

## Welcome to 2<sup>nd</sup> ISOCCE (第二屆世界華人比較內分泌學家研討會)

After the First International Symposium of Chinese Comparative Endocrinologists (1<sup>st</sup> ISOCCE 第一屆世界華人比較內分泌學家研討會) was very well held at the Shanghai Ocean University (上海海洋大學), Shanghai, China during July 1-3 of 2018. This conference was successfully organized by Professor Weiqun LU (呂為群教授). It was decided that 2<sup>nd</sup> ISOCCE will be held at the National Taiwan Ocean University (NTOU, 臺灣海洋大學), Keelung, Taiwan and scheduled in June of 2022. The Covid-19 hit every corner of the world, the symposium was forced to postpone for 3-times. So, we are happy to announce that 2<sup>nd</sup> ISOCCE will be held at NTOU during October 22-27 of 2023. The 2<sup>nd</sup> ISOCCE will comprise five days of formal scientific proceedings with 7 Plenary Lectures and 34 Symposium Lectures, as well as a half-day of visit and a full day of post-conference tours. As the host Institute and a local organizer, the Center of Excellence of Oceans/NTOU and myself would very like to honorably welcome you to KEELUNG 基隆市, a mountain-seas-harbor city. We have outstanding speakers from USA, Canada, France, Japan, Singapore, China, and Taiwan. The conference will be proceeded in a hybrid with online physical seminars.

I believe that this 2023 ISOCCE will create a platform and an opportunity for the share, discussion, interaction, and collaboration on the area of endocrinology and physiology among participants. Most importantly, we could enjoy the relaxedly scientific life and renew friendship after our long-term suffering of epidemic.

I would like to specially thank Professor Yong ZHU (朱勇教授, East Carolina University, USA). Professor ZHU initiated the conference and also invited many speakers from abroad. Many thanks also extend to the contribution from local committee, Academician Professor Bon-chu CHUNG (鍾邦柱教授) and Distinguished Research Fellow Pung-Pung HWANG (黃鵬鵬教授). We would very like to thank the National Science and Technology Council (國科會; NSTC, Taiwan) and The Center of Excellence for the Oceans (海洋中心; CEO, National Taiwan Ocean University) for the financial supports and others.

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October 22, 2023

第二屆世界華人比較內分泌學家研討會  
Second International Symposium of Chinese Comparative Endocrinologists  
(2<sup>nd</sup> ISOCCE)

October 22 (Sunday) - October 27 (Friday), 2023

Program

Organizer: National Taiwan Ocean University (NTOU) - Center of Excellence for the Oceans (海洋中心)

Venue: Conference Hall of PI (畢東江博士國際會議廳)

Sunday	<b>October 22th</b>	<b>2023</b>	Arrive Taiwan stay in K-Hotel (Keelung) 柯達飯店基隆店(基隆市中正區義一路7號) Welcome dinner (18:30-20:30)- K-Hotel (Keelung)
Monday	<b>October 23th</b>	<b>2023</b>	08:50 meet at K-Hotel lobby Conference day 1 Dinner- seafood restaurant 漁品軒(基隆市北寧路71號)
Tuesday	<b>October 24th</b>	<b>2023</b>	09:00 meet at K-Hotel lobby Conference day 2 NTOU History Museum 校史博物館 Center of Excellence for the Oceans 海洋中心 Dinner- Sea food restaurant 友信海產(新北市瑞芳區深澳路189-7號)
Wednesday	<b>October 25th</b>	<b>2023</b>	09:00 meet at K-Hotel lobby Conference day 3 Visit- New Taipei city NTOU The Center for Aquatic Organisms and Conservation 貢寮水生生物研究暨保育中心 Yinyang Sea & Golden Fall 陰陽海&黃金瀑布 Jiufen 九份 Dinner- Jiufen 九份 芋仔番薯(新北市瑞芳區市下巷18號)
Thursday	<b>October 26th</b>	<b>2023</b>	09:00 meet at K-Hotel lobby Conference day 4 Closing Visit- Heping Island Park 和平島公園 Dinner- Keelung City Indigenous Cultural Hall 原住民文化會館(基隆市中正區正濱路116巷75號)
Friday	<b>October 27th</b>	<b>2023</b>	Back home

Hotel information

1) 柯達大飯店基隆店，202基隆市中正區義一路7號

K Hotel-Keelung-- No.7, Yi 1st Rd., Zhongjheng Dist., Keelung City 202, Taiwan

TEL: 886 2 2423 0111

2) 基隆北都大飯店，基隆市中正區信二路319號

Beidoo Hotel-- No. 319, Xin 2nd Rd., Zhongzheng Dist., Keelung City 202091, Taiwan

TEL: 886 2 2422 7899

Friday	<b>October 27th</b>	<b>2023</b>	<b>Optional tour</b> 09:00 meet at K-Hotel lobby Visit- Taipei city National Palace Museum 故宮博物院 Lunch- Sea food restaurant 海霸王餐廳(台北市中山區中山北路三段59號) Bopiliao Historic District & Longshan Temple 剝皮寮歷史街區&龍山寺 Chiang Kai-shek Memorial Hall 中正紀念堂 Dinner- Leisure farm restaurant 舜德農莊休閒餐廳(新北市深坑區文山路1段62巷35號)
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October 23, 2023 (Monday) Conference day 1 Conference Hall of PI (畢東江博士國際會議廳)

09:15-09:30	Opening Remarks Dr. Yong ZHU 朱勇、Dr. Bon-chu CHUNG 鍾邦柱、Dr. Weiqun LU 呂為群、Dr. Ching-Fong CHANG 張清風		
09:30-09:40	Photo time		
	Chairman: Dr. Pung-Pung HWANG 黃鵬鵬		
09:40-10:20	Plenary Lecture 1 Sylvie DUFOUR	National Museum of Natural History (MNHN), Sorbonne University, CNRS, IRD, France	An historical overview of fish reproductive physiology, from comparative physiology to ecological and evolutionary physiology
10:20-10:35	Break		Snack & hot tea
	Chairman: Dr. Yub-bo SHI 石運伯 & Dr. Zhibing ZHANG 張志兵		
10:35-11:00	Symposium Lecture 1 Pei-San TSAI 蔡佩珊	University of Colorado Boulder, USA	Functional Characterization of A Lophotrochozoan GnRH-related Signaling System
11:00-11:25	Symposium Lecture 2 John CHANG 張泰邦	University of Alberta, Canada	PI3K- AND ERK-Dependent Signalling Differentially Contribute to Acute Basal and Agonist-stimulated LH Secretion and Long-term Basal LH Secretion and Availability in Goldfish Pituitary Cells.
11:25-11:50	Symposium Lecture 3 Pung-Pung HWANG 黃鵬鵬	Inst. of Cellular and Organismic Biology, Academia Sinica, Taiwan	Oxytocin Mediates Compensatory Response of Ion Regulation in Ectothermic Fish under Cold Stress
11:50-12:15	Symposium Lecture 4 Ming-Yi CHOU 周銘翊	Department of Life Science, National Taiwan University, Taiwan	The oxytocin neural system for ion regulation in fish
12:15-13:30	Lunch box		
	Chairman: Dr. Cunming DUAN 段存明 & Dr. Chi-Ying LEE 李奇英		
13:30-14:10	Plenary Lecture 2 Bon-chu CHUNG 鍾邦柱	Academia Sinica, Taiwan	Control of zebrafish sex differentiation by intrinsic and extrinsic factors
14:10-14:35	Symposium Lecture 5 Ya-Xiong TAO 陶亞雄	Auburn University, USA	Unique Pharmacology of Fish Neural Melanocortin Receptors and Origin of Melanocortin Receptors
14:35-15:00	Symposium Lecture 6 Shaw-Jenq Sean TSAI 蔡少正	Department of Physiology, National Cheng Kung University, Taiwan	The Pathophysiological role of Chicken Ovalbumin Upstream Promoter Transcription Factor II in Endometriosis
15:00-15:15	Break		
Online	Chairman: Dr. Yong ZHU 朱勇 & Dr. Jiahai SHI 史家海 & Dr. Weiqun LU 呂為群		
15:15-15:40	Symposium Lecture 7 Zhan YIN 殷戰	Institute of Hydrobiology CAS, China	Sex and infertility control in cyprinid with genetic manipulation
15:40-16:05	Symposium Lecture 8 De-Shou WANG 王德壽	SouthWest University, China	Indispensable Role of Dmrt1 in Sex Determination and Testis Development in Nile Tilapia
16:05-16:30	Symposium Lecture 9 Jianzhen LI 李建真	Northwest Normal University, China	Gonacin: a germ cell-derived hormone with glucogenic, orexigenic, and gonadal activities
16:30-16:55	Symposium Lecture 10 Shutang ZHOU 周樹堂	Henan University, China	Hormonal Regulation of Female Reproduction in the Migratory Locusts
16:55-18:15	NTOU Cultivation Center for Aquatic Organisms 海洋生物培育館, Bisha Fishing Harbor 碧砂漁港 walk to restaurant		
18:30-20:00	Dinner		漁品軒

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October 24, 2023 (Tuesday) Conference day 2 Conference Hall of PI (畢東江博士國際會議廳)

	Chairman: Dr. Pei-San TSAI 蔡佩珊 & Dr. Shaw-Jeng Sean TSAI 蔡少正		
09:20-10:00	Plenary Lecture 3 Humphrey YAO 姚宏昌	NIEHS, USA	New Insights Into Hormonal Regulation of Sex Differentiation
10:00-10:25	Symposium Lecture 11 Sheue-yann CHENG 張雪艷	NCI, USA	Zebrafish As a Novel Model for Patients with Mutations of Thyroid Hormone Receptor a1
10:25-10:50	Symposium Lecture 12 Yub-bo SHI 石運伯	NICHD, USA	Distinct Roles of Unliganded and Liganded Thyroid Hormone Receptors in Regulating Larval Tissue Degeneration and Ddult Organ Development.
10:50-11:05	Break		Snack & hot tea
	Chairman: Dr. Humphrey YAO 姚宏昌		
11:05-11:30	Symposium Lecture 13 Hwei-Jan HSU 許惠真	Developmental Biology, Stem cell Biology, Academia Sinica, Taiwan	Excess Dietary Sugar Harms Stem cells
11:30-11:55	Symposium Lecture 14 Chen-Che (Jeff) HUANG 黃振哲	Auburn University, USA	How to Manipulate the Adrenal Cortex's Function, Development, and Aging?
11:55-12:20	Symposium Lecture 15 Chi-Ying LEE 李奇英	Department of Biology, National Changhua University of Education, Taiwan	Control by the parasitic barnacle ( <i>Polyascus planus</i> ) of its brachyuran host: mechanism and potential applications
12:20-13:30	Lunch box		
	Chairman: Dr. John CHANG 張泰邦 & Dr. Guan-Chung WU 吳貫忠		
13:30-14:10	Plenary Lecture 4 Minoru TANAKA	Nagoya University, Japan	Molecular mechanisms that make germ cells eggs in the teleost fish, medaka ( <i>Oryzias latipes</i> )
14:10-14:35	Symposium Lecture 16 Jianjun SUN 孫建軍	University of Connecticut, USA	Drosophila Model for Screening Non-Steroidal Contraceptive Compounds
14:35-15:00	Symposium Lecture 17 Qisheng (Jason) SONG 宋齊生	University of Missouri, USA	Functional Characterization of Neuropeptide Pbars-Induced Novel Antimicrobial Peptides in the Red Flour Beetle <i>Tribolium castaneum</i>
15:00-15:25	Symposium Lecture 18 Yung-Che TSENG 曾庸哲	Inst. of Cellular and Organismic Biology, Academia Sinica, Taiwan	The Reliance of Cuttlefish Epithelial Acid-Base Homeostasis on Neurohypophysial Hormones
15:25-15:40	Break		
Online	Chairman: Dr. Wei YAN 閔威 & Dr. Ya-Xiong TAO 陶亞雄 & Dr. De-Shou WANG 王德壽		
15:40-16:05	Symposium Lecture 19 Weiqun LU 呂為群	Shanghai Ocean University, China	The Thermal Perception and Thermoregulatory Pathway of CNSS in Olive Flounder ( <i>Paralichthys olivaceus</i> )
16:05-16:30	Symposium Lecture 20 Wensehng LI 李文笙	Sun Sat-Sen University, China	Metabolism and Innate immunity of Zebrafish during Compensatory Growth
16:30-16:55	Symposium Lecture 21 Shuangxia ZHAO 趙雙霞	Shanghai Jiaotong University Ninth Hospital, China	Deficiency of HGF/Met Pathway Leads to Thyroid Dysgenesis by Impeding Late Thyroid Expansion
16:55-17:20	Symposium Lecture 22 Zhihua GAO 高志華	Zhejiang University, China	The Beautiful Neuroendocrine System
17:20-18:00	NTOU History Museum校史博物館, Center of Excellence for the Oceans 海洋中心		
18:00-20:00	Dinner		Shen'ao Fishery harbor, seafood 友信海產

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October 25, 2023 (Wednesday) Conference day 3 Conference Hall of PI (畢東江博士國際會議廳)

	Chairman: Dr. Bon-chu CHUNG 鍾邦柱 & Dr. Sheue-yann CHENG 張雪艷		
09:20-10:00	Plenary Lecture 5 Peter THOMAS	The University of Texas at Austin, USA	Characteristics of Steroid Membrane Receptors and Their Essential Functions in Teleost Ovaries.
10:00-10:25	Symposium Lecture 23 Wei YAN 閔威	The Lundquist Institute at Harbor-UCLA, USA	The Rapidly Evolving X-linked miR-506 Family Finetunes Spermatogenesis to Enhance Sperm Competition
10:25-10:50	Symposium Lecture 24 Hong-Yi GONG 龔紘毅	Department of Aquaculture, National Taiwan Ocean University, Taiwan	<i>Dnd1</i> is Essential for Maintenance of Primordial Germ Cells and Sex Determination in Freshwater Angelfish ( <i>Pterophyllum scalare</i> )
10:50-11:05		Break	Snack & hot tea
	Chairman: Dr. Yi-Wen LIU 劉蕙雯		
11:05-11:30	Symposium Lecture 25 Yung-Sen HUANG 黃永森	Department of Life Science, National University of Kaohsiung, Taiwan	The Relationship Between Ovarian Genetic Background and Its Sensitivity to Androgen in Japanese Eel ( <i>Anguilla japonica</i> )
11:30-11:55	Symposium Lecture 26 Jiahai SHI 史家海	National University of Singapore, Singapore	The generation of antigen-specific immunoglobulin new antigen receptors (IgNAR) is associated with the unique immune-related genes in bamboo sharks.
11:55-12:20	Symposium Lecture 27 Guan-Chung WU 吳貫忠	Department of Aquaculture, National Taiwan Ocean University, Taiwan	Transcriptomic Profiles and Bacterial Dynamics of Symbiotic Accessory Nidamental Gland During Female Maturation in the Bigfin Reef Squid
12:20-13:30		Lunch box	
13:30-16:30	NTOU The Center for Aquatic Organisms and Conservation 貢寮水生生物研究暨保育中心 (New Taipei city)		
16:30-18:30	Yinyang Sea & Golden Fall 陰陽海&黃金瀑布		
18:30-20:00		Dinner	Jiufen 九份

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October 26, 2023 (Thursday) Conference day 4 Conference Hall of PI (畢東江博士國際會議廳)

	Chairman: Dr. Jianjun SUN 孫建軍 & Dr. Hwei-Jan HSU 許惠真		
09:20-10:00	Plenary Lecture 6 Cunming DUAN 段存明	University of Michigan, Ann Arbor, USA	Regulation of Cell Renewal by A conserved Mitochondrial Loop Acting Downstream of IGF/mTOR and Calcium Signaling
10:00-10:25	Symposium Lecture 28 Zhibing ZHANG 張志兵	Wayne State University, USA	Inactivation of Cops5 in Smooth Muscle Cells Causes Abnormal Reproductive Hormone Homeostasis and Development in Mice
10:25-10:50	Symposium Lecture 29 Yi-Wen LIU 劉蕙雯	Department of Life Science, Thnghai University, Taiwan	Using the zebrafish model to study mechanisms underlying parallel development of kidney and interrenal tissues: implications in human rare diseases
10:50-11:05	Break		Snack & hot tea
	Chairman: Dr. Chen-Che (Jeff) HUANG 黃振哲		
11:05-11:30	Symposium Lecture 30 Yong ZHU 朱勇	East Carolina University, USA	Adamts9 in Folliculogenesis, Sex Determination, and Ovulation in Zebrafish
11:30-11:55	Symposium Lecture 31 Ching-Fong CHANG 張清風	Department of Aquaculture / Center of Excellence for the Oceans, National Taiwan Ocean University, Taiwan	Reproductive biology and ecophysiology of marine organisms
Online 11:55-12:20	Symposium Lecture 32 Guijun GUAN 關桂君	Shanghai Ocean University, China	The role of TGF $\beta$ signaling in sexual differentiation, new insights from gsdf-knockout medaka
12:20-13:30	Lunch box		
Online	Chairman: Dr. Qisheng (Jason) SONG 宋齊生 & Dr. Zhan YIN 殷戰		
13:30-14:10	Plenary Lecture 7 Sheng LI 李勝	South China Normal University, China	Achieving Dynamic Equilibrium of Nutrition Drives Origin of Termite Eusociality
14:10-14:35	Symposium Lecture 33 Qili FENG 馮啟理	South China Normal University, China	Epigenetic Regulation of Gene Transcription by DNA Secondary Structures
14:35-15:00	Symposium Lecture 34 Xiaofan ZHAO 趙小凡	Shandong University, China	The mechanism of 20-hydroxyecdysone reprograms metabolism to support the metamorphic development of lepidopteran insect <i>Helicoverpa armigera</i>
15:00-15:05	Closing ceremony		
15:05-17:00	Heping Island Park 和平島公園		
17:00-18:00	Walk around Heping Island and seafood street 和平島與海產街		
18:00-20:00	Dinner		Hepin Island Keelung City Indigenous Cultural Hall