

PROGRAM

November 25 (Fri), 2022

Keynote Lecture 1

08:30 - 09:00

Room 1 (North, Kyoto Sangyo Kaikan Hall)

Chair: Shiro Takahara (*Kansai Medical Clinic for Renal Transplantation*)

KL01 The Role of Natural Killer Cells in the Immune Response in Liver Transplantation

Hideki Ohdan (*Department of Gastroenterological and Transplant Surgery, Graduate School of Biomedical & Health Sciences, Hiroshima University, Japan*)

Plenary Session 1

09:00 - 10:30

Room 1 (North, Kyoto Sangyo Kaikan Hall)

Immunological High-Risk Kidney Transplantation (DSA, AMR, Epitope)

Chairs: Hideki Ishida (*Department of Urology, Tokyo Women's Medical University, Japan*)
Sangil Min (*Seoul National University Hospital, Republic of Korea*)

PS01-1 Live Donor Renal Transplantation for DSA+ Recipients

Meng Kun Tsai, Chih-Yuan Lee, Chien-Chia Chen, Ching-Yao Yang (*Department of Surgery, National Taiwan University Hospital, Taiwan*)

PS01-2 Outcomes of High-Risk Living Donor Kidney Transplantation Compared to Deceased Donor Kidney Transplantation

Jaeseok Yang (*Yonsei University Severance Hospital, Republic of Korea*)

PS01-3 Enhance Access to Kidney Transplant: Strategies to Overcome Immunological Barrier

Maggie Kam Man Ma (*Queen Mary Hospital, University of Hong Kong, Hong Kong*)

PS01-5 Our Strategy for Immunologically High-Risk Kidney Transplantation

Tatsu Tanabe¹, Hajime Sasaki¹, Yusuke Takada¹, Kiyohiko Hotta² (¹*Kidney Transplant Surgery, Sapporo City General Hospital, Japan*, ²*Urology, Hokkaido University Hospital, Japan*)

Plenary Session 2

09:00 - 10:30

Room 2 (South, Kyoto Sangyo Kaikan Hall)

Current Status of ABO-Incompatible Liver Transplantation

Chairs: Wei-Chen Lee (*Chang Gung Memorial Hospital, Taiwan*)
Hideki Ohdan (*Department of Gastroenterological and Transplant Surgery, Graduate School of Biomedical and Health Sciences, Hiroshima University, Japan*)

PS02-1 Quick Preparation of ABO-Incompatible Living Donor Liver Transplantation for Acute Liver Failure

Wei-Chen Lee (*Division of Liver and Transplantation Surgery, Department of General Surgery, Chang-Gung Memorial Hospital, Taiwan*)

- PS02-2** **Effect of Fc- γ Receptor Polymorphism on Rituximab-Mediated B Cell Depletion in ABO-Incompatible Adult Living Donor Liver Transplantation**
 Hiroshi Sakai, Ryosuke Nakano, Naoki Tanimine, Hiroyuki Tahara, Masahiro Ohira, Kentaro Ide, Yuka Tanaka, Hideki Ohdan (*Gastroenterological and Transplant Surgery, Hiroshima University, Japan*)
- PS02-3** **ABO-Incompatible Adult Living Donor Liver Transplantation Under the Desensitization Protocol With Rituximab**
 Gi-Won Song (*Asan Medical Center, University of Ulsan College of Medicine, Republic of Korea*)
- PS02-4** **ABO-Incompatible Liver Transplantation: Kyushu Experience**
 Tomoharu Yoshizumi, Noboru Harada, Shinji Itoh, Shohei Yoshiya, Takeo Toshima, Hiroto Kayashima (*Department of Surgery and Science, Kyushu University, Japan*)

Basic Science in Transplantation 1

10:40 - 12:10

Room 1 (North, Kyoto Sangyo Kaikan Hall)

Deliberate Induction of Immune Tolerance in Organ Transplantation: Clinical and Basic Research Progress

Chairs: Jaeseok Yang (*Yonsei University Severance Hospital, Republic of Korea*)
 Susumu Eguchi (*Department of Surgery, Nagasaki University Graduate School of Biomedical Sciences, Japan*)

- BS1-1** **Short-Term Therapy with Anti-ICAM-1 Monoclonal Antibody Induced Long-Term Liver Allograft Survival**
 Suk Kyun Hong¹, Dong Kyun Han², Sun-Kyung Lee², Jiyeon Kim³, Eung-Soo Hwang³, Haeryoung Kim⁴, Kwangpyo Hong¹, Jae-Il Lee⁵, Jae-Hyung Cho¹, Jeong-Moo Lee¹, YoungRok Choi¹, Kwang-Woong Lee¹, Nam-Joon Yi¹, Jaeseok Yang^{1,2,6}, Kyung-Suk Suh¹ (*¹ Division of HBP Surgery, Department of Surgery, Seoul National University Hospital, Republic of Korea, ² Biomedical Research Institute, Seoul National University College of Medicine, Republic of Korea, ³ Department of Microbiology and Immunology, Seoul National University College of Medicine, Republic of Korea, ⁴ Department of Pathology, Seoul National University Hospital, Republic of Korea, ⁵ Department of Medicine, Seoul National University College of Medicine, Republic of Korea, ⁶ Transplantation Center, Seoul National University Hospital, Republic of Korea*)
- BS1-2** **Antigen Specific Regulatory T cell-based Approach for Induction of Transplant Tolerance**
 Koichiro Uchida, Kazuyoshi Takeda, Saori Hirota, Hisashi Bashuda, Ko Okumura (*Juntendo University Center for Immunotherapy and Diagnosis, Japan*)
- BS1-3** **Characteristics of Treg and Tolerance Induced by Treg Following Liver Transplantation**
 Ling Lu (*Hepatobiliary Center, The First Affiliated Hospital of Nanjing Medical University, China*)
- BS1-4** **Donor pDCs Modulate Effector and Regulatory T cell Responses in Mouse Spontaneous Liver Transplant Tolerance**
 Ryosuke Nakano^{1,2}, Osamu Yoshida², Shoko Kimura², Toshimasa Nakao², Shinichiro Yokota², Yoshihiro Ono², Marta I. Minervini³, Hideki Ohdan¹, David A. Geller^{2,3}, Angus W. Thomson² (*¹ Hiroshima University, Japan, ² Starzl Transplantation Institute, Department of Surgery, University of Pittsburgh School of Medicine, USA, ³ Liver Cancer Center, University of Pittsburgh Medical Center, USA*)

Plenary Session 3

10:40 - 12:10

Room 2 (South, Kyoto Sangyo Kaikan Hall)

Lung Transplantation for Pulmonary Hypertension

Chair: Toyofumi F. Chen-Yoshikawa (Nagoya University, Japan)

PS03-1 Lung Transplantation for Pulmonary Arterial Hypertension —A Single Institutional Experience in 26 Years

Xu-Heng Chiang^{1,2}, Hsiao-Hsun Hsu² (¹ Department of Medical Education, National Taiwan University Hospital, Taiwan, ² Department of Surgery, National Taiwan University and National Taiwan University Hospital, Taiwan)

PS03-2 Lung Transplantation for Pulmonary Hypertension: Perioperative Considerations

Sehoon Choi (Thoracic and Cardiovascular Surgery, Asan Medical Center, University of Ulsan College of Medicine, Republic of Korea)

PS03-3 Living-Donor Lobar Versus Cadaveric Lung Transplantation for Pulmonary Hypertension

Hiroshi Date (Department of Thoracic Surgery, Kyoto University, Japan)

Luncheon Seminar 1

12:20 - 13:00

Room 1 (North, Kyoto Sangyo Kaikan Hall)

Chair: Hideki Ohdan (Department of Gastroenterological and Transplant Surgery, Graduate School of Biomedical and Health Sciences, Hiroshima University, Japan)

LS01 Treatment of Complications of Kidney Transplant

Masaomi Nangaku (Division of Nephrology and Endocrinology, The University of Tokyo Graduate School of Medicine, Japan)

Co-sponsored by Chugai Pharmaceutical Co., Ltd.

Luncheon Seminar 2

12:20 - 13:00

Room 2 (South, Kyoto Sangyo Kaikan Hall)

Chair: Yoshihiko Watarai (Japanese Red Cross Aichi Medical Center Nagoya Daini Hospital, Japan)

LS02 The Importance of Measuring Complement Binding Ability in Transplantation

Katsunori Miyake (Henry Ford Hospital Division of Transplant and Hepatobiliary Surgery Research Associate, Japan)

Co-sponsored by Immucor K.K.

Presidential Address

13:05 - 13:25

Room 1 (North, Kyoto Sangyo Kaikan Hall)

Chair: Atsushi Aikawa (Emeritus Professor, Toho University, Japan)

PA What Can and Should TSS Do for the Future of Organ Transplantation in Asia?

Ryoichi Imamura (Department of Urology, Osaka University Graduate School of Medicine, Japan)

Keynote Lecture 2

13:25 - 13:55

Room 1 (North, Kyoto Sangyo Kaikan Hall)

Chair: Yoshihiko Watarai (*Japanese Red Cross Aichi Medical Center Nagoya Daini Hospital, Japan*)

KL02

Bridging Ischemia-Reperfusion Injury and Heterologous Alloimmunity to Mediate Acute Graft Rejection

Robert Fairchild (*Transplant Center, Cleveland Clinic, USA*)

Plenary Session 4

14:00 - 15:30

Room 1 (North, Kyoto Sangyo Kaikan Hall)

Current Status and Challenges for Clinical Application of Liver Regeneration Medicine

Chair: Eiji Kobayashi (*Department of Kidney Regenerative Medicine Industry-Academia Collaborative Department, The Jikei University School of Medicine, Japan*)

PS04-1

Current Status and Challenges for Clinical Application of Liver Regeneration Medicine

Hiroshi Yagi, Morisaku Toshinori, Shungo Nagata, Tomonori Tsuchida, Kotaro Nishi, Daisuke Udagawa, Hideaki Kojima, Minoru Kitago, Yuko Kitagawa (*Department of Surgery, Keio University, School of Medicine, Japan*)

PS04-2

Assembly and Function of an Engineered Liver Graft Generated Solely from Human Induced Pluripotent Stem Cells-Towards Autologous Liver Transplantation

Kazuki Takeishi^{1,2}, Takahiro Tomiyama¹, Norifumi Iseda¹, Katsuya Toshida¹, Shohei Yoshiya¹, Hiroto Kayashima¹, Shinji Itoh¹, Mizuki Ninomiya², Hidefumi Higashi², Hiroyuki Kuwano², Noboru Harada¹, Alejandro Soto-Gutierrez³, Tomoharu Yoshizumi¹ (¹ *Department of Surgery and Science, Kyushu University, Japan*, ² *Department of Surgery, Fukuoka City Hospital, Japan*, ³ *Department of Pathology, School of Medicine, University of Pittsburgh, USA*)

PS04-3

Small Molecule-Mediated Cellular Reprogramming and the Cellular Niche of Human Liver

Yohan Kim^{1,2}, Meritxell Huch¹, Dongho Choi^{2,3,4} (¹ *Max-Planck-Institute of Molecular Cell Biology and Genetics, Germany*, ² *Department of Surgery, Hanyang University College of Medicine, Republic of Korea*, ³ *Hanyang Indang Center of Regenerative Medicine and Stem Cell Research, Hanyang University, Republic of Korea*, ⁴ *Department of HY-KIST Bio-Convergence, Hanyang University, Republic of Korea*)

PS04-5

TBD

Hsuan-Shu Lee (*Institute of Biotechnology, National Taiwan University, Taiwan*)

Plenary Session 5

15:40 - 17:10

Room 1 (North, Kyoto Sangyo Kaikan Hall)

Basic and Clinical Research in Pancreas and Islet Transplantation

Chairs: Yi-Ming Shyr (Taipei Veterans General Hospital, Taiwan)
Yoshito Tomimaru (Department of Gastroenterological Surgery, Graduate School of Medicine, Osaka University, Japan)

PS05-1 Utility of Contrast-enhanced Ultrasonography in Predicting Graft Endocrine Function in Pancreas Transplantation

Naohiro Aida¹, Taihei Ito¹, Kei Kurihara¹, Izumi Hiratsuka², Megumi Shibata², Atsushi Suzuki², Midori Hasegawa³, Takashi Kenmochi¹ (¹ Department of Transplantation and Regenerative Medicine, Fujita Health University, School of Medicine, Japan, ² Department of Endocrinology, Diabetes and Metabolism, Fujita Health University, School of Medicine, Japan, ³ Department of Nephrology, Fujita Health University, School of Medicine, Japan)

PS05-2 Generation of iPSC-Derived Insulin-producing Cells from Patients with Type 1 and Type 2 Diabetes Compared with Healthy Control

Kun Ho Yoon, Min-Jung Kim, Ji-Won Kim (Department of Endocrinology and Metabolism, The catholic university of Korea, Republic of Korea)

PS05-3 Islet Transplantation and β Cell Regenerative Medicine

Takayuki Anazawa, Takashi Ito, Yuuki Masano, Shinya Okumura, Norio Emoto, Aya Izuwa, Su Hang, Nanae Fujimoto, Koichiro Hata, Etsuro Hatano (Department of Surgery, Kyoto University, Japan)

PS05-4 Islet Xenotransplantation in Korea

Chung Gyu Park^{1,2,3}, Hyun Je Kim^{1,2,3}, Byeong Cheol Kang^{2,3}, In Jin Jang⁴, SeungHwan Lee⁴, Ivo Kwon⁵ (¹ Seoul National University College of Medicine, Republic of Korea, ² Transplantation Research Institute, Seoul National University College of Medicine, Republic of Korea, ³ Department of Biomedical Sciences, Seoul National University College of Medicine, Republic of Korea, ⁴ Department of Pharmacology, Clinical Pharmacology Unit, and Clinical Trials Center, Seoul National University, Republic of Korea, ⁵ Department of Medical Education, Ewha Womans University College of Medicine, Republic of Korea)

PS05-5 Pancreas Transplant Alone in Uremic (PTAU) Patients -Taiwan Experience

Shin E Wang, Yi-Ming Shyr, Shih-Chin Chen, Bor-Uei Shyr, Bor-Shiuan Shyr (Department of Surgery, Taipei Veterans General Hospital and National Yang Ming Chiao Tung University, Taiwan)

Plenary Session 6

15:40 - 17:10

Room 2 (South, Kyoto Sangyo Kaikan Hall)

Virus Infection in Kidney Transplant Recipient (BK, CMV, EB, Except COVID-19)

Chairs: Shigeru Satoh (Department of Urology, Akita University Graduate School of Medicine, Japan)
Norihiro Goto (Department of Transplant Internal Medicine, Transplant Surgery and Endocrinology, Japanese Red Cross Aichi Medical Center Nagoya Daini Hospital, Japan)

PS06-1 [Keynote Lecture] BKV, CMV and EBV Infection After Living-Related Kidney Transplantation in the Last 2 Decades

Norihiro Goto¹, Hiroaki Yonishi¹, Keitaro Nishizawa¹, Yuuki Hasegawa², Kei Tanaka², Kenta Futamura¹, Manabu Okada², Takahisa Hiramitsu², Shunji Narumi², Yoshihiko Watarai² (¹ Transplant Nephrology, Japanese Red Cross Aichi Medical Center Nagoya Daini Hospital, Japan, ² Transplant Surgery, Japanese Red Cross Aichi Medical Center Nagoya Daini Hospital, Japan)

PS06-2 BK Polyomavirus Integration with Carcinogenicity Gradually Dominates Since the Early Non-Neoplastic Stages of Viral Infection

Yun Miao (Department of Transplantation, Nanfang Hospital, Southern Medical University, China)

PS06-3 Cytomegalovirus Infection in Pediatric Kidney Transplant Patients: A Single Center Experience

Lan Zhu¹, Weijie Li², Daqiang Zhao¹, Yu Zhang³, Gang Chen¹ (¹ Institute of Organ Transplantation, Tongji Hospital, Tongji Medical College, Huazhong University of Science and Technology, China, ² Department of Pharmacy, Tongji Hospital, Tongji Medical College of Huazhong University of Science and Technology, China, ³ Department of Pediatrics, Tongji Hospital, Tongji Medical College of Huazhong University of Science and Technology, China)

PS06-4 Manifestations of Post-Transplantation Lymphoproliferative Disorder in Kidney Transplant Recipients

Mariko Toyoda¹, Chiaki Kawabata¹, Yuji Hidaka², Shigeyoshi Yamanaga² (¹ Nephrology, Japanese Red Cross Kumamoto Hospital, Japan, ² Surgery, Japanese Red Cross Kumamoto Hospital, Japan)

Evening Seminar 1

17:25 - 18:05

Room 1 (North, Kyoto Sangyo Kaikan Hall)

In-on-out

-Tradition, What You Have Treasured and What You Have Improved-

Chair: Ryoichi Imamura (Department of Urology, Osaka University Graduate School of Medicine, Japan)

ES01-1 Surgical Challenges for Improved Outcome and Wide Application in Kidney Transplantation

Daiki Iwami (Jichi Medical University, Division of Renal Surgery and Transplantation, Department of Urology, Japan)

ES01-2 Progression of the Less Invasive Laparoscopic Donor Nephrectomy

Ken Nakagawa (Department of Urology, Tokyo Dental College Ichikawa General Hospital, Japan)

Co-sponsored by Johnson & Johnson K.K.

Evening Seminar 2

17:25 - 18:05

Room 2 (South, Kyoto Sangyo Kaikan Hall)

Intravenous Immunoglobulin as the Desensitization for Kidney Transplant Recipients with Donor Specific Antibody

Chair: Hideki Ishida (Department of Urology, Tokyo Women's Medical University, Japan)

ES02 Mechanisms and Utility of Intravenous Immunoglobulin in Kidney Transplantation

Takayuki Hirose (Department of Urology, Hokkaido University Hospital, Japan)

Co-sponsored by Japan Blood Products Organization

November 26 (Sat), 2022

Morning Seminar 1

08:15 - 08:55

Room 1 (North, Kyoto Sangyo Kaikan Hall)

Chair: Shiro Takahara (*Kansai Medical Clinic for Renal Transplantation, Japan*)

MS01 Post Transplant Anemia

Hideki Ishida (*Department of Urology, Tokyo Women's Medical University, Japan*)

Co-sponsored by Kyowa Kirin Co., Ltd.

Morning Seminar 2

08:15 - 08:55

Room 2 (South, Kyoto Sangyo Kaikan Hall)

Chair: Tomoharu Yoshizumi (*Department of Surgery and Science, Graduate School of Medical Sciences, Kyushu University, Japan*)

MS02 Third Wave of Xenotransplantation: Enthusiasm and Commitment for Clinical Application

Takaaki Kobayashi (*Department of Renal Transplant Surgery, Aichi Medical University School of Medicine, Japan*)

Co-sponsored by Novartis Pharma K.K.

Keynote Lecture 3

09:00 - 09:30

Room 1 (North, Kyoto Sangyo Kaikan Hall)

Chair: Eiji Kobayashi (*Department of Kidney Regenerative Medicine Industry-Academia Collaborative Department, The Jikei University School of Medicine, Japan*)

KL03 Interspecies Organogenesis: Generation of Transplantable Organs *in vivo*

Hiromitsu Nakauchi^{1,2} (¹ *Institute of Stem Cell Biology and Regenerative Medicine, Department of Genetics, Stanford University School of Medicine, USA,* ² *Stem Cell Therapy Laboratory, Advanced Research Institute, Tokyo Medical and Dental University, Japan*)

Plenary Session 7

09:30 - 10:30

Room 1 (North, Kyoto Sangyo Kaikan Hall)

Digitalization and Digital Transformation in Transplant Community

Chairs: Motoo Araki (Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Japan)
Hsu-Han Wang (Department of Urology, Chang Gung Memorial Hospital, Taiwan)

PS07-1 Early Experience with Mobile Phone APP for Recipient Education and Mobile Electric Medical Record System to Improve QOL for Transplant Physician

Yoshihiko Watarai¹, Kei Tanaka¹, Hiroaki Yonishi², Keitaro Nishizawa², Yuki Hasegawa¹, Kenta Futamura², Manabu Okada¹, Takahisa Hiramitsu¹, Norihiko Goto², Shunji Narumi¹, Mayumi Nobata³, Tomoko Nishikawa³, Satoshi Ito⁴, Shinji Kishi⁴ (¹ Department of Transplant Surgery, Japanese Red Cross Aichi Medcal Center Nagoya Daini Hospital, Japan, ² Department of Transplant Nephrology, Japanese Red Cross Aichi Medcal Center Nagoya Daini Hospital, Japan, ³ Department of Nursing, Japanese Red Cross Aichi Medcal Center Nagoya Daini Hospital, Japan, ⁴ Department of Medical Health Management, Japanese Red Cross Aichi Medcal Center Nagoya Daini Hospital, Japan)

PS07-2 AI-based Autosegmentation and Kidney Volumetry: Prediction of Remnant Renal Function in Living Donor and Recipient Renal Function

Sangil Min (Seoul National University Hospital, Republic of Korea)

Plenary Session 8

09:30 - 11:00

Room 2 (South, Kyoto Sangyo Kaikan Hall)

Myocardial Recovery with Mechanical Circulatory Support, Surgery, and Regenerative Medicine

Chairs: Koichi Toda (Osaka University, Japan)
Joon Bum Kim (Department Thoracic and Cardiovascular Surgery, Asan Medical Center, University of Ulsan College of Medicine, Republic of Korea)

PS08-1 Challenges to the Limit of Treatment for Severe Heart Failure Using Regenerative Medicine [Keynote Lecture]

Shigeru Miyagawa (The Department of Cardiovascular Surgery, Osaka University, Japan)

PS08-2 HeartCon, a New LVAD Independently Developed in China

Xiaocheng Liu (TEDA International Cardiovascular Hospital, China)

PS08-3 Surgery for Ischemic MR in Ischemic Cardiomyopathy

Joon Bum Kim (Department Thoracic and Cardiovascular Surgery, Asan Medical Center, University of Ulsan College of Medicine, Republic of Korea)

PS08-4 BiVACOR - A Rotary Flow Total Artificial Heart

Daniel Timms (BiVACOR, Inc., USA)

PS08-5 The Role of the Mechanical Circulatory Support (MCS) Coordinator in Promoting Self-care in Patients with a Ventricular Assist Device (VAD); The Australian Perspective

Janelle McLean (Heart and Lung Transplant Services, The Alfred Hospital, Australia)

State-of-the-art Lecture

10:35 - 11:00

Room 1 (North, Kyoto Sangyo Kaikan Hall)

Chair: Hiroto Egawa (*Division of Hepatobiliary and Pancreatic Surgery, Department of Surgery, Tokyo Women's Medical University School of Medicine, Japan*)

SL Personalized Immunosuppressive Therapy in Organ Transplantation by Integrating Genomic and Cell Biological Data

Yuka Tanaka (*Graduate School of Biochemical & Health Science, Hiroshima University, Japan*)

Plenary Session 9

11:10 - 12:40

Room 2 (South, Kyoto Sangyo Kaikan Hall)

Present Status and Future Challenges in Heart Transplantation and VAD Treatment in Asia

Chairs: Minoru Ono (*Graduate School of Medicine, Department of Cardiovascular Surgery, the University Tokyo, Japan*)
Cumaraswamy Sivathasan (*Consultant Cardiothoracic & Vascular Surgeon at Heart Lung and Vascular Centre, Singapore*)

PS09-1 Current Status of the Heart Transplant and Proposal to its Development in Japan in the Future
[Keynote Lecture]

Shinichi Nunoda (*Department of Therapeutic Strategy for Severe Heart Failure, Tokyo Women's Medical University Graduate School of Medicine, Japan*)

PS09-2 Present Status and Future Challenges in Heart Transplantation and VAD Treatment in Asia

In-Cheol Kim^{1,2} (¹ *Keimyung University Dongsan Hospital, Republic of Korea*, ² *Visiting Professor, Advanced Heart Disease Section, Heart Transplant Program, Smidt Heart Institute, Cedars-Sinai Medical Center, USA*)

PS09-3 Heart Transplantation and Heart Failure Program in National Taiwan University Hospital

Nai Hsin Chi, Yah-Sharng Chen (*National Taiwan University Hospital, Taiwan*)

PS09-4 Current Status of Heart Transplants and LVADS in India and Future Directions

K.R. Balakrishnan (*MGM Healthcare, India*)

PS09-5 Lessons Learnt in Developing a Mechanical Cardiac Support Program (MCS) to Support Heart Transplantation in Singapore

Cumaraswamy Sivathasan (*National Heart Center, Singapore*)

Luncheon Seminar 3

12:50 - 13:30

Room 1 (North, Kyoto Sangyo Kaikan Hall)

Chair: Masayoshi Okumi (*Department of Urology, Kyoto Prefectural University of Medicine, Kyoto, Japan*)

LS03 Development of Immunomonitoring System to Predict Chronic Antibody-mediated Rejection in Kidney Transplant Recipients

Yohiko Hotta (*Department of Urology, Hokkaido University Hospital, Sapporo, Hokkaido, Japan*)

Co-sponsored by Astellas Pharma Inc.

Luncheon Seminar 4

12:50 - 13:30

Room 2 (South, Kyoto Sangyo Kaikan Hall)

ABO-Incompatible Organ Transplantation

Chair: Shiro Takahara (*Kansai Medical Clinic for Renal Transplantation, Japan*)

LS04-1 Liver Part

Hiroto Egawa (*Division of Hepatobiliary and Pancreatic Surgery, Department of Surgery, Tokyo Women's Medical University School of Medicine, Japan*)

LS04-2 Kidney Part

Masayuki Tasaki (*Division of Urology, Department of Regenerative & Transplant Medicine, Graduate School of Medical and Dental Sciences, Niigata University, Japan*)

Co-sponsored by Zenyaku Kogyo Co., Ltd.

Keynote Lecture 4

13:35 - 14:05

Room 1 (North, Kyoto Sangyo Kaikan Hall)

Chair: Kenji Yuzawa (*National Hospital Organization Mito Medical Center, Japan*)

KL04 Emerging Topics in Organ Transplantation: Addressing the Organ Shortage Crisis and Refining Immunosuppression

Stefan G. Tullius (*MD Distinguished Chair in Transplant Surgery, Chief Division of Transplant Surgery, Director, Transplant Surgery Research Laboratory, Brigham and Women's Hospital, Professor of Surgery, Harvard Medical School, Executive Editor, Transplantation, Vice President, The Transplantation Society, USA*)

Basic Science in Transplantation 2

14:10 - 15:40

Room 1 (North, Kyoto Sangyo Kaikan Hall)

Immune Rejection, Regulation, and Regenerative Medicine in Transplantation

Chairs: Xiao-Kang Li (*National Research Institute for Child Health & Development, Japan*)
Eiji Kobayashi (*Department of Kidney Regenerative Medicine Industry-Academia Collaborative Department, The Jikei University School of Medicine, Japan*)

BS2-1 Tissue-Resident Memory T Cells and Primed Macrophages Mediated Acute Allo-Graft Rejection

Yong ZHAO^{1,2,3} (¹ State Key Laboratory of Membrane Biology, Institute of Zoology, Chinese Academy of Sciences, China, ² University of Chinese Academy of Sciences, China, ³ Institute for Stem Cell and Regeneration, Chinese Academy of Sciences, China)

BS2-2 Post-Transplant Immune Regulation on Cancer Recurrence after Liver Transplantation

Nancy Kwan MAN (*The University of Hong Kong, Hong Kong*)

BS2-3 Game Changer for Organ Transplantation Using Regenerative Medicine

Eiji Kobayashi (*Department of Kidney Regenerative Medicine, Industry-Academia Collaborative Department, The Jikei University School of Medicine, Japan*)

Plenary Session 10

14:10 - 15:40

Room 2 (South, Kyoto Sangyo Kaikan Hall)

Evaluation Procedure of Graft Function (Donor, Post Kidney Transplantation)

Chairs: Ken Sakai (Toho University Omori Hospital, Japan)
Chul Woo Yang (Seoul St.Mary's Hospital, The University of Korea, Republic of Korea)

PS10-1 Use of MRI as a Tool for Non-Invasively Evaluating Kidney Grafts Before and after Transplantation

Jun-Ya Kaimori^{1,2}, Koki Hattori², Yuta Asahina², Sachio Kajimoto², Yohei Doi², Tatsufumi Oka², Yusuke Sakaguchi^{1,2}, Shiro Takahara³, Yoshitaka Isaka¹ (¹ Department of Inter-Organ Communication Research in Kidney Diseases, Osaka University Graduate School of Medicine, Japan, ² Department of Nephrology, Osaka University Graduate School of Medicine, Japan, ³ Department of Kidney Transplantation, Kansai Medical Hospital, Japan)

PS10-2 Pre Immunological Evaluation in Cadaveric and Living Transplant Including Donor Exchange Program

Sangho Lee (Department of Nephrology, Kyung Hee University, Republic of Korea)

PS10-3 Pre Operative Evaluation in Living Donors and Recipients in Taiwan

Ming Ju Wu (Taichung Veterans General Hospital, Taiwan)

PS10-4 Pre and Post Evaluation of Kidney Transplant for Long Term Graft Survival in Korea

[Keynote Lecture] Chul Woo Yang (Seoul St.Mary's Hospital, Catholic University Medical College, Republic of Korea)

Plenary Session 11

15:45 - 17:15

Room 1 (North, Kyoto Sangyo Kaikan Hall)

Therapeutic Strategy of Preformed and Denovo DSA for LDLT: Clinical and Translational Research

Chairs: Hiroto Egawa (Division of Hepatobiliary and Pancreatic Surgery, Department of Surgery, Tokyo Women's Medical University School of Medicine, Japan)
Myoung Soo Kim (Department of Surgery, Yonsei University College of Medicine, Republic of Korea)

PS11-1 Therapeutic Strategy of Preformed and De Novo DSA for LDLT: Clinical and Translational Research

[Keynote Lecture]

Hiroto Egawa (Division of Hepatobiliary and Pancreatic Surgery, Department of Surgery, Tokyo Women's Medical University School of Medicine, Japan)

PS11-2 Therapeutic Strategy of De Novo DSA for LDLT Through HLA Epitope Compatibility

Masaaki Hirata¹, Takashi Ito¹, Takero Shindo², Shintaro Yagi³, Etsuro Hatano¹ (¹ Department of Surgery, Kyoto University, Japan, ² Department of Hematology and Oncology, Kyoto University, Japan, ³ Department of Hepato-Biliary-Pancreatic Surgery and Transplantation, Kanazawa University, Japan)

PS11-3 The Impact of Donor-Specific Anti-HLA Antibodies on Living-Donor Liver Transplantation

Takeo Toshima, Noboru Harada, Shinji Itoh, Hiroto Kayashima, Yoshihiro Nagao, Shohei Yoshiya, Takahiro Tomino, Yukiko Kosai-Fujimoto, Yuriko Tsutsui, Katsuya Toshida, Yuuki Nakayama, Tomoharu Yoshizumi (Department of Surgery and Science, Kyushu University, Japan)

Women in Transplantation

15:45 - 17:15

Room 2 (South, Kyoto Sangyo Kaikan Hall)

Gender Disparity in Kidney Transplantation in Asia (WIT)

Chairs: Curie Ahn (*Div. Nephrology, National Medical Center, Republic of Korea*)
Yuki Nakagawa (*Department of Urology, Juntendo University, Graduate School of Medicine, Japan*)

WT-1 Gender Differences and Prognosis of Renal Transplantation in Hong Kong

Maggie Kam Man Ma (*Queen Mary Hospital, University of Hong Kong, Hong Kong*)

WT-2 Gender Imbalance in Kidney Transplantation in Japan

Yuki Nakagawa^{1,2,3}, Makiko Mieno^{2,4}, Taiji Nozaki³, taiki Ogasa³, Haruno Kawano³, Satoshi Muto³, Harumi Nakamura², Fumino Noguchi², Hitomi Sasaki¹, Yasutsugu Takada¹, Taihei Ito¹, Yuka Tanaka¹, Takashi Kenmochi², Hiroshi Date¹, Shigeo Horie³ (¹ *The Japan Society for Transplantation Gender equality Committee Tokyo, Japan*, ² *Japanese Society for Clinical Kidney Transplantation Registration Committee Tokyo, Japan*, ³ *Division of Urology, Juntendo University, Japan*, ⁴ *Jichi Medical University, Japan*)

WT-3 Gender Disparity in Access to and Outcomes after Kidney Transplantation in Asia

Germaine Wong (*Department of Transplantation Medicine, Westmead Hospital, Australia*)

WT-4 Gender Differences and Prognosis of Kidney Transplantation Throughout Asia

Miyeun Han (*National Medical Center, Republic of Korea*)