

ROOM MAGENTA B

<p>08.00 - 09.20</p>	<p><b>PANEL SESSION</b>  <b>P43 New technology</b>  <b>Head &amp; neck reconstruction in the next decennium: innovation, arts and controversies</b>  <i>President: Jan Jeroen Vranckx Moderators: Patrick Bryan Garvey, Joseph J. Disa</i></p> <ul style="list-style-type: none"> <li>• Virtual planning for mandible reconstruction <i>Patrick Bryan Garvey</i></li> <li>• Artistry in maxillary reconstruction: lessons for the future <i>Lawrence J. Gottlieb</i></li> <li>• Virtual surgical planning in head and neck reconstruction <i>Andres Rodriguez Lorenzo</i></li> <li>• Tricks, Tips, and Pearls of Head and Neck Reconstruction <i>Ming Huei Cheng</i></li> <li>• Innovation and controversies in head and neck reconstruction <i>Jan Jeroen Vranckx</i></li> </ul>
<p>10.30 - 10.45</p>	<p>Break</p>
<p>10.45 - 11.05</p>	<p><b>K13 Lower Limb</b>  <b>Planning soft tissue reconstruction in the lower limb</b>  <i>Geoffrey Hallock</i></p>
<p>11.05 - 12.25</p>	<p><b>PANEL SESSION</b>  <b>P49 Lower Limb</b>  <b>Acute soft tissue reconstruction in the lower limb</b>  <i>President: Geoffrey Hallock Moderators: Zoran M. Arnež, Stephen Kovach</i></p> <ul style="list-style-type: none"> <li>• The Penn approach to soft tissue coverage in the lower limb <i>Stephen Kovach</i></li> <li>• Sometimes you can be “Cross” <i>Geoffrey Ian Taylor</i></li> <li>• Closure of open fractures: the Godina Legacy <i>Zoran M. Arnež</i></li> <li>• Emergency SCIP Flaps <i>Hyunsuk Peter Suh</i></li> <li>• My best save and my worst failure: what a young microsurgeon must expect to learn <i>Marco Maricevich</i></li> <li>• Freeways are faster <i>Geoffrey Ian Taylor</i></li> </ul>
<p>12.25 - 12.45</p>	<p><b>SELECTED FREE PAPERS</b>  <b>SFP 13 Lower Limb</b>  <i>Moderators: Zoran M. Arnež, Stephen Kovach</i></p> <ul style="list-style-type: none"> <li>• Pedicle perforator-based flaps for lower extremity reconstruction: a single surgeon experience <i>Mario Scaglioni, Alberto Franchi, Elmar Fritsche</i></li> </ul>

## ROOM MAGENTA B

	<ul style="list-style-type: none"> <li>• Free Tissue Transfers for Reconstruction of Weight-Bearing Heel Defects: Review of 74 Flaps <b>Cheng-Hung Lin</b>, Ahmet H. Sakarya, Kun-Yu Tsai, Chung-Chen Hsu, Shih-Heng Chen, Nicholas K. Do, Madonna R. Anggelia, Chih-Hung Lin</li> <li>• Pediatric Microsurgery in the reconstruction of complex post-traumatic lower extremity defects, long term experience with a comprehensive review of the literature <b>Amr Ebatawy</b>, Wael Ayad</li> </ul>
12.45 - 14.05	<p><b>PANEL SESSION</b> <b>P55 Nerves</b> <b>Making skeptics into believers: How to identify and treat upper extremity nerve compression</b> <i>President: Pierluigi Tos Moderators: Hitoshi Hirata, Ignazio Marcoccio</i></p> <ul style="list-style-type: none"> <li>• Is it possible to expect a rapid reverse of hand palsy in severe nerve compression? <i>Jorge Clifton</i></li> <li>• Secondary nerve entrapments in recovering birth palsy <i>Gürsel Leblebicioğlu</i></li> <li>• Hourglass constriction in upper limb peripheral nerve: diagnosis and treatment <i>Ignazio Marcoccio</i></li> <li>• Toracic Outlet Syndrome is not the Carpal Tunnel of Brachial Plexus! Trying to overcome problems in TOS <i>Piero Raimondi</i></li> <li>• Optimizing Functional Recovery in Nerve Compression and Injury <i>Paul S. Cederna</i></li> </ul>
14.05 - 15.05	Lunch
15.05 - 15.55	<p><b>FREE PAPERS</b> <b>FP 35 Lower Limb</b> <i>Moderators: Milomir Ninkovic, Taçkin Özalp</i></p> <ul style="list-style-type: none"> <li>• Pediatric extremity bone sarcoma reconstruction with the vascularized fibula flap: long-term functional outcomes, complications and survival <b>Alejandro Ruiz-Moya</b>, Araceli Lagares-Borrego, Domingo Sicilia-Castro, Fernando Barrera-Pulido, Francisco Carvajo-Perez, Pedro Fernandez-Velez, Rafael Lopez-Garcia, Tomas Gomez-Cia</li> <li>• Sensate Free ALT Flap for Foot Reconstruction in Pediatric Population <b>Mohammed El Fahar</b></li> <li>• Distally based perforator-plus sural fasciocutaneous flap for repair of lower leg soft-tissue defects in pediatrics and adults <b>Li-Hong Liu</b></li> </ul>

ROOM MAGENTA B

- Feasibility of vascularized iliac crest bone grafting in the treatment of medial and late Stages of Legg-Calve-Perthes Disease  
*Yongbing Xiao, Juyi Tang*
- Vascularized epiphyseal transfer for the reconstruction of the head and neck of the femur  
*Mohamed Morsy, Amr Eisa, Omar Refai, Waleed Riad, Mohamed Kotb, Amr Elsayed, Tarek Elgammal*
- The rotationplasty in children with bone sarcomas of distal femur: the role of microsurgery in vascular reconstruction  
*Elisa Antoniazzi, Valeria Summo, Riccardo Villani, Valentina Pinto, Federico Contedini, Marco Manfrini, Riccardo Cipriani*
- A comparison between the major trauma centre Management of open lower limb Fractures in Children and the Elderly  
*Umraz Khan, Muhammad Fahim Khadim, Ahmed Emam, Thomas Chapman, Thomas Wright*
- Composite and compound flaps in microsurgical lower limbs reconstruction  
*Cesare Tiengo, Regina Sonda, Andrea Monticelli, Eleonora De Antoni, Diego Faccio, Gianpaolo Azzena, Franco Bassetto*

**P61 Nerves**

**New trends in facial palsy II**

*President: Shai M. Rozen Moderators: Michael Klebuc, Kallirroï Tzafetta*

- Dynamic reanimation of the peri orbital in the subacute facial palsy patient: does it confer corneal protection?  
*Shai M. Rozen*
- Power Enhancement Strategies in Free Muscle Flap Facial Reanimation  
*Michael Klebuc*
- Lower Lip Reanimation  
*Kallirroï Tzafetta*
- Secondary revisions in facial reanimation  
*Samir Mardini*
- Rethinking of perioral inset for facial reanimation patients: a smiling nasolabial fold or a smiling face?  
*Wei Wang*
- Pediatric facial reanimation and new frontiers in Corneal reervation  
*Gregory H. Borschel*

15.55 - 17.15

## ROOM ITALIA

<p>08.00 - 09.20</p>	<p><b>P44 Miscellany</b>  <b>Organizing replantation centers</b>  <i>President: Esther Vögelin Moderators: Esther Vögelin, Pierluigi Tos</i></p> <ul style="list-style-type: none"> <li>• How to organize replantations today and tomorrow? <i>Igor Golubev</i></li> <li>• Survival outcomes in immediate vs overnight delayed digital replantations <i>Pedro C. Cavadas</i></li> <li>• The current state of a replantation center in Japan <i>Naohito Hibino - Tokio Kasai</i></li> <li>• Creating centers of replantation depending on the type of society and culture <i>Maddalena Bertolini</i></li> <li>• Economic study of hand microsurgical reconstruction <i>Xin Wang</i></li> </ul>
<p>10.30 - 10.45</p>	<p>Break</p>
<p>10.45 - 11.05</p>	<p><b>K14 Flaps</b>  <b>From groin flap to SCIP: a journey 30 years long</b>  <i>Joon Pio Hong</i></p>
<p>11.05 - 12.25</p>	<p><b>P50 Flaps</b>  <b>Less used smart flaps</b>  <i>President: Joon Pio Hong Moderators: Yixin Zhang, Lucian P. Jiga</i></p> <ul style="list-style-type: none"> <li>• Chimeric SCIP flaps (<i>JSRM Travelling Fellow</i>) <i>Hidehiko Yoshimatsu</i></li> <li>• Biophysiologic role of free flap <i>Jeong Tae Kim</i></li> <li>• Vastus lateralis free flap: surgical anatomy and indications <i>Lucian P. Jiga</i></li> <li>• Medial sural perforator free flap for head and neck reconstruction <i>Jong Woo Choi</i></li> <li>• Improving the Versatility of the Latissimus Dorsi Myocutaneous Flap Using the Perforator Propeller Flap Concept <i>Yuanbo Liu</i></li> <li>• The kiss flap <i>Yixin Zhang</i></li> </ul>
<p>12.25 - 12.45</p>	<p><b>SELECTED FREE PAPERS</b>  <b>SFP 14 Flaps</b>  <i>Moderator: Yixin Zhang</i></p> <ul style="list-style-type: none"> <li>• Free flap physiology after microvascular transfer: the revascularization process <i>Emanuele Cigna</i></li> <li>• Bipedicled Preexpanded Visor Flap for postburn lower facial contouring in Asian Males <i>Peiru Min</i></li> </ul>

## ROOM ITALIA

	<ul style="list-style-type: none"> <li>• The expanded role of the anterolateral thigh flap: our experience with 522 flaps <i>Federico Contedini, Valentina Pinto, Chiara Gelati, Elisa Antoniazzi, Riccardo Cipriani</i></li> </ul>
12.45 - 14.05	<p><b>P56 Flaps</b> <b>Microsurgical trunk reconstruction</b> <i>President: Erkki Tukiainen Moderators: Luca Vaienti, Hannu Kuokkanen</i></p> <ul style="list-style-type: none"> <li>• Abdominal wall reconstruction <i>Charles Butler</i></li> <li>• Chest wall reconstruction <i>Erkki Tukiainen</i></li> <li>• Reconstruction of spinal defects <i>Gregory R.D. Evans</i></li> <li>• Propeller flaps in trunk reconstruction <i>Giulio Menichini</i></li> <li>• Reconstruction of pelvic bone and soft tissue defects <i>Hannu Kuokkanen</i></li> </ul>
14.05 - 15.05	Lunch
15.05 - 15.55	<p><b>FREE PAPERS</b> <b>FP 36 Flaps</b> <i>Moderator: Kallirroi Tzafetta</i></p> <ul style="list-style-type: none"> <li>• Venous supercharging increase the reliability of lower leg propeller perforator and distally based neurocutaneous flaps. A prospective comparative study of 174 flaps <i>Christian Herlin</i></li> <li>• Feasibility of anterolateral thigh flaps combined with acellular dermal matrix for complex abdominal wall reconstruction after resection of enterocutaneous fistulas <i>Tim Pruijboom, Ennie Bijkerk, Stéphanie O. Breukink, Shan S. Qiu, René R.W.J. van der Hulst</i></li> <li>• A Reappraisal of the Surgical Planning of the Superficial Circumflex Iliac Artery Perforator Flap <i>Shaoqing Feng</i></li> <li>• The chimeric superficial circumflex iliac artery perforator flap is an effective option for reconstruction of osteo cutaneous defects of the hand or foot <i>Hong Chen, Yaopeng Huang, Xin Wang, Wenquan Ding, Miaozhong Li</i></li> <li>• Effects of Cutaneous Negative Pressure Application on Perforator Artery Flow in Healthy Volunteers: a Preliminary Study <i>Dario Melita</i></li> <li>• Effects of Cutaneous Negative Pressure Application on Interperforator anastomoses and its use as a method of preoperative preparation for perforator flaps surgery <i>Pavlo Badiul, Sergii Sliessenko, Oleh Rudenko, Nataliia Cherednychenko</i></li> </ul>

ROOM ITALIA

- Revisiting the Cross-Leg Flap: a Degraded or Still Useful Method?  
*Ha Hyun Yu, Youngwoong Choi*
- The Chimeric Gracilis-PAP flap: prevalence of a Common Arterial Pedicle  
*Jacob Hammond, Jonathan Flug, Brittany Foley, William Casey III, Lyndsey Bryant, Cristine Velazco, Alanna Rebecca*
- Pedicled posteromedial thigh (pPMT) perforator flap and its application in loco- regional soft tissue reconstructions  
*Alberto Franchi, Elmar Fritsche, Mario F. Scaglioni*
- The Boomerang Thigh Flap: Combining the ALT and the LTP for an Expanded Single Pedicle Skin Paddle  
*Guilherme Barreiro, Chelsea Snider, Alex Fioravanti, Luiz Henrique Silva Borges*

**PANEL SESSION**

**P62 Creativity in Microsurgery**

**Microsurgical approach to migraine**

*President: Ivica Ducic Moderators: Edoardo Raposio, Giorgio Pietramaggiori*

- Indications for surgical treatment of chronic migraine headaches  
*Giorgio Pietramaggiori*
- Surgical decompression techniques for temporal headaches  
*Ziv Peled*
- Surgical Treatment of temporal neuralgia headaches/migraines  
*Edoardo Raposio*
- Surgical Treatment of frontal headaches/migraines  
*Robert R. Hagan*
- Outcomes and Safety of the Surgical Treatment of chronic headaches/migraines  
*Ivica Ducic*

15.55 - 17.15

## ROOM BIANCA

<p>08.00 - 09.20</p>	<p><b>P45 Head &amp; Neck</b>  <b>Tongue reconstruction: state of the art</b>  <i>President: Jong-Woo Choi Moderators: Matthew M. Hanasono, Carmen Vega Garcia</i></p> <ul style="list-style-type: none"> <li>• Dynamic tongue reconstruction with microsurgical perforator chimeric flaps <i>Jong Woo Choi</i></li> <li>• The Medial Sural Artery Perforator Flap: The Ideal for Partial Tongue Reconstruction? <i>Adrian Ooi</i></li> <li>• Challenges of Total Tongue Reconstruction <i>Samuel Mattine</i></li> <li>• Anatomy-oriented, individualized approach to tongue reconstruction with microvascular techniques <i>Nidal Al Deek</i></li> <li>• Floor of mouth and tip of tongue reconstruction: tips &amp; tricks <i>Carmen Vega Garcia</i></li> </ul>
<p>10.30 - 10.45</p>	<p>Break</p>
<p>10.45 - 11.05</p>	<p><b>K15 Bone Reconstruction</b>  <b>The knee as a donor site for innovative vascularized bone transfers</b>  <i>Heinz Bürger</i></p>
<p>11.05 - 12.25</p>	<p><b>P51 Bone Reconstruction</b>  <b>Innovative bone flaps</b>  <i>President: Heinz Bürger Moderators: Gautam Biswas, Lorenz Larcher</i></p> <ul style="list-style-type: none"> <li>• Posterior interosseus artery distal radius graft for ulnar nonunion treatment <i>Alessia Pagnotta</i></li> <li>• Flap from the distal femur in head and neck surgery <i>Alexander Gaggl</i></li> <li>• Special Indications and new approaches for the interdisciplinary use of the medial femur condyle flap <i>Lorenz Larcher</i></li> <li>• Experience in reconstruction of talar defects using vascularized flaps from the femur <i>Christian Windhofer</i></li> <li>• Perforator flap from the peroneal system in Head and Neck <i>Gautam Biswas</i></li> </ul>
<p>12.25 - 12.45</p>	<p><b>SELECTED FREE PAPERS</b>  <b>SFP 15 Bone Reconstruction</b>  <i>Moderators: Gautam Biswas, Lorenz Larcher</i></p> <ul style="list-style-type: none"> <li>• Treatment of congenital pseudarthrosis of the fibula using a perforator based periosteal propeller flap  <b>Omar Refai, Mohamed Morsy, Yasser Farouk, Waleed Riad, Amr Elsayed Ibrahim, Tarek Elgammal</b></li> </ul>

## ROOM BIANCA

	<ul style="list-style-type: none"> <li>• The treatment of scaphoid established nonunion with vascularized bone graft technique according to Zaidenberg <b>Augusto Marcuzzi</b>, <i>Giovanna Petrella, Giulia Colzani, Lana Deborah</i></li> <li>• Calcaneal reconstruction after total calcaneotomy with free iliac crest free flap <b>Elena Lucattelli</b>, <i>Luca Delcroix, Stefano Bastoni, Primo Andrea Daolio, Marco Innocenti</i></li> </ul>
12.45 - 14.05	<p><b>P57 Bone reconstruction</b>  <b>Microsurgical reconstruction of the pelvis and spine</b>  <i>President: Stephen Moran Moderators: Matthew T. Houdek, Joon Pio Hong</i></p> <ul style="list-style-type: none"> <li>• Overview of Spinal and Pelvic Tumor Resection <i>Matthew T. Houdek</i></li> <li>• Bony reconstruction of spine and pelvis <i>Stephen Moran</i></li> <li>• Perforator flaps for back coverage <i>Joon Pio Hong</i></li> <li>• Internal and External Pelvectomies <i>Matthew T. Houdek</i></li> </ul>
14.05 - 15.05	Lunch
15.05 - 15.55	<p><b>FREE PAPERS</b>  <b>FP 37 Bone Reconstruction</b>  <i>Moderators: Milan Stevanovic, Satoshi Toh</i></p> <ul style="list-style-type: none"> <li>• Vascularized Bone Flaps in Extremity Reconstruction: a Case Series <b>Daniel Ruter</b>, <i>Corinne Wee, Scott Tintle, Ian Valerio</i></li> <li>• Treatment of forearm bone loss with vascularized fibula graft <b>Alessandro Piperno</b></li> <li>• Forearm reconstruction using free fibular osteocutaneous flap for ulnar fibrous dysplasia <b>Matías Federico Sander</b>, <i>Federico Reinares, Omar Muriel, Julio César Lapalma</i></li> <li>• Treatment of Scaphoid Nonunion with Vascularized Bone Graft - Its Indication and Donor Site Selection <b>Keiichi Murata</b>, <i>Hiroshi Yajima, Shohei Omokawa, Yasuhito Tanaka</i></li> <li>• The Role of Using Free Vascularized Fibular Graft for the Reconstruction of Pseudo-Madelung Deformity of the Upper Extremity in Skeletally Immature Patients with Multiple Hereditary Exostosis <i>Mohamed Yousef, Lindsey White, William Pederson</i></li> <li>• Graft hypertrophy and bone union in vascularised free fibula for post osteomyelitic long bone defects in children: 6 yrs follow-up <b>Chethan Kumar G.S.</b>, <i>Amresh S. Baliarsing</i></li> <li>• Quantitative evaluation of fibular growth after pediatric mandibular reconstruction using free fibula flap by multi-slice spiral computed tomography <b>Wei Wang</b>, <i>Jie Zhang, Jie Liang, Shang Xie, Xiaofeng Shan, Zhigang Cai</i></li> </ul>



## ROOM BIANCA

- Vascularized bone flaps as a treatment mode for large bone defects with different eatology  
*Dmitry Ladutko, Uladzimir Padhaiski, Yury Ladutko, Andrew Pekar*
- The Use of Medial Femoral Condyle Flaps in the Pediatric Population is Safe and Effective  
*David Colen, L. Scott Levin, Marco Innocenti, Stephen Kovach*
- Versatility of the Iliac Crest Flap  
*João Morais, Rui Vieira, Carolina Gaspar, Horácio Zenha, Horácio Costa*

15.55 - 17.15

### **P63 Bone reconstruction**

#### **Bone reconstruction in congenital cases**

*President: Satoshi Toh Moderators: Simo K. Vilkki, Satoshi Toh*

- Reconstruction of congenitally absent radius  
*Simo K. Vilkki*
- Impact of microsurgery on management of children with amniotic band syndrome related adactyly  
*David T.W. Chiu*
- Twenty-four-year follow-up of type IIIB hypoplastic thumb reconstruction using a vascularized toe PIP joint transfer  
*Souichi Ohta, Ryosuche Ikeguchi*
- Long-term results after a free vascularized fibula graft for congenital pseudoarthrosis of the tibia  
*Norihiro Sasaki, Satoshi Toh*

ROOM CIANO

<p>08.00 - 09.20</p>	<p><b>P46 Breast</b>  <b>Breast reconstruction: free flaps versus fat graft</b>  <i>President: Jian Farhadi Moderators: Jaume Masia, Eric Santamaría Linares</i></p> <ul style="list-style-type: none"> <li>• Breast Reconstruction with Incisionless Flaps and Free Flaps <i>Roger Khouri</i></li> <li>• Biological Morphogenetic Surgery: new frontier in the reconstruction / reshaping of the breast with fat grafting <i>Gino Rigotti</i></li> <li>• Vascularized fat transfer breast reconstruction <i>Stefan O.P. Hofer</i></li> <li>• Searching for the ideal breast reconstruction <i>Jaume Masia</i></li> </ul>
<p>10.30 - 10.45</p>	<p>Break</p>
<p>10.45 - 11.05</p>	<p><b>K16 Lymphoedema</b>  <b>Up to date on upper limb lymphoedema and breast reconstruction</b>  <i>Jaume Masia</i></p>
<p>11.05 - 12.25</p>	<p><b>P52 Lymphoedema</b>  <b>Breast reconstruction: flaps and lymph nodes</b>  <i>President: Jaume Masia Moderators: Marzia Salgarello, Jaume Masia</i></p> <ul style="list-style-type: none"> <li>• New concepts in vascularized omentum lymph node transfer <i>Joseph Dayan</i></li> <li>• Assessing the breast patient with lymphedema <i>Peter C. Neligan</i></li> <li>• Combined VLNT &amp; LVB for treatment of lymphedema <i>David W. Chang</i></li> <li>• Lymphatic Reconstruction based on a New Concept: Lymph-Axiality-Based (LAB) Flap <i>Takumi Yamamoto</i></li> <li>• Breast Reconstruction and Prevention of Axillary Dissection Related Lymphedema <i>Lan Mu</i></li> </ul>
<p>12.25 - 12.45</p>	<p><b>SELECTED FREE PAPERS</b>  <b>SFP 16 Lymphoedema</b>  <i>Moderators: Marzia Salgarello, Jaume Masia</i></p> <ul style="list-style-type: none"> <li>• Post-mastectomy upper limb lymphedema: combined vascularized lymph node transfer and scar release with fat graft <b>Michele Maruccia, Rossella Elia, Eleonora Nacchiero, Michelangelo Vestita, Hung-Chi Chen, Giuseppe Giudice</b></li> <li>• Robot-assistance in lymphatico-venous anastomosis for breast cancer related lymphedema: first clinical results using a dedicated microsurgical robot from the Netherlands <b>Tom M.J. van Mulken, Shan S. Qiu, Rutger M. Schols, Andrea M.J. Scharmga, Raimondo Cau, Yasmine M.J. Jonis, René R.J.W. van der Hulst</b></li> </ul>

ROOM CIANO

	<ul style="list-style-type: none"> <li>• Triple Flap Simultaneous Breast and Lymphoedema Reconstruction in Skinny Patients with Lymphoedema <i>Damir Kosutic, Kantappa Gajanan, Nikolaos Tsapralis, G.L. Ross</i></li> </ul>
<p>12.45 - 14.05</p>	<p><b>P58 Head &amp; Neck</b>  <b>Free Fibula Flap in Head and Neck Microsurgical Reconstruction: Complications and pitfalls, avoidance and management of untoward outcomes, and innovative salvage techniques</b>  <i>President: Nidal Al Deek Moderators: Andres Rodriguez Lorenzo, Edward Chang</i></p> <ul style="list-style-type: none"> <li>• Facing the extreme and the uncommon in free fibula flap for head and neck microsurgical reconstruction: Strategies and techniques that worked <i>Nidal Al Deek</i></li> <li>• Complications following functional reconstruction of the mandible with the free fibula flap, and their salvage with digital technology <i>Zhigang Cai</i></li> <li>• Optimizing Outcomes and Avoiding Complications in Mandible Reconstruction Using Traditional Techniques <i>Edward Chang</i></li> <li>• Shaping the fibula the old fashioned way, lessons learned <i>Joseph J. Disa</i></li> <li>• Management and Prevention of Complications Using Free Fibula in Head and Neck Reconstruction <i>Andres Rodriguez Lorenzo</i></li> </ul>
<p>14.05 - 15.05</p>	<p>Lunch</p>
<p>15.05 - 15.55</p>	<p><b>FREE PAPERS</b>  <b>FP 38 Lymphoedema</b>  <i>Moderator: Edward Chang</i></p> <ul style="list-style-type: none"> <li>• Evaluating the Impact of Immediate Lymphatic Reconstruction for the Surgical Prevention of Postoperative Lymphedema <i>Anna Rose Johnson, Bernard Lee, Dhruv Singhal</i></li> <li>• Where should we place the lymphnode flap? Early results in chronic lymphedema secondary to breast cancer treatment <i>Eduardo Montag, Alberto Okada, Eduardo Gustavo Arruda, Alexandre Munhoz, Fabio Busnardo</i></li> <li>• The Dynamic-Lymphaticovenular Anastomosis Method for Breast Cancer Treatment-Related Lymphedema without Any Compression Therapy <i>Yukio Seki, Akiyoshi Kajikawa, Takumi Yamamoto, Takayuki Takeuchi, Takahiro Terashima, Norimitsu Kurogi</i></li> <li>• Pre- and intraoperative use of indocyanine green and a system of visualization of superficial vessels at lymphaticovenous anastomosis in patients with secondary lymphoedema of the upper limb <i>Rafal Ulczok, Karolina Donocik, Dominik Walczak, Piotr Drozdowski, Lukasz Krakowczyk, Ryszard Szumniak, Maciej Grajek, Janusz Wierzgon, Mirosław Dobrut, Michał Kalemba, Zbigniew Wygoda, Adam Maciejewski</i></li> </ul>

ROOM CIANO

- Factors associated with professional healthcare advice seeking in breast cancer-related lymphedema  
*Chia Yu Lin, Ming-Huei Cheng*
- Anatomical analysis of the inguinal lymph node flaps in correlation with long term lymphedema microsurgical treatment outcomes  
*Dimitrios Dionyssiou, Alexandros Sarafis, Antonios Tsimponis, Asterios Kalaitzoglou, Georgios Arsos, Efterpi Demiri*
- Flow-Through Omental Flap for Vascularized Lymph Node Transplant in Lymphatic Reconstruction  
*Miguel Gomez Bravo, Anna Rose Johnson, Bernard Lee, Dhruv Singhal*
- Improving the quality of life of patients with breast cancer-related lymphedema by lymphaticovenous anastomosis (LVA): a randomized controlled trial  
*Joost Wolfs, Shan Shan Qiu, Rene van der Hulst*
- Successful Relief of a Male Breast Lymphedema by Supermicrosurgical Lymphaticovenular Anastomosis  
*Theodoros Chrelias*

**P64 Education**

**Training the next generation of microsurgeons around the world**

*President: James Chang Moderators: Martin Boyer, James Chang*

- Optimal microsurgery Fellowship Training in the US  
*Greg Buncke*
- Training Orthopedic surgeons in microsurgery  
*Martin Boyer*
- Microsurgery Training in Asia  
*Bien Keem Tan*
- Simulation Curriculum for Microsurgery  
*Ranjan Gupta*
- Reconstructive Surgery Training in the Developing World  
*James Chang*

15.55 - 17.15

## ROOM INDACO

<p>08.00 - 09.20</p>	<p><b>P47 Nerves</b>  <b>New trends in facial palsy I</b>  <i>President: Ronald Zuker Moderators: Eyal Gur, Georgios Psaras</i></p> <ul style="list-style-type: none"> <li>• Introduction, Nerve versus Muscle, Optimizing Muscle Transplantation <i>Ronald Zuker</i></li> <li>• A new approach to the incomplete facial paralysis reconstruction - the use of the residual facial nerve for Gracilis muscle reanimation procedure <i>Eyal Gur</i></li> <li>• Endoscopic approach to the geniculate ganglion <i>Livio Presutti</i></li> <li>• Innovative Nerve Coaptation in a Double Powered Free Muscle Transfer for Facial Palsy <i>Alessio Baccarani</i></li> <li>• Bilateral Facial Paralysis <i>Georgios Psaras</i></li> <li>• Functional Reconstruction of Congenital and Acquired Facial Paralysis including Facial Reanimation <i>Andreas Kehrer</i></li> </ul>
<p>10.30 - 10.45</p>	<p>Break</p>
<p>10.45 - 11.05</p>	<p><b>K17 Tumor</b>  <b>Systematic approach in soft tissue sarcomas reconstruction</b>  <i>Stefan O.P. Hofer</i></p>
<p>11.05 - 12.25</p>	<p><b>P53 Tumor</b>  <b>Extremities reconstruction after soft tissue sarcomas excision</b>  <i>President: Stefan O.P. Hofer Moderators: Justin Sacks, Anne O'Neill</i></p> <ul style="list-style-type: none"> <li>• Systematic approach in soft tissue sarcoma reconstruction <i>Stefan O.P. Hofer</i></li> <li>• State of the art oncological reconstruction of the extremities <i>Justin Sacks</i></li> <li>• Microsurgery flaps in lower limb reconstruction after sarcoma resections. Choices, indications and refinements (tips and tricks) <i>Manuel Fernandez</i></li> <li>• Staged delayed free perforator flaps in sarcoma <i>Damir Kosutic</i></li> <li>• Outcomes of extremity soft tissue reconstruction <i>Anne O'Neill</i></li> </ul>
<p>12.25 - 12.45</p>	<p><b>SELECTED FREE PAPERS</b>  <b>SFP 17 Tumor</b>  <i>Moderators: Justin Sacks, Anne O'Neill</i></p> <ul style="list-style-type: none"> <li>• Analysis of Clinical Outcomes of Upper and Lower Extremity Reconstruction in Patients with Soft-Tissue Sarcoma <i>Trishul Kapoor, Joseph Banuelos, Kian Adabi, Steven Moran, Oscar Manrique</i></li> </ul>

## ROOM INDACO

	<ul style="list-style-type: none"> <li>• The Gluteal Sarcoma Reconstruction Challenge <i>Hrsikesa "Rishi" Sharma, Eldon Mah</i></li> <li>• Custom-made elbow joint reconstruction with free osteoperiosteal fibula and iliac crest flaps after tumor resection: a preliminary study <i>Mattia Brogi, Elena Lucattelli, Marco Innocenti</i></li> </ul>
<p>12.45 - 14.05</p>	<p><b>P59 Tumor</b>  <b>Partial and total breast reconstruction with local flaps</b>  <i>President: Moustapha Hamdi Moderators: Stephen McCulley, Maija Kolehmainen</i></p> <ul style="list-style-type: none"> <li>• Standard of care in oncologic breast surgery <i>Michael Knauer</i></li> <li>• Nottingham approach <i>Stephen McCulley</i></li> <li>• Latissimus Dorsi flap <i>Jean François Honart</i></li> <li>• Perforator Flaps <i>Moustapha Hamdi</i></li> <li>• The fat augmented latissimus dorsi (FALD) flap as a second choice in autologous breast reconstruction <i>Fabio Santanelli Di Pompeo</i></li> </ul>
<p>14.05 - 15.05</p>	<p>Lunch</p>
<p>15.05 - 15.55</p>	<p><b>FREE PAPERS</b>  <b>FP 39 Tumor</b>  <i>Moderators: Gautam Biswas, Emanuele Cigna</i></p> <ul style="list-style-type: none"> <li>• Post-oncological humeral reconstructions after allograft failure <i>Lucian Lior Marcovici</i></li> <li>• The vascularized fibular flap in the reconstruction of upper and lower extremity tumors <i>Ayse Sencan, Yavuz Arıkan, Mustafa Cukurlu, Devrim Ozer, Kahraman Ozturk</i></li> <li>• Dual Pedicle Free Fibula Epiphyseal Transfer in Paediatric Sarcoma Reconstruction: A review of Outcomes <i>Paul Roblin, Maleeha Mughal, Victoria Rose, Jian Farhadi, Robin Pollock</i></li> <li>• Impact of resection extension and tumor histopathological type on distant effects and quality of life in patients after reconstruction of extensive postoncological trunk and limbs defects <i>Piotr Drozdowski, Łukasz Krakowczyk, Rafał Ulczok, Karolina Donocik, Ryszard Szumniak, Janusz Wierzgon, Mirosław Dobrut, Dominik Walczak, Cezary Szymczyk, Krzysztaf Oles, Adam Maciejewski</i></li> <li>• Choice of Recipient Vessels in Irradiated Lower Limb Sarcoma Defects <i>Eldon Mah</i></li> <li>• Massive hemi-trunk defect reconstruction using a combined thigh flap <i>Cleo Ngadimin, Khong Yik Chew, Tze Yean Kong</i></li> </ul>

## ROOM INDACO

	<ul style="list-style-type: none"> <li>• Reconstruction of back defects after soft tissue sarcoma resection using perforator propeller flaps <i>Sophie Ricketts, Daniel Rittirsch, Eldon Mah</i></li> <li>• Pitfalls in Complex Oncologic Chest Wall Reconstruction with Free Anterolateral Thigh Fasciocutaneous Flap and Rib Plate <i>Siew Cheng Chai, Narasimman Sathiamurthy, Normala Basiron</i></li> <li>• Treatment of congenital rhabdomyosarcoma. Case report of lower leg reconstruction with vascularized functional vastus lateralis muscle for a nine month old boy <i>Dzintars Ozols, Maija Marisa Butnere, Janis Zarins, Aigars Petersons</i></li> </ul>
<p>15.55 - 17.15</p>	<p><b>P65 Education</b>  <b>Aesthetic supermicrosurgery</b>  <i>President: Isao Koshima Moderators: Francisco del Piñal, Yixin Zhang</i></p> <ul style="list-style-type: none"> <li>• Aesthetic supermicrosurgery for face and limbs <i>Isao Koshima</i></li> <li>• Chimera concept for hand <i>Francisco del Piñal</i></li> <li>• Supermicrosurgery for nasal repair and economic flaps <i>Yixin Zhang</i></li> <li>• Free mini-flaps for extremity reconstruction <i>Liwen Hao</i></li> <li>• Supermicrosurgery for leg defects <i>Joon Pio Hong</i></li> <li>• Super-thin SCIP flap <i>Mitsunaga Narushima</i></li> </ul>

## ROOM MAGENTA A

<p>08.00 - 09.20</p>	<p><b>P48 Miscellany</b>  <b>Tissue engineering: from basic science to surgery</b>  <i>President: Stefano Geuna Moderators: Wayne Morrison, Ana Colette Mauricio</i></p> <ul style="list-style-type: none"> <li>• New development in adipose tissue engineering <i>Wayne Morrison</i></li> <li>• Prefabricated and prelaminated flaps for head and neck reconstruction: where we are now <i>Julian Pribaz</i></li> <li>• Tissue engineering for peripheral nerve reconstruction <i>Giulia Ronchi</i></li> <li>• Biomaterials and cell-based strategies for tissue reconstruction <i>Ana Colette Mauricio</i></li> <li>• Animal models for tissue engineering <i>Alberto Ballestín</i></li> </ul>
<p>10.30 - 10.45</p>	<p>Break</p>
<p>10.45 - 11.05</p>	<p><b>K18 New technologies</b>  <b>Is the bionic hand a feasible alternative to hand transplant?</b>  <i>Paul S. Cederna</i></p>
<p>11.05 - 12.25</p>	<p><b>P54 New technology</b>  <b>Robotics and new technology in microsurgery</b>  <i>President: Paul S. Cederna Moderators: Marco Innocenti, Jesse C. Selber</i></p> <ul style="list-style-type: none"> <li>• Superhuman precision: the microsure robotic system <i>René Van der Hulst</i></li> <li>• Preclinical evaluation of a new robotic platform designed for microsurgery <i>Marco Innocenti</i></li> <li>• Robotic microsurgical reconstruction <i>Jesse C. Selber</i></li> <li>• Deep-color system: the future of imaging in microsurgery <i>Andrew Plumb</i></li> <li>• Osteo-neuromuscular prosthetic limbs <i>Paolo Sassu</i></li> </ul>
<p>12.25 - 12.45</p>	<p><b>SELECTED FREE PAPERS</b>  <b>SFP 18 New technology</b>  <i>Moderators: Marco Innocenti, Jesse C. Selber</i></p> <ul style="list-style-type: none"> <li>• A new dedicated microsurgical robot for microsurgery: feasibility of supermicrosurgical anastomosis in a clinical setting <i>Shan S. Qiu Shao, Tom J.M. van Mulken, Rutger M. Schols, Andrea M.J. Scharmga, Raimondo Cau, Yasmine M.J. Jonis, René R.W.J. van der Hulst</i></li> <li>• Robotic-Assisted Head and Neck Free Flap Reconstruction <i>Adrian Ooi, Constance Teo, Yee Siang Ong, Liang Weihao</i></li> </ul>



## ROOM MAGENTA A

	<ul style="list-style-type: none"> <li>Minimally Invasive Totally Extra Peritoneal (TEP) Deep Inferior Epigastric Artery Perforator (DIEP) Flap Harvest: Anatomical Feasibility Study and First Clinical Cases <i>Mikael Hivelin, Antoine Soprani, Stéphane Hans, Laurent Lantieri</i></li> </ul>
12.45 - 14.05	<p><b>PANEL SESSION</b> <b>P60 Miscellany</b> <b>Radiotherapy and Microsurgery</b> <i>President: Martin Halle Moderators: Adriana Cordova, Jan Jeroen Vranckx</i></p> <ul style="list-style-type: none"> <li>Vascular Complication and Aesthetics in breast reconstruction pre vs post-RT <i>Joshua Fosnot</i></li> <li>Vascular complications and timing of head &amp; neck reconstruction <i>Martin Halle</i></li> <li>Reoperative microsurgery in the setting of radiation and prior free flap reconstruction <i>Matthew M. Hanasono</i></li> <li>Radiation and lymphedema: what is the link? <i>Babak J. Mehrara</i></li> <li>Clinical and preclinical strategies to mitigate radiation induced fibrosis in breast reconstruction <i>Aadil Khan</i></li> </ul>
14.05 - 15.05	Lunch
15.05 - 15.55	<p><b>FREE PAPERS</b> <b>FP 40 New Technology</b> <i>Moderators: Jan Jeroen Vranckx, Hari Venkatramani</i></p> <ul style="list-style-type: none"> <li>Minimally Invasive and Robotic Applications for Workhorse Flaps in Microsurgery <i>Alanna Rebecca, Ashley Howarth, Jacob Hammond, William Casey, Yi Johnny</i></li> <li>Robotic Harvesting of Rectus Abdominis Muscle for Oncoplastic Pelvic Reconstruction: can a Cadaveric Training Model Improve Surgical Performance? <i>Joseph Banuelos, Tony Chieh-Ting Huang, Jorys Martinez-Jorge, Pedro Ciudad, Minh-Doan Nguyen, Brian T. Carlsen, Mark E. Morrey, Oscar J. Manrique</i></li> <li>Videoendoscopic robotic surgery application in breast cancer treatment <i>Kuo Chen, Mikhail Sinelnikov, Igor Reshetov</i></li> <li>Laparoscopic Assisted DIEP Flap Harvest Improves Breast Reconstruction Outcomes <i>Suhail Kanchwala</i></li> <li>Transoral Robotic Surgery for Head and Neck Squamous Cell Carcinoma: functional outcome in reconstructed and non reconstructed patients <i>Rossella Sgarzani, Giuseppe Meccariello, Manlio Gessaroli, Andrea Morellini, Davide Melandri, Claudio Vicini</i></li> <li>Free flap reconstruction after robot-assisted neck dissection via a modified face-lift or retroauricular approach for oral and oro-pharyngeal cancers <i>Prashant Puranik</i></li> <li>Novel use of the FAMM flap following salvage transoral robotic surgery <i>Ashwinna Asairinachan, Matthew Magarey, Benjamin Dixon</i></li> </ul>

## ROOM MAGENTA A

15.55 - 17.15

### **P66 Miscellany**

#### **Evidence in Microsurgery**

*President: Karen K. Evans Moderator: Gregory R.D. Evans*

- Evolution of Controversies in Clinical Practice  
*Fan L. Kenneth*
- Controversies in flap monitoring  
*Sarah Sher*
- Controversies in Lymphedema surgery  
*Laura Tom*
- Controversial case presentations  
*Karen K. Evans*

## ROOM VERDE

## FREE PAPERS

## FP 31 General

*Moderators: Neil Jones, Hiroyuki Gotani*

- A Novel Flap Monitoring Booklet and Flap Escalation Protocol:  
Out with the Old, In with the New  
*Tamer Ali, James Coelho, Chris Wallace*
- Cheap smartphone thermal imaging and Doppler ultrasonography  
in free flap planning  
*Dominik Walczak, Agnieszka Piotrowska-Seweryn, Ryszard Szumniak,  
Maciej Grajek, Karolina Donocik, Rafał Ulczok, Piotr Drozdowski,  
Adam Maciejewski, Łukasz Krakowczyk*
- Development and evaluation of a smart-phone application for coping with  
vascular crisis after free flap transplantation  
*Peng Lingli*
- Strategies for a successful hepatic artery anastomosis in liver transplantation:  
a review of 47 cases  
*Hui Chai Fong*
- Free-style pedicled perforator flaps after melanoma resection:  
evaluation of morpho-functional and oncological outcomes  
*Rosa Salzillo, Beniamino Brunetti, Stefania Tenna, Marco Morelli Coppola,  
Paolo Persichetti*
- Arterial blood flow during reperfusion of free flap (computer simulation)  
*Vladimir Baytinger, Konstantin Selyaninov, Sergei Kornelik*
- Failure and Salvage in Free Flap Reconstruction - An Analysis of 1217  
Consecutive Free Flap Cases in a Single Institution -  
*Keisuke Takanari*
- Can human factors help us learn from our mistakes in microsurgery?  
*Juan Enrique Berner, Vimal Gokani, Jessica Savage, Adam Blackburn*
- A successful case of early treatment for heparin induced thrombocytopenia  
(HIT) as a cause of free flap failure in the head reconstructive surgery  
*Akiyo Suzuki*
- Microsurgical reconstruction in the elderly: Age as a Prognostic Factor  
for Microsurgical Success-Two International Cancer Centres Study  
*Vedran Uglesic, Apostolos Vlachogiorgos, Igor Cvrljevic, Damir Kosutic*
- A Retrospective Review of Vacuum Assisted Closure with Instillation  
for Hardware Salvage  
*Julie West, Jason Hehr, Andrew O'Brien, Trevor Hodson, Steven Schulz,  
Stephen Poteet, Rajiv Chandawarkar, Ian Valerio*
- Essential free flaps in reconstructive surgery  
*Prabha Yadav*
- The treatment strategy for the various refractory complications after  
esophageal cancer surgery  
*Yu Hokazono, Hiroki Umezawa, Takeshi Matsutani, Rei Ogawa*

08.00 - 09.20

## ROOM VERDE

	<ul style="list-style-type: none"> <li>• Valvulotomy for reversed saphenous vein graft in reconstruction of vascular injuries in extremities <b>Hiroki Shibayama</b></li> <li>• Post burn contracture extremity of children <b>Murod M. Jafarov, Mirjamol M. Jafarov, Azizbek Boykuvvatov</b></li> </ul>
10.30 - 10.45	Break
10.45 - 12.10	<p><b>FREE PAPERS</b> <b>FP 33 Miscellaneous</b> <i>Moderator: Georgios Pafitanis</i></p> <ul style="list-style-type: none"> <li>• Reconstruction of Limbs in Necrotizing Fasciitis <b>Kiichi Furuse</b></li> <li>• The Vitom 3D system as alternative to the operating microscope <b>Dag Vikingsson, Michael Axelsson, Paolo Sassu</b></li> <li>• The versatility of the gracilis free flap - clinical experience of a microsurgery center <b>Tiago Guedes, João Morais, Rui Vieira, Horácio Zenha, Horácio Costa</b></li> <li>• Microsurgery in a Private Clinic - a risky challenge? <b>Dragos Zamfirescu, Iulia Muraru, Amit Beedasy, Alexandru Stoian</b></li> <li>• Arteriovenous loops in free-flap reconstructive microsurgery <b>Carolina Gaspar, João Morais, Rui Vieira, Horácio Zenha, Horácio Costa</b></li> <li>• Drainless Abdominal Closure of the Deep Inferior Epigastric Artery perforator (DIEP) Flap Donor Site: a Retrospective Cohort Study <b>Maleeha Mughal, Maaath Saggaf, Anne O'Neill, Stefan Hofer</b></li> <li>• Selective non-operative management for penetrating extremity trauma (SNOM-PET): a paradigm shift in management? <b>Luke Geoghegan, Ankur Khajuria, Yasmin Solberg, Dimitris Reissis, Abhilash Jain, Matthew Ives, Jon Simmons, Graham Lawton, Shehan Hettiaratchy</b></li> <li>• Free ALT-flap can treat chronic seroma: a case-report <b>Hien Pham, Nikolaos Tsapralis, Apostolos Vlachogiorgos, Kantappa Gajanan, Damir Kosutic</b></li> <li>• Microsurgical Reconstruction of War Injuries, Challenges, Pearls and Pitfalls <b>Amir Ibrahim</b></li> <li>• To Loupe or not to Loupe? <b>Tasciana Gordon</b></li> <li>• Long-term Outcomes of Successful Fingertip Replantation <b>Kota Hayashi</b></li> <li>• Importance of Efferent Lymphatic Vessel Anastomosis (ELVA) in Lymph Node Transfer <b>Takumi Yamamoto</b></li> <li>• Navigation Lymphatic Supermicrosurgery for Lympho-cyst/-rrhea <b>Mizuki Yamamoto, Yuma Fuse, Takumi Yamamoto</b></li> </ul>

## ROOM VERDE

- Flap salvage with perforator vein anastomosis  
*Terry-Ann Curran, Yasser Hijaz, **Luigi Troisi***
- Chimeric Superficial Circumflex Iliac Perforator Flap for complex reconstructions  
*Daghan Dagdelen, Alper Aksoy*
- Advanced surgical management of lymphedema  
*Rajendra S. Gujjalanavar*
- Lymphatic Channel Transposition using reversed pedicled SCIP flap for lower limb lymphedema  
*Shuji Yamashita, Takayuki Yokoyama, Kanako Danno, Mutsumi Okazaki*

*Moderators: Georgios Psaras, Emanuele Cigna*

- The use of vasopressors in free tissue transfer: retrospective analysis of 5 years in a tertiary care centre  
*Sam Munro, Iain Anderson, Omar Ahmed*
- The role of DSA in preoperative design of free flap  
*Xiaolong Du, Xuehai Ou, Tao Song*
- Cadaveric study of Medial Sural Artery Perforator Flap  
*Luís Vieira, Sara Carvalho, Luís Ribeiro*
- A head to head comparison of the Vascular Basis of the TMG, PAP and FCI flaps: an anatomical study  
*Maximilian Zaussinger, Ines E. Tinhofer, Michael S. Pollhammer, Wolfgang J. Weninger, Georg M. Huemer, Manfred Schmidt*
- Anatomical relationship among the perforator, great saphenous veins, subcutaneous nerves, and lymphatic vessels in profunda femoris artery perforator (PAP) flap  
*Ryo Karakawa*
- Femoral cutaneous nerve flap: new pedicle for a work horse flap of the thigh  
*Jorge Mario Rodríguez, Felipe Rodríguez*
- Versatility of the Pedicled Anterior Thigh Flap: Classification System and Algorithmic Approach  
*Mengqing Zang, Qiang Ding, Boyang Xu, Shan Zhu, Bo Chen, Shanshan Li, Bingjian Xue, Yuanbo Liu*
- Free-style pedicled perforator flaps: risk factors analysis and outcomes evaluation based on a review of 130 consecutive patients  
*Beniamino Brunetti, Stefania Tenna, Mauro Barone, Marco Morelli Coppola, Rosa Salzillo, Paolo Persichetti*
- Analysis of optimal timing for soft tissue reconstruction: when is the best in traumatic wounds of lower extremity?  
*Ik Hyun Seong, Seung Yul Lee, Bo-Young Park*
- Multimodal approach for evaluating perforator perfusion dynamics in isolated hemi-DIEP-flaps  
*Muiz Akram Chaudhry, James B. Mercer, Sven Weum, Louis de Weerd*

12.10 - 14.05

ROOM VERDE

- Effect of low molecular weight heparin calcium combined with NSAIDs on bleeding volume after free flap surgery  
*Xuehai Ou, Xiaolong Du, Tao Song*
- Dimension reduction in flap design-the waveform design  
*Ding Pan, Juyu Tang*
- Pedicled Latissimus Dorsi Flap for Complex Arm Defects: a 4 years' experience from Kuwait  
*Hazem Eltayeb, Muneera Ben-Nakhi*
- Reconstruction after Musculoskeletal Tumors  
*Ikuo Hyodo*
- The Role of Microsurgical Flaps in Primary Burn Reconstruction  
*Rita Passos Meireles, Miguel Pessoa Vaz, Carla Brandão, Íris Brito, Baltazar Ferreira, Susana Pinheiro, Sara Ramos, Carla Diogo, Luís Cabral*
- Proximal Interphalangeal Joint Adipofascial Flap (PIPJAF) Resurfacing Improves the Active Motion of the Proximal Interphalangeal Joint after Contracture Release  
*Che-Hsiung Lee, Charles Yuen Yung Loh, Yueh-Hsia Chen, Yu-Te Lin*
- Anterolateral Thigh Flap Donor Site Outcomes Comparison by Different Closure Methods  
*Ren-Wen Huang*

14.05 - 15.05

Lunch

15.05 - 17.15

**FREE PAPERS**

**FP 41 Aesthetic Microsurgery and Basic Research**

*Moderator: Jesse C. Selber*

- State of Art Facial Defects Restoration, strategic Plan Using Free, and Pedicled Flaps  
*Tarek Elbanoby*
- Aesthetic refinements in head and neck complex defects free flap reconstruction  
*Alexandros Delimpaltas, Georgia-Alexandra Spyropoulou, Leonidas Pavlidis, Elena Georgiadiou, Antonios Antoniou, Dimitrios Dionyssiou, Efterpi Demiri*
- Objective and Quantifiable Measuring Mechanism for Assessing Flap Pliability: our Experience with 92 Patients  
*Jhonatan Elia, Chung-Kan Tsao*
- Gene therapy induced surgical revascularization of cryopreserved allogenic bone: in a Yucatan minipig model  
*Elisa Rezaie*
- Diagnostic capabilities of spectral infrared thermography and portable doppler in the course of treatment of gunshot wounds of soft tissues  
*Serhiy Tertyshnyi*

## ROOM VERDE

- Human Myoblast Chimeric Cells Therapy for Regeneration of the Muscle Components of the VCA  
*Ahlke Heydemann, Maria Siemionow, Erzsebet Szilagyi, Joanna Cwykiel, Enza Marchese, Jesus Garcia-Martinez, Katarzyna Futoma, Krzysztof Siemionow*
- Histological Evaluation of Lymphaticovenular Anastomosis Outcomes Using a Novel Rat Experimental Model  
*Satoshi Onoda*
- Microsurgical reconstruction of the mandible 200 cases - algorithm and concepts  
*Horácio Costa, Horácio Zenha, Marta Azevedo, Gustavo Coelho*
- Administration of Yoda1 Reduces Secondary Lymphedema in Mouse Tail Model  
*Michael Cooper, Giulia Daneshgaran, Roy Yu, Phillip Khim, Sun Young Park, Wan Jiao, Dong Won Choi, Young Kwon Hong, Alex Wong*
- Design and use of intraoperative cutting guides for free fibula flap with syringes  
*Susana Correa, Rosa María Uribe, Diana Porras*
- Experimental study of the impacts of bFGF on decreasing the expression of extracellular inflammatory factors to promote the proliferation and differentiation of chondrocytes  
*Fan Yang*
- Does Pregnancy Predict Incisional Hernia Repair after Abdominally-Based Autologous Breast Reconstruction? A Retrospective Review of 890 Free Flaps  
*Jaelyn Mauch, Geoff Kozak, Irfan Rhemtulla, Shelby Nathan, Mike Tecce, Robyn Broach, Joseph Serletti*
- Technical refinements in scalp replantation: long term outcomes of our experience  
*Aniket Dave*
- Assessment of Breast Shape by Analyzing Postoperative CT images with 3D Simulation Software  
*Yutaka Nakamura, Keisuke Takanari, Takaaki Sugino, Katsumi Ebisawa, Miku Kanbe, Takafumi Uchibori, Kensaku Mori, Yuzuru Kamei*
- Generating a functional muscle flap with the cell-integrated biodegradable elastomer in vivo  
*Hideyoshi Sato, Shinichiro Higuchi, Kazuhiro Toriyama, William R. Wagner*
- Axonal Regeneration Through Autologous Grafts: does the Axonal Load of the Graft Influence Successful Regeneration?  
*Miranda Chacon, Jeff Lichtman, Adriaan Grobbelaar, Jonathan Leckenby*
- Radiologic anatomy of internal pudendal artery: "radiosome" feasibility for flaps  
*Erica Dalla Venezia, Eleonora De Antoni, Regina Sonda, Andrea Monticelli, Franco Bassetto, Cesare Tiengo*
- The use of vasopressors in free tissue transfer: a UK survey  
*Iain Anderson*
- Comparison of the effect of topical lidocaine and verapamil on vessel diameter in microsurgery: an experimental study in rats  
*Mostafa Edris Soliman*

## ROOM ROSSA

## FREE PAPERS

## FP 32 Head &amp; Neck

*Moderators: Jacob Vinaj, Lawrence J. Gottlieb*

- Peking University School and Hospital of Stomatology  
*Ying Liu, Zhi-Gang Cai, Xiao-Feng Shan, Lei Zhang*
- Treatments of peripheral facial nerve defects using the microsurgical techniques  
*Zi-Meng Li, Zhi-Gang Cai, Xiao-Feng Shan, Shi-Jun Li*
- Alternative options and salvage procedures for complex head and neck reconstruction. When microsurgery looks impossible  
*Pedro Ciudad, Oscar Manrique, Cesar Reynaga, Guillermo Wiegeling, Maria Ines Vargas, Walter Navarro, Mouchammed Agko, Raffael Rossi, Hung-Chi Chen*
- Functional and aesthetic outcomes after mandibular reconstruction, a retrospective single-institute study  
*Shintaro Kagimoto*
- Selective neurotomies in facial synkinesis  
*Kallirroï Tzafetta*
- Boneless mandibular reconstruction in patients unfit for vascularised bone surgery  
*Alberto Bedogni, Giordana Bettini, Giorgia Menapace, Nooshin Abbasi, Andrea Sandi, Giorgia Saia*
- Single stage reconstruction of head and neck complex defects involving the skin with a single ALT flap: our experience in 21 consecutive patients  
*Ottavio Piccin, Stefano Cantore, Valentina Pinto, Federico Contedini, Umberto Caliceti*
- Repair of Wide Cleft Palate Fistula with Free Flaps  
*Amresh Baliarsing*
- Functional results of the reconstruction of the upper digestive tract by visceral flaps  
*Michail Ratushnyy, Andrey Polyakov, Alexander Mordovskiy, Irina Rebrikova*
- Microsurgical free flap reconstruction outcomes in head and neck cancer patients after surgical resection and early postoperative brachytherapy  
*Sergio Manzano Mora*
- Use of internal mammary vessels as safe alternative for microsurgery in head and neck oncological salvage surgery  
*Eric Ruzafa, Joan Maria Viñals, Ana Lopez, Jose Antonio Palacin, Josep Oriol Bermejo, Diana Perez, Pau Tarrus, Ramon Tarragona, Anna Lopez, Sergio Manzano, Pedro Quetglas, Sergi Barrantes*
- Modification of the Free Jejunal Flap in hypopharyngeal reconstruction to reduce stricture and leak rates  
*Paul Caine, Ailbhe Kiely, Daniel Butler, Jonathan Dunne, Andreas Shiatis, Peter Clarke, Simon Wood*
- Predictors of oral function and facial aesthetics after fibular free flap surgery for non-traumatic maxillofacial reconstruction  
*Ahmed Alotaibi*
- Reconstruction of large and multiple lips and facial defects with the multipaddled sensate free radial forearm flap  
*Nuh Evin, Muhammed Nebil Selimoglu, Zekeriya Tosun*

08.00 - 09.20



ROOM ROSSA

	<ul style="list-style-type: none"> <li>• Analysis of 255 consecutive cases with free flap reconstruction for head and neck following cancer removal: rationale behind flap selection, outcomes, tips and tricks <b>Oscar F. Fernandez-Diaz</b>, <i>Nigel T. Mabvuure, Fateh Ahmad, Kallirroi Tzafetta</i></li> <li>• Preliminary results of submental flap application in the reconstruction of oral cavity soft tissues' defects <b>Cezary Szymczyk</b>, <i>Dominik Walczak, Łukasz Krakowczyk, Janusz Wierzgon, Ryszard Szumniak, Maciej Grajek, Adam Maciejewski</i></li> </ul>
<p>10.30 - 10.45</p>	<p>Break</p>
<p>10.45 - 12.10</p>	<p><b>FREE PAPERS</b>  <b>FP 34 Head &amp; Neck and Flaps</b>  <i>Moderator: Michael Klebuc</i></p> <ul style="list-style-type: none"> <li>• Microsurgical Reconstruction for Advanced Head and Neck Tumors in Africa Rescued Patients <b>Hugo Freitas</b>, <i>Luís Saraiva, Diogo Ribeiro, Miguel Neves, Arielle Turpin, Victor Fernandes</i></li> <li>• Outcomes Following Free Fibula Flaps for Pediatric Mandibular Reconstruction: a Systematic Review <b>Rushil R. Dang</b>, <i>Joseph M. Firriolo, Laura C. Nuzzi, Brian I. Labow, Steven J. Caldrony</i></li> <li>• A Hairy Situation: experiences and challenges in intraoral hair removal using laser in a head and neck cancer and major trauma after successful microvascular reconstruction <b>Angela Hancock</b>, <i>Christopher Harland, Gavin O'Sullivan, Graham Smith</i></li> <li>• IMAP flap for hypopharyngeal reconstruction <b>Nelson Teixeira</b>, <i>Ruben Nogueira, Tony João, Nuno Ramos, Rui Bastos, Pedro Cavilhas, Pedro Sousa</i></li> <li>• Head and Neck Oncology: Single centre, single surgeon experience of 200 consecutive microvascular reconstructions <i>William Townley, Maleeha Mughal</i></li> <li>• Lip reconstruction with a combination of free flap and static suspension techniques <b>Zoltan Klarik</b>, <i>Monika Dobra, Laszlo Koltai, Ferenc Oberna</i></li> <li>• Functional outcomes of the Medial Sural Artery Perforator Flap in oral cavity reconstruction <i>Natiya Gabuniya, Maleeha Mughal, Paul Roblin, William Townley</i></li> <li>• The best technique for microsurgical ear replantation in children: a systematic review <b>Georgina Wellstead</b></li> <li>• Microsurgery service in peripheral medical centers <b>Amin Abu-Jabal</b></li> </ul>

ROOM ROSSA

- Strategic Plans in Tongue Reconstruction  
**Parintosa Atmodiwirjo**
- Single stage free gracilis muscle transfer in smile reanimation.  
Neuromuscular rehabilitation and cerebral adaptation  
**Khalid Rustamov, Uladimir Padhaisky**
- Vascularized nerve graft for laryngeal reinnervation of unilateral left sided vocal cord paralysis  
**Kalvis Pastars**
- The Free Fasciocutaneous and Chimeric Thoracodorsal Artery Flap for Reconstruction of Composite Head and Neck Defects: a Truly versatile Flap  
**Mohamed H. Zedan, Mohamed A. Shama, Mohamed A. Ellabban, Mohamed A. Rifaat, Ayman A. Amin**
- Temporalis muscle transfer for reanimation of the paralyzed face: an anatomical feasibility study  
**Yi Zhang, Johannes Steinbacher, Chieh-Han John Tzou**
- Giant mandibular ameloblastoma, surgical management and immediate reconstruction with free fibula flap  
**Daniele Cervelli**
- A simple technique for re-positioning of the mandible by using a resin surgical guide combined with metal reconstructive plate  
**Takashi Nuri, Koichi Ueda, Hiroyuki Iwanaga**
- Microvascular Flap Reconstructions in New Maxillofacial Surgery Department in Slovakia - First Year Experience  
**Adam Stebel, Juraj Abelovský, Barbora Durcanová, Barbora Hocková, Dušan Poruban, Rastislav Slávik**
- Outcome analysis of free flaps in patients with previous surgery and radiation  
**M. Fazlur Rahman**

*Moderator: Stefan O.P. Hofer*

- Free Fibular Flap for Pediatric Maxillofacial Reconstruction: assessment of Donor Site Morbidity in Long Term  
**Mehmet Cömert, Bülent Saçak, Melekber Çavus Özkan, Caner Kaya, Özhan Bekir Çelebiler**
- Reconstruction of Head and Neck Defects Using Supraclavicular Artery Island Flap: Technical Refinements and Outcomes  
**Can Ozturk, Cemile Ozturk, Usama Aboelkheir, Mariangela Rivera, Robert Lohman**
- Safety and efficacy of free flaps to reconstruct large carcinologic head and neck defects: about 116 consecutive cases from a single operator  
**Frederic Kolb, Jean Francois Honart, Quentin Gassemyar, Stephane Temam, Stephanie Puget, Natacha Kadlub, Vincent Couloignier, Francois Janot**
- Retrospective analysis on the effect of post-operative adjuvant radiotherapy on the use of mini-plate osteosynthesis in the reconstruction of oromandibular defects with free fibula flap  
**Benjamin NG, Rahul Harshad Nagadia, William Lim, Ngian Chye Tan**
- Evaluation of Double-Barrel Free Fibula Flap Height as a Measure of Bone Mass in Mandible Reconstruction  
**John Chung-Han Wu, Jose Ramon Rodriguez, Chun-Ta Liao, Chih-Hung Lin**

12.10 - 14.05

## ROOM ROSSA

- Versatility of Multidetector-row Computed Tomographic Angiography after Administration of Sublingual Nitroglycerin with Three-Dimensional Reconstruction in Planning of the Anterolateral Thigh Flap  
**Masako Watanabe, Ryuichi Murakami**
- Long term outcome of free flap reconstruction in arteriovenous malformation  
**Kasthuri Shamugam, Siew Cheng Chai, Normala Basiron, Mohammad Ali Mat Zain**
- A Prospective Comparison of Color Doppler Ultrasound(CDU) and Computed Tomographic Angiography(CTA) in the Preoperative Navigation of Lower Extremity Perforators  
**Wenjing Xi**
- Does harvesting medial row perforator reduce donor site morbidity in breast reconstruction with DIEP flap? An anatomical and clinical study  
**Gian Paolo Azzena, Regina Sonda, Andrea Monticelli, Diego Faccio, Cesare Tiengo**
- The assessment of thoracodorsal artery perforator - septocutaneous type (TDAP-sc) using contrast magnetic resonance imaging: the feasibility of easy flap elevation equivalent to TDAP-sc flap in all cases  
**Yu Kagaya, Shimpei Miyamoto, Satoshi Akazawa**
- Application of near-infrared spectroscopy in buried free flaps of oral and maxillofacial  
**Yi Xin Ma**
- Early establishment of de novo venous drainage after free flap transfer  
**Keijiro Hori, Hiroyuki Sakurai**
- Anastomosis of the unclampable, calcified vessel using Fogarty catheter and vein graft  
**Yeonji Lee, Suk-Ho Moon**
- Arterialised Saphenous Venous Flow-Through Flap: revolutionising the Radial Forearm Free Flap Donor Site  
**James Leong, Kimberley Hughes**
- Managing size discrepancy in microsurgical arterial anastomosis: a systematic review of techniques  
**Christopher Deutsch**
- The novel noninvasive and sensitive post-flap monitoring system - the tissue partial pressure of carbon dioxide (TcPCO<sub>2</sub>) monitor system and the tissue oxygen saturation (tSpO<sub>2</sub>) monitor system are very useful for postoperative care of flap in each different point  
**Toshiya Kudou, Masao Suzuki, Yoshitomo Sano, Akira Hara, Satoshi Ichihara, Kazuo Kaneko**
- Can We Effectively Reduce The Operative Time of Deep Inferior Epigastric Artery Perforator (DIEAP) Flaps' Breast Reconstruction: One Surgeon's Experience  
**Abdulaziz Alhujayri, Feras Alshomer, Ghazi Althubaiti**
- Optimization of free flap outcomes by transit time flow measurement and ultrasound imaging. Our experience  
**David Priego Carrillo, Crisitan Carrasco López, Jordi Vilà Poyatos, Oihane García Senosiain, María Del Río Escribano, Lia Huesa Barceló, Zoe Cholbi Navarros, M<sup>a</sup> Carmen Higuera Suñé**

## ROOM ROSSA

	<ul style="list-style-type: none"> <li>• Use of botropase for preventing hematoma on free flap reconstruction <b>Jeong Hwan Shin</b>, <i>Young Chul Suh, Jung Ho Lee</i></li> <li>• The Profunda Artery Perforator Flap: a radiological anatomical study of the perforators using computed tomography angiography <b>Regina Sonda</b>, <i>Roberta Aresu, Elisa Scapin, Franco Bassetto, Luca Saba, Cesare Tiengo, Andrea Figus</i></li> </ul>
<p>14.05 - 15.05</p>	<p>Lunch</p>
<p>15.05 - 17.15</p>	<p><b>FREE PAPERS</b>  <b>FP 42 Basic Research</b>  <i>Moderator: Eterpi Demiri</i></p> <ul style="list-style-type: none"> <li>• Application of bFGF slow release system to a biodegradable nerve conduit in peripheral nerve repair <b>Hirohisa Kusahara</b>, <i>Yu Sueyoshi, Tomokazu Fukuda, Noritaka Isogai</i></li> <li>• Freestyle Pedicled Perforator and Propeller Flaps: Introducing the Perforator Preserving Concept <i>Chelsea Snider</i>, <b>Guilherme Barreiro</b></li> <li>• 3D bioprinted Gelatin-Sodium Alginate scaffolds with living Rat-Schwann cells promote peripheral nerve regeneration <b>Zongxi Wu</b>, <i>Zhigang Cai</i></li> <li>• Analysis of biochemical parameters in free tissue transfer and its effect on hemodynamics <b>Selva SeethaRaman Sakthipalan</b></li> <li>• Color doppler ultrasound with a 3D reconstruction for monitoring of the buried free flap in vascularized lymph node transfer and icg analysis using photoacoustic imaging <b>Filip Jonas</b></li> <li>• Evaluation of neural interfaces for electrical stimulation of the rat trigeminal nerve <i>Weifeng Zeng, Aaron Suminski, Jared Ness, Joseph Novello, Brodnick Sarah, Jane Pisaniello, Aaron Dingle, Wendell Lake, Justin Williams</i>, <b>Samuel Poore</b></li> <li>• A novel Osseointegrated Neural Interface (ONI) with percutaneous connections for chronic electrophysiology in the rabbit <i>Aaron Dingle, Jared Ness, Joseph Novello, Brett Nemke, Yan Lu, Mark Markel, Aaron Suminski, Justin Williams</i>, <b>Samuel O. Poore</b></li> <li>• The Effects of Lymph on Adipose Proliferation and Differentiation <b>Hui-Yi Hsiao</b>, <i>Jia-Wei Liu, Ming-Huei Cheng</i></li> <li>• Combination of Adipose stem cell and Endothelial Colony Forming Cells for Vascularized Adipose Tissue <b>Jia-Wei Liu</b>, <i>Hui-Yi Hsiao, Ming-Huei Cheng</i></li> <li>• Immediate Effects of Arterial Ischemia and Venous Occlusion on the Function of Vascularized Groin Lymph Nodes in a Flap <b>Ines Tinhofer</b>, <i>Chin-Yu Yang, Ming-Huei Cheng, Courtney Chen</i></li> </ul>

## ROOM ROSSA

- Tissue-Engineered Tracheal Cartilage Reconstruction with auricular chondrocytes and poly (ethylene glycol)/poly(e-caprolactone) hydrogel  
*Li Chen, Cherng-Shyang Chang, Chung-Kan Tsao*
- A Porcine model of an in vivo Bioreactor for Engineering Vascularized Bone  
*Chin-Yu Yang, Hui-Yi Hsiao, Jia-Wei Liu, Yu-Lung Lin, Banu Akar, Eric M. Brey, Ming-Huei Cheng*
- The clinical microbiome of the External Doppler Ultrasonography in microsurgery: A pilot study  
*Jessica Paynter, Warren Rozen*
- Autotransplantation of a Sacral Ectopic Phallus: a Case Report  
*Joseph M. Firriolo, Laura C. Nuzzi, Amir H. Taghina, John G. Meara, Brian I. Labow*

## EUROPA AUDITORIUM

09.30 - 10.30

### **L05 On the shoulders of the giants**

*Moderators: Giorgio De Santis, Marco Innocenti*

- Cultivating new giants, and adding up new shoulders: train future trainers in reconstructive microsurgery  
*Fu-Chan Wei*
- Focus on Microsurgical Toe and Joint Transfers Over 40 Years  
*Simo K. Vilkki*
- Pops, are you fixing that man?  
*Peter C. Neligan*

17.25 - 17.45

### **Closing**