International Sessions

Welcome to J-PSRC

October 13 (Thu), 2022 9:00～9:25 (Venue 4)

LIVE

Moderators: Naoki Morimoto (President, Japan Society of Plastic and Reconstructive Surgery)

History of the Research Council Meeting of Japan Society of Plastic and Reconstructive Surgery

Hiroshi Mizuno (International Committee Chair, Japan Society of Plastic and Reconstructive Surgery)

PSRC Session

October 13 (Thu), 2022 9:30～10:30 (Venue 4)

LIVE • On-Demand

Moderators: Kotaro Yoshimura (Jichi Medical University)
Hiroshi Mizuno (Juntendo University)

Biomedical Innovation in Academic Plastic Surgery

Justin M. Sacks (Division of Plastic and Reconstructive Surgery, Department of Surgery, Washington University, USA)

Surgical Innovation in Breast Reconstruction through Integration of New and Existing Technologies.

Michael Findlay (The Peter MacCallum Cancer Centre. The Canberra Hospital, Australia)

Facial Palsy/Imaging Technology

October 13 (Thu), 10:35～11:05 (Venue 4)

LIVE

Moderators: Tomoyuki Yano (Cancer Institute Hospital)
Ayaka Deguchi (Osaka Metropolitan University)

IS1-1 A pilot study of regeneration of damaged peripheral nerves by human iPSC-derived peripheral neuron/nerve progenitors

Yoichiro Shibuya (Department of Plastic and Reconstructive Surgery, University of Tsukuba, Japan)

IS1-2 Elaborating Computer-assisted Keypoint Detection through Machine Learning; toward an automated evaluation of facial palsy patients

Takeichiro Kimura (Department of Plastic and Reconstructive Surgery, Kyorin University, Japan)

IS1-3 Is this tumor benign or malignant? Ultrasound examination of skin tumors Using Superb Microvascular Imaging

Mikiko Imamura (Department of Plastic and Reconstructive Surgery, Kyorin University, Japan)

Wound Healing

October 13 (Thu), 14:40～15:50 (Venue 4)

LIVE

Moderators: Hiroshi Mizuno (Juntendo University)
Ayaka Deguchi (Osaka Metropolitan University)

IS2-1 Comparison of gelatin hydrogel nonwoven fabrics (Genocel) with Pelnac using a murine wound model

Yuanjiaozi Li (Department of Plastic and Reconstructive Surgery, Graduate School of Medicine, Kyoto University, Japan)

IS2-2 Primary ciliary signalling - contribution to wound healing and scarring – Literature review -

Mayu Hosio (Department of Plastic and Reconstructive Surgery, Juntendo University Faculty of Medicine, Japan)

IS2-3 Low glucose culture environment enhanced the wound healing potential of adipose-derived stem cells from diabetic mice

Nai-Chen Cheng (Division of Plastic Surgery, Department of Surgery, National Taiwan University Hospital, Taiwan)

IS2-4 Effect of MNC-QQ cells on migration of human dermal fibroblast in diabetic Condition

Sen Jiang (Division of Regenerative Therapy, Juntendo University Graduate School of Medicine, Japan)

IS2-5 Therapeutic Effects of Conditioned Medium from Adipose-derived Stem Cells Cultured in Xeno-free Medium on Impaired Wound Healing in Irradiated Tissue

Bihang Zhang (Department of Plastic Surgery, Jichi Medical University, Japan)

IS2-6 Accelerated wound healing by compounds mitigating neuronal PAS domain 2

Yoichiro Shibuya (Regenerative Bioengineering and Repair Laboratory, Division of Plastic and Reconstructive Surgery, Department of Surgery, David Geffen School of Medicine at University of California Los Angeles, USA)

IS2-7 The different ethnicity, religion, caste, creed, skin color and also different spiritual, rituals, diet type, habits, customs affecting the burns scars among Indians.

Mahesh Annaiahchar (Ambedkar medical college, Bangalore, India)

Lymphatic Research / Flap Physiology

October 13 (Thu), 15:55～16:55 (Venue 4)

LIVE

Moderators: Yukio Seki (St. Marianna University)
Shinsuke Akita (Chiba University)

IS3-1 A new indocyanine green fluorescence lymphography protocol for the identification of lymphatic drainage regions for patients with lower limb lymphoedema

Hiroo Suami (Department of Health Sciences, Macquarie University, Australia)

IS3-2 Color Difference-based Screening Test and Surgical Treatment for Phlebo-Lymphedema

Shinsuke Akita (Department of Plastic, Reconstructive, and Aesthetic Surgery, Graduate School of Medicine, Chiba University, Japan)

IS3-3 An Anatomical Study of Aged Collecting Lymphatic Vessels at the Lower Limbs: A Clue to the Etiology of Aging-Related Lymphedema in Human

Yukio Seki (Department of Plastic and Reconstructive Surgery, St. Marianna University School of Medicine, Japan)

IS3-4 WITHDRAW

IS3-5 **Novel Classification of the Branching Patterns of the Superficial Branch and The Deep Branch of the Superficial Circumflex Iliac Artery and the Superficial Inferior Epigastric Artery on Computed Tomographic Angiography**

Yuma Fuse (Department of Plastic Surgery, The Cancer Institute Hospital of JFCR, Japan)

IS3-6 **Preoperative arterial selection using photoacoustic tomography to detect Midline crossing arteries in transverse abdominal flaps**

Itaru Tsuge (Department of Plastic and Reconstructive Surgery, Graduate School of Medicine, Kyoto University, Japan)

IS3-7 **The Medialis Tarsus flap: Anatomical study and case reports of A new flap**

Reiko Tsukuura (Department of Plastic and Reconstructive Surgery, Center Hospital of the National Center)

Keynote Lecture

October 14 (Fri), 9:00～10:00 (Venue 4)

LIVE・On-Demand

Moderators: Rica Tanaka (Juntendo University)
Shinsuke Akita (Chiba University)

Translation of a Novel Conduit for Nerve Regeneration

Kacey Marra (Departments of Plastic Surgery and Bioengineering, University of Pittsburgh, USA)

Biomedical Engineering / Biomaterials

October 14 (Fri), 10:05～10:55 (Venue 4)

LIVE

Moderators: Yoshihiro Sowa (Kyoto University)
Takumi Yamamoto (Center Hospital of the National Center for Global Health and Medicine)

IS4-1 **Development of a new surgical tape with mesh for skin-tear avoidance**

Naoaki Rikihisa (Oyumio central hospital & Tokyo Medical Tape Co., Ltd, Japan)

IS4-2 **Nerve Conduit Combined with Micronized cellular adipose matrix (MCAM) Enhances Peripheral Nerve Repair**

Yoshihiro Sowa (Department of Plastic and Reconstructive Surgery, Graduate School of Medicine, Kyoto University, Japan)

IS4-3 **A Study of Local FK506 Hydrogel Treatment Enhancing Functional Recovery In Rodents Peripheral Nerve Injury**

Chiaki Komatsu (Department of Plastic Surgery, University of Pittsburgh,USA)

IS4-4 **Optimizing the Decellularization of Epigastric Free Flaps in Rodents: A Comparison of Automated SDS-Based Protocols**

Chiaki Komatsu (Department of Plastic Surgery, University of Pittsburgh,USA)

IS4-5 **Creating Novel Model to Study Wound Healing Over Exposed Critical Structures in Rodents with A Custom-made 3D-printed Frame**

Chiaki Komatsu (Department of Plastic Surgery, University of Pittsburgh,USA)

Symposium: Robotic Surgery Technology

October 14 (Fri), 13:15～14:55 (Venue 4)

LIVE・On-Demand

Moderators: Tetsuji Uemura (Saga University)
Yuko Asano (Kameda Medical Center)

ISS1 **Perspective of Robotic Assisted Plastic and Reconstructive surgery in Japan**

Tetsuji Uemura (Robotic Assisted Surgery Working Group Chair, Japan Society of Plastic and Reconstructive Surgery, Department of Plastic and Reconstructive Surgery, Saga University Hospital, Japan)

ISS2 **Robotic Applications in Plastic Surgery**

Jesse C. Selber (Department of Plastic and Reconstructive Surgery, the University of Texas MD Anderson Cancer Center, USA)

ISS3 **Minimal invasive/access (endoscopic and robotic assisted) breast surgery in the management of breast cancer**

Hung-Wen Lai (Endoscopic and Oncoplastic Breast Surgery Center, Changhua Christian Hospital, Taiwan)

ISS4 **Robot-Assisted DIEP Flap Harvest**

Dong Won Lee (Department of Plastic and Reconstructive Surgery, Yonsei University College of Medicine Severance Hospital, Republic of Korea)

ISS5 **Current Status and Future Prospects of Robotic Surgery for Plastic Surgery In Japan**

Tsutomu Kashimura (Department of Plastic and Reconstructive Surgery, Nihon University School of Medicine, Japan)

ISS6 **Robot-assisted microsurgery using a dedicated microsurgical robot (MUSA)**

Tom J.M. van Mulken (Department of Plastic, Reconstructive and Hand Surgery, Maastricht University Hospital Medical Center, Netherland)

Aesthetic Medicine

October 14 (Fri), 15:00～15:40 (Venue 4)

LIVE

Moderators: Keisuke Imai (Osaka City General Hospital)
Taro Kono (Tokai University)

IS5-1 **Experimental Trial to Study Human Dermal Fiber Structure by Utilizing Surplus Skin**

Hiroko Ochiai (Department of Plastic and Reconstructive Surgery, National Hospital Organization Tokyo Medical Center, Japan)

IS5-2 **Controlling The Melanocytic Overactivity, A Dream Coming Into Being With Mesenchymal Stem Cells**

Bashir Afzaal (Department of Plastic Surgery, King Edward Medical University, Lahore, Pakistan)

IS5-3 **Plastic Surgery Improves Baseline Anxiety In Males Having Lesions On Face**

Sunaina Afzaal (Rahbar Medical and Dental College, Lahore, Pakistan)

IS5-4 **Mechanism of crescent-shaped and ring-shaped epidermal damage from laser hair removal with cryogen spray cooling**

Kotaro Imagawa (Department of Plastic Surgery, Tokai University, Japan)