	12	【P12】 From the Perspective of Social Inclusion to Construct Inclusive Parent Child Centers 鄭雅莉副教授 慈濟大學兒童發展與家庭教育學系 Ya-Li Cheng/ Associate Professor, Department of Child Development and Family Studies, Tzu Chi University

March 8, Saturday_B106

TIME	MINS	CONTENT
07:50-08:10	20	Registration
08:10-08:20	10	Opening Remarks: 劉怡均校長 (Ingrid Y Liu/ President, Tzu Chi University)
Moderator: 劉怡均教授 (Ingrid Y Liu/President, Tzu Chi University)		
08:20-09:00	40	【K01】 Keynote Speech AI-Powered Life Sciences: Transforming Biological Research Daesoo Kim/ Dean, The College of Life Sciences & Bioengineering, KAIST
Moderator: 蔡昇宗教授 (Sheng-Tzung Tsai/ Professor, Department of Neurosurgery, Hualien Tzu Chi Hospital, Buddhist Tzu Chi Medical Foundation) 黃聖耀醫師 (Sheng-Yao Huang/ Division chief, Division of Radiation Therapy, Department of Radiation Oncology, Hualien Tzu Chi Hospital, Buddhist Tzu Chi Medical Foundation) 謝宗成教授 (Tsung-Cheng Hsieh/ Professor, Institute of Medical Sciences, Tzu Chi University)		
09:00-09:20	20	【A01】 AIThaiGen: AI learning platform and tool for developing rehabilitation games Panrasee Ritthipravat /Associate Professor of Department of Biomedical Engineering, Mahidol University
09:20-09:40	20	【A02】 AI-Driven Classification of Sleep-Related Breathing Events Using ECG and EEG Signals with Wavelet Transform and Deep Learning Approaches Tran Ngoc Dang/ Vice director, Grant and Innovation Center, University of Medicine and Pharmacy Ho Chi Minh City: Ho Chi Minh City, Vietnam
09:40-10:00	20	【A03】 CraNeXt: ConvNext-based Automatic Reconstruction of Skull Implants Titipat Achakulvisut/ Lecturer at Department of Biomedical Engineering, Mahidol University
10:00-10:20	20	Break & Group photo
Moderator: 許豪仁教授 (Hao-Jen Hsu/ Professor and Chairman, Department of Biomedical Sciences and Engineering, Tzu Chi University) 張顯洋副教授 (Shien-Young Chang/ Associate Professor, Institute of Medical Science, Tzu Chi University) 李茹萍教授 ((Ru-Ping Lee/ Professor, Institute of Medical Sciences, Tzu Chi University)		
10:20-10:40	20	【A04】 Development and Application of AI/Bioinformatics in genetic & genomic testings in Vietnam Pham Dinh Minh/ Visiting Lecturer, Vietnam Academy of Science and Technology ; R&D Director, Gentis-Eurofins Vietnam

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10:40-11:00	20	【A05】 AI-Driven Healthcare: Real-Time Drowsiness Risk Assessment Using Multi-Modal Physiological Big Data Jetsada Arnin/ Lecturer at Department of Biomedical Engineering, Mahidol University
11:00-11:20	20	【A06】 Depression and anxiety mediating the link between social and biological factors and quality of life in Indonesia: A structural equation modelling Herni Susanti/ Professor of Department of Mental Health Nursing, University of Indonesia
Moderator: 溫秉祥副教授 (Peng Yeong Woon/Chairman, Department of Molecular Biology and Human Genetics, Tzu Chi University) 張孟雅副教授 (Meng-Ya Chang/ Associate Professor, Institute of Medical Sciences, Tzu Chi University)		
11:20-11:40	20	Two Minutes Poster Presentation(碩士班_Master Students)
11:40-12:00	20	Two Minutes Poster Presentation(博士班_Ph.D. Students)
12:00-13:30	90	Poster Session & Lunch
Moderator: 張中興教授 (Chung-Hsing Chang/ Professor, Doctoral Degree Program in Translational Medicine, Tzu Chi University and Academia Sinica)		
13:30-14:10	40	【K02】 Keynote Speech The roles of Langerhans cell in HIV infection and zinc deficiency Tatsuyoshi Kawamura/ Vice Director of Yamanashi University Hospital, Vice Dean of the Faculty of Medicine, University of Yamanashi
Moderator: 林念聰教授 (Nien-Tsung Lin/ Professor, Department of Microbiology & Immunology, Tzu Chi University) 鄭敬楓教授 (Ching-Feng Cheng/ Professor, Taipei Tzu-Chi Hospital)		
14:10-14:30	20	【A07】 Artificial intelligence in microbiome research with a hands-on narrative 曾景鴻博士/ 微菌方舟生物科技股份有限公司 Ching-Hung Tseng/ General manager and Chairman of the Board, Germark Biotechnology
14:30-14:40	10	【TA01】 Establishment of Tzu Chi Cohort Study to Explore the Interaction between Aging, Diets, Microbiota, and Disease risk 林光慧教授 慈濟大學微生物學科 Guang-Huey Lin/ Professor, Department of Microbiology & Immunology, Tzu Chi University
14:40-14:50	10	【TA02】 Development of rapid diagnostic tests for pediatric infectious diseases

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		羅時燕教授 慈濟大學醫學檢驗生物技術學系 Shih-Yen Yo/ Professor, Department of Laboratory Medicine and Biotechnology, Tzu Chi University
14:50-15:00	10	【TA03】 Investigation of skin microbiome and metabolome in seborrheic dermatitis 張中興教授 慈濟大學轉譯醫學博士學位學程 Chung-Hsing Chang/ Professor, Doctoral Degree Program in Translational Medicine, Tzu Chi University and Academia Sinica
15:00-15:20	20	Break
Moderator: 蔡榮坤教授 (Rong-Kung Tsai/ Director, Institute of Medical Sciences, Tzu Chi University)		
15:20-16:00	40	【K03】 Keynote Speech Roles of acid-sensing ion channels in sngception 陳志成特聘研究員 中央研究院生物醫學科學研究所 Chih-Cheng Chen/ Distinguished Research Fellow, Institute of Biomedical Sciences, Academia Sinica
Moderator: 陳志成研究員 (Chih-Cheng Chen/ Distinguished Research Fellow, Institute of Biomedical Sciences, Academia Sinica) 王鴻俊助理教授 (Hung-Jung Wang/ Assistant Professor, Institute of Medical Sciences, Tzu Chi University) 洪智煌助理教授 (Chih-Huang Hung/ Assistant Professor, Institute of Medical Sciences, Tzu Chi University)		
16:00-16:10	10	【TA04】 Role of P-selectin/P-selectin glycoprotein ligand-1 (PSGL-1) axis-dependent platelet-to-epithelial cell regulations on the protection of restraint stress-induced gastrointestinal injury 張新侯教授 慈濟大學分子生物暨人類遺傳學系 Hsin-Hou Chang / Professor, Department of Molecular Biology and Human Genetics, Tzu Chi University
16:10-16:20	10	【TA05】 POMGnT1 deficiency causes retinal degeneration by triggering RIP-1-dependent necroptotic cell death in a murine model 黃舜平教授 台中慈濟醫院 Shun-Ping Huang/ Professor, Taichung Tzu-Chi Hosptial
16:20-16:30	10	【TA06】 Exploring Anti-Obesity Drugs for Cancer Therapy: Example in Prostate Cancer Research 鄭敬楓教授 台北慈濟醫院 Ching-Feng Cheng/ Professor, Taipei Tzu-Chi Hosptial
16:30-16:40	10	【TA07】

TIME	MINS	CONTENT
		<i>Clematis montana</i> Promotes Bone Formation in a Zebrafish Osteoporosis Model 林明德教授 慈濟大學分子生物暨人類遺傳學系 Ming-Der Lin/ Professor, Department of Molecular Biology and Human Genetics, Tzu Chi University
16:40-16:50	10	【TA08】 Multifaceted Functional Liposomes: Theranostic Potential of Liposomal Indocyanine Green and Doxorubicin for Enhanced Anticancer Efficacy and Imaging 蕭仲凱教授 台北慈濟醫院 Jong-Kai Hsiao/ Professor, Taipei Tzu-Chi Hospital
17:00		Poster Award & Closing Remarks 張中興教授 (Chung-Hsing Chang/ President of Conference)
18:00-20:00	120	歡迎晚會(Welcome Banquet)_同心圓餐廳