

# Scientific Program

**September 12 (Monday)**

**Location: Room 202, 2F**

## **Symposium 1 (S01): Cellular redox signaling and mitochondrial function (I)**

**Moderators: Dr. Mami Noda (Japan) / Dr. Hiroshi Nakanishi (Japan)**

<b>Time</b>	<b>Session No.</b>	<b>Title / Speaker</b>
08:30-08:55	S01-01	ANTI-BRAIN AGING STRATEGY FOCUSED ON MITOCHONDRIA/LYSOSOME-DERIVED ROS GENERATION IN MICROGLIA <b>Hiroshi Nakanishi (Japan)</b>
08:55-09:20	S01-02	THE MOLECULAR NEUROBIOLOGY OF ANTI-OXIDATIVE STRESS INDUCED BY HYDROGEN <b>Mami Noda (Japan)</b>
09:20-09:35	O6-01	THE ROLE OF REACTIVE OXYGEN SPECIES ON FERROUS CITRATE-INDUCED UPREGULATION OF NOS2 THROUGH TRANSLOCATION OF NF $\kappa$ B IN CEREBRAL ENDOTHELIAL CELLS <b>Liching Chen (Taiwan)</b>

**Location: Room 203, 2F**

## **Symposium 2 (S02): Epithelial transporters: properties, regulation and relation to diseases**

**Moderators: Dr. Naohiko Anzai (Japan) / Dr. Stefan Broer (Australia)**

<b>Time</b>	<b>Session No.</b>	<b>Title / Speaker</b>
08:30-08:55	S02-01	RENAL TUBULAR URATE TRANSPORTERS AND GOUT <b>Naohiko Anzai (Japan)</b>
08:55-09:20	S02-02	EPITHELIAL NHE3 REGULATION BY PROTEIN-PROTEIN INTERACTION <b>Min Goo Lee (Korea)</b>

09:20-09:45	S02-03	NEUTRAL AMINO ACID TRANSPORT ACROSS RENAL AND INTESTINAL EPITHELIA <b>Stefan Broer (Australia)</b>
09:45-10:10	S02-04	INTESTINAL CALCIUM TRANSPORT REGULATION BY THE MILK-PRODUCING HORMONE PROLACTIN <b>Narattaphol Charoenphandhu (Thailand)</b>

**Location: Room 205, 2F**

### Symposium 3 (S03): Synaptic network plasticity in development and learning

**Moderators: Dr. Ying-Shing Chan (Hong Kong) / Dr. Pankaj Sah (Australia)**

Time	Session No.	Title / Speaker
08:30-08:55	S03-01	A ROLE OF ENDOCANNABINOIDS IN DEVELOPMENT AND PLASTICITY OF GABAergic INHIBITORY SYNAPSES IN THE VISUAL CORTEX <b>Tadaharu Tsumoto (Japan)</b>
08:55-09:20	S03-02	EXCITATORY ACTIONS OF GABA IN THE BASAL AMYGDALA <b>Pankaj Sah (Australia)</b>
09:20-09:45	S03-03	THE ENGAGEMENT OF GLUTAMATE AND GABA RECEPTORS IN CENTRAL VESTIBULAR SYNAPSES FOR DEVELOPMENTAL ACQUISITION OF SPATIAL RECOGNITION <b>Ying-Shing Chan (Hong Kong)</b>
09:45-10:00	O6-02	LAMININ $\beta$ 1 IMPAIRS SPATIAL LEARNING THROUGH INHIBITION OF ERK AND SGK1 SIGNALING <b>Ying-Chen Yang (Taiwan)</b>
10:00-10:15	O6-03	VAL <sup>8</sup> -GLP-1(7-36) PROTECTS AGAINST A $\beta$ 1-40 INDUCED DEFICITS IN LONG TERM SYNAPTIC PLASTICITY AND SPATIAL MEMORY IN RATS <b>Jin-Shun Qi (China)</b>

**Location: Room 301, 3F**

### Oral Presentation (O1)

**Moderators: Dr. Ching-Jiunn Tseng (Taiwan) / Dr. Ravshan Sabirov (Uzbekistan)**

<b>Time</b>	<b>Session No.</b>	<b>Title / Speaker</b>
08:30-08:45	O1-01	CONTROL OF CEREBRAL CORTICAL BLOOD FLOW BY STIMULATION OF BASAL FOREBRAIN CHOLINERGIC AREAS IN MICE  <b>Harumi Hotta (Japan)</b>
08:45-09:00	O1-02	THE EFFECTS OF AT-1 BLOCKADE ON SYMPATHETIC ACTIVATION TO ISOMETRIC HANDGRIP EXERCISE IN HUMANS  <b>Rahmatina Herman (Indonesia)</b>
09:00-09:15	O1-03	CHRONIC AND CONTINUOUS INFUSION OF ADENOSINE RECEPTOR ANTAGONIST (DPSPX) INTO FOURTH CEREBRAL VENTRICLE INDUCES SUSTAIN HYPERTENSION IN RAT  <b>Behnam Heshmatian (Iran)</b>
09:15-09:30	O1-04	CARDIOVASCULAR RESPONSES TO APELIN IN TWO KIDNEY-ONE-CLIP HYPERTENSIVE RATS  <b>Hamid Najafipour (Iran)</b>
09:30-09:45	O1-05	PERIPHERAL CHEMICAL SYMPATHECTOMY WITH 6-HYDROXYDOPAMINE CAUSES ALTERATION IN THE CARDIAC FUNCTION IN PRESSURE OVERLOAD INDUCED CARDIAC HYPERTROPHIED RATS  <b>Hassaan Rathore (Malaysia)</b>
09:45-10:00	O1-06	THE INFLUENCE OF GIVING A SESSION OF PHYSICAL EXERCISE: TO THE VASCULAR ENDOTHELIAL CELLS FUNCTION (PURE EXPERIMENTAL RESEARCH ON RATS)  <b>Afriwardi Wahab (Indonesia)</b>

**Location: Room 101, 1F**

### **Plenary Lecture 1 (PL1)**

**Moderator: Dr. Yasunobu Okada (Japan)**

<b>Time</b>	<b>Session No.</b>	<b>Title / Speaker</b>
10:30-11:30	PL-01	ROLE OF MECHANOTRANSDUCTION IN CARDIOVASCULAR HOMEOSTASIS  <b>Shu Chien (USA)</b>

**Location: Room 205, 2F**

**Colloquium I- Faculty development and basic science educators**

**Moderators: Krishan Chandra Singhal (India) / Mangala Gunatilake (Sri Lanka)**

<b>Time</b>	<b>Title / Speaker</b>
13:00-13:10	FACULTY DEVELOPMENT AND BASIC SCIENCE EDUCATORS IN SOUTH AFRICA <b>Ekambaram Umapathy (South Africa)</b>
13:10-13:20	FACULTY DEVELOPMENT AND BASIC SCIENCE EDUCATORS IN TAIWAN <b>Yih-Jing Lee (Taiwan)</b>
13:20-13:30	FACULTY DEVELOPMENT AND BASIC SCIENCE EDUCATORS IN PHILIPPINES <b>Nemuel Fajutagana (Philippines)</b>
13:30-14:00	PANEL DISCUSSION

**Location: Room 301, 3F**

**Colloquium II- Effective teaching**

**Moderators: Dr. Adrianta Surjadhana (Indonesia) / Dr. Hsun-Hsun Lin (Taiwan)**

<b>Time</b>	<b>Title / Speaker</b>
13:00-13:10	EFFECTIVE TEACHING IN INDONESIA <b>Irfan Misbach (Indonesia)</b>
13:10-13:20	EFFECTIVE TEACHING IN MALAYSIA <b>Noriah Mohd Noor (Malaysia)</b>
13:20-13:30	EFFECTIVE TEACHING IN VIETNAM <b>Van Hung Mai (Vietnam)</b>
13:30-13:40	EFFECTIVE TEACHING IN TAIWAN <b>Chingju Lin (Taiwan)</b>
13:40-14:00	PANEL DISCUSSION

**Location: Room 202, 2F**

**Special Lecture 1 (SL1)**

**Moderator: Dr. Julie Y.H. Chan (Taiwan)**

<b>Time</b>	<b>Session</b>	<b>Title / Speaker</b>
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No.		
14:00-14:30	SL-01	VASOPROTECTIVE AXIS OF THE RAS AS A TARGET FOR CARDIOPULMONARY THERAPEUTICS  <b>Mohan K. Raizada (USA)</b>
14:30-15:00	SL-02	THE ORIGIN OF SYMPATHO-EXCITATION IN HEART FAILURE: A CRITICAL ROLE FOR ANGIOTENSIN II  <b>Irving H. Zucker (USA)</b>

**Location: Room 203, 2F**

### Special Lecture 2 (SL2)

**Moderator: Dr. Ming Fan (China)**

Time	Session No.	Title / Speaker
14:00-14:30	SL-03	TWO MODES OF INHIBITION ENHANCES THE CONTRAST OF ITD TUNING IN THE CHICK  <b>Harunori Ohmori (Japan)</b>
14:30-15:00	SL-04	FROM MOLECULE TO BEHAVIOR: UNVEILING THE IMPORTANCE OF NOVEL SIGNALING PATHWAYS IN BRAIN PHYSIOLOGY  <b>Lan Ma (China)</b>

**Location: Room 205, 2F**

**Special Lecture 3 (SL3)**

**Moderator: Dr. Arie Moran (Israel)**

<b>Time</b>	<b>Session No.</b>	<b>Title / Speaker</b>
14:00-14:30	SL-05	RECENT ADVANCES IN EXCITATION CONTRACTION COUPLING IN SKELETAL MUSCLE  <b>Angela F. Dulhunty (Australia)</b>
14:30-15:00	SL-06	SUICIDAL ERYTHROCYTE DEATH  <b>Florian Lang (German)</b>

**Location: Room 301, 3F**

**Special Lecture 4 (SL4)**

**Moderator: Dr. V. Mohan Kumar (India)**

<b>Time</b>	<b>Session No.</b>	<b>Title / Speaker</b>
14:00-14:30	SL-07	HES-1 NEGATIVELY REGULATES GLUR1 EXPRESSION AND GLUR1-MEDITATED CALCIUM INFLUX IN CORTICAL NEURONS  <b>Eminy H.Y. Lee (Taiwan)</b>
14:30-15:00	SL-08	PHYSIOLOGICAL SIGNIFICANCE OF THERMOSENSITIVE TRP CHANNELS  <b>Makoto Tominaga (Japan)</b>

**Location: Room 101, 1F**

**Plenary Lecture 2 (PL2)**

**Moderator: Dr. David Cook (Australia)**

<b>Time</b>	<b>Session No.</b>	<b>Title / Speaker</b>
15:30-16:30	PL-02	MECHANISM AND REGULATION OF EPITHELIAL FLUID AND HCO <sub>3</sub> <sup>-</sup> SECRETION  <b>Shmuel Muallem (USA)</b>

**Location: Room 202, 2F**

**Symposium 4 (S04): Cellular redox signaling and mitochondrial function (II)**

**Moderators: Dr. Tohru Yoshioka (Japan) / Dr. Rei-Cheng Yang (Taiwan)**

<b>Time</b>	<b>Session No.</b>	<b>Title / Speaker</b>
16:30-16:55	S04-01	INITIATION AND PROMOTION OF NORMAL SLEEP BY SUPEROXIDE  <b>Tohru Yoshioka (Japan)</b>
16:55-17:20	S04-02	MITOCHONDRIAL UNFOLDED-PROTEIN-RESPONSE AS A CELLULAR REDOX SIGNALING IN SEPSIS  <b>Rei-Cheng Yang (Taiwan)</b>
17:20-17:45	S04-03	BIOENERGETIC FAILURE IN BRAIN STEM MEDIATES CARDIOVASCULAR COLLAPSE ASSOCIATED WITH FATAL METHAMPHETAMINE INTOXICATION  <b>Alice Y.W. Chang (Taiwan)</b>
17:45-18:00	O6-04	ANTIOXIDANT ROLE FOR BDNF/TrkB CASCADE IN AMELIORATION OF CENTRAL CARDIOVASCULAR REGULATORY DYSFUNCTION DURING ACUTE EXPERIMENTAL TEMPORAL LOBE EPILEPSY  <b>Ching-Yi Tsai (Taiwan)</b>

**Location: Room 203, 2F**

### **Symposium 5 (S05): Exercise physiology**

**Moderators: Dr. Chia-hua Kuo (Taiwan) / Dr. Kaoru Kitagawa (Japan)**

<b>Time</b>	<b>Session No.</b>	<b>Title / Speaker</b>
16:30-16:55	S05-01	APPLICATION OF SPORTS AND EXERCISE PHYSIOLOGY TO UNIVERSITY ELITE ATHLETE IN THE CASE OF CHUKYO UNIVERSITY  <b>Kaoru Kitagawa (Japan)</b>
16:55-17:20	S05-02	PHYSIOLOGICAL RESPONSE TO THE SUPPLEMENTATION OF KOREAN RED GINSENG AND ITS APPLICATION TO SPORTS  <b>Hyon Park (Korea)</b>
17:20-17:45	S05-03	EXERCISE-INDUCED BRONCHOCONSTRICTION AND ITS SIGNIFICANCE IN ATHLETES  <b>Arth Nana (Thailand)</b>

### Symposium 5 (S05): Exercise physiology

**Moderators: Dr. Chia-hua Kuo (Taiwan) / Dr. Kaoru Kitagawa (Japan)**

<b>Time</b>	<b>Session No.</b>	<b>Title / Speaker</b>
17:45-18:10	S05-04	ROLE OF DEHYDROEPIANDROSTERONE IN COPING AGAINST EXERCISE AND OTHER CHALLENGES  <b>Chia-Hua Kuo (Taiwan)</b>

**Location: Room 205, 2F**

### Symposium 6 (S06): Innovative teaching in physiology

**Moderators: Dr. Arif Siddiqui (Pakistan) / Dr. Hwee Ming Cheng (Malaysia)**

<b>Time</b>	<b>Session No.</b>	<b>Title / Speaker</b>
16:30-16:50	S06-01	SYSTEM BASED INTEGRATED MEDICAL CURRICULUM SCHOOL OF BIOMEDICAL SCIENCES, CHINESE UNIVERSITY OF HONG KONG  <b>Michael Tam (Hong Kong)</b>
16:50-17:10	S06-02	CONCEPT MAPPING AND PBL  <b>Christopher Johnson (Taiwan)</b>
17:10-17:30	S06-03	E-LEARNING IN CASE-BASED LABORATORY COURSES  <b>Anthony Dunstan Crawford Macknight (New Zealand)</b>
17:30-17:50	S06-04	THE IMPACT OF E-LEARNING IN MEDICAL EDUCATION  <b>Kyong-Jee Kim (Korea)</b>
17:50-18:10	S06-05	iPADS FOR EVERYONE: A FASHIONABLE GIMMICK, OR A VITAL PEDAGOGICAL TOOL?  <b>David A. Saint (Australia)</b>

**Location: Room 301, 3F**

### Oral Presentation 2 (O2)

**Moderators: Dr. Sean S.J. Tsai (Taiwan) / Dr. Tasuku Harada (Japan)**

<b>Time</b>	<b>Session No.</b>	<b>Title / Speaker</b>
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## Oral Presentation 2 (O2)

**Moderators: Dr. Sean S.J. Tsai (Taiwan) / Dr. Tasuku Harada (Japan)**

<b>Time</b>	<b>Session No.</b>	<b>Title / Speaker</b>
16:30-16:45	O2-01	IS THERE A CAUSAL LINK BETWEEN ENDOMETRIOSIS AND OVARIAN CANCER?  <b>Sun-Wei Guo (China)</b>
16:45-17:00	O2-02	EPIGENETIC ABERRATIONS MAY CAUSE OVEREXPRESSION OF AROMATASE GENE IN ENDOMETRIOSIS TISSUES  <b>Tasuku Harada (Japan)</b>
17:00-17:15	O2-03	INHIBITION OF CD36-DEPENDENT PHAGOCYTOSIS BY PROSTAGLANDIN E2 CONTRIBUTES TO THE DEVELOPMENT OF ENDOMETRIOSIS  <b>Pei-Chin Chuang (Taiwan)</b>
17:15-17:30	O2-04	CROSS-TALK BETWEEN INFLAMMATION AND STRESS REACTION IN TOLL-LIKE RECEPTOR 4-MEDIATED GROWTH OF ENDOMETRIOSIS  <b>Khaleque Khan (Japan)</b>
17:30-17:45	O2-05	TRANSFORMATION OF eEF1B $\delta$ INTO HEAT SHOCK RESPONSE TRANSCRIPTION FACTOR BY SPLICING  <b>Masayuki Matsushita (Japan)</b>
17:45-18:00	O2-06	SYSTEMIC IMPACT OF SHORT HAIRPIN RNA ON TRANSGENIC HUNTINGTON'S DISEASE MICE  <b>Shang-Hsun Yang (Taiwan)</b>

## September 13 (Tuesday)

**Location: Room 202, 2F**

### **Symposium 7 (S07): Central mechanisms of cardiovascular adaptation**

**Moderators: Dr. Yoshitaka Hirooka (Japan) / Dr. Hsun-Hsun Lin (Taiwan)**

<b>Time</b>	<b>Session No.</b>	<b>Title / Speaker</b>
08:30-08:55	S07-01	MECHANISMS INVOLVED IN CENTRAL SYMPATHETIC ACTIVATION BY REACTIVE OXYGEN SPECIES IN HYPERTENSION  <b>Yoshitaka Hirooka (Japan)</b>
08:55-09:20	S07-02	NEURONAL INSULIN RESISTANCE OF NUCLEUS TRACTUS SOLITARIUS INDUCED BY ROS AND P38 CAUSES HYPERTENSION IN FRUCTOSE-FED RATS  <b>Ching-Jiunn Tseng (Taiwan)</b>
09:20-09:45	S07-03	ACE2-MEDIATED REDUCTION OF OXIDATIVE STRESS IN THE CENTRAL NERVOUS SYSTEM IS ASSOCIATED WITH IMPROVEMENT OF AUTONOMIC FUNCTION  <b>Huijing Xia (USA)</b>
09:45-10:10	S07-04	METABOTROPIC GLUTAMATE RECEPTOR 5-MEDIATED NMDA RECEPTOR ACTIVITY IN THE RVLM CONTRIBUTES TO METHAMPHETAMINE-INDUCED HYPERTENSION  <b>Hsun-Hsun Lin (Taiwan)</b>

**Location: Room 203, 2F**

### **Symposium 8 (S08): Impact of environmental chemicals on brain development**

**Moderators: Dr. Noriyuki Koibuchi (Japan) / Dr. Yueliang Leon Guo (Taiwan)**

<b>Time</b>	<b>Session No.</b>	<b>Title / Speaker</b>
08:30-08:55	S08-01	PRENATAL EXPOSURE TO POLYCHLORINATED BIPHENYLS AND DIBENZOFURANS ON NEUROCOGNITIVE DEVELOPMENT IN HUMANS  <b>Yueliang Leon Guo (Taiwan)</b>

## Symposium 8 (S08): Impact of environmental chemicals on brain development

Moderators: Dr. Noriyuki Koibuchi (Japan) / Dr. Yueliang Leon Guo (Taiwan)

Time	Session No.	Title / Speaker
08:55-09:20	S08-02	ASSESSMENT OF ADVANCED COGNITIVE BEHAVIORS IN RODENTS: MATERNAL EXPOSURE TO DIOXIN CAUSES PSYCHOBEHAVIORAL ABNORMALITY AND LEARNING DEFICITS  <b>Chiharu Tohyama (Japan)</b>
09:20-09:45	S08-03	IMPACTS OF ENVIRONMENTAL CHEMICALS ON BRAIN DEVELOPMENT  <b>Shuji Aou (Japan)</b>
09:45-10:10	S08-04	CELLULAR AND MOLECULAR MECHANISMS OF ENVIRONMENTAL CHEMICAL ACTION ON BRAIN DEVELOPMENT  <b>Noriyuki Koibuchi (Japan)</b>

Location: Room 205, 2F

## Symposium 9 (S09): Signal mechanism in epithelial transport

Moderators: Dr. Anuwat Dinudom (Australia) / Dr. Wing-Hung Ko (Hong Kong)

Time	Session No.	Title / Speaker
08:30-08:55	S09-01	THE ROLE OF SMALL G PROTEINS IN REGULATING EPITHELIAL Na <sup>+</sup> CHANNELS (ENaC)  <b>David Cook (Australia)</b>
08:55-09:20	S09-02	MECHANISMS AND FUNCTIONS OF SPONTANEOUS AND AGONIST INDUCED Ca <sup>2+</sup> OSCILLATIONS IN SALIVARY DUCTS  <b>Akihiko Tanimura (Japan)</b>
09:20-09:45	S09-03	LIVER X RECEPTORS AGONISTS INHIBIT CFTR-MEDIATED CHLORIDE SECRETION IN RENAL COLLECTING DUCT CELLS  <b>Sunhapas Soodvilai (Thailand)</b>
09:45-10:10	S09-04	SIGNALING MECHANISMS UNDERLYING P2Y <sub>6</sub> RECEPTOR-REGULATED ANION SECRETION IN HUMAN

BRONCHIAL EPITHELIA

**Wing-Hung Ko (Hong Kong)**

**Location: Room 301, 3F**

**Oral Presentation 3 (O3)**

**Moderators: Dr. Lan Ma (China) / Dr. Saleh Zahediasl (Iran)**

<b>Time</b>	<b>Session No.</b>	<b>Title / Speaker</b>
08:30-08:45	O3-01	SIMULATED POTASSIUM BUFFERING AND TRANSPORT IN AN ASTROCYTE MODEL (abstract format) <b>Shingo Murakami (Japan)</b>
08:45-09:00	O3-02	ROLE OF ALPHA-SYNUCLEIN AGGREGATION IN IRON-INDUCED NEUROTOXICITY <b>Hong Jiang (China)</b>
09:00-09:15	O3-03	TREADMILL TRAINING REGULATES $\beta$ -CATENIN SIGNALING THROUGH PHOSPHORYLATION OF GSK-3 $\beta$ IN LUMBAR VERTEBRATE OF OVARIECTOMIZED RATS <b>Shumin Bu (China)</b>
09:15-09:30	O3-04	THE SIMILARITIES AND DIFFERENCES BETWEEN HIPPOCAMPAL LTP AND SPINAL LTP <b>Xian-Guo Liu (China)</b>
09:30-09:45	O3-05	REAL TIME MODULATION OF COMMISSURE OF THE INFERIOR COLLICULUS IS DEPENDENT ON THE BEST FREQUENCY DIFFERENCE BETWEEN BILATERAL COLLICULI <b>Hui-Xian Mei (China)</b>
09:45-10:00	O3-06	INDOMETHACIN PROTECTS ANIMALS FROM TRAUMATIC BRAIN INJURY-INDUCED INFLAMMATION AND NEURONAL DAMAGE AND INHIBITS NOGO A EXPRESSION <b>Yi-Ling Yang (Taiwan)</b>
10:00-10:15	O3-07	CARS IMAGING AND SIMULATION OF WATER MOVEMENT: A NOVEL APPROACH TO EPITHELIAL WATER TRANSPORT PHYSIOLOGY <b>Yoshiro Sohma (Japan)</b>

**Location: Room 101, 1F**

**Plenary Lecture (PL3)**

**Moderator: Dr. Samuel H.H. Chan (Taiwan)**

<b>Time</b>	<b>Session No.</b>	<b>Title / Speaker</b>
10:30-11:30	PL-03	MELATONIN MODULATES EXCITATORY AND INHIBITORY SIGNAL TRANSMISSION IN THE RETINA <b>Xiong-Li Yang (China)</b>

**Location: Room 202, 2F**

**Special Lecture 5 (SL5)**

**Moderator: Dr. Xiong-Li Yang (China)**

<b>Time</b>	<b>Session No.</b>	<b>Title / Speaker</b>
14:00-14:30	SL-09	ELECTROPHYSIOLOGICAL PERSPECTIVES ON THE TREATMENT OF PARKINSON'S DISEASE  <b>Chung-Chin Kuo (Taiwan)</b>
14:30-15:00	SL-10	EFFECTIVENESS AND MECHANISMS OF HIGH FREQUENCY ELECTRO-ACUPUNCTURE STIMULATION ON PARKINSON'S DISEASE RAT MODELS  <b>Xiao-Min Wang (China)</b>

**Location: Room 203, 2F**

**Special Lecture 6 (SL6)**

**Moderator: Dr. Harbinder Jeet Singh (Malaysia)**

<b>Time</b>	<b>Session No.</b>	<b>Title / Speaker</b>
14:00-14:30	SL-11	EFFECT OF NEONATAL HYPOTHYROIDISM ON THE CARBOHYDRATE METABOLISM AND INSULIN SECRETION OF ISOLATED ISLETS IN ADULT OFFSPRING IN RATS  <b>Saleh Zahediasl (Iran)</b>
14:30-15:00	SL-12	PATHOPHYSIOLOGICAL ROLES OF ATRIAL NATRIURETIC PEPTIDE  <b>Suhn Hee Kim (Korea)</b>

**Location: Room 205, 2F**

**Special Lecture 7 (SL7)**

**Moderator: Dr. Saeed Semnani (Iran)**

<b>Time</b>	<b>Session No.</b>	<b>Title / Speaker</b>
14:00-14:30	SL-13	A PERSPECTIVE VIEW ON DIFFERENTIAL BONE CHANGES IN PHYSIOLOGICAL AND PATHOLOGICAL HYPERPROLACTINEMIA  <b>Nateetip Krishnamra (Thailand)</b>
14:30-15:00	SL-14	CROSSTALK BETWEEN TWO ENERGY SENSORS, AMPK

AND KATP CHANNELS, IN PANCREATIC  $\beta$ -CELLS

**Won-Kyung Ho (Korea)**

**Location: Room 301, 3F**

**Special Lecture 8 (SL8)**

**Moderator: Dr. Xian Wang (China)**

<b>Time</b>	<b>Session No.</b>	<b>Title / Speaker</b>
14:00-14:30	SL-15	ANION CHANNEL-MEDIATED METABOERGIC SIGNALLING <b>Ravshan Z. Sabirov (Uzbekistan)</b>
14:30-15:00	SL-16	HOW SHOULD WE TEACH PHYSIOLOGY IN THE 21ST CENTURY? <b>Philip Poronnik (Australia)</b>

**Location: Room 101, 1F**

**Plenary Lecture 4 (PL4)**

**Moderator: Dr. Chumpol Pholpramool (Thailand)**

<b>Time</b>	<b>Session No.</b>	<b>Title / Speaker</b>
15:30-16:30	PL-04	CIRCADIAN ORGANIZATION OF BRAIN FUNCTIONS IN MAMMALS-FROM MOLECULAR TO BEHAVIOR <b>Ken-ichi Honma (Japan)</b>

**Location: Room 202, 2F**

**Symposium 10 (S10): Mechanotransduction in endothelial cells**

**Moderators: Dr. Yi Zhu (China) / Dr. Jeng-Jiann Chiu (Taiwan)**

<b>Time</b>	<b>Session No.</b>	<b>Title / Speaker</b>
16:30-16:55	S10-01	CHOLESTEROL CONTENTS REGULATED BY DIFFERENT PATTERNS OF SHEAR STRESS AND ENDOTHELIAL FUNCTION <b>Yi Zhu (China)</b>
16:55-17:20	S10-02	ROLE OF MicroRNAs IN REGULATING ENDOTHELIAL RESPONSES TO SHEAR STRESS <b>Nanping Wang (China)</b>
17:20-17:45	S10-03	BONE MORPHOGENETIC PROTEIN RECEPTOR-SPECIFIC SMAD1/5 REGULATES VASCULAR ENDOTHELIAL PROLIFERATION IN RESPONSE TO DISTURBED FLOW <b>Jeng-Jiann Chiu (Taiwan)</b>



### Symposium 10 (S10): Mechanotransduction in endothelial cells

Moderators: Dr. Yi Zhu (China) / Dr. Jeng-Jiann Chiu (Taiwan)

Time	Session No.	Title / Speaker
17:45-18:00	O6-05	ANTITHROMBOTIC EFFECT OF A POLYSACCHARIDE FRACTION FROM LAMINARIA JAPONICA IS ASSOCIATED WITH ITS PROTECTION ON ENDOTHELIAL CELLS  <b>Lu Xie (China)</b>

Location: Room 203, 2F

### Symposium 11 (S11): Pathophysiology of aging

Moderators: Dr. Jia-Yi Wang (Taiwan) / Dr. Shunbin Xu (USA)

Time	Session No.	Title / Speaker
16:30-16:55	S11-01	THE mtDNA MUTATOR MOUSE: A MITOCHONDRIAL MODEL FOR AGING  <b>Barry Hoffer (USA)</b>
16:55-17:20	S11-02	microRNAs (miRNAs) AS NEW THERAPEUTIC TARGETS AND DIAGNOSTIC BIOMARKERS FOR PARKINSON'S DISEASE (PD)  <b>Shunbin Xu (USA)</b>
17:20-17:35	O6-06	AGE INFLUENCE ON THE ATTENTIONAL EFFECTS OF WAKE-PROMOTING AGENT MODAFINIL FOLLOWING REM SLEEP DEPRIVATION  <b>Yia-Ping Liu (Taiwan)</b>
17:35-17:50	O6-07	THE INFLUENCE OF WINTER SWIMMING EXERCISE ON BLOOD-FAT AND SERUM INFLAMMATORY FACTORS IN AGED MEN  <b>He Wang (China)</b>

Location: Room 205, 2F

### Symposium 12 (S12): Vascular diseases and their therapies

Moderators: Dr. Yu-Ru Kou (Taiwan) / Dr. Tzong-Shyuan Lee (Taiwan)

Time	Session No.	Title / Speaker
16:30-16:55	S12-01	ENDOTHELIAL PROGENITOR CELLS IN CARDIOVASCULAR

		DISEASE-FROM BASIC TO CLINIC <b>Shing-Jong Lin (Taiwan)</b>
16:55-17:20	S12-02	NOVEL ROLE OF ERYTHROPOIETIN IN CHOLESTEROL METABOLISM OF MACROPHAGE-FOAM CELLS <b>Tzong-Shyuan Lee (Taiwan)</b>
17:20-17:45	S12-03	BASIC BIOLOGY AND TRANSLATIONAL IMPLICATION OF A NOVEL PLATELET-ENDOTHELIAL PROTEIN SCUBE1 <b>Ruey-Bing Yang (Taiwan)</b>
17:45-18:00	O6-08	PROSTAGLANDIN EP4 SIGNALING PLAYS A CRITICAL ROLE IN VASCULAR ELASTIC FIBER DISRUPTION IN THE DUCTUS ARTERIOSUS <b>Susumu Minamisawa (Japan)</b>

**Location: Room 301, 3F**

#### Oral Presentation 4 (O4)

**Moderators: Dr. Makoto Tominaga (Japan) / Dr. Paul Poon (Taiwan)**

Time	Session No.	Title / Speaker
16:30-16:45	O4-01	EVIDENCE FOR TRPM8-LIKE CHANNELS ACTIVATED BY THE COOLING AGENT, ICILIN, IN RAW 264.7 MACROPHAGES <b>Sheng-Nan Wu (Taiwan)</b>
16:45-17:00	O4-02	FUNCTIONAL STUDY OF A NOVEL GENE MUTATION CAUSING HYPOKALEMIC PERIODIC PARALYSIS <b>Wattana Watanapa (Thailand)</b>
17:00-17:15	O4-03	INVERSE AGONIST-LIKE ACTION OF CADMIUM ON G-PROTEIN-GATED INWARD-RECTIFIER K <sup>+</sup> CHANNELS <b>Atsushi Inanobe (Japan)</b>
17:15-17:30	O4-04	AUTONOMIC REGULATION OF TRPC3/C6/C7-CHANNELS COUPLED WITH PI(4,5)P <sub>2</sub> - DAG SIGNALLING <b>Yuko Imai (Japan)</b>
17:30-17:45	O4-05	HYDROGEN SULFIDE IN THE ROSTRAL VENTROLATERAL MEDULLA INHIBITS SYMPATHETIC VASOMOTOR TONE THROUGH ATP-SENSITIVE K <sup>+</sup> CHANNELS <b>Yuming Wu (China)</b>

## Oral Presentation 4 (O4)

**Moderators: Dr. Makoto Tominaga (Japan) / Dr. Paul Poon (Taiwan)**

<b>Time</b>	<b>Session No.</b>	<b>Title / Speaker</b>
17:45-18:00	O4-06	SELECTIVE DEFECT OF METABOTROPIC GLUTAMATE RECEPTOR SIGNALLING AT CEREBELLAR PARALLEL FIBRE-PURKINJE CELL SYNAPSES IN STAGGER MUTANT MICE  <b>Hirokazu Hirai (Japan)</b>
18:00-18:15	O4-07	ZnT-1, A MODULATOR OF VOLTAGE GATED CALCIUM CHANNELS; A TALE OF TWO CHANNELS  <b>Arie Moran (Israel)</b>

## September 14 (Wednesday)

**Location: Room 202, 2F**

### Symposium 13 (S13): Evidence-based alternative and integrative medicine application and research

**Moderators: Dr. A-Min Huang (Taiwan) / Dr. Yan-Qing Wang (China)**

Time	Session No.	Title / Speaker
08:30-08:55	S13-01	NEURAL MECHANISM OF ELECTROACUPUNCTURE ANALGESIA ON CHRONIC INFLAMMATORY PAIN <b>Yan-Qing Wang (China)</b>
08:55-09:20	S13-02	EVIDENCE-BASED MEDICINE IN ACUPUNCTURE AND ANALGESIA <b>Jaung-Geng Lin (Taiwan)</b>
09:20-09:45	S13-03	CHANGES OF SERUM PROTEIN LEVELS AFTER THE PRACTICE OF SUDARSHAN KRIYA YOGA: A PROTEOMIC STUDY IN HEALTHY AND DEPRESSED SUBJECTS <b>A-Min Huang (Taiwan)</b>
09:45-10:00	O6-09	THE DISCHARGE CHANGE OF PRIMARY AFFERENT A-DELTA-FIBERS EVOKED BY ANTIDROMICALLY ELECTRICAL STIMULATION OF THE CUTANEOUS NERVE OF ADJACENT SPINAL SEGMENTS <b>Qixin Sun (China)</b>
10:00-10:15	O6-10	TOXICITY STUDY AND ANTIHYPERLIPIDEMIC EFFECT OF CORIOLUS VERSICOLOR EXTRACT IN SPRAGUE-DAWLEY RATS <b>Sook Yee Hor (Malaysia)</b>

**Location: Room 203, 2F**

### Symposium 14 (S14): Obesity and cardiovascular abnormalities

**Moderators: Dr. Po-Shiuan Hsieh (Taiwan) / Dr. Shin-Da Lee (Taiwan)**

Time	Session No.	Title / Speaker
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### Symposium 14 (S14): Obesity and cardiovascular abnormalities

**Moderators: Dr. Po-Shiuan Hsieh (Taiwan) / Dr. Shin-Da Lee (Taiwan)**

<b>Time</b>	<b>Session No.</b>	<b>Title / Speaker</b>
08:30-08:55	S14-01	THE ROLE OF ADIPOSE COX2 ACTIVATION IN THE DEVELOPMENT OF OBESITY-ASSOCIATED DIABETES <b>Po-Shiuan Hsieh (Taiwan)</b>
08:55-09:20	S14-02	EFFECTS OF EXERCISE THERAPY ON CARDIAC HEALTH OF OBESITY: FROM CLINICAL TO BENCH EVIDENCE <b>Shin-Da Lee (Taiwan)</b>
09:20-09:45	S14-03	PATHOPHYSIOLOGICAL ROLE OF ADIPOCYTES IN METABOLIC SYNDROME-METABOLIC EFFECTS OF ENDOTHELIN-1 AND NITRIC OXIDE <b>Chi-Chang Juan (Taiwan)</b>
09:45-10:00	O6-11	CATECHINS OF GREEN TEA (CAMELIA SINENSIS) GMB4-CLONE INHIBITS PREADIPOCYTES DIFFERENTIATION AND LIPID PROFILE IN HIGH FAT DIET INDUCED IN RATTUS NORVEGICUS: IN VITRO AND IN VIVO STUDY <b>Retty Ratnawati (Indonesia)</b>
10:00-10:15	O6-12	EFFECT OF AEROBIC EXERCISE ON CHOLESTEROL STATUS AND LIPOPROTEIN ENZYME RESPONSES <b>Siti Baitul Mukarromah (Indonesia)</b>

**Location: Room 205, 2F**

### Symposium 15 (S15): Stem cell research

**Moderators: Dr. Han-Chung Wu (Taiwan) / Dr. Atsushi Suzuki (Japan)**

<b>Time</b>	<b>Session No.</b>	<b>Title / Speaker</b>
08:30-08:55	S15-01	INDUCTION OF FUNCTIONAL HEPATOCYTES FROM FIBROBLASTS BY DEFINED FACTORS <b>Atsushi Suzuki (Japan)</b>
08:55-09:20	S15-02	THE PHYSIOLOGICAL ROLE OF ABCG2 IN STEM CELLS AND STEM-LIKE BREAST CANCER CELLS <b>Chia-Ning Shen (Taiwan)</b>
09:20-09:45	S15-03	EPCAM REGULATION IS ASSOCIATED WITH THE

## Symposium 15 (S15): Stem cell research

**Moderators: Dr. Han-Chung Wu (Taiwan) / Dr. Atsushi Suzuki (Japan)**

<b>Time</b>	<b>Session No.</b>	<b>Title / Speaker</b>
		MAINTENANCE OF THE PLURIPOTENCY IN HUMAN EMBRYONIC STEM CELLS <b>Han-Chung Wu (Taiwan)</b>
09:45-10:00	O6-13	THE ROLE AND SIGNAL PATHWAYS OF DOPAMINE D3 RECEPTOR IN REGULATION OF ADULT NEURAL STEM CELL <b>Chu-Lan Lao (Macao)</b>

**Location: Room 301, 3F****Oral Presentation 5 (O5)****Moderators: Dr. Paulus Wang (Taiwan) / Dr. Won-Kyung Ho (Korea)**

<b>Time</b>	<b>Session No.</b>	<b>Title / Speaker</b>
08:30-08:45	O5-02	FLUORESCENCE IMAGING OF INTRACELLULAR SIGNALING RELATED TO ACID SECRETION FROM THE GASTRIC GLANDS  <b>Yasuko Fukushi (Japan)</b>
08:45-09:00	O5-03	IONOTROPIC GLUTAMATE RECEPTORS ACT ON EXOCYTOSIS AND INSULIN RELEASE IN PANCREATIC BETA-CELLS  <b>Ying Shen (China)</b>
09:00-09:15	O5-04	SIGNAL TRANSDUCERS AND ACTIVATORS OF TRANSCRIPTION PROTEIN AS THE CANDIDATE OF GROWTH PROMOTOR  <b>Anwar Maruf (Indonesia)</b>
09:15-09:30	O5-05	THE ROLE OF P25/CDK5 IN RETINOIC ACID-TRIGGERED APOPTOSIS OF PROSTATE CANCER CELLS  <b>Mei-Chih Chen (Taiwan)</b>
09:30-09:45	O5-06	EFFECTS OF NANO TITANIUM DIOXIDE ON INDUCTION OF PNEUMONIA IN RABBIT  <b>Vahid Nikoui (Iran)</b>

**Location: Room 202, 2F****Presentation by Young Investigator Awardees (YIA 1)****Moderators: Dr. Eminy H.Y. Lee (Taiwan) / Dr. Che-Se Tung (Taiwan)**

<b>Time</b>	<b>Session No.</b>	<b>Title / Speaker</b>
10:30-10:45	Y-01	LOCALIZATION OF THE BRAIN STEM ANTINOCICEPTIVE EFFECTS OF OREXIN-A INDUCED NOCICEPTIVE BEHAVIORS  <b>Hassan Azhdari Zarmehri (Iran)</b>

### Presentation by Young Investigator Awardees (YIA 1)

Moderators: Dr. Eminy H.Y. Lee (Taiwan) / Dr. Che-Se Tung (Taiwan)

Time	Session No.	Title / Speaker
10:45-11:00	Y-02	EXPRESSION OF AURORA-A IS CORRELATED WITH AGGRESSIVENESS OF NASOPHARYNGEAL CARCINOMA BY STIMULATING CELL MIGRATION AND INVASION VIA INCREASED FOXM1 AND MMP-2 ACTIVITY <b>Chang-Han Chen (Taiwan)</b>
11:00-11:15	Y-03	EFFECTS OF PHENCYCLIDINE ON AUDITORY GATING IN THE RAT HIPPOCAMPUS AND THE MEDIAL PREFRONTAL CORTEX <b>Dilshani Dissanayake (Sri Lanka)</b>
11:15-11:30	Y-04	MECHANICAL GATING OF $K_{ATP}$ CHANNELS IN RAT VENTRICULAR MYOCYTES <b>Haixia Huang (China)</b>
11:30-11:45	Y-05	INVOLVEMENT OF TWO DISTINCT SIGNALING PATHWAYS IN IGF-1 MEDIATED CENTRAL CONTROL OF HYPOTENSIVE EFFECTS IN NORMOTENSIVE AND HYPERTENSIVE RATS <b>Pei-Wen Cheng (Taiwan)</b>
11:45-12:00	Y-06	THE EFFECT OF SEMELIL (ANGIPARS) ON CARDIOVASCULAR SYSTEM STABILITY IN RABBITS FACED WITH MYOCARDIAL INJURY: HEMODYNAMIC, BIOCHEMICAL AND HISTOPATHOLOGICAL EVIDENCE <b>Siyavash Joukar (Iran)</b>
12:00-12:15	Y-07	INTERRUPTED REPERFUSION REDUCES THE ACTIVATION OF NADPH OXIDASE AFTER CEREBRAL I/R INJURY <b>Jia Shen (China)</b>

Location: Room 203, 2F

### Presentation by Young Investigator Awardees (YIA 2)

Moderators: Dr. Pi-hsueh S. Li (Taiwan) / Dr. Mei-Ling Tsai (Taiwan)

Time	Session No.	Title / Speaker
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## Presentation by Young Investigator Awardees (YIA 2)

Moderators: Dr. Pi-hsueh S. Li (Taiwan) / Dr. Mei-Ling Tsai (Taiwan)

Time	Session No.	Title / Speaker
10:30-10:45	Y-08	AUTONOMIC DYSFUNCTION IN PATIENTS PRESENTING WITH ANGINAL SYMPTOMS WITH NO MYOCARDIAL PERFUSION DEFECTS  <b>Rita Khadka (Nepal)</b>
10:45-11:00	Y-09	CYCLOOXYGENASE-2-DEPENDENT NEUROINFLAMMATION AND OXIDATIVE STRESS IN ROSTRAL VENTROLATERAL MEDULLA CONTRIBUTE TO NEUROGENIC HYPERTENSION FOLLOWING PERIPHERAL INFLAMMATION  <b>Kay Li-Hu Wu (Taiwan)</b>
11:00-11:15	Y-10	THE EFFECTS OF ASCORBIC ACID INJECTION INTO FOUR DIFFERENT BRAIN STEM NUCLEI ON THE MORPHINE WITHDRAWAL SIGNS IN RATS  <b>Mohammad Hossein Esmaeili (Iran)</b>
11:15-11:30	Y-11	MOLECULAR MECHANISM UNDERLYING PROGESTERONE-INDUCED ANTIPROLIFERATION OF VASCULAR ENDOTHELIAL CELLS DURING ANGIOGENESIS  <b>Sung-Po Hsu (Taiwan)</b>
11:30-11:45	Y-12	EFFECT OF AURICULAR TRANSCUTANEOUS VAGUS NERVE STIMULATION ON INFLAMMATORY REACTION IN ENDOTOXAEMIA RATS  <b>Pei-jing Rong (China)</b>
11:45-12:00	Y-13	CODONOPSIS PILOSULA ATTENUATES FRUCTOSE-INDUCED HYPERINSULINEMIA AND OXIDATIVE STRESS IN RATS  <b>Mallikarjuna Korivi (India)</b>
12:00-12:15	Y-14	HYPOXIC PRECONDITIONING INDUCED NEUROPROTECTION AGAINST CEREBRAL ISCHEMIC INJURY OF MICE AND ITS CPKC $\gamma$ -MEDIATED MOLECULAR MECHANISM  <b>Nan Zhang (China)</b>

**Location: Room 205, 2F****Presentation by Young Investigator Awardees (YIA 3)****Moderators: Dr. Chin Hsu (Taiwan) / Dr. Ying-Tung Lau (Taiwan)**

<b>Time</b>	<b>Session No.</b>	<b>Title / Speaker</b>
10:30-10:45	Y-15	ACTIVATION OF THE SIGMA RECEPTOR 1 MODULATES NMDA RECEPTOR-MEDIATED LIGHT-EVOKED EPSCS IN RAT RETINAL GANGLION CELLS  <b>Lei-Lei Liu (China)</b>
10:45-11:00	Y-16	PAROXYSMAL DEPOLARIZATION SHIFT (PDS)-LIKE DISCHARGES IN THE CEREBELLAR PURKINJE CELLS  <b>Hashem Haghdoost-Yazdi (Iran)</b>
11:00-11:15	Y-17	DISTINCT SIGNALING PATHWAYS AFTER HIGHER OR LOWER DOSES OF RADIATION IN THREE CLOSELY RELATED HUMAN LYMPHOBLAST CELL LINES  <b>Liang-Chuan Lai (Taiwan)</b>
11:15-11:30	Y-18	BINAHONG ALTERNATIVE MEDICATION IN SPORT INJURY (STUDIED IN HEMATOMA, INFLAMMATION CELL, FIBROBLAST CELL)  <b>Sri Sumartiningsih (Indonesia)</b>
11:30-11:45	Y-19	ENDOTOXEMIA WORSENS KIDNEY INJURY AND INCREASES ASYMMETRIC DIMETHYLARGININE IN BILE DUCT-LIGATED RATS  <b>You-Lin Tain (Taiwan)</b>
11:45-12:00	Y-20	RESTRICTED SPREAD OF OLFACTORY SIGNALS IN SINGLE SENSORY CILIA  <b>Hiroko Takeuchi (Japan)</b>
12:00-12:15	Y-21	microRNAs IN EARLY DIABETIC RETINOPATHY IN STREPTOZOTOCIN-INDUCED DIABETIC RATS  <b>Shunbin Xu (China)</b>

**Location: Room 301, 3F****Presentation by Young Investigator Awardees (YIA 4)****Moderators: Dr. Chen-Tung Yen (Taiwan) / Dr. Yi-Hsuan Lee (Taiwan)**

<b>Time</b>	<b>Session No.</b>	<b>Title / Speaker</b>
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## Presentation by Young Investigator Awardees (YIA 4)

Moderators: Dr. Chen-Tung Yen (Taiwan) / Dr. Yi-Hsuan Lee (Taiwan)

Time	Session No.	Title / Speaker
10:30-10:45	Y-22	SARCALUMENIN PLAYS A CRITICAL ROLE IN AGE-RELATED CARDIAC DYSFUNCTION DUE TO DECREASE IN SERCA2A EXPRESSION AND ACTIVITY  <b>Qibin Jiao (China)</b>
10:45-11:00	Y-23	DOES DETRAINING RESTORE INFLUENCE OF EXERCISE TRAINING ON MICROVASCULAR RESPONSES IN STREPTOZOTOCIN-INDUCED DIABETIC RATS?  <b>Ali Heidarianpour (Iran)</b>
11:00-11:15	Y-24	ENTERAL GLYCOLYTIC ATP PROTECTS AGAINST ISCHEMIA-INDUCED EPITHELIAL CELL NECROSIS AND MUCOSAL BARRIER DYSFUNCTION VIA INHIBITION OF RECEPTOR-INTERACTING PROTEIN 1 AND 3 COMPLEX FORMATION  <b>Linda Chia-Hui Yu (Taiwan)</b>
11:15-11:30	Y-25	DEVELOPMENT OF A NEW ANALGESIC METER EQUIPPED WITH DATA ACQUISITION SYSTEM FOR THE SCREENING OF STEPPING FORCES IN ARTHRITIC RAT MODELS  <b>Mun Fei Yam (Malaysia)</b>
11:30-11:45	Y-26	INVOLVEMENT OF $Ca^{2+}$ /CALPAIN/CDK5/P35/NMDA SIGNALING PATHWAY IN GLUTAMATE-INDUCED INJURY IN PRIMARY CULTURED RAT RETINAL NEURONS  <b>Yan-Ying Miao (China)</b>
11:45-12:00	Y-27	FUNCTIONAL INTEGRATION OF FETAL SPINAL CORD TISSUE FOLLOWING TRANSPLANTATION INTO A HIGH CERVICAL SPINAL CORD LESION IN ADULT RATS  <b>Kun-Ze Lee (Taiwan)</b>
12:00-12:15	Y-28	PATHOPHYSIOLOGIC REACTION HEATSTROKE OF NON-NARCOTIC UNCONSTRAINED RATS  <b>Yong-Qi Zhao (China)</b>