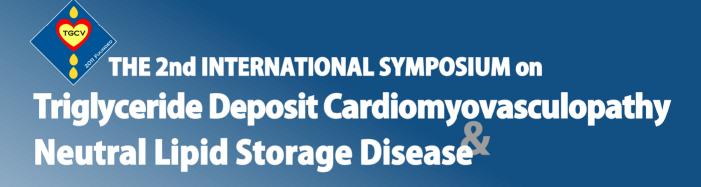
OUR MISSION IS TO OVERCOME THIS INTRACTABLE DISEASE - TGCV



PROGRAM & ABSTRACTS

DATE: April 19-20, 2013

VENUE: Osaka University Nakanoshima Center 10F

PRESIDENT: Ken-ichi Hirano Osaka University





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PRESIDENT: Ken-ichi Hirano Osaka University

- 17:00-17:12 Chairperson: Daniella Tavian, Catholic University of the Sacred Heart, Italy
 - P-1 Triglyceride deposit cardiomyovasculopathy with severe heart failure

Naoko Takada, Tohoku University, Japan

P-2 A genetic mutation of adipose triglyceride lipase accumulates in a small village in Tohoku District, Japan

Akira Suzuki, Osaka University, Japan

- 17:12-17:30 Chairperson: Ken-ichi Hirano, Osaka University, Japan
 - P-3 Triglyceride deposit atherosclerosis with infiltration of less intimal macrophage foam cells in TG deposit cardiomyovasculopathy

Yoshihiko Ikeda, National Cerebral and Cardiovascular Center, Japan

P-4 Phenotypic plasticity of vascular smooth muscle cells isolated from adipose triglyceride lipase-deficient mice

Yanhui Lin, University of the Ryukyus, Japan

P-5 Biomarker discovery for triglyceride deposit cardiomyovasculopathy using proteome and transcriptome analysis

Yasuhiro Hara, National Institute of Biomedical Innovation, Japan

- 17:30-17:48 Chairperson: Hitoshi Chiba, Hokkaido University, Japan
 - P-6 A pathophysiological model and rationale for possible treatment with medium chain fatty acids for human adipose triglyceride lipase deficiency

Ken-ichi Hirano, Osaka University, Japan

P-7 Detection of medium-chain triglyceride in fibroblast from adipose triglyceride lipase deficiency by Orbitrap LC/MS

Shu-Ping Hui, Hokkaido University, Japan

P-8 Detection of medium- and long-chain fatty acids accumulation by triglyceride deposit cardiomyovasculopathy-indicated fibroblasts using fast spectral coherent anti-Stokes Raman scattering microscopy

Harsono Cahyadi, Osaka University, Japan

- 17:48-18:00 Chairperson: Shigetoshi Sano, Kochi University, Japan
 - P-9 First large deletion in ABHD5 promoter region causing Chanarin-Dorfman syndorme Sara Missaglia, Catholic University of the Sacred Heart, Italy
 - P-10 Epidermal triglyceride levels are correlated with severity of ichthysis in Dorfman-Chanarin syndrome

Kimiko Nakajima, Kochi University, Japam

- 18:00-18:18 Chairperson: Yasuyuki Nagasawa, Hyogo College of Medicine, Japan
 - P-11 Screening for triglyceride deposit cardiomyovasculopathy in type 2 diabetes mellitus patients Nobuhiro Zaima, Kinki University, Japan
 - P-12 The biochemical characterization of human adipose triglyceride lipase (ATGL) and development of its specific measurement system: A property of his6-ATGL expressed in COS1 cells

Atsuko Takagi, National Cerebral and Cardiovascular Center Research Institute, Japan

P-13 Adipose triglyceride lipase is downregulated in db/db mouse heart – An aggravating mechanism of diabetic cardiomyopathy

Tomoaki Inoue, Fukuoka City Medical Association Hospital, Japan

- 18:18-18:30 Chairperson: Nobuhiro Zaima, Kinki University, Japan
 - P-14 Establishment of the personification-mouse model with the TGCV patient specific iPS cells Shunmei Chiba, University of Ryukyus, Japan
 - P-15 The world smallest Microminipigs: Type 1 diabetes mellitus induced by streptozotocin Hiroaki Kawaguchi, Kagoshima University, Japan
- **18:40-** Reception (buffet-style/9F SALON DE L'AMICAL)

9:00-10:00

O1. Neutral lipid storage disease (NLSD)/triglyceride deposit cardiomyo- vasculopathy (TGCV)

Chairpersons: Matthijs Hesselink, Maastricht University, The Netherlands Ken-ichi Hirano, Osaka University, Japan

- 1) Genotype-phenotype correlation in neutral lipid storage disease with myopathy Daniella Tavian. Catholic University of the Sacred Heart. Italy
- 2) Skin abnormality in Dorfman-Chanarin syndrome Shigetoshi Sano, Kochi University, Japan

10:00-11:00

O2. Possible therapeutic strategies for adipose triglyceride lipase deficiency

Chairpersons: Masatsugu Hori, Osaka, Japan Elena Pennisi, A.C.O. San Filippo NERI-Rome, Italy

1) Effects of bezafibrate treatment in two sisters with mutations in the PNPLA2 gene, causing Neutral Lipid Storage Disease with Myopathy

Norihide Fukushima, Osaka University, Japan

2) Effects of bezafibrate treatment in two sisters with mutations in the PNPLA2 gene, causing Neutral Lipid Storage Disease with Myopathy

Matthijs Hesselink, Maastricht University, The Netherlands

3) Multi-disciplinary therapeutic approach for Adipose Triglyceride Lipase Deficiency Ken-ichi Hirano, Japan TGCV Study Group, Japan

(Preparation for web conference)

11:10-12:20

O3. From rare disease to common disease

- Cardiomyovascular TG deposition in diabetes mellitus -

Chairpersons: Kunihisa Kobayashi, Fukuoka University, Japan Ken-ichi Hirano, Osaka University, Japan

Keynote lecture: Diabetic cardiovascular disease (Web)

Joel D. Schilling, Washington University, USA

- 1) Impact of diabetes mellitus on the fatty heart: learning from autopsy cases Seiya Kato, University of the Ryukyus, Japan
- 2) Human coronary atherosclerosis with triglyceride-deposit smooth muscle cells Yoshihiko Ikeda, National Cerebral and Cardiovascular Center, Japan
- 3) Quantitative coronary CT angiography: A proposed system for assessment of lipid accumulation in coronary arterial wall

Hiroaki Naito, National Cerebral and Cardiovascular Center, Japan

12:20-		
Closing Remarks:	Ken-ichi Hirano, Chairman of the Symposium	
15:00-		

Seminar for General Public