

Scientific Program

May 10, 2014

9:00-10:00 Basic science of microbubble agents I

Chairs: Shin-ichiro Umemura (Graduate School of Biomedical Engineering, Tohoku University)
Yoshitaka Mine (Toshiba Medical Systems Corporation)

S1-1	Bubble behaviors with different bubble-specific imaging	Naohisa Kamiyama	Ultrasound Engineering, GE Healthcare Japan
S1-2	Enhancement of molecular targeting in CEUS using volumic acoustic radiation force	Nicolas Rognin	Toshiba Medical Research Institute USA, Inc., Seattle, WA, USA
S1-3	Microbubble-Enhanced focused ultrasound: Application for brain drug delivery	Hao-Li Liu	Department of Electrical Engineering, Chang Gung University
S1-4	The biological and sonochemical effects of microbubbles: Impact of formulation	Mariame Ali Hassan	Department of Radiological Sciences, Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama

10:10-11:10 Basic science of microbubble agents II

Chairs: Katsuro Tachibana (Department of Anatomy, Fukuoka University School of Medicine)
Chih-Kuang Yeh (National Tsing Hua University)

S2-1	Quantification in ultrasound molecular imaging using VEGF targeting contrast agent, BR55	Katsutoshi Sugimoto	Department of Gastroenterology & Hepatology, Tokyo Medical University
S2-2	Microbubble mediated gene and drug delivery	Hak Jong Lee	Department of Radiology, Seoul National University College of Medicine, Seoul National University Bundang Hospital
S2-3	Enhancement of ultrasound-facilitated gene transfer using nanoparticles	Wen-Shiang Chen	Department of Physical Medicine & Rehabilitation, National Taiwan University Hospital & College of Medicine / Division of Medical Engineering Research, National Health Research Institute
S2-4	Cavitation-assisted delivery of gold nanoparticles for photothermal therapy	Pai-Chi Li	Institute of Biomedical Electronics and Bioinformatics, Department of Electrical Engineering, National Taiwan University

11:20-12:20 Diagnosis of various organ diseases

Chairs: **Jiro Hata** (Department of Laboratory Medicine, Kawasaki Medical School)
Seung Hyup Kim (Seoul National University Hospital)

S3-1	Contrast-enhanced ultrasonography using Sonazoid® for breast cancer	Takashi Nakamura	Mie University Hospital Breast Center
S3-2	Real-time shear wave elastography on the application for distinguishing inflammatory from fibrotic stenosis in Crohn's disease	Xiao Yan Xie	First Affiliated Hospital of Sun Yat-sen University
S3-3	Contrast-enhanced endoscopic ultrasound in pancreatobiliary diseases	Masayuki Kitano	Department of Gastroenterology and Hepatology, Kinki University Faculty of Medicine
S3-4	Real-time ultrasound contrast imaging as guidance for target biopsy of prostate cancer	Dae Chul Jung	Yonsei University College of Medicine, Severance Hospital

12:35-13:20 Technical note I -Development in imaging technology-

Chairs: **Kazushi Numata** (Gastrointestinal Department, Yokohama City University Medical Center)
Hitoshi Maruyama (Department of Gastroenterology and Nephrology, Chiba University Graduate School of Medicine)

TN-1	[GE Healthcare Japan] Think bubbly on LOGIQ ultrasound	Hiroshi Hashimoto	Ultrasound Engineering, GE Healthcare Japan
TN-2	[Hitachi Aloka Medical, Ltd.] Technical approach to advanced contrast-enhanced ultrasonography	Tatsuya Hayashi	System Section 1, Products R&D Department, Hitachi Aloka Medical, Ltd.
TN-3	[Siemens Japan K.K.] Technical advances in contrast enhanced ultrasound	John Benson	Siemens Medical Solutions, Inc. USA, Ultrasound Division

13:30-14:00 Technical note II -Development in imaging technology-

Chairs: **Hiroko Iijima** (Department of Internal Medicine, Division of Hepatobiliary and Pancreatic Diseases / Department of Ultrasound Imaging Center, Hyogo College of Medicine)
Kazunobu Aso (Department of Medicine Division of Metabolism and Biosystemic Science Asahikawa Medical University)

TN-4	[Toshiba Medical Systems. Co.] Ultrasound diagnosis using Aplio500	Xiao Yan Xie	First Affiliated Hospital of Sun Yat-sen University
TN-5	[Philips Electronics Japan, Ltd.] EPIQ: An ultrasound platform designed for Sonazoid microbubble contrast imaging	Hiroaki Ikeshima	US Application Specialist, Philips Electronics Japan, Ltd.

14:10-15:10 IVR & CEUS
Chairs: Yasuharu Imai (Department of Gastroenterology, Ikeda Municipal Hospital)

Min Hua Chen (Department of Ultrasound, Key Laboratory of Carcinogenesis and Translational Research (Ministry of Education), Peking University Cancer Hospital & Institute)

S4-1	Fusion imaging and CEUS-guided RFA of HCCs	Min Woo Lee	Samsung Medical Center, Sungkyunkwan University School of Medicine
S4-2	Irreversible electroporation (IRE, NanoKnife®) and CEUS	Fuminori Moriyasu	Department of Gastroenterology & Hepatology, Tokyo Medical University
S4-3	Simulation and navigation with CEUS for detection and ablation therapy of liver cancer	Dirk-André Clevert	Department of Clinical Radiology, University of Munich- Grosshadern
S4-4	Therapeutic response evaluation in hepatic tumor model using Dynamic Contrast-Enhanced US (DCE-US)	Jung Hoon Kim	Department of Radiology and Institute of Radiation Medicine, Seoul National University College of Medicine

15:20-16:05 Quantification and parametric imaging of CEUS
Chairs: Akiko Saito (Institute of Gastroenterology, Tokyo Women's Medical University)

Nobuki Kudo (Graduate School of Information Science and Technology, Hokkaido University)

S5-1	Parametric imaging for diffuse liver diseases	Yasukiyo Sumino	Toho University Ohmori Medical Center
S5-2	Contrast-enhanced US quantitatively detects changes of tumor perfusion in a breast cancer model after treatment with adriamycin	An Hua Li	Cancer Center Sun-Yas sen University, Guangzhou
S5-3	Qualitative and quantitative analysis of contrast-enhanced ultrasound (CEUS) in Crohn's disease to discriminate patients with different severity of lesions	Hui Xiong Xu	Department of Medical Ultrasound, Shanghai Tenth People's Hospital of Tongji University

**16:15-17:15 Guideline of CEUS
(Co-sponsored by: DAIICHI SANKYO CO., LTD.)**
Chairs: Masatoshi Kudo (Department of Gastroenterology and Hepatology, Kinki University Faculty of Medicine)

Byung Ihn Choi (Department of Radiology, Seoul National University Hospital)

S6-1	Current status of US contrast agents and relevant researches in Taiwan	Yi-Hong Chou	Department of Radiology, Taipei Veterans General Hospital / National Yang Ming University
S6-2	Guidelines for CEUS in China	Min Hua Chen	Department of Ultrasound, Key Laboratory of Carcinogenesis and Translational Research (Ministry of Education), Peking University Cancer Hospital & Institute
S6-3	Diagnostic accuracy of contrast-enhanced ultrasonography with perfluorobutane in macroscopic classification and histological differentiation of nodular hepatocellular carcinoma	Takashi Kumada	Department of Gastroenterology and Hepatology, Ogaki Municipal Hospital
S6-4	The World and European Federations of Societies for ultrasound in medicine and biology: Guidelines and good clinical practice recommendations for contrast enhanced ultrasound	David Cosgrove	Imperial and King's Colleges, London, UK