

# The 7th Conference of Asian Society for Mitochondrial Research and Medicine ( ASMRM ) and The 10th Conference of Japanese Society of Mitochondrial Research and Medicine ( J-mit ) Program

## Dec. 15. (Wed.)

18:00	<b>Registration</b>
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## Dec. 16. (Thr.)

8:00	<b>Registration</b>
8:30	<b>Opening Ceremony</b> (OC-1) Masashi Tanaka (Japan), ASMRM President (OC-2) Yasutoshi Koga (Japan), Chairperson
8:40	<b>Plenary Lecture 1 :</b> (Chair-1) Masashi Tanaka (Japan), ASMRM President (PL-1) Douglas C. Wallace (USA) *Ergonomics - Energenomics : A Mitochondrial Etiology of Complex Diseases*
9:25	<b>Session 1 : Evolution, Migration and Adaptation 1</b> (Chair-2) Hsin-Chen Lee (Taiwan) (Chair-3) Masahiro Higuchi (USA) (S-1) Hong Kyu Lee (Korea) *Functional Differences in Mitochondrial haplotypes and its disease susceptibilities; need for a new methods* (S-2) Masahiro Higuchi (USA) *A novel metabolic pathway for the transduction of the mitochondrial DNA changes into cancer progression and Warburg's effect.* (S-3) Hsin-Chen Lee (Taiwan) *Somatic mutations in mitochondrial genome and their potential roles in the progression of human cancers* (S-4) Min-Xin Guan (China) *Mitochondrial deafness*
10:45	<b>Coffee Break</b>
11:00	<b>Session 2 : Evolution, Migration and Adaptation 2</b> (Chair-4) Ian Holt (UK) (Chair-5) Takehiko Shibata (Japan) (S-5) Ian Holt (UK) *Mitochondrial DNA is Linked To The Mitochondrial Translation Apparatus And a 'mitoskeleton'* (S-6) Takehiro Yasukawa (UK) *Role of mitochondrial single-stranded DNA binding protein in the maintenance of mitochondrial DNA* (S-7) Takehiko Shibata (Japan) *Mitochondrial DNA homoplasmy as gene homogenization of repeated sequences by rolling circle replication.* (S-8) Dongchon Kang (Japan) *TFAM-associated proteins that are involved in mitochondrial RNA metabolisms*
12:20	<b>Luncheon Seminar 1 : ( Sponsored by Novo Nordisk Pharma Ltd. )</b> Chairperson : Akira Ohtake (Japan) Reiko Horikawa (Japan) *Growth hormone, IGF-1 and mitochondrial function*
13:20	<b>Poster session I</b>
14:20	<b>Plenary Lecture 2 :</b> (Chair-6) Dongchon Kang (Japan) (PL-2) Yau-Huei Wei (Taiwan) *Mitochondrial Role in the Differentiation of Human Mesenchymal Stem Cells*
15:05	<b>Session 3 : Session 3: Cell Death, apoptosis, ROS and mitochondria 1</b> (Chair-7) Kiyoshi Kita (Japan) (Chair-8) Hideyuki Majima (Japan) (S-9) Hsu-Chuan Yen (Taiwan) *Effect of mitochondrial dysfunction and oxidative stress on endogenous levels of coenzyme Q10 in human cells* (S-10) Hideyuki Majima (Japan) *Quercetin Induces Autophagy in Rat Normal Gastrointestinal Cell Line, RGM1.* (S-11) Youngmi Kim Pak (Korea) *Mitochondria: the secret chamber of therapeutic targets for age-associated degenerative diseases* (S-12) Takamasa Ishii (Japan) *Effects of mitochondrial oxidative stress by complex II SDHC V69E mutation on decreased fertility, pregnancy and delivery rates.*
16:25	<b>Coffee Break</b>
16:40	<b>Special Lecture 1 :</b> (Chair-9) Yau-Huei Wei (Taiwan) (SL-1) Shigeo Ohta (Japan) *Molecular Hydrogen Is a Novel Antioxidant to Efficiently Reduce Oxidative Stress With Potential For the Improvement of Mitochondrial Diseases*
17:10	<b>Session 4 : Session 4: Cell Death, apoptosis, ROS and mitochondria 2</b> (Chair-10) Yasuko Nakabeppu (Japan) (Chair-11) Nobutaka Hattori (Japan) (S-13) Yasuko Nakabeppu (Japan) *Molecular mechanism for oxidative DNA damage-induced neurodegeneration* (S-14) Norbert A Dencher (Germany) *Role of mitochondria and OxPhos-supercomplexes in ageing, neurodegenerative diseases and CR-induced prolongation in healthy lifespan* (S-15) Nobutaka Hattori (Japan) *A common pathway of pathogenesis of familial and sporadic forms of Parkinson's disease: Is mitochondrial dysfunction of dopaminergic neurons a common pathway?*(S-16) Yong ZHANG (China) *Exercise-induced Mitochondrial Dynamic Model*
18:30	<b>Special Lecture 2 :</b> (Chair-12) Shigeo Ohta (Japan) (SL-2) Shu-Sen LIU (China) *Evolutional aspect of Q cycle and its derived ROS cycle in electron transfer pathway branch of mitochondrial respiration in different animal species*
19:00	

## Dec. 17. (Fri.)

8:00	<b>Registration</b>
8:40	<b>Plenary Lecture 3 :</b> (Chair-13) Yasutoshi Koga (Japan), Chairperson (PL-3) Salvatore DiMauro (USA) *mtDNA Related Disease: Unfinished Business*
9:25	<b>Session 5 : Mitochondria-Fusion and Fission</b> (Chair-14) Koji Okamoto (Japan) (Chair-15) Quan CHEN (China) (S-17) Koji Okamoto (Japan) *Regulation of Mitochondria-Specific Degradation In Yeast* (S-18) Quan CHEN (China) *Molecular regulation of mitochondrial dynamics and its implication in Parkinson disease* (S-19) Naotada Ishihara (Japan) *Regulation and Physiological Roles of Mitochondrial Fission In Mammalian Cells* (S-20) Takumi Koshiba (Japan) *Mitochondrial dynamics in mammalian cells and an insight for antiviral immunity*
10:45	<b>Coffee Break</b>
11:00	<b>Session 6 : Animal model</b> (Chair-16) Anu Wartiovaara (Suomalainen) (Finland) (Chair-17) Kazuto Nakada (Japan) (S-21) Anu Wartiovaara (Suomalainen) (Finland) *Physiological Consequences of Respiratory Chain Deficiency.* (S-22) Carl A. Pinkert (USA) *From trans-mitochondrial animal models to in vivo modeling of human mitochondrial disease pathogenesis* (S-23) Emi Ogasawara (Japan) *A model mouse study: involvement of lactic acidemia in the pathogenesis of mitochondrial disease phenotypes* (S-24) Myung-Shik Lee (Korea) *Role of the skeletal muscle autophagy in the regulation of energy metabolism* (S-25) Tomomi Ide (Japan) *The role of transcriptional factor A in mtDNA and in mice*
12:40	<b>Luncheon Seminar 2 : ( Sponsored by Pfizer Japan Inc. )</b> Chairperson : Dongchon Kang (Japan) Kenji Ihara (Japan) *Growth hormone receptor and STAT5B genes contribute to lipid metabolism in the children with growth hormone deficiency*
13:40	<b>Poster session II</b>
14:40	<b>Special Lecture 3 :</b> (Chair-18) Ikuya Nonaka (Japan) (SL-3) Yasutoshi Koga (Japan) *Molecular pathology of MELAS and L-arginine therapy*
15:05	<b>Session 7 : Mitochondria-related diseases 1</b> (Chair-19) Eric A. Schon (USA) (S-26) Eric A. Schon (Columbia University, USA) *Mitochondrial Connections in Alzheimer Disease.* (S-27) Inhee Mook-Jung (Korea) *The role of beta amyloid-induced mitochondrial damage in Alzheimer's disease pathogenesis* (S-28) Jongkyeong Chung (Korea) *Regulation of mitochondrial dynamics by Parkinson's disease genes, PINK1 and Parkin*
16:05	<b>Coffee Break</b>
16:20	<b>Session 8 : Therapeutics and treatments targeting mitochondria</b> (Chair-20) Michio Hirano (USA) (Chair-21) Makoto Yoneda (Japan) (S-29) Michio Hirano (USA) *CO10 deficiencies and MNGIE: Two Treatable Mitochondrial Disorders* (S-30) Masashi Tanaka (Japan) *Mitopenia contributes to sarcopenia, osteopenia, diabetes, and metabolic syndrome: Practical approaches to verify this hypothesis* (S-31) Takahiro Izuka (Japan) *Pathogenesis of Stroke-Like Episodes in MELAS: A Role of Neuron-Astrocyte Uncoupling in Neuronal Hyperexcitability* (S-32) Makoto Yoneda (Japan) *In vivo functional brain imaging and therapeutic trial by L-arginine in patients with MELAS syndrome.*
17:40	<b>Special Lecture 4 :</b> (Chair-22) Chii-Ruey Tzeng (Taiwan) (SL-4) Kita Kiyoshi (Japan) *Mitochondria as a target of chemotherapy - from parasites to cancer cells -*
18:10	<b>Intermission</b>
18:30	<b>Banquet</b>
20:30	

## Dec. 18. (Sat.)

8:00	<b>Registration</b>
8:30	<b>Plenary Lecture 4 :</b> (Chair-23) Hong Kyu Lee (Korea) (PL-4) Chii-Ruey Tzeng (Taiwan) *The role of mitochondria in human reproduction: mitochondria in endometriosis*
9:00	<b>Special Lecture 5 and 6 :</b> (Chair-25) Yasutoshi Koga (Japan) (SL-5) Sho-ichi Yamagishi (Japan) *Role of Advanced Glycation End Products And Oxidative Stress In Vascular Complications in Diabetes* (SL-6) Minho Shong (Korea) *Roles of mitochondrial oxidative phosphorylation in adipose tissues and systemic insulin resistances*
10:00	<b>Session 9 : Mitochondria-related diseases 2</b> (Chair-26) Jiankang Liu (China) (Chair-26) Jiankang Liu (China) (S-33) Jiankang Liu (China) *Targeting mitochondrial biogenesis and mitophagy for preventing and treating insulin resistance in diabetes and obesity* (S-34) Young-Mook Lee (Korea) *Mitochondrial disease and epilepsy* *Yutaka Nishigaki (Japan) *Modern techniques to detect mitochondrial DNA mutations* (S-36) Yu-ichi Goto (Japan) *Whole mitochondrial DNA sequencing as a screening method of mitochondrial diseases*
11:20	<b>Coffee Break</b>
11:35	<b>Young Investigator Award &amp; Closing Ceremony</b> (Chair-27) Yasutoshi Koga (Japan), Chairperson (Chair-28) Masashi Tanaka (Japan), ASMRM President Five recipients will present as a brief oral presentation
12:45	<b>Luncheon Seminar 3 : ( Sponsored by KANEKA Corporation )</b> Chairperson : Yasutoshi Koga (Japan) Yorihiro Yamamoto *Saposin B and its precursor pro-saposin play key roles in absorption and transfer of CoQ10*
14:00	<b>*Open college: disease update*</b> <b>Joint program with the Japanese Association of Patients with Mitochondrial Diseases and Their Family</b> City College *Mitochondria and Life* [市民公開講座：生命を紡ぐミトコンドリア] 1) Presentation 講演 1 / Mitochondria is an essential organelle for life - 講演：「生命を紡ぐミトコンドリア」 Shigeo Ohta (Japan) - 演者：日本医科大学老人研究所 教授 太田成男 2 / Mitochondria and disorders : Genome research - 講演：「ゲノム研究からみたミトコンドリアと疾患」 Masashi Tanaka (Japan) - 演者：東京都老人総合研究所 ゲノム探索部 部長 田中雅嗣 3 / Therapy for mitochondrial disorders - 講演：「ミトコンドリア病を取り巻く治療環境」 Yasutoshi Koga (Japan) - 演者：久留米大学医学部小児科 教授 古賀晴敏 4 / Social support by Government - 講演：「特定疾患研究事業に加わったミトコンドリア病の現状と課題点」 Katsumi Nakata (Japan) - 演者：厚生労働省健康局疾病対策課 課長補佐 中田剛己 5 / Mitochondrial disorders in Hong Kong - 講演：「ミトコンドリア病を取り巻く環境」 香港の現状 Christina Hellmann-Ipsaryaris - 演者：Joshua Hellman Foundation 1 President
17:00	2) Panel Discussion パネルディスカッション