



**The 11<sup>th</sup> Symposium on  
Molecular Diabetology in Asia**  
(The Study Group of Molecular Diabetology in Asia)

**December 19, 2009**

**Venue : Splendor Kaohsiung Hotel, Kaohsiung ,  
TAIWAN**

**President: Lee-Ming Chuang, M.D., Ph.D.**  
**Professor**  
**Department of Internal Medicine &  
Graduate Institute of Clinical Medicine**  
**National Taiwan University School of Medicine**  
**Taipei, TAIWAN**

**Friday, 18<sup>th</sup> December, 2009**

**19:00**            **Welcome Party (Palace Club, 77F)**

**20:30**            **Committee Meeting (Amber Room, 42F)**

**Saturday, 19<sup>th</sup> December, 2009**

**Place: 41F Diamond II**

**8:30 – 8:40**        **Opening Remarks**

Lee-Ming Chuang (Taiwan)

Tong-Yuan Tai (Taiwan)

Kishio Nanjo (Japan)

**8:40 – 9:20**        **President Address/Lecture**

**Chairperson:** Tong-Yuan Tai (Taiwan)

**Topic:** Genetic association of diabetes and its clinical traits in Chinese population living in Taiwan

**Speaker:** Lee-Ming Chuang (Taiwan)

**9:20– 9:45**        **Educational Lecture 1: Post-GWA era of type 2 diabetes**

**Speaker:** Hiroto Furuta (Japan)

**Chairperson:** Masahiro Nishi (Japan)

**9:45 – 10:10**      **Educational Lecture 2: Mitochondria gene polymorphism and diabetes**

**Speaker:** Hong Kyu Lee (Korea)

**Chairperson:** Kyong Soo Park (Korea)

**10:10 – 10:30**                            **Coffee break**

**10:30 – 10:55**      **Educational Lecture 3: Molecular pathogenesis of diabetic nephropathy**

**Speaker:** Shyi-Jang Shin (Taiwan)

**Chairperson:** Pei-Wen Wang (Taiwan)

**10:55 – 11:20**      **Educational Lecture 4: Phenotype-genotype interactions on renal function in type 2 diabetes**

**Speaker:** Juliana Chan (HongKong)

**Chairperson:** Hong Kyu Lee (Korea)

**11:20 – 12:00**      **Invited Lecture I: Genome-wide association study of Type 2 Diabetes in Taiwan**

**Speaker:** Jer-Yuarn Wu (Taiwan)

**Chairperson:** Lo-Tone Ho (Taiwan)

**12:00 – 12:40**      **Lunch**

- 12:40 – 13:20** **Poster Discussion**  
Chairperson: **Ching-Chu Chen (Taiwan)**  
**P-1:** Altered mitochondrial biogenesis and ER stress in visceral adipose tissue of obese insulin resistant C57BL/6J mice  
**Speaker:** Pei-Wen Wang (Taiwan)
- P-2:** Serum vascular adhesion protein-1 predicts 10-year survival in type 2 diabetes  
**Speaker:** Hung-Yuan Li (Taiwan)
- P-3:** Heritability of insulin sensitivity in adolescent twin/sibling: OGTT-based versus fasting-based indices  
**Speaker:** Pi-Hua Liu (Taiwan)
- P-4:** Promoter gene polymorphisms of erythropoietin is associated with anemia in patients with type 2 diabetes mellitus  
**Speaker:** TT Chiou (Taiwan)
- P-5:** FoxO1/PGC-1 $\alpha$  inhibition by berberine are associated with reduced hepatic gluconeogenesis in high fat diet and streptozotocin induced diabetic rats  
**Speaker:** Xuan Xia (China)
- 13:30 – 14:00** **Invited Lecture II:** Protective effect of PPAR $\gamma$  and PPAR $\delta$  agonists agonist on ischemic -reperfusion organ injury  
**Speaker:** Kenneth K. Wu (Taiwan)  
**Chairperson:** Lee-Ming Chuang (Taiwan)
- 14:00 – 14:25** **Educational Lecture 5:** Characterization of genetic factors associated to type 2 diabetes in the Chinese  
**Speaker:** Chen Hu (China)  
**Chairperson:** Jianping Weng (China)
- 14:25 – 15:10** **Oral Presentations I**  
**Chairperson:** Yjin-Shing Jap (Taiwan),
- OP-1**  
Magnetic resonance image of transplanted mouse islets labeled with chitosan-coated superparamagnetic iron oxide nanoparticles  
**Jyuhn-Huarng Juang (Taiwan)**
- OP-2**  
Transplantation of mesenchymal stem cells mildly ameliorate diabetic nephropathy of streptomycin inducing diabetic rats  
**Jianwei Li (China)**

**OP-3**

Autophagy in pancreatic beta cells is essential for islet homeostasis and adaptation of beta cell mass in response to high-fat diet

**Toyoyoshi Uchida (Japan)**

**15:10 – 15:30**

**Coffee Break**

**15:30 – 16:15**

**Oral Presentations II**

Chairperson: **Juliana Chan (Hong Kong)**

**OP-4**

Association study of genetic polymorphisms of transcription factor 7-like 2 (*TCF7L2*) gene and type 2 diabetes in the Thai population

**Watip Tangjittipokin (Thailand)**

**OP-5**

TCF7L2 genetic variants and progression to diabetes in the Chinese population: pleiotropic effects on insulin secretion and insulin resistance

**Yi-Cheng Chang (Taiwan)**

**OP-6**

Association of the insulin-like growth factor binding protein-3 (*IGFBP3*) -202A/C polymorphism with type 2 diabetes

**Heung-Man Lee (Hong Kong)**

**16:15 – 17:00**

**Oral Presentations III**

Chairperson: **Katsuya Tanabe (Japan), Jyuhn-Huarng Juang (Taiwan)**

**OP-7**

Long-term administration of exendin-4 improves glucose tolerance in *Wfs1*-deficient mice

**Manabu Kondo (Japan)**

**OP-8**

Wolfram syndrome 1 gene (*WFS1*) product localizes to secretory granule and determines acidification of granule in pancreatic beta cells.

**OP-9**

Ghrelin inhibits insulin secretion dependent on the AMPK-UCP2 Pathway

**Ying Wang (Japan)**

**17:00-17:45**

**Oral Presentations IV**

Chairperson: **Hiroto Furuta (Japan), Wyne. H.H. Sheu (Taiwan)**

**OP-10**

Polymorphisms in *KCNQ1* are associated with gestational diabetes in a Korean population

**Soo Heon Kwak (Korea)**

**OP-11**

A P1198L mutation in *ABCC8* gene decreases ATP sensitivity of the  $K_{ATP}$  channel and causes permanent neonatal diabetes

**Tomoyuki Takagi (Japan)**

**OP-12**

IL4 gene and type1 diabetes mellitus in children

**Yann-Jinn Lee (Taiwan)**

**17:45 – 17:55**

**Closing Remarks from Chairman of the Study Group on Molecular Diabetology in Asia**

**Kishio Nanjo (Japan)**