

Day 1 (Oct 17, Thurs) / IPSRC1 (Room 6) [赤線付セッションは領域講習]

9:00	Session / Moderators	Speakers / Talk topics
9:00 10:00	09:00-10:30 Keynote lectures Nerve/ Muscle Moderators: William Kuzon/ Ayato Hayashi	<ul style="list-style-type: none"> ● Yuan-Yu Hsueh Distal Nerve Electrical Stimulation Facilitates Direct Muscle Neurotization And Functional Recoveries By Neuromuscular Junction Regeneration ● Christine Radtke Update and new developments in peripheral nerve repair ● Alison Snyder-Warwick (Virtual live) Pearls for optimal facial (re)animation ● Amy Moore (Virtual live) The use of electrical stimulation to improve function after nerve injury
Coffee break (20 min)		
11:00	10:50-11:40 Keynote lectures Nerve/ Muscle Moderators: Gregory Evans/ Yukio Seki	<ul style="list-style-type: none"> ● Jason Ko Targeted muscle reinnervation (TMR): From a "crazy idea" to a surgical revolution ● Paul Cederna (30 min) Cyborgs: The future is now
12:00	11:40-12:20 Keynote lectures Lymphedema Moderators: Gregory Evans/ Yukio Seki	<ul style="list-style-type: none"> ● Babak Mehrara (Virtual live) Pathophysiology of lymphedema ● Al Hassanein Novel approaches to lymphedema prevention
Coffee break (10 min)		
13:00	12:30-13:30 Luncheon session (Simultaneous screening of Room 7)	Keynote lectures Regeneration <ul style="list-style-type: none"> ● Roger Khouri (30 min) Regenerative procedures that morph tissue to reconstruct without incisions ● Tim Papadopoulos The secret life of fat: The science behind the most misunderstood body organ
14:00	13:30-14:50 Free papers Vascular/Lymphatic Biology and Diseases Moderators: Al Hassanein/ Mitsunaga Narushima	<ul style="list-style-type: none"> ● P56 Shinsuke Akita (Japan) Calcification of Achilles tendon in Werner syndrome ● PA1 Wataru Otsuka (Japan)[<i>Online</i>] Smooth Muscle Cell Regeneration within Human Lymphatics and Long-Term Follow-up After LVA ● P79 Shinsuke Akita (Japan) Eyelid in Morbihan disease is pathologically chronic lymphedema and super-microsurgical treatment can reduce the risk of the recurrence after skin excision ● P87 Joceline Theda Kadarman (Japan) Different Timing of Nanofibrillar Collagen Scaffold Implantation Affects the Lymphangiogenesis in Splinted Hindlimb Lymphedema Mouse Model ● P21 Yuki Matsuoka (Japan) Characterization of vasospasm in femoral arteries of arteriosclerotic model rats: Induction of vasospasm and negative effect of the vasodilator treatment on the spasm releasing ● P78 Hsiang-Wei Hu (Taiwan) "Cytokine analysis of secondary lymphedema in patient with gynecologic cancer. A case-control study"
Coffee break (10 min)		
16:00	15:00-16:40 Keynote lectures APRAS symposium Moderators: Justin Sacks/ Rica Tanaka	<ul style="list-style-type: none"> ● Nurul-Syazana Mohamad-Shah (Virtual live) Novelty in genetics and histological discovery of non-syndromic cleft lip and/or palate in Malay population ● Rei Ogawa The latest in keloid and hypertrophic scar pathophysiology and treatment strategies ● Yuan-Yu Hsueh Electric stimulation preserves regenerative microenvironment of denervated neuromuscular junction by satellite cell differentiation ● Kotaro Yoshimura Radiation kills stem cells, Stem cells rescue radiation damage. ● Seung-Kyu Han Facial reconstruction utilizing micronized adipose tissue niche following skin cancer excision
17:00	16:40-18:00 Free papers APRAS symposium (APRAS award) Moderators: Christine Radtke/ Hisashi Motomura	<ul style="list-style-type: none"> ● P80 Jeong Yeop Ryu (Korea) Risk of Congestive Heart Failure and Mortality Following Lymphovenous Anastomosis: A Nationwide Population-based Retrospective Cohort Study ● P35 Yushi Suzuki (Japan) Investigation of Lymphatic flow dynamics using photoacoustic imaging system ● P25 Yoshihiro Toyohara (Japan) Effects of Prophylactic Systemic Administration of Adipose Stem Cells on Late Radiation Skin Injury ● P17 Bihang Zhang (Japan) Therapeutic Potential of Follicular Epithelial Cells Derived from Different Portions of Hair Follicle for Wound Healing and Epithelization ● P84 Sangchul Hyun (Japan) Efficacy of treating diabetic chronic ulcers using adipose-derived stem cell-conditioned medium ● P49 Kentaro Kosaka (Japan) iPSC-derived megakaryocytes and platelets accelerate wound healing and angiogenesis. Awarding ceremony/ Memorial photo
18:00		

Day 1 (Oct 17, Thurs) / IPSRC 2 (Room 3) [赤線付セッションは領域講習]

	Session / Moderators	Speakers / Talk topics
9:00 09:00-10:40 <u>Free papers</u> Skin/Burn/Wound Healing 1 Moderators: David Brown/ Hajime Matsumura		<ul style="list-style-type: none"> ● P09 Lionico A Marquez (Philippines) Chilling in the Tropics: Management and Outcome of a Frostbite injury secondary to Refrigerant Burn, a case report ● P19 Mayu Hosio (Japan) The m6A-RNA epitranscriptomic pathway-pharmacological targeting of METTL3 to inhibit scarring. ● PA8 Julia Bartkova (Czech Republic) Age-Based Epidemiological Insights into Burn Injuries: Distinguishing Patterns in Pediatric and Adult Cohorts ● P48 Arisa Kita (Japan) Mechanisms of Cartilage Degeneration Post Autologous Costal Cartilage Transplantation in Microtia Treatment ● P97 Katsumi Ebisawa (Japan) Effects of Plasma-activated Lactate Ringer's Solution (PAL) on Mice Skin ● P41 Keisuke Okabe (Japan) Investigation of keloid pathogenesis focusing on mechanical stress ● P20 Kuo-Shu Hung (Taiwan) Therapeutic effects of high fluence light emitting diode-red light on burn hypertrophic scars ● P23 Makoto Shiraishi (Japan) Preliminary Elucidation of Generative Artificial Intelligence Chatbots in Interpreting Clinical Images of Pressure Injuries ● P62 Jesse Chou (USA) Social Determinants of Health Associated with Prolonged Time to Treatment for Non-Traumatic Upper Extremity Conditions
11:00 10:40-12:20 <u>Free papers</u> Skin/Burn/Wound Healing 2 Moderators: Yuan-Yu Hsueh/ Rica Tanaka		<ul style="list-style-type: none"> ● P42 Arisa Tani (Japan) A clinical trial for quantifying wound healing regulatory factors in acute and chronic wounds ● P33 Rieko Shimizu (Japan) Alteration of Inflammatory Response by Subcutaneous Transplantation of Burned and Frostbitten Skin ● P16 Poh-ching Tan (China) Mechanical stretching can modify the papillary dermis pattern and papillary fibroblast characteristics during skin regeneration ● PA7 Julia Bartkova (Czech Republic) An Analysis of Independent Risk Factors Related to Burn Mortality in Adults. Is There a Correlation Between Patient Volume and Mortality? ● P55 Hang Dong (Japan) Generation of self-assembled 3D human dermal tissue from fibroblasts ● P91 Long Nguyen (Japan) Unveiling the three-dimensional vascular architecture of keloids using tissue-clearing techniques ● P31 Shi Xiong (China) The Mechanism Study of ADSC Derived Exosomes LncRNA Promote Skin Closure ● P69 Eri Toyohara (Japan) Gelsolin released from macrophages is required for fibroblast migration during skin wound healing
Coffee break (10 min)		
13:00 12:30-13:30 Lunch time break		(No program)
14:00 13:30-15:10 <u>Keynote lectures</u> Tissue Engineering Moderators: Seung-Kyu Han/ Naoki Morimoto		<ul style="list-style-type: none"> ● Michael Findlay Absorbable devices and biomaterials in breast reconstruction ● Wei Liu Tendon engineering translation: From animal model to clinical treatment ● David Brown Enhancer-based gene therapy for digit regeneration ● Junji Fukuda Three-dimensional culture for hair regenerative medicine ● William Kuzon Tissue engineering research: The end of the beginning or the beginning of the end?
Coffee break (10 min)		
16:00 15:20-17:20 <u>Free papers</u> Regenerative medicine Moderators: Wei Liu/ Fumiaki Shimizu		<ul style="list-style-type: none"> ● P71 Karen Sugai (Japan) Recent evaluation of cell assisted lipotransfer for soft tissue augmentation in our institution ● P30 Sakurako Kunieda (Japan) Systematic analysis of beneficial effects of platelet lysates on human adipose-derived stem cells ● P77 Nur Azida Mohd Nasir (Malaysia)[Online] Mechanical isolation of adipose derived stem cells from fresh and cryopreserved: A Comparative analysis ● P82 Hsiao-Chen Lee (Taiwan) Achieving the Balance in Autologous Fat Transplantation: Harmonizing Volumization and Rejuvenation ● P74 Yoichiro Shibuya (Japan) "Using adipose-derived stem cells and its derivatives to promote regenerative medicine" ● P67 Kei Koizumi (Japan) Regenerative effects of adipose-derived stem and its-extracellular vesicles on skin injury models ● P89 Noriko Aramaki-Hattori (Japan) The role of versikine/versican in dermal papilla ● P68 Kei Koizumi (Japan) Regenerative effects of hiPSC-derived peripheral neuron/nerve progenitor on a nerve injury model ● P57 Audry-Yun-Xuan Chan (Taiwan) Preliminary Outcome of Herbal Extract Promotes Hair Regeneration by Enhancing M1/M2 Macrophage ● P11 Shuang-Bai Zhou (China) Clinical study on autologous concentrated growth factors promoting skin regeneration

Day 2 (Oct 18, Fri) / IPSRC 1 (Room 6) [赤線付セッションは領域講習]

9:00	Session / Moderators	Speakers / Talk topics
9:00 10:00	09:00-11:00 <u>Keynote lectures</u> General 1 Moderators: Al Hassanein/ Keisuke Imai	<ul style="list-style-type: none"> ● David Mathes Data driven optimization for microsurgical breast reconstruction ● Christopher Forrest (Virtual live) Surgical simulation and application of robotics in cleft and craniofacial surgery ● Theodore Kung (Virtual live) Regenerative peripheral nerve interface surgery for prosthetic control and postamputation pain ● David Mathes The future of tolerance for vascularized composite allotransplantation ● Justin Sacks Past, present, future microvascular anastomosis ● Gregory Evans Making the cut – establishing a career in plastic surgery
11:00 12:00	11:00-12:20 <u>Free papers</u> Nerve Moderators: Jason Ko/ Ayato Hayashi	<ul style="list-style-type: none"> ● PA0 Toshiro Mese (Japan)[Online] Pain surgery using nerve flaps: ultra-micromorphological changes and clinical applications ● P02 Shih-Heng Chen (Taiwan) Aligned core-shell fibrous nerve wrap containing Bletilla striata polysaccharide improves functional outcomes of peripheral nerve repair ● P13 Yu-Wen Lin (Taiwan) Application of ultrahigh frequency transcutaneous electrical nerve stimulation for alleviation of neuropathic pain and neuroinflammation modulation in rat sciatic nerve chronic constriction injury ● P24 Stanley Szu han Chen (Taiwan) Adipose-derived stem cells via therapeutic modulation of neuroinflammation to recover peripheral compressive neuropathy ● P93 Tina Tian (USA) Electrical stimulation and its effects on sympathetic regeneration after peripheral nerve injury ● P85 Seiji Sawai (Japan) Micronized cellular adipose matrix (MCAM) promotes the therapeutic effect of an artificial nerve conduit in peripheral nerve gap injury
Coffee break (10 min)		
13:00	12:30-13:30 Luncheon <u>Keynote lectures</u> Microsurgery/ Gender affirming Moderators: David Mathes/ Akira Momosawa	Microsurgery <ul style="list-style-type: none"> ● Michael Neumeister (Virtual live) Prefabrication of flaps in microsurgery Gender affirming <ul style="list-style-type: none"> ● Justin Lee Facial gender-affirming surgery ● William Kuzon Science vs. politics in transgender care
14:00	13:30-14:50 <u>Keynote lectures</u> General 2 Moderators: David Mathes/ Hiroyuki Sakurai	<ul style="list-style-type: none"> ● Geoffrey Gurtner Entrepreneurship: Getting Real About “Bench to Bedside” ● Gregory Evans Artificial Intelligence in Breast Surgery ● Timothy King Ethical considerations of artificial intelligence in surgical innovation ● Geoffrey Gurtner Understanding the foreign body response: Implications for ALCL and BIA
Coffee break (10 min)		
15:00 16:00	15:00-16:50 <u>Free papers</u> Innovation/ Commercialization/ Technology Moderators: Timothy King/ Masao Kakibuchi	<ul style="list-style-type: none"> ● PB3 Seung Han Song (Korea) Evolution of eyelid surgery with innovative AI tools ● P06 Itaru Tsuge (Japan) "Non-invasive visualization of the midline-crossing arterial variation in the deep inferior epigastric artery perforator flap using photoacoustic tomography" ● P81 Chia-Chun Lee (Taiwan) Macro-, Micro-, and Nano-Fat Grafting: Art, Philosophy, and Clinical Decision-Making ● P64 Kohei Mitsui (Japan)[Online] "Realization of XR technology applications in plastic and reconstructive surgery" ● P50 Yuichi Hatsuoka (Japan) Utilizing Virtual Reality for Suture Technique Education: Potential as an Auxiliary Tool for Independent Learning in Medical Students ● P70 Marika Otaki (Japan) Pathological Analysis of Unstained Mouse Skin Tissue ● PA6 Prasetyanugraheni Kreshanti (Indonesia) Development and Evaluation of Novel Interlocking Three-Dimensional Plate 2.0 System for Managing Mandibular Fractures ● P65 Tatsuya Kato (Japan) Observation the skin at the site of pressure ulcers predilection using the sheet-type sensor
17:00 18:00	16:50-17:50 <u>Free papers</u> Breast Moderators: Michael Findlay/ Tomoyuki Yano	<ul style="list-style-type: none"> ● PB1 Nicole Sanchez (USA) [Online] Effect of Inframammary Fold Skin Dome on Dehiscence Rates in Breast Reduction Surgery ● P10 Jeffrey M Rafael (Philippines) [Online] A rare encounter: Breast implant capsular contracture immediately preceded by herpes zoster, a case report ● P53 Benedetta Agnelli (Italy) Nipple-Sparing Mastectomy in Patients with Prior Breast Surgery: The Role of Autonomization in Preserving NAC Viability ● PB0 Nicole Sanchez (USA) [Online] Development of a 3D-Printed Chest Wall for DIEP Flap Anastomoses: Integrating Radiology Imaging, 3D Printing, and Special Effects Artistry for Hyper-Realistic Medical Simulation ● P59 Bolun Li (Japan) "The Investigation of Therapeutic or Preventive Effects of Adipose Derived Stem Cells on Radiation Induced Capsular Contraction Around Implant in Mouse Model"

Day 2 (Oct 18, Fri) / IPSRC 2 (Room 3) [赤線付セッションは領域講習]

	Session / Moderators	Speakers / Talk topics
9:00 09:00-10:20 Free papers Aesthetic/ Gender/ Cancer Moderators: Justin Lee/ Taku Maeda		<ul style="list-style-type: none"> ● P92 Dina M Badawi (Egypt) Optimizing scarless double chin treatment: Systematic plan through combining surgical, energy based, and manual techniques ● PB4 James Moore (USA) Carcinogenesis within free Latissimus-Dorsi flap donor site. A case report and literature review. ● P26 Tomoyuki Ito (Japan) Effects of PRP with basic fibroblast growth factor on human adipose tissue ● P46 Kuangyun Tang (China) A prospective and randomized study comparing ultrasound-guided real time injection to conventional blind injection of botulinum neurotoxin for glabellar wrinkles ● P96 Luis Antezana (USA) Institutional Experience of Female Perineal Reconstruction Post-EMPD - A Rare Entity's Reconstructive Challenge ● P05 Antoinette Nguyen (USA) Evaluating the Impact of Facial Feminization Surgery on Transgender and Gender Non-Conforming Individuals: A Prospective Cohort Study ● P18 Jinho Lee (Korea) Subfascial breast augmentation in transfemale patient: A report of cases ● P52 Austin Chen (USA) Fat Grafting for Facial Rejuvenation: A Systematic Review of Validated Patient-Reported Outcomes
10:20-11:40 Keynote lectures Scar/ Mechano-biology Moderators: Summer Hanson/ Naoki Morimoto		<ul style="list-style-type: none"> ● Wei Liu Early wound intervention: a new concept in topical management of scars ● Rei Ogawa Mechanobiology and mechanotherapy for wound healing and scarring ● Geoffrey Gurtner Mechanical signaling in tissue injury ● Dennis Orgill Mechanical forces in wound healing
11:40-12:10 Sponsored mini-seminar (DPB) Moderators: Eray Copcu		<ul style="list-style-type: none"> ● Tsai-Ming Lin Regenerative surgery breakthroughs: Fat grafting, stem cells, SVFs, and exosomes: Techniques, applications, and future prospects
Coffee break (20 min)		
12:30-13:30 Luncheon session (Simultaneous screening of Room 6)		<p>Microsurgery</p> <ul style="list-style-type: none"> ● Michael Neumeister (Virtual live) Prefabrication of flaps in microsurgery <p>Gender affirming</p> <ul style="list-style-type: none"> ● Justin Lee Facial gender-affirming surgery ● William Kuzon Science vs. politics in transgender care
13:30-14:40 Free papers Patient Safety/Education /Leadership Moderators: Justin Sacks/ Takuya Iida		<ul style="list-style-type: none"> ● P15 Satoshi Onoda (Japan) Super Microsurgical Education Using Papers with Online Video Clips ● P88 Cole Holan (USA) Weekday Timing and Surgical Outcomes: The Impact of Surgery Day on DIEP Flap Success ● P63 Toko Miyazaki (Japan) Handcrafted Artificial Vessels for Supermicrosurgical Training ● PA5 Jasmine Athiyya Wibowo (Indonesia) Live-Streaming Using Modified Head-Mounted Smartphone as An Assisting Learning Tools For Fisher Unilateral Cleft Lip Repair.
Coffee break (10 min)		
14:50-17:50 Japan symposium Cell therapies in Japan Moderators: Peter Rubin/ Yusuke Shimizu		<ul style="list-style-type: none"> ● Rica Tanaka (Re Eir) "Simple, Effective and Safe" peripheral blood vascular stem cell therapy for tissue regeneration ● Hideyuki Takahashi (PuREC) Bone and Cartilage Regeneration with Extremely Purified MSC "REC" ● Kazuo Ohnishi (Cell Source) Early clinical applications of adipose-derived stem cells in Japan ● Masukazu Inoie (J-TEC) Current situation and challenges of regenerative medical products approved in Japan ● Yasuyuki Mitani (S-Quatre) Stem cells from human exfoliated deciduous teeth (SHED) for treating various intractable diseases ● Kazunori Shimomura (To-cell) Cartilage repair using mesenchymal stem cells <p>● Panel discussion</p>
18:00		

Day 3 (Oct 19, Sat) / PSRC 1 (Room 6) [赤線付セッションは領域講習]

	Session / Moderators	Speakers / Talk topics
9:00	09:00-9:40 Free papers Others Keynote lectures Moderators: Shailesh Agarwal/ Yusuke Shimizu	<ul style="list-style-type: none"> P45 Risako Ito (Japan) First Attempt at Assessing the Effects of Animal-Assisted Therapy (AAT) on Plastic Surgery Patients P34 Kazufumi Tachi (Japan) Development of an AI-Powered System for Automatic Four-Class Classification and Area Measurement of Skin Ulcers ● Shailesh Agarwal Closed-loop cellular therapies for tissue engineering
10:00	9:40-10:20 Keynote lectures Stem cells 1 Moderators: Shailesh Agarwal/Yusuke Shimizu	<ul style="list-style-type: none"> ● Christina Camargo (Virtual live) Use of ASC in enterocutaneous fistula- Animal model ● Indranil Sinha (Virtual live) Scaffolds and stem cells for the treatment of volumetric muscle loss
11:00	10:20-11:20 Free papers/Keynote Skin/Burn/Wound Healing 3 Moderators: Geoffrey Gurtner/ Michiharu Sakamoto	<ul style="list-style-type: none"> P29 Qiannan Zhao (Japan) Self-assembling MSC-sheet promotes wound healing increasing M2 macrophage polarization P54 Shigeki Sakai (Japan) Embryonic macrophages involved in skin regeneration ● Rica Tanaka Understanding impaired diabetic wound healing in cellar/molecular level
12:00	11:20-12:20 Keynote lectures Fat Moderators: Roger Khouri/ Hiroshi Mizuno	<ul style="list-style-type: none"> ● Paul Cederna The impact of autogenous fat grafting of neural regeneration ● Summer Hanson Autologous fat grafting in regenerative medicine: a natural scaffold for immunoengineering ● Feng Lu Clinical, histologic, and transcriptomic evaluation of sequential fat grafting for morphea
Coffee break (10 min)		
13:00	12:30-13:30 Luncheon session Keynote lectures Stem cells 2 Moderators: Dennis Orgill/ Rei Ogawa	<ul style="list-style-type: none"> ● Geoffrey Gurtner (30 min) Stem cells in wound healing and technologies for stem cell delivery to wounds ● Emi Nishimura (30 min) Stem cell fate determination and dynamics for regeneration and aging -Lessons from biology for better medicine-
14:00	13:30-14:50 Free papers Craniofacial/ Others Moderators: William Kuzon/ Ataru Sunaga	<ul style="list-style-type: none"> P66 Yoshitaka Kubota (Japan) Visualization of Chromosome-Specific Epigenetic Modifications for Fat Transplantation P07 Itaru Tsuge (Japan) Real-time navigation for thinning of anterolateral thigh flap using photoacoustic imaging and projection mapping P76 Kyoichi Murakami (Japan) The Sweat Secretion in the Pedicled Volar Skin Flaps in Rats P86 Motoki Katsube (Japan) Comparative study of fetal facial shape between Japanese and North American populations P28 Damian Palafox (Mexico) Fat Grafting for the Treatment of Velopharyngeal Insufficiency Secondary to Isolated and Syndromic Cleft Palate P94 Akishige Hokugo (USA) Sustained BMP-2 Release by Peptide Amphiphilic Nanofibers Enhances Craniomaxillofacial Bone Regeneration by Mitigating Early Inflammatory Response PA4 Takashi Kurabayashi (Japan) Correlation Between Microtia Ear Deformity and Middle Ear Development in 3D CT Scans. P14 Daisuke Mito (Japan) Research on the Optimization and Evaluation of an Autofluorescence Point-of-Care Device for Bacterial Species Identification
15:00	14:50-17:30 Free papers IPSRC best paper session Moderators: Dennis Orgill/ Yoshihiro Sowa	<ul style="list-style-type: none"> P90 Erika Guilpain Kusajima (Japan) Potential benefit of vascularized lymph node transfer on cancer progression P43 Yukari Nakajima (Japan) Exploration of Regenerative Factors in Murine Fetal Skin Wounds P40 Toko Oida (Japan) Relationship between epidermal keratinocyte division and Keratin17 in skin texture formation PA9 Khaled Alameddine (USA) AI-Driven Age Estimation for Evaluating Non-Surgical Facial Rejuvenation Techniques P58 Riho Takayanagi (Japan) Single cell analysis toward further investigation of the pathogenesis of keloids. P60 Guangpeng Xia (Japan) A Novel Diagnostic Approach for Keloids Using Proton Nuclear Magnetic Resonance with Time-frequency Analysis of Serum P47 Kento Hosomi (Japan) The possibility of phagocytes playing a role to control wound healing process in newts P27 Shengzhou Shan (China) Mechano-induced arachidonic acid metabolism promotes keratinocyte proliferation during skin expansion P12 Yi-Syuan Shin (Taiwan) Development of Automated Assessment and Classification of Open Wound using Deep Learning Approaches
17:00	Awarding ceremony/ Memorial photo	