

# 2022 5th Tzu Chi-Academia Sinica International Forum for Biomedical Sciences (TCASB)

Date: December 16 (Friday) - 17 (Saturday), 2022

Venue: Room B106, **He Jing Building**, Tzu Chi University  
慈濟大學和敬樓 B106

## Dec. 16, Friday

TIME	MINS	CONTENT
08:30-08:50	20	Registration
08:50-09:00	10	Opening Remarks: 劉怡均校長 (Ingrid Y Liu/President, Tzu Chi University)
Moderator: 張中興教授 (Dr. Chung-Hsing Chang/Professor, Doctoral Degree Program in Translational Medicine, Tzu Chi University and Academia Sinica) 陳宗鷹教授 (Tsung-Ying Chen/Dean, College of Medicine, Tzu Chi University)		
09:00-09:50	50	<b>【Keynote Speech】</b> <b>Innovative Biosensing Applications of Metallic Nanostructures</b> 魏培坤研究員/所長 中央研究院應科中心 Dr. Pei-Kuen Wei/Acting Director and Research Fellow, Research Center for Applied Sciences, Academia Sinica
<b>09:50-10:10</b>	<b>20</b>	<b>Break &amp; Group photo</b>
Moderator: 劉怡均教授 (Dr. Ingrid Y Liu/President, Tzu Chi University) 陳宗鷹教授 (Tsung-Ying Chen/Dean, College of Medicine, Tzu Chi University) 陳光琦副教授 (Kuang-Chi Chen/Chairman, Department of Medical Information, Tzu Chi University) 黃千惠教授 (Chien-Hui Huang/Chairman, Department of Physical Therapy, Tzu Chi University)		
10:10-10:35	25	<b>GABA neurotransmission as therapeutic targets for drug addiction</b> Dr. Sutisa Thanoi Naresuan University Dr. Sutisa Thanoi/Associate Professor at Faculty of Medical Science, Naresuan University
10:35-11:00	25	<b>The intrinsic water channel formation is crucial for the activation of dopamine receptor D3R in complex with Gi-protein</b> 許豪仁教授 慈濟大學生命科學系 Hao-Jen Hsu/ Chairman, Department of Life Sciences, Tzu Chi University
11:00-11:25	25	<b>Dynamic Group Key Agreements Using Physical Unclonable Functions for the Internet of Medical Things</b> 李添福教授 慈濟大學醫學資訊學系 Tian-Fu Lee/Professor, Department of Medical Informatics, Tzu Chi

TIME	MINS	CONTENT
		University
11:25-11:50	25	<p><b>Can we improve body composition, balance, and walking through exercise interventions in the dwelling elderly? Using a 3-D printing training device with a foot core training program</b></p> <p>楊志鴻助理教授 慈濟大學物理治療學系 Chich-Haung Richard Yang/Assistant Professor, Department of Physical Therapy, Tzu Chi University</p>
Moderator: 溫秉祥副教授 (Peng Yeong Woon/Chairman, Department of Molecular Biology and Human Genetics, Tzu Chi University)		
11:50-12:10	20	<b>Two Minutes Poster Presentation(碩士班_Master Students)</b>
12:10-13:30	80	<b>Poster Session &amp; Lunch</b>
Moderator: 謝坤叡教授 (Kun-Ruey Shieh/ Professor, Department of Physiology/Institute of Biomedical Sciences, Tzu Chi University)		
13:30-14:20	50	<p><b>【Keynote Speech】</b></p> <p><b>Using granulocyte colony-stimulating factor in treatment of traumatic optic neuropathy: A journey from bench to clinic</b></p> <p>蔡榮坤教授 慈濟大學醫學研究所 Rong-Kung Tsai/Director, Institute of Medical Sciences, Tzu Chi University</p>
Moderator: 謝宗成教授 (Tsung-Cheng Hsieh/Professor, Institute of Medical Sciences, Tzu Chi University) 張孟雅副教授 (Meng-Ya Chang/ Associate Professor, Institute of Medical Sciences, Tzu Chi University) 林宜信教授 (I-Hsin Lin/Chairman, School of Post-Baccalaureate Chinese Medicine, Tzu Chi University)		
14:20-14:45	25	<p><b>Concomitant benefits of an auricular acupressure intervention for women with cancer on family caregiver sleep quality</b></p> <p>曹英教授 慈濟大學護理學系 Ying Tsao/Professor, Department of Nursing, Tzu Chi University</p>
14:45-15:10	25	<p><b>Extraction and Characterization of Bioactive Peptides in Human Bone Cells from traditional Chinese medicine “Tortoiseshell and Deer Antler Gelatin”</b></p> <p>陳灝平教授 慈濟大學生化學科 Hao-Ping Chen/Professor, Department of Biochemistry, Tzu Chi University</p>
15:10-15:35	25	<p><b>Thinking of Cooperative Research of Traditional Chinese and Western Medicine – Focus on Kidney Disease</b></p> <p>郭克林副教授/呂秉勳助理教授 慈濟大學學士後中醫學系 Ko-Lin Kuo/Associate Professor, School of Post-Baccalaureate Chinese Medicine, Tzu Chi University Ping-Hsun Lu/Assistant Professor, School of Post-Baccalaureate Chinese</p>

TIME	MINS	CONTENT
		Medicine, Tzu Chi University
<b>15:35-15:50</b>	<b>15</b>	<b>Break</b>
<p>Moderator:</p> <p>顏瑞鴻教授 (Jui-Hung Yen/Vice President, College of Medicine, Tzu Chi University)</p> <p>賴孟君副教授 (Meng-Jiun Lai/Associate Professor, Laboratory of Medicine and Biotechnology, Tzu-Chi University)</p> <p>孫德珊教授 (Der-Shan Sun/Professor, Department of Molecular Biology and Human Genetics, Tzu Chi University)</p> <p>賴志嘉教授 (Chih-Chia Lai/Professor, Department of Pharmacology/Master and PhD Programs in Pharmacology and Toxicology, Tzu Chi University)</p>		
15:50-16:15	25	<p><b>Nutraceutical potential of brown rice and colored rice in neurodegenerative disease</b></p> <p>Dr. Supin Chompoopong Mahidol University Supin Chompoopong/Professor, Department of Anatomy, Faculty of Medicine Siriraj Hospital, Mahidol University</p>
16:15-16:40	25	<p><b>Copper Nanoparticle-induced Multiple Cell-death Mechanisms in Escherichia coli</b></p> <p>劉瑞霽助理教授 慈濟大學醫學檢驗生物技術學系 Betty Revon Liu/Assistant Professor, Department of Laboratory Medicine and Biotechnology, Tzu Chi University</p>
16:40-17:05	25	<p><b>Drug-delivery system for dying cells</b></p> <p>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</p>
17:05-17:30	25	<p><b>Determination of Major Endogenous FAHFAs in Healthy Human Circulation: The Correlations with Several Circulating Cardiovascular-Related Biomarkers and Anti-Inflammatory Effects on RAW 264.7 Cells</b></p> <p>劉晉宏副教授 慈濟大學藥理暨毒理學碩、博士班 Chin-Hung Liu/Associate Professor, Master Program/PhD Program in Pharmacology and Toxicology, Tzu Chi University</p>
<b>18:00-20:00</b>	<b>120</b>	<b>歡迎晚會(Welcome Banquet)</b>

## Dec. 17, Saturday

TIME		CONTENT
08:30-09:00	30	Registration
Moderator: 蔡榮坤教授 (Rong-Kung Tsai/Director, Institute of Medical Sciences, Tzu Chi University)		
09:00-09:50	50	<b>【Keynote Speech】</b> <b>Business Models for Novel Platform Technology Biotech Companies</b> 吳忠勳執行長 財團法人生物技術開發中心 Chung-Hsiun Wu/President, Development Center for Biotechnology
<b>09:50-10:10</b>	<b>20</b>	<b>Break &amp; Group photo</b>
Moderator: 溫秉祥副教授 (Peng Yeong Woon /Chairman, Department of Molecular Biology and Human Genetics, Tzu Chi University) 王鴻俊助理教授 (Hung-Jung Wang/Assistant Professor, Institute of Medical Sciences, Tzu Chi University) 鄭敬楓教授 (Ching-Feng Cheng/ Vice-President, Taipei Tzu Chi Hospital) 丁大清教授 (Dah-Ching Ding/ Professor, School of Medicine, Tzu Chi University)		
10:10-10:35	25	<b>Whole exome sequencing reveals TMEM8B associated with otosclerosis in a large Indian family</b> Dr. Parani Madasamy SRM Institute of Science and Technology (SRMIST) Parani Madasamy/Professor & Head, Department of Genetic Engineering, SRM Institute of Science and Technology (SRMIST)
10:35-11:00	25	<b>Exposure to environmental pesticides in rural areas</b> 尹立銘教授 慈濟大學公共衛生學系 Lih-Ming Yiin/Chairman, Department of Public Health, Tzu Chi University
11:00-11:25	25	<b>Active-Site Cysteine 215 Sulfonation Targets Protein Tyrosine Phosphatase PTP1B for Cullin1 E3 Ligase-Mediated Degradation</b> 楊秋芬醫師 花蓮慈院心臟內科 Chiu-Fen Yang/Department of Cardiology, Hualien Tzu Chi Hospital
11:25-11:50	25	<b>Esophageal peristaltic physiology and psychological characteristics: novel implications for gastroesophageal reflux disease</b> 翁銘堯醫師 花蓮慈院腸胃內科 Ming-Wun Wong/Department of Medicine, Hualien Tzu Chi Hospital
Moderator: 李茹萍教授 (Ru-Ping Lee/Professor, Institute of Medical Sciences, Tzu Chi University)		
<b>11:50-12:10</b>	<b>20</b>	<b>Two Minutes Poster Presentation(博士班_Ph.D. Students)</b>

<b>12:10-13:30</b>	<b>80</b>	<b>Poster Session &amp; Lunch</b>
Moderator: 劉怡均校長 (Ingrid Y Liu/President, Tzu Chi University)		
13:30-14:20	50	<b>【Keynote Speech】</b> <b>Lessons learned from pandemics</b> 廖俊智院長 中央研究院 James C. Liao/President, Academia Sinica
14:20-14:45	25	<b>A novel strategy for UV protection and melanocyte regeneration</b> 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
14:45-15:10	25	<b>Genomic and Functional Analysis for Inherited Retinal Dystrophy</b> 黃舜平教授 慈濟大學分子生物暨人類遺傳學 Shun-Ping Huang/ Professor, Department of Molecular Biology and Human Genetics, Tzu Chi University
15:10-15:35	25	<b>The ATF3 inducers ST32da and ST32db protect against diet-induced obesity and related metabolic dysfunction via promoting adipocyte browning</b> 鄭敬楓教授 慈濟大學醫學系 Ching-Feng Cheng /Professor, School of Medicine, Tzu Chi University
<b>15:35-15:50</b>	<b>15</b>	<b>Break</b>
15:50-16:15	25	<b>Determinants of gut-derived uremic toxins</b> 林定筠助理教授 慈濟大學醫學系 Ting-Yun Lin/Assistant Professor, School of Medicine, Tzu Chi University
16:15-16:40	25	<b>Synthesis, characterization and its anti-cancer application of F236B-ICG liposomes</b> 蕭仲凱教授 慈濟大學醫學系 Jong-Kai Hsiao/Professor, School of Medicine, Tzu Chi University
16:40-17:00	20	<b>Poster Award &amp; Closing Remarks</b> 蔡榮坤教授 (Rong-Kung Tsai/Director, Institute of Medical Sciences, Tzu Chi University)