FULL PROGRAM

Author index numbers refer to papers as they are published in numerical order in the May 2011 PRS Supplement.

Papers in the supplement are also in alphabetical order by original presenter's last name.
Thursday, April 28, 2011

6:30 am - 5:00 pm  Registration
7:00 - 8:00 am  Continental Breakfast with Exhibitors
8:00 - 10:30 am  Local Program Session 1

8:00 - 8:30 am  Welcome and History of Plastic Surgery at the University of Louisville
    Bradon J. Wilhelmi, MD
    Chief & Professor Plastic Surgery
    Kelly McMaster, MD, PhD
    Sam and Lolita Weakley Professor & Chairman

8:30 - 9:00 am  The History of Composite Tissue Allotransplantation
    Gordon Tobin, MD
    Professor of Surgery
    University of Louisville School of Medicine

9:00 - 10:00 am  Hand Transplantation: The Louisville Experience
    Warren Breidenbach, MD
    Chief, Section of Plastic and Reconstructive Surgery
    University of Arizona

9:00 - 10:15 am  Hand Transplantation: The Patient's Experience
    Matt Scott  -  First Bionic Hand Transplant Recipient

10:15 - 10:30 am  Coffee with Exhibitors
11:00 am - 12:00 pm  Local Program Session 2

10:30 - 11:00 am  Chimerism and Tolerance: Bench to Bedside to Bench
    Suzanne T. Ildstad, MD
    Director, Institute for Cellular Therapeutics

11:00 - 11:30 am  Horse Racing and Breeding in Kentucky
    J. David Richardson, MD
    Professor & Vice Chair of Surgery, Division Director of General Surgery
    University of Louisville School of Medicine

12:00 - 12:15 pm  Members' Photograph
12:00 - 2:00 pm  Lunch - Non-Members
12:30 - 2:00 pm  Lunch & Business Meeting - Members only
2:00 - 3:00 pm  Panel 1: Technology Development in Plastic Surgery: How to Successfully Work with Industry and Investors
    Moderator: Geoffrey C. Gurtner, MD, FACS
    Panelist: Ronald Silverman, MD

3:00 - 3:30 pm  Coffee with Exhibitors

-28-
3:30 - 5:00 pm

Moderator: Rogerio I. Neves, MD
Co-Moderator: Steven Kronowitz, MD

3:30 pm
115
CAN INTRAOPERATIVE PERFUSION TECHNIQUES ACCURATELY PREDICT MASTECTOMY SKIN FLAP NECROSIS?
Presenter: Brett T. Phillips, MD
Affiliation: Stony Brook University Medical Center
Authors: Phillips BT, Lanier ST, Conkling N, Wang ED, Dagum AB, Ganz JC, Khan SU, Bui DT

3:38 pm
92
RECOVERY OF SENSATION IN THE RECONSTRUCTED BREAST
Presenter: Michael Magarakis, MD
Affiliation: Johns Hopkins School of Medicine
Authors: Magarakis M, Venkat R, Dellen LA, Bellamy J, Vaca E, Manahan MA, Edwards C, Rosson GD

3:46 pm
14
COMPLICATIONS ASSOCIATED WITH RADIATION IN TISSUE EXPANDER BREAST RECONSTRUCTION WITH HUMAN ACELLULAR DERMAL MATRIX
Presenter: Andrew L. Blount, MD
Affiliation: Grand Rapids Medical Education and Research Center
Authors: Blount AL, Armstrong SD, Lineberry K, Do VH, Cullen WT, Ford RD

3:54 pm
11
THE IMPORTANCE OF HOSPITAL CASE-VOLUME FOR OUTCOMES IN AUTOLOGOUS FREE-TISSUE BREAST RECONSTRUCTION
Presenter: Mazen I. Bedri, MD
Affiliation: Mercy Medical Center
Authors: Bedri MI, Villegas C, Rosson GD

4:02 pm
110
PREVENTION OF VENOUS THROMBOEMBOLISM WITH POST-OPERATIVE ENOXAPARIN: PRELIMINARY RESULTS OF THE PSEF’S VENOUS THROMBOEMBOLISM PREVENTION STUDY (VTEPS)
Presenter: Christopher J. Pannucci, MD
Affiliation: University of Michigan

4:10 pm
138
MANDIBLE FRACTURES IN CHILDREN: DEMOGRAPHICS, TREATMENT, OUTCOMES, AND GROWTH
Presenter: Darren M. Smith, MD
Affiliation: University of Pittsburgh Medical Center
Authors: Smith DM, Bykowski MR, Rotgers SA, Vecchione I, Cray JJ, Naran S, Kinsella CR, Losee JF

4:18 pm
34
DOES IMMEDIATE BREAST RECONSTRUCTION AFFECT SURGICAL SITE INFECTION? DATA FROM THE NATIONAL SURGICAL QUALITY IMPROVEMENT PROGRAM (NSQIP)
Presenter: Melinda A. Costa, MD
Affiliation: Keck School of Medicine of the University of Southern California
Authors: Costa MA, Nguyen TJ, Shahabi A, Hernandez AM, Vidar EN, Davis GB, Chan LS, Wong AK
4:26 pm
IMPACT OF PRIOR IPSILATERAL CHEST WALL RADIATION ON PEDICLED TRAM FLAP BREAST RECONSTRUCTION
Original Presenter: Yun Chun, MD
New Presenter: Indrani Sinha, MD
Affiliation: Brigham and Women’s Hospital

4:34 pm
EVOLUTION OF BREAST RECONSTRUCTION PARADIGMS DRIVEN BY INCREASE IN NUMBERS OF BILATERAL MASTECTOMY
Presenter: Lin Lin Gao, BS
Affiliation: Massachusetts General Hospital
Authors: Gao LL, Smith BL, Liao EC

4:42 pm
EFFECT OF CARPAL TUNNEL SYNDROME ON TRIAL-TO-TRIAL ADAPTATION TO OBJECT CENTER OF MASS- SENSORIMOTOR INTEGRATION FOR MULTI-DIGIT GRASPING
Presenter: Kyle Sannec, MHA, MBE
Affiliation: Mayo Clinic Arizona

5:00 pm
ACELLULAR DERMAL MATRIX IN POST-MASTECTOMY BREAST RECONSTRUCTION: A SYSTEMATIC REVIEW AND METAANALYSIS
Presenter: Raghunandan Venkat, MD, MPH
Affiliation: Johns Hopkins Medical Institutions
Authors: Venkat R, Ohkuma R, Hui-Chou HG, Manahan MA, Magarakis M, Rosson GD

5:08 pm
OUTCOMES OF TISSUE EXPANDER BREAST RECONSTRUCTION IN PATIENTS WITH PRE-RECONSTRUCTION RADIATION
Presenter: Elliot M, Hirsch, MD
Affiliation: Northwestern Memorial Hospital
Authors: Hirsch EM, Seth AK, Kim JY, Dumanian GA, Mustoe TA, Fine NA

5:16 pm
AMIFOSTINE DEMONSTRATES SIGNIFICANT CYTOPROTECTION IN AN IRRADIATED MURINE MODEL OF MANDIBULAR DISTRACTION OSTEOGENESIS
Presenter: Elizabeth R, Razdolsky
Affiliation: University of Michigan Medical School
Authors: Razdolsky ER, Tchand-Teoh CN, Donneys A, Forberg AS, Deshpande SS, Gallagher KK, Sarhaddi D, Poushanchi B, Buchman SR

5:00 - 6:00 pm
Scientific Session 2
Best Paper Plenary Session
Clinical Outcomes Research & Craniofacial/Bone

Moderator: Babak Mehrara, MD
Co-Moderator: Peter Taub, MD, FACS, FAAP
A NOVEL ALGORITHM TO ANALYZE CORONAL SUTURE DEVELOPMENT IN MICE
Original Presenter: Megan Richards
New Presenter: Christopher Hermann, MS
Affiliation: Georgia Institute of Technology

TEMPORAL CHANGES IN GENE EXPRESSION REGULATING MOUSE POSTERIOR FRONTAL SUTURE FUSION
Presenter: Regina Chang
Affiliation: Georgia Institute of Technology

GENE EXPRESSION PROFILE IN NON-SYNDROMIC METOPIC CRANIOSYNOSTOSIS
Presenter: Chelsea Britt
Affiliation: Georgia Institute of Technology

STEM CELL THERAPY IMPROVES BONY HEALING
Presenter: John Layliev, MD
Affiliation: New York University Medical Center

INCREASED OSTEOBLASTOGENESIS AND WNT/BMP GENE REGULATION IN NON-SYNDROMIC LAMBDOID CRANIOSYNOSTOSIS
Presenter: Rene Olivares-Navarrete, DDS, PhD
Affiliation: Georgia Institute of Technology

7:00 - 10:00 pm
Members' Dinner - Kentucky Derby Museum
Buses depart The Seelbach Hilton Hotel at 6:45 pm

Friday, April 29, 2011

6:30 am - 5:00 pm
Registration

7:00 - 8:00 am
Continental Breakfast with Exhibitors

7:00 - 8:00 am
Instructional Course 1
Health Services Research in Plastic Surgery: Getting Started
Moderator: Edwin G. Wilkins, MD
Panelists: Valerie Lemaine, MD, MPH
Clara N. Lee, MD, MPP

7:00 - 8:00 am
Instructional Course 2
Building an Academic Practice
Moderator: Michael W. Neumeister, MD
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<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Presenter/Authors</th>
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<tbody>
<tr>
<td>8:30 am</td>
<td>AMIFOSTINE MITIGATES THE UNTOWARD EFFECTS OF RADIATION ON THE MINERALIZATION CAPACITY OF IRRADIATED BONE IN THE MURINE MANDIBLE</td>
<td>Snyder</td>
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<tr>
<td>8:38 am</td>
<td>IMPAIRED HEALING IN PROGERIC MICE: THE ROLE OF P33 AND ITS EFFECTS ON REACTIVE OXYGEN SPECIES STATE</td>
<td>Shenaq</td>
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<tr>
<td>8:46 am</td>
<td>PROPRANOLOL CAUSES CYTOTOXICITY IN HEMANGIOMA CELLS THROUGH DOWNREGULATION OF VEGF-RELATED PROTEINS AND DECREASED PI3/AKT PHOSPHORYLATION</td>
<td>Snyder</td>
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<td>8:54 am</td>
<td>LIPID NANOPARTICLE-BASED GENE SILENCING: ONE-STAGE TOPICAL GENE THERAPY</td>
<td>Gingras</td>
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<td>9:02 am</td>
<td>UTILIZATION OF EXPLANTABLE MICROVASCULAR NETWORKS FROM ADIPOSE TISSUE FOR ORGAN-LEVEL TISSUE ENGINEERING</td>
<td>Shenaq</td>
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<td>9:10 am</td>
<td>THE INNOVATIVE ROLE OF SWEAT GLAND STEM CELLS ON DERMAL REGENERATION AFTER THERMAL INJURY</td>
<td>Shenaq</td>
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9:18 am
HIF-1α MODULATES LYMPHATIC VESSEL REGENERATION AND IS STABILIZED DURING CHRONIC LYMPHEDEMA
Presenter: Jamie C. Zampell, MD
Affiliation: Memorial Sloan Kettering Cancer Center
Authors: Zampell JC, Duluoy S, Avraham T, Yan A, Malliaris S, Aschen S, Mehrara BJ

9:26 am
FIBROBLAST-SPECIFIC FOCAL ADHESION KINASE LINKS MECHANICAL FORCE WITH SCAR FORMATION BY REGULATING FIBROPROLIFERATIVE AND INFLAMMATORY PATHWAYS POST-INJURY
Presenter: Victor W. Wong, MD
Affiliation: Stanford University
Authors: Wong VW, Rustad KC, Akaishi S, Januszyk M, Glotzbach JP, Sorkin M, Longaker MT, Gurtner GC

9:34 am
EX VIVO TRANSFER OF ADENOVIRUS-MEDIATED CTLA4IG GENE COMBINED WITH A SHORT COURSE OF RAPAMYCIN THERAPY PROLONGS FREE FLAP ALLOGRAFT SURVIVAL
Presenter: Bo Xiao, MD
Affiliation: Xijing Hospital The Fourth Military Medical University
Authors: Xiao B, Xia W, Zhao KF, Yang Y, Fu S, Li Y, Liu B, Guo SZ

9:42 am
ADIPOSE-DERIVED STEM CELLS DEMONSTRATE INCREASED SURVIVAL AND PROMOTE LOCAL VASCULOSGENESIS VIA A PARACRINE MECHANISM IN ISCHEMIC ADIPOSE TISSUE: EXPERIMENTS WITH MOLECULAR IMAGING
Presenter: Hiroiaka Suga, MD
Affiliation: Stanford University
Authors: Suga H, Glotzbach JP, Sorkin M, Longaker MT, Gurtner GC

9:50 am
NERVE REGENERATION UNDER THE INFLUENCE OF PEDOT
Presenter: Ziya Baghmanli, MD
Affiliation: University of Michigan
Authors: Baghmanli Z, Urbanleck MG, Wei B, Shim BS, Martin DC, Cederna PS

10:00 - 10:30 am
Coffee with Exhibitors

Scientific Session 4
Concurrent Podium Paper Session
Group A: Tissue Engineering
Group B: Wound Healing

10:30 am
G Tissue Engineering
Moderator: Adam Katz, MD, FACS
Co-Moderator: Wei Liu, MD, PhD

10:30 - 11:30 am
GENE EXPRESSION PATTERNS OF HUMAN ADIPOSE-DERIVED STROMAL CELLS CORRELATE WITH FACS SORTING PARAMETERS FOR PROSPECTIVE ISOLATION OF SUBPOPULATIONS
Presenter: Jason P. Glotzbach, MD
Affiliation: Stanford University
Authors: Glotzbach JP, Levi B, Januszyk M, Wong VW, Sorkin M, Chen J, Suga H, Longaker MT, Gurtner GC
4
AGE-RELATED DECLINE IN CITED2 EXPRESSION LEADS TO INCREASED
SENESCENCE OF TENDON-DERIVED STEM/PROGENITOR CELLS
Presenter: Takintope Akinbiyi, MS, MD
Affiliation: Mount Sinai School of Medicine
Authors: Akinbiyi T, Eckstein DA, Xu L, Taub PJ, Sun H

10:46 am
41
ADIPOSE DERIVED STEM CELLS PROLIFERATE AND DIFFERENTIATE ON HUMAN
ACELLULAR DERMIS
Presenter: Nazanin Ehsani, BS
Affiliation: University of California Los Angeles
Authors: Ehsani N, Slack G, Fan K, Kruger E, Tabiti C, Zuk P, Bradley J

10:54 am
40
THE EFFECT OF LOW INTENSITY ULTRASOUND ON PROLIFERATIVE GENE
EXPRESSION IN TENDON-DERIVED STEM CELLS
Presenter: Donna A. Eckstein, BA
Affiliation: Mount Sinai School of Medicine
Authors: Eckstein DA, Guha D, Akinbiyi T, Taub PJ, Zhang H, Sun H

11:02 am
155
LONG TERM STABILITY OF REGENERATIVE PERIPHERAL NERVE
INTERFACES (RPNI)
Presenter: Melanie G. Urbanchek, PhD
Affiliation: University of Michigan
Authors: Urbanchek MG, Baghmanian Z, Wei B, Egeland BM, Cederna PS

11:10 am
157
LONG TERM IN-VIVO TUMORIGENIC ASSESSMENT OF HUMAN CULTURE-
EXPANDED ADIPOSE STROMAL/STEM CELLS
Original Presenter: Adam J. Katz, MD, FACS
New Presenter: Zoe MacIsaac
Affiliation: University of Virginia Health System
Authors: Katz AJ, Shang H, MacIsaac Z, Parker A

11:18 am
120
DEVELOPMENT OF AN ENGINEERED EAR USING A FIBROUS COLLAGEN
SCAFFOLD WITH EMBEDDED WIRE
Original Presenter: Mark A. Randolph, MAS
New Presenter: Xing Zhao, MD
Affiliation: Massachusetts General Hospital
Authors: Zhao X, Randolph MA, Pomerantseva I, Bassett E, Zhou L, Bichara DA,
Kulig KM, Sundback CA, Vacanti JP

10:30 - 11:30 am
Group B: Wound Healing
Moderator: Stephen M. Warren, MD
Co-Moderator: Gayle M. Gordillo, MD, FACS

10:30 am
30
SHIFTING CELLULAR REDOX BALANCE: TOPICAL SILENCING OF REAP1
INCREASES ANTIOXIDANT CELLULAR PROTECTION, IMPROVING DIABETIC
WOUND HEALING
Presenter: Oriana Cohen, BA
Affiliation: New York University Langone Medical Center
Authors: Cohen O, Patel M, Layliev J, Wetterau M, Szpulski C, Knobel D, Ceradini DJ,
Warren SM, Staedeh PB
10:38 am

**DELIVERY OF MESENCHYMAL STEM CELLS IN A BIOMIMETIC HYDROGEL ENHANCES STEM CELL ENGRAFTMENT AND ACCELERATES WOUND HEALING**
Presenter: Kristine C. Rustad, BS
Affiliation: Stanford University
Authors: Rustad KC, Wong VW, Sorkin M, Major MR, Glotzbach JP, Rajadas J, Longaker MT, Gurtner GC

10:46 am

**CD109, AN ENDOGENOUS TGF-BETA ANTAGONIST, ENHANCES WOUND HEALING AND REDUCES SCARRING AND FIBROSIS**
Presenter: Sebastian Winocour, MD
Affiliation: McGill University
Authors: Winocour S, Vorstenbosch J, Alajmi H, Trzeciak A, Lessard L, Philip A

10:54 am

**TREATMENT OF PSEUDOMONAS AERUGINOSA BIOFILM-INFECTED WOUNDS WITH CLINICAL WOUND CARE STRATEGIES: A QUANTITATIVE STUDY USING AN IN VIVO RABBIT EAR MODEL**
Presenter: Akhil K. Seth, MD
Affiliation: Northwestern University Feinberg School of Medicine
Authors: Seth AK, Gurjala AN, Geringer MR, Hong SK, Galliano RD, Leung KP, Mustoe TA

11:02 am

**IDENTIFICATION OF CD109 AS A REGULATOR OF CUTANEOUS INFLAMMATION IN VIVO**
Presenter: JeanPhilip Lacroix
Affiliation: Plastic Surgery Research McGill University
Authors: Lacroix J, Vorstenbosch J, Lighter M, Philip A

11:10 am

**FAT GRAFTING ACCELERATES NEOVASCULARIZATION AND DECREASES FIBROSIS FOLLOWING THERMAL INJURY**
Presenter: Steven M. Sultan, BA
Affiliation: New York University
Authors: Sultan SM, Butala P, Barr JS, Davidson EH, Weinstein AL, Knobel D, Saadeh PB, Warren SM, Coleman SR, Hazen A

11:18 am

**A FIRST GENOME-WIDE ASSOCIATION STUDY IN DUPUYTREN’S DISEASE IDENTIFIES 9 SUSCEPTIBILITY LOCI AND SUGGESTS A MAJOR ROLE FOR WNT-SIGNALLING**
Presenter: Guido H. Dolmans, MD
Affiliation: University Medical Center Groningen
Authors: Dolmans GH, Werker PM, Hennies HC, Furniss D, Festen EA, Franke L, van der Vlies P, Wolfenbuttel BH, Giele H, Ophoff RA, Wijmenga C

11:30 am - 12:00 pm

**Scientific Session 5**
EPSRC Plenary Paper Session
Moderator: Lars Steinstraesser, MD
Co-Moderator: Scott Hansen, MD

11:30 am

**ACCELERATED VASCULARISATION AND IMPROVED BONE FORMATION IN CRITICAL-SIZE BONE GRAFTS BY VEGF-EXPRESSING BMSC IN A RABBIT MODEL**
Presenter: Rene Largo, MD
Affiliation: University Hospital of Basel
11:38 am
T-REGULATORY CELLS AND TH17 CELLS IN PERISILICONE-IMPLANT CAPSULAR FIBROSIS
Presenter: Evelyn Rabensteiner, MD
Affiliation: Innsbruck Medical University

11:46 am
157 NEUROMODULATION IN FUNCTIONAL RECONSTRUCTION THROUGH PERIPHERAL NERVE TRANSPLANTATION INTO CENTRAL NERVE SYSTEM IN SPINAL CORD INJURY IN RATS APPLING CEREBROLYSIN
Presenter: Tobias von Wild, MD
Affiliation: UKSH Campus Lubeck

12:00 - 12:20 pm
The New PSF
John Persing, MD
President, Plastic Surgery Foundation

12:30 - 1:30 pm
Lunch

1:30 - 2:30 pm
Panel 2: Fat Grafting and Stem Cell Application
Moderator: J. Peter Rubin, MD
Panelists: Kotaro Yoshimura, MD
Lee Pu, MD, PhD, FACS
Adam Katz, MD, FACS

Scientific Session 6
Concurrent Podium Paper Session
Group A: Clinical Outcomes Research
Group B: Nerve

2:30 - 4:00 pm
Group A: Clinical Outcomes Research
Moderator: Joan Lipo, MD, FACS
Co-Moderator: Janice Lalikos, MD, FACS

2:30 pm
71 THE APPLICATION OF SUBCUTANEOUS TALC IN PANNICULECTOMIES AND SUBCUTANEOUS ADVANCEMENT FLAPS WITH CONCOMITANT HERNIA REPAIR REDUCES DRAIN DURATION AND POST-OPERATIVE WOUND COMPLICATIONS
Presenter: David A. Klima, MD
Affiliation: Carolinas Medical Center
Authors: Klima DA, Getz SB, Brintzenhoff RA, Carpenter CL, Heniford BT

2:38 pm
152 A MODEL FOR SHORT-TERM MEDICAL MISSION EVALUATION: THE IMPACT OF A HAND SURGERY MISSION TO HONDURAS
Original Presenter: Laura K. Tom, BS
New Presenter: Kyle Ragins
Affiliation: Yale School of Medicine
Authors: Tom LK, Ragins K, Colebunders B, Thomson JG
DIGITAL IMAGE SPECKLE CORRELATION (DISC) ANALYSIS AS A PROSPECTIVE QUANTITATIVE CLINICAL OUTCOMES METRIC FOR COSMETIC TREATMENT WITH BOTULINUM TOXIN TYPE A
Presenter: Nicole Conkling, BA, BS
Affiliation: Stony Brook University Medical Center
Authors: Conkling N, Phillips BT, Bhatnagar D, Raffalovich M, Wang ED, Melendez MM, Khan SU, Bui DT, Dagum AB

DO MEDICAL STUDENTS OBTAIN AN APPRECIATION FOR THE SCOPE OF PLASTIC SURGERY? THE UNIVERSITY OF UTAH EXPERIENCE
Presenter: Linh A. Ho, BS
Affiliation: University of Utah School of Medicine
Authors: Ho LA, Mendenhall SD, Hopkins PN, Agarwal CA, Agarwal JP

PERFUSION-RELATED COMPLICATIONS ARE SIMILAR FOR FLAPS HARVESTED ON MEDIAL OR LATERAL BRANCH DEEP INFERIOR EPIGASTRIC ARTERY PERFORATORS
Presenter: Patrick B. Garvey, MD
Affiliation: The University of Texas MD Anderson Cancer Center
Authors: Garvey PB, Salavati S, Feng L, Butler CE

A COMPARISON OF POSTOPERATIVE COMPLICATIONS BETWEEN MASTECTOMY AND IMMEDIATE BREAST RECONSTRUCTION: IMPACT ON INITIATION OF CHEMOTHERAPY
Presenter: Toni Zhong, MD, FRCSC
Affiliation: University Health Network
Authors: Zhong T, Hofer SO, McCready D, Jacks L

MISREPRESENTATION OF SCHOLARLY WORKS BY INTEGRATED PLASTIC SURGERY APPLICANTS: IS IT REALLY AN ISSUE?
Presenter: Steven J. Kasten, MD
Affiliation: University of Michigan
Authors: Kasten SJ, Phillips J, Murphy MA

TREATMENT OF APERT SYNDROME: A LONG-TERM FOLLOW-UP STUDY
Presenter: Derrick C. Wan, MD
Affiliation: University of California Los Angeles
Authors: Wan DC, Kawamoto H, Allam K, Bradley J

EARLY POSTOPERATIVE OUTCOMES ASSOCIATED WITH THE ANTEROLATERAL THIGH FLAP IN SMOKERS WITH COVERAGE OF TRAUMATIC GUSTILO 11B FRACTURES OF THE LOWER EXTREMITY
Presenter: Michael R. Christy, MD
Affiliation: The R Adams Cowley Shock Trauma Center & The University of Maryland
Authors: Christy MR, Lipschitz A, Christian M, Shridharani S, Magarakis M, Rodriguez E, Manson P

BENEFICIAL ROMBERG RECONSTRUCTION DESPITE POORER FAT GRAFT TAKE AND MULTIPLE SOFT AND HARD TISSUE PROCEDURES
Presenter: Christina J. Tabit, BA
Affiliation: University of California Los Angeles
Authors: Tabit CJ, Slack G, Andrews B, Kawamoto H, Bradley J
7
POST-OPERATIVE ENOXAPARIN DOES NOT INCREASE RISK FOR
RE-OPERATIVE HEMATOMA IN PLASTIC SURGERY PATIENTS: PRELIMINARY
RESULTS OF THE PSEFS VENOUS THROMBOEMBOLISM PREVENTION
STUDY (VTEPS)
Presenter: Steven H. Bailey, MD
Affiliation: UT Southwestern Medical Center
Authors: Bailey SH, Pannucci C, Dreszer G, Fischer CF, Jaber C, Jaber RM, Hamill JB,
Hoxworth RE, Kalliaimen LK, Rubin JP, Pusic AL, Wilkins EG

2:30 - 4:00 pm

Group B: Nerve
Moderator: Melanie Urbanchek, PhD
Co-Moderator: Kacey Marra, PhD

2:39 pm

CANCELLED

2:38 pm

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GELDANAMYCIN IMPROVES FUNCTIONAL RECOVERY AFTER PERIPHERAL
NERVE CRUSH IN RATS
Presenter: Hank H. Sun
Affiliation: Washington University School of Medicine
Authors: Sun HH, Hunter DA, Johnson PJ, Mackinnon SE

2:46 pm

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DEVELOPMENT OF A MICROSPHERE DRUG DELIVERY SYSTEM TO PROMOTE
NERVE REGENERATION AFTER PERIPHERAL NERVE INJURY
Presenter: Matthew D. Wood, PhD
Affiliation: The Hospital for Sick Children, University of Toronto
Authors: Wood MD, Kim H, Bilibily A, Kemp S, Weber C, Gordon T, Shoichet MS,
Borschel GH

2:54 pm

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FUNCTIONAL OUTCOMES OF REPAIR OF 2 CM RAT SCIATIC NERVE DEFECT
WITH AN ALLOGENIC TISSUE ENGINEERED BONE MARROW STROMAL CELL
EPINEURAL CONSTRUCT
Presenter: Amanda Mendiola, MD
Affiliation: Cleveland Clinic Foundation
Authors: Mendiola A, Madaika M, Brzezicki G, Gatherwright J, Siemionow M

3:02 pm

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ULTRASONOGRAPHIC ASSESSMENT OF DIGITAL NERVE INJURIES
Presenter: Keshav T. Magge, MD
Affiliation: Jacobi Medical Center Albert Einstein College of Medicine
Authors: Magge KT, de la Lama MD, Kessler JK, Umanis HU, Liebling RI

3:10 pm

56
ALTERING THE GLIAL SCAR FIBRONECTIN MATRIX TO PROMOTE
REGENERATIVE HEALING
Presenter: Henry C. Hsia, MD, FACS
Affiliation: Princeton University/Robert Wood Johnson Medical School
Authors: Hsia HC, Zheng HH, Corbett SA

3:10 pm

87
GRADED NERVE MODULATION USING A BIOMEMS DEVICE
Presenter: Samuel Lin, MD
Affiliation: Beth Israel Deaconess Medical Center Harvard Medical School
Authors: Lin S, Song YA, Rabie AN, Ibrahim AM, Han J, Lin SJ
NERVE GAP REPAIR WITH ALLOGENIC EPINEURIAL TUBES SUPPORTED WITH BONE MARROW STROMAL CELLS (BMSC) THERAPY AS AN ALTERNATIVE TO AUTOGRAPH REPAIR
Presenter: Maria Madajka, PhD
Affiliation: Cleveland Clinic
Authors: Madajka M, Mendiola A, Brzezicki G, Mendiola A, Siemionow M

THE ROLE OF IL-10 AND C3 TOXIN IN NERVE REGENERATION IN AN END-TO-SIDE NERVE REPAIR MODEL
Presenter: Maria Sakalisikou, MD
Affiliation: University Clinic Freiburg Germany
Authors: Sakalisikou M, Stark GB, Akteres K, Penna V

SPATIALLY CONTROLLED DELIVERY OF NEUROTROPHIC FACTORS IN SILK FIBROIN-BASED NERVE CONDUITS FOR PERIPHERAL NERVE REPAIR
Presenter: Yenchih Lin, PhD
Affiliation: University of Pittsburgh
Authors: Lin YC, Ramadan MH, Philips BJ, Tupaj M, Kaplan DL, Sivak W, Rubin JP, Marra KG

HISTOLOGIC AND TACTILE EVALUATION OF CHRONIC NEUROMAS FROM A PERIPHERAL NERVE INTERFACE
Presenter: Benjamin Wei, MD
Affiliation: University of Michigan
Authors: Wei B, Urbaneck MG, Baghmanli Z, Shim BS, Martin DC, Kuzon WM, Cederma PS

3D-SCHWANN CELL-NEURON-SPERHROIDS - ASSAY FOR NEURITE SPROUTING AND MYELINATION
Presenter: Vincenzo Penna, MD
Affiliation: University Medical Center Freiburg
Authors: Penna V, Boyle V, Stark GB

Coffee with Exhibitors

Scientific Session 7
Concurrent Podium Paper Session
Group A: Composite Tissue Allotransplantation & Craniofacial/Bone
Group B: Microsurgery/Flap Physiology & Tumor Immunology/Cancer Biology

Group A: Composite Tissue Allotransplantation & Craniofacial/Bone
Moderator: David Mathes, MD
Co-Moderator: Thomas Tung, MD

TOLERANCE OF CLASS I-MISMATCHED COMPOSITE TISSUE ALLOGRAFTS IN SWINE TOLERANT OF RENAL ALLOGRAFTS
Presenter: Radbeh Torabi, BS
Affiliation: Harvard Medical School Massachusetts General Hospital
Authors: Torabi R, Scalea JR, Leto Barone AA, Gillon BC, Cormack TA, Randolph MA, Sachs DH, Yamada K, Cetrulo CL
LONG-TERM TOLERANCE TO COMPOSITE TISSUE ALLOGRAFT IS DEPENDENT ON ADMINISTRATION OF BONE MARROW BUT NOT DURABLE DONOR CELL CHIMERISM
Original Presenter: David W. Mathes, MD
New Presenter: Jeff Chang, MD
Affiliation: University of Washington Medical Center
Authors: Mathes DW, Chang J, Hwang B, Miwongtum T, Graves S, Storb R

ALLOANTIGEN-PULSED HOST DENDRITIC CELLS PROLONG ALLOGRAFT SURVIVAL IN A RAT MODEL OF HETEROTOPIC TRACHEAL ALLOTRANSPLANTATION
Presenter: Qixu Zhang, MD, PhD
Affiliation: University of Texas MD Anderson Cancer Center
Authors: Zhang Q, Zang M, Sacks JM, Robb GL, Yu P

RESEARCH ON THE EFFECT OF LOCAL ADOPTIVE TRANSFUSION OF IMMATURE DENDRITIC CELLS ON THE REJECTION MODEL OF COMPOSITE TISSUE ALLOTRANSPLANTATION
Presenter: Yang Yang, MS
Affiliation: Xijing Hospital of Fourth Military Medical University of Chinese
Authors: Yang Y, Guo SZ, Xia W, Yi CG, Zhuang R, Li Y, Fu S

NERVE REGENERATION IN RAT ORTHOTOPIC LIMB ALLOGRAFTS: EVALUATION OF ACUTE REJECTION RESCUE
Presenter: Ying Yan, MD, PhD
Affiliation: Washington University in St Louis
Authors: Yan Y, MacEwan M, Johnson P, Hunter D, Mackinnon S, Tung T

REPAIR OF ALVEOLAR CLEFT DEFECT WITH PRE-CONDITIONED MULTIPOTENT CELLS
Presenter: Sarah Sorice, BS
Affiliation: University of California Los Angeles
Authors: Sorice S, Fan K, Ehsani N, Tabit C, Gabbay J, Zuk P, Bradley J

ROLE OF GSK-3B SIGNALING IN PALATAL OSTEGENESIS: IN VITRO AND IN VIVO STUDIES
Presenter: Emily R. Nelson, BS
Affiliation: Stanford University
Authors: Nelson ER, Levi B, Sorkin M, James AW, Brugmann SA, Longaker MT

INDUCTION OF STRUCTURALLY ABNORMAL BONE AND INFLAMMATION IN VIVO WITH HIGH DOSES OF BMP2
Presenter: Janette N. Zara, BSEE, MS, MD
Affiliation: University of California Los Angeles
Authors: Zara JN, Siu RK, Zhang X, Shen J, Ngo R, Li WM, Chiang M, Chung J, Ting K, Soo C
26 NASAL CONTOURING: CALCULATED AND PREDICTABLE TIP ELEVATION WITH CEPHALIC ALAR TRIM
Presenter: Saeed Chowdhry, MD
Affiliation: University of Louisville
Authors: Chowdhry S, Hazani R, Drury B, Yoder E, Cooperman R, Little JA, Wilhelmi BJ

151 THE USE OF A NOVEL BIOCOMPATIBLE SCAFFOLD TO PRODUCE BONE IN 3-D CELL CULTURE
Presenter: Chad M. Teven, BS
Affiliation: University of Chicago Pritzker School of Medicine
Authors: Teven CM, Collier JH, Natale RB, He TC, Reid RR

179 BMP-2 MAY NOT INFLUENCE THE OSTEOGENIC FATE OF HUMAN ADIPOSE-DERIVED STEM CELLS
Presenter: Patricia Zuk, PhD
Affiliation: University of California Los Angeles
Authors: Zuk P, Chou YF, Mussano F, Benhaim P, Wu B

4:30 - 6:00 pm
Group B: Microsurgery/Flap Physiology & Tumor Immunology/Cancer Biology
Moderator: Justin Sacks, MD
Co-Moderator: Brian Rinker, MD

118 CT ANGIOGRAMS FOR MICROsURGICAL BREAST RECONSTRUCTION: INTERSURGEON INTERPRETATION AND APPLICATION
Presenter: Meghan A. Quigley, BS
Affiliation: University of Pittsburgh
Authors: Quigley MA, Cray JJ, Nguyen VT, Gimbel ML, De La Cruz C

74 GENE MODIFICATION OF MUSCLE FLAPS USING NOVEL RECOMBINANT ADENO-ASSOCIATED VIRAL VECTORS
Presenter: Ergun Kocak, MD, MS
Affiliation: The Ohio State University
Authors: Kocak E, Carruthers KH, Miller MJ, During MJ

128 LASER-ASSISTED INDOCYANINE GREEN IMAGING OPTIMIZES THE DESIGN OF THE ANTEROLATERAL THIGH FLAP
Presenter: Justin M. Sacks, MD
Affiliation: MD Anderson Cancer Center
Authors: Sacks JM, Nguyen AT, Yu P, Baumann DP

133 ROBOTIC LATISSIMUS DORSI MUSCLE HARVEST: A CADAVER STUDY
Presenter: Jesse C. Selber, MD, MPH
Affiliation: MD Anderson Cancer Center
Authors: Selber JC
129
THE FREE DESCENDING BRANCH MUSCLE SPARING LATISSIMUS DORSI FLAP: VASCULAR ANATOMY, CLINICAL RESULTS AND COMPARISON WITH THE TRANSVERSE BRANCH
Original Presenter: Michel Saint-Cyr, MD
New Presenter: Shannon Colohan, MD
Affiliation: UT Southwestern Medical Center
Authors: Saint-Cyr M, Graham D, Wong C, Donfrancesco A, Colohan S, Rohrich R

141
DEMONSTRATION OF THE LYMPHATIC SYSTEM IN ANIMAL MODELS
Presenter: Hiroo Suami, MD, PhD
Affiliation: The University of Texas MD Anderson Cancer Center
Authors: Suami H, Chang DW

126
3D CT ANGIOGRAPHY TO PREDICT WEIGHT OF DIEP FLAP FOR BREAST RECONSTRUCTION
Original Presenter: Gedge D, Rosson, MD
New Presenter: Sachin Shridharani, MD
Affiliation: Johns Hopkins University School of Medicine
Authors: Rosson GD, Shridharani SM, Magarakis M, Marahan MA, Stapleton SM, Gilson MM, Flores JI, Basdag B, Fishman EK

22
SUTURELESS MICROVASCULAR ANASTOMOSIS USING THERMOREVERSIBLE POLYOXAMERS
Presenter: Edward I. Chang, MD
Affiliation: Stanford University
Authors: Chang EI, Galvez MG, Glotzbach JP, El-fiesi S, Hamou CD, Rajadas J, Fuller G, Longaker MT, Gurtner GC

159
A VALIDATED TOOL FOR ASSESSMENT OF MICROSURGICAL SKILLS
Presenter: Kelli N. Webb, MD
Affiliation: Southern Illinois University
Authors: Webb KN, Cooney DS, Cooney CM, Bueno RA, Neumeister MW

42
THERAPEUTIC POTENTIAL OF FGF-2 FOR HYPERTROPHIC SCARS/KELOIDS: UPREGULATIONS OF MMP-1 AND HGF EXPRESSION
Presenter: Hitomi Eto, MD
Affiliation: University of Tokyo
Authors: Eto H, Suga H, Kato H, Doi K, Yoshimura K

150
SCALP MELANOMAS AND IN-TRANSIT METASTASES: A RETROSPECTIVE CASE-CONTROLLED STUDY
Presenter: Edward Teng, MD
Affiliation: Yale University
Authors: Teng E, Nishikawa S, Suh R, Tom L, Colebunders B, Salameh B, Narayan D

7:00 - 9:00 pm
Welcome Reception & Bourbon Tasting
Rathskeller - The Seelbach Hilton
Saturday, April 30, 2011

6:30 am - 2:00 pm
Registration

7:00 - 8:00 am
Continental Breakfast with Exhibitors

7:00 - 8:00 am
**Instruction Course 3**
How to Start and Run a Lab
Moderator: Stephen Warren, MD

7:00 - 8:00 am
**Instruction Course 4**
How to Apply for Funding
Moderator: David Mathes, MD

**Scientific Session 8**
Concurrent Podium Paper Session

**Group A: Clinical Outcomes Research**

**Group B: Tissue Engineering & Wound Healing**

8:30 - 10:30 am
**Group A: Clinical Outcomes Research**
Moderator: Rueben Bueno Jr., MD
Co-Moderator: Jamie Levine, MD

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8:30 am

**76**
POST-MASTECTOMY BREAST RECONSTRUCTION VERSUS MASTECTOMY ALONE: A COMPARATIVE ASSESSMENT OF QUALITY OF LIFE USING PATIENT REPORTED SATISFACTION, BODY IMAGE AND SEXUAL WELL-BEING
Presenter: Dzifa S. Kpodzo, MD
Affiliation: Massachusetts General Hospital
Authors: Kpodzo DS, Antony A, Damjanovic B, Chretien Y, Austen WG, Colwell AS

8:38 am

**66**
THE UTILITY OF LABORATORY AND NUTRITIONAL ASSESSMENT OF MASSIVE WEIGHT LOSS PATIENTS UNDERGOING BODY CONTOURING SURGERY
Presenter: Sumesh Kaswan, MD
Affiliation: University of Rochester
Authors: Kaswan S, Messing S, Gusenoff JA

8:46 am

**13**
THE LATERAL INFRAMAMMARY INCISION FOR NIPPLE-SPARING MASTECTOMY: OUTCOMES FROM OVER 50 IMPLANT-BASED BREAST RECONSTRUCTIONS
Presenter: Keith M. Blechman, MD
Affiliation: New York University School of Medicine
Authors: Blechman KM, Levowitz C, Karp NS, Choi M

8:54 am

**57**
PROTOCOL MANAGEMENT OF LATE STAGE PRESSURE ULCERS: A 5-YEAR RETROSPECTIVE STUDY OF 101 CONSECUTIVE PATIENTS WITH 179 ULCERS
Presenter: Kristen A. Hudak, MD
Affiliation: Medical College of Wisconsin
Authors: Hudak KA, Simonelić K, Larson DL

9:02 am

**125**
IMMEDIATE IMPLANT PLACEMENT VERSUS THE STAGED TISSUE EXPANDER TECHNIQUE IN BREAST RECONSTRUCTION
Presenter: Jason Roostaeian, MD
Affiliation: University of California Los Angeles
A SYSTEMATIC REVIEW AND META-ANALYSIS OF COMPLICATIONS ASSOCIATED WITH ADM-ASSISTED BREAST RECONSTRUCTION
Presenter: Goretti Ho, MD
Affiliation: Keck School of Medicine of the University of Southern California
Authors: Ho G, Shahabi A, Nguyen T, Hwang BI, Chan LS, Wong AK

SEROMA RATES IN COSMETIC ABDOMINOLPLASTIES: DOES TECHNIQUE REALLY MATTER?
Original Presenter: Keith C. Neaman, MD
New Presenter: Marissa E. Baca
Affiliation: Grand Rapids Medical Education & Research Center Michigan State University
Authors: Neaman KC, Armstrong SD, Baca ME, Albert M, Vanderwoude DL, Renucci JD

DOES LIPOASUCTIONING OF THE ABDOMEN AFFECT COSMETIC ABDOMINOPLASTY OUTCOME?
Presenter: Shannon D. Armstrong, MD
Affiliation: GRMEP Michigan State University
Authors: Armstrong SD, Neaman KC, Baca M, Vanderwoude DL, Renucci JD, Albert M

THE USE OF ACELLULAR DERMAL MATRIX IN BREAST AND ABDOMINAL WALL SURGERY: A META-ANALYSIS OF OUTCOMES AND RISK FACTORS PREDICTIVE OF COMPlications
Presenter: Oluwaseun A. Adetayo, MD
Affiliation: Loma Linda University Medical Center
Authors: Adetayo OA, Salcedo SE, Gupta SC

COST COMPARISON OF OPEN FASCIECTOMY VERSUS PERCUTANEOUS NEEDLE APONEUROTOMY FOR TREATMENT OF DUPUYTREN’S CONTRACTURE
Presenter: Fernando A. Herrera, Jr., MD
Affiliation: University of California Los Angeles
Authors: Herrera FA, Suliman A, Benhaim P, Meals R, Mitchell S

RECONSTRUCTION OF PLANTAR HEEL DEFECTS WITH PLANTARIS MEDIALIS NEUROVASCULAR ISLAND FLAPS
Presenter: Sammy Al-Benna
Affiliation: BG University Hospital Bergmannsheil Ruhr University Bochum
Authors: Al-Benna S, Steinau L, Steinau HU, Hauser J, Tillkorn D, Merwart B

NEGATIVE PRESSURE WOUND THERAPY FOR AT RISK SURGICAL CLOSURES: A PROSPECTIVE RANDOMIZED CONTROLLED TRIAL
Presenter: Jesse Goldstein, MD
Affiliation: Georgetown University
Authors: Goldstein J, Masden D, Endara M, Xu K, Steinberg J, Attinger C

INFECTIONOUS COMPLICATIONS WITH ACELLULAR DERMAL MATRICES AND BREAST RECONSTRUCTION
Original Presenter: Lesley Wong, MD
New Presenter: Jason Buseman
Affiliation: University of Kentucky
Authors: Wong L, Buseman J, Kemper P, Oldham J
29
RE-ASSESSMENT OF THE MICHIGAN HAND QUESTIONNAIRE USING CONFIRMATORY FACTOR ANALYSIS
Presenter: Bryan Chung, MD, PhD
Affiliation: Dalhousie University
Authors: Chung B, Morris SF

59
A 3D MORPHOMETRICAL EVALUATION OF THE EXACT EFFECTS OF BOTULINUM TOXIN ON THE PERIORBITAL STRUCTURES
Presenter: Niklas Iblher, MD
Affiliation: University Medical Center Freiburg
Authors: Iblher N, Stark BG

8:30 - 10:30 am
Group B: Tissue Engineering & Wound Healing
Moderator: Howard Levinson, MD
Co-Moderator: Damon Cooney, MD

8:30 am
83
NOVEL REGULATION OF HUMAN ADIPOSE DERIVED STROMAL CELL OSTEOGENESIS THROUGH NOGGIN KNOCKDOWN AND A BMP-2 SLOW RELEASING SCAFFOLD
Presenter: Benjamin Levi, MD
Affiliation: Stanford University

8:38 am
180
EFFECT OF HYALURONAN ON FAT GRAFT SURVIVAL
Presenter: Mohammed Alghoul, MD
Affiliation: Cleveland Clinic

8:46 am
77
OSCILLATING CULTURES ACCELERATE MINERALIZATION OF HMSCS ON 3D TYPE I COLLAGEN SCAFFOLDS: IMPLICATIONS FOR BONE TISSUE ENGINEERING BIOREACTOR DESIGN
Presenter: Erwin A. Kruger, MD
Affiliation: VA Greater Los Angeles Healthcare System
Authors: Kruger EA, Bischoff DS, Huang WR, Rudkin GR, Yamaguchi DT, Miller TA

8:54 am
144
CIAP1 ATTENUATES BLOOD SHEAR STRESS INDUCED APOPTOSIS OF HBMSCS FOR TISSUE ENGINEERED BLOOD VESSELS VIA INHIBITION OF MITOCHONDRIAL APOPTOSIS PATHWAY
Presenter: Yang Sun, MD, PhD
Affiliation: Xijing Hospital 4th Military Medical University
Authors: Sun Y, Yi W, Xia W, Lau W, Wei X, Ma X, Guo S

9:02 am
132
MOLECULAR CHARACTERISTICS AND TRANSFECTION OF HUMAN ADIPOSE TISSUE-DERIVED STEM CELLS FOR PERIPHERAL NERVE REGENERATION IN VITRO
Presenter: Thomas Scholz, MD
Affiliation: University of California Irvine
Authors: Scholz T, Donovan PJ, Evans GR
51 IMMUNOMODULATORY PROPERTIES OF A NOVEL MESENCHYMAL STEM CELL-HYDROGEL SCAFFOLD
Presenter: Summer E. Hanson, MD, MS
Affiliation: University of Wisconsin School of Medicine and Public Health
Authors: Hanson SE, King SN, Kim J, Thibeault SL, Hemati P

68 UMBILICAL CORD MESENCHYMAL STEM CELL-DERIVED CARTILAGE ON NANO FIBER-SUPPORTED SCAFFOLDS FOR MICRO TIA REPAIR
Presenter: Christian Kauffman, MD
Affiliation: University of North Carolina at Chapel Hill
Authors: Kauffman C, Dahl J, Caballero M, Madan G, Pappa A, van Aalst JA

182 CHEMICAL MYOTOMY WITH BOTULINUM TOXIN FOR ABDOMINAL WALL RECONSTRUCTION: A PORCINE PILOT STUDY
Presenter: Karem C. Harth, MD, MHS
Affiliation: University Hospitals Case Medical Center
Authors: Harth KC, Rosen MJ, Blatnik J, Schomisch S, Cash A, Soltanian H

49 THE HOST IMMUNE RESPONSE FAILS TO PREVENT KLEBSIELLA PNEUMONIAE FROM RAPIDLY FORMING BIOFILM IN THE RABBIT DERMAL ULCER WOUND MODEL
Presenter: Anandev N. Gurjala, MD, MS
Affiliation: Northwestern University
Authors: Gurjala AN, Geringer M, Galiano RD, Mustoe TA, Leung KP

35 MESH HERNIORRHAPHY REVERSES INTERNAL OBLIQUE MUSCLE ATROPHY AND PARTIALLY RESTORES ABDOMINAL WALL COMPLIANCE
Presenter: Eric J. Culbertson, MD
Affiliation: University of Michigan
Authors: Culbertson EJ, Xing L, Wen Y, Franz MG

19 TOPICAL SIRNA AND PROGENITOR CELL MOBILIZATION REDUCE AGE-RELATED REACTIVE OXYGEN SPECIES ACCUMULATION AND ACCELERATE HEALING IN THE SENESCENT WOUND
Presenter: Parag Butala, MD
Affiliation: New York University Langone Medical Center

III ANGIOPOIETIN-1 MEDIATED EFFECTS ON RE-EPITHELIALIZATION: IN VITRO AND IN VIVO ANALYSIS
Presenter: Parit A. Patel, MD
Affiliation: University of Cincinnati and Cincinnati Children's Hospital
Authors: Patel PA, Le LD, Crombleholme TM, Keswani SG

60 TRANSIENT RECEPTOR POTENTIALS IN HUMAN HYPERTROPHIC SCAR
Presenter: Hisako Ishise, MD
Affiliation: Hyogo College of Medicine
Authors: Ishise H, Kawai K, Fujiwara T, Nishimoto S, Kakibuchi M
10:14 am
INVESTIGATION OF AN ATHYMIC MOUSE MODEL OF HUMAN HYPERTROPHIC SCAR FORMATION
Presenter: Moein Montazi, MD
Affiliation: University of Alberta
Authors: Montazi M, Kwan P, Ding J, Anderson C, Honardoust D, Goeckjian S, Tredget EE

10:30 - 11:00 am
Coffee with Exhibitors

Scientific Session 9
Concurrent Podium Paper Session
Group A: Craniofacial/Bone
Group B: Composite Tissue Allotransplantation & Craniofacial/Bone

11:00 am
Group A: Craniofacial/Bone
Moderator: James Bradley, MD, FACS
Co-Moderator: Mark Urata, MD, DDS, FACS

11:00 am
105
NORMATIVE REFERENCE PARAMETERS OF BONE MINERAL DENSITY DISTRIBUTION IN THE SPRAGUE DAWLEY RAT MANDIBLE
Presenter: Noah S. Nelson
Affiliation: University of Michigan
Authors: Nelson NS, Donneys A, Tchanque-Fossuo CN, Deshpande SS, Boguslawski MJ, Goldstein SA, Buchman SR

11:08 am
50
FGF TOGETHER WITH COLLAGEN CARRIER FOR CALVARIAL DEFECT REPAIR
Presenter: Bo Han, PhD
Affiliation: University of Southern California
Authors: Han B, Zhi Y, Nimmi M, Urata M

11:16 am
181
PATTERNS OF MANDIBULAR FRACTURES BASED ON AGE AND MECHANISM OF INJURY: ARE VIEW OF 13,148 CASES IN THE US
Presenter: Julio A. Clavijo-Alvarez, MD, PhD
Affiliation: University of Pittsburgh
Authors: Clavijo-Alvarez JA, Zenati MS, Peitzman AB, White MJ

11:24 am
61
EXOGENOUS RHBMP-7 INCREASES EXPRESSION OF ENDOGENOUS INHIBITORS DURING DISTRACTION OSTEOGENESIS: AN ALTERNATIVE PATHWAY TO ACCELERATE BONE FORMATION
Presenter: Ali Izadpanah, MD
Affiliation: McGill University
Authors: Izadpanah A, Alsalmi I, Hamdy RC, Lessard ML

11:32 am
38
BONE REGENERATION IN DISTRACTION OSTEOGENESIS DEMONSTRATES SIGNIFICANTLY INCREASED VASCULARITY IN COMPARISON TO FRACTURE REPAIR IN THE MURINE MANDIBLE
Presenter: Alexis Donneys, MD, MS
Affiliation: University of Michigan Medical School
Authors: Donneys A, Tchanque-Fossuo CF, Farberg AF, Deshpande SD, Buchman SB
SAFETY OF PRE-OPERATIVE ERYTHROPOIETIN IN SURGICAL CALVARIAL REMODELING: AN 8-YEAR RETROSPECTIVE REVIEW AND ANALYSIS
Presenter: Sanjay Naran, MD
Affiliation: University of Pittsburgh

94
DIMENSIONAL CONSIDERATIONS FOR OPERATIVE REPAIR OF THE FRACTURED PEDIATRIC ORBIT
Presenter: Matthew Martin, MD
Affiliation: Grand Rapids Medical Education Partners
Authors: Martin M, Rechner B

Group B: Composite Tissue Allotransplantation & Craniofacial/Bone
Moderator: June Wu, MD
Co-Moderator: Lucie Lessard, MD, FACS

THE IMPACT OF THE AGE OF SURGERY AND TYPE OF SURGICAL INTERVENTION ON LONG-TERM NEUROPSYCHOLOGICAL OUTCOMES IN SAGITTAL CRANIOSYNOSTOSIS
Original Presenter: Anup Patel, MD, MBA
New Presenter: Jordan Terner
Affiliation: Yale University School of Medicine

THE EFFECTS OF NON-VASCULARIZED VERSUS VASCULARIZED BONE GRAFTING ON CALVARIAL DEFECT HEALING
Presenter: Stephanie M. Power, MD
Affiliation: University of Western Ontario
Authors: Power SM, Holdsworth DW, Matic DB

MAXILLOFACIAL HARDWARE COMPLICATIONS AND INDICATIONS FOR SALVAGE
Presenter: Brian A. Pinsky, MD
Affiliation: The Mount Sinai Hospital
Authors: Pinsky BA, Hernandez-Rosa J, Villanueva NL, Factor SH, Taub PJ

BONE MARROW COMPONENT OF HIND-LIMB ALLOGRAFT PROMOTES MARROW-DERIVED HEMATOPOIETIC STEM CELL ENGRAFTMENT, CHIMERISM AND TOLERANCE
Presenter: Wensheng Zhang, MD, PhD
Affiliation: University of Pittsburgh

CD4-CD8- DOUBLE NEGATIVE REGULATORY T CELL BASED THERAPY PERMITS PERMANENT ENGRAFTMENT IN MOUSE CTA MODEL
Presenter: Cheng-Hung Lin, MD
Affiliation: University of Pittsburgh Medical Center
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<th>Time</th>
<th>Session</th>
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<tr>
<td>11:40 am</td>
<td>EFFECTIVENESS OF TOPICAL IMMUNOSUPPRESSANTS IN PREVENTION AND TREATMENT OF REJECTION IN FACE ALLOGRAFTING &lt;br&gt;Presenter: Bahar Bassiri Gharb, MD &lt;br&gt;Affiliation: Cleveland Clinic &lt;br&gt;Authors: Bassiri Gharb B, Rampazzo A, Madajka M, Altuntas SH, Cwykiel J, Siemionow MZ</td>
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<tr>
<td>11:56 am</td>
<td>THERAPEUTIC POTENTIAL OF EX-VIVO FUSED CHIMERIC CELLS IN PROLONGING VASCULARIZED SKIN ALLOGRAFT SURVIVAL &lt;br&gt;Presenter: Joanna Cwykiel, MSc &lt;br&gt;Affiliation: The Cleveland Clinic &lt;br&gt;Authors: Cwykiel J, Klimczak A, Jundzill A, Siemionow M</td>
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<td>12:00 - 1:00 pm</td>
<td>Lunch</td>
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**Scientific Session 10**<br><br><br>**Concurrent Podium Paper Session**<br><br>**Group A: Developmental Biology & Ischemia Reperfusion**<br><br>**Group B: Clinical Outcomes Research**

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<tr>
<td>1:00 - 2:30 pm</td>
<td>Group A: Developmental Biology &amp; Ischemia Reperfusion &lt;br&gt;Moderator: Jason Spector, MD, FACS &lt;br&gt;Co-Moderator: Gregory Borschel, MD</td>
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<tr>
<td>1:00 pm</td>
<td>NOTCH3 KNOCKDOWN AFFECTS FUNCTIONAL BEHAVIOR OF INFANTILE HEMANGIOMA STEM CELLS &lt;br&gt;Presenter: Alvin Wong, AB &lt;br&gt;Affiliation: Columbia University &lt;br&gt;Authors: Wong A, Adepoju O, Kitajewski A, Kitajewski J, Wu J</td>
</tr>
<tr>
<td>1:08 pm</td>
<td>ANALYSIS OF CRANIAL NEURAL CREST CELLS DURING PALATOGENESIS &lt;br&gt;Presenter: Max Dougherty, BA &lt;br&gt;Affiliation: Massachusetts General Hospital &lt;br&gt;Authors: Dougherty M, Kamel G, Hickey G, Grimaldi M, Ethier R, Liao EC</td>
</tr>
<tr>
<td>1:16 pm</td>
<td>TGF-BETA-MEDIATED FGFf-PITX2 SIGNALING REGULATES CELL PROLIFERATION DURING PALATE FORMATION &lt;br&gt;Presenter: Lily Tung, BS &lt;br&gt;Affiliation: Keck School of Medicine University of Southern California &lt;br&gt;Authors: Tung L, Iwata J, Ramenzoni L, Chaudhry O, Chai Y, Urata M</td>
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<tr>
<td>1:24 pm</td>
<td>CD4+ T-CELLS ARE NECESSARY FOR FIBROSIS AND LYMPHATIC DYSFUNCTION IN CHRONIC LYMPHEDEMA &lt;br&gt;Presenter: Alan Yan, MD &lt;br&gt;Affiliation: Memorial Sloan Kettering Cancer Center &lt;br&gt;Authors: Yan A, Zampell JC, Avraham T, Malliaris SD, Aschen SZ, Mehrara BJ</td>
</tr>
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</table>
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HYDROGEN SULFIDE PROTECTS AGAINST IRI THROUGH THE JAK-STAT PATHWAY IN AN IN VIVO MODEL OF IRI
Presenter: Natalia Jimenez, BA
Affiliation: Weill Cornell Medical College
Authors: Jimenez N, Reiffel AJ, Henderson PW, Millet YH, Chu S, Spector JA

72
HYPERGLYCEMIA AND ISCHEMIA IN DIABETES: STRESSORS IMPLICATED IN DYSFUNCTIONAL HEALING
Presenter: Denis Knobel, MD
Affiliation: New York University Langone Medical Center

24
PRETREATMENT OF VITAMIN D3 AMELIORATES LUNG AND MUSCLE INJURY INDUCED BY REPERFUSION OF BILATERAL FEMORAL VESSELS IN A RAT MODEL
Presenter: Jianxun Chen, MD
Affiliation: Kaohsiung Medical University Hospital
Authors: Chen JX, Shih PK, Cheng CM

8
EFFECT OF HYDROGEN SULFIDE THERAPY ON NEUTROPHIL ACTIVATION IN THE CONTEXT OF ISCHEMIA-REPERFUSION INJURY
Presenter: Carissa Ball, BS
Affiliation: Cornell University
Authors: Ball C, Reiffel AJ, Chintalapani S, Spector JA, King MR

136
LOCAL ADMINISTRATION OF CONTROL-RELEASED BASIC FIBROBLAST GROWTH FACTOR IMPROVES FLAP ISCHEMIC REPERFUSION INJURY IN A MURINE MODEL
Presenter: Azusa Shimizu, MD
Affiliation: Juntendo University School of Medicine
Authors: Shimizu A, Wang Y, Orbay H, Hyakusoku H, Miyamoto M, Tabata Y, Mizuno H

101
ASSESSMENT OF MITOCHONDRIAL CALCIUM (MCA\textsuperscript(\textdagger)) OVERLOAD AND FUNCTION IN EX VIVO HUMAN SKELETAL MUSCLE UNDERGOING ISCHEMIA AND REPERFUSION (I/R)
Presenter: Andreas Napur, MBBS, BSc, AICSM
Affiliation: Hospital for Sick Children Toronto

17
ROLE OF RAC PROTEIN IN ISCHEMIA-REPERFUSION TREATED WITH HYPERBARIC OXYGEN
Presenter: John P. Brosious, MD
Affiliation: University of Nevada School of Medicine
Authors: Brosious JP, Stephenson LL, Wang WZ, Zamboni WA
1:00 - 2:30 pm

Group B: Clinical Outcomes Research
Moderator: Anuja Antony, MD, MPH
Co-Moderator: Michel Saint-Cyr, MD

1:00 pm

97
MEDICAL STUDENT PERCEPTIONS OF PLASTIC SURGEONS AS HAND SURGERY SPECIALISTS: THE UNIVERSITY OF UTAH EXPERIENCE
Presenter: Shaun D. Mendenhall, BA
Affiliation: University of Utah
Authors: Mendenhall SD, Hopkins PN, Agarwal JP

1:08 pm

78
COST ANALYSIS OF RIGID STERNAL FIXATION VERSUS MODIFIED WIRE TECHNIQUES FOR PRIMARY STERNAL CLOSURE OF HIGH RISK STERNOTOMY PATIENTS
Presenter: Jennifer H. Kuo, MD
Affiliation: UC Davis
Authors: Kuo JH, Quan E, Young N, Wong MS

1:16 pm

70
POST-MASTECTOMY BREAST RECONSTRUCTION AFTER PREVIOUS LUMPECTOMY AND RADIATION THERAPY: ANALYSIS OF COMPLICATIONS AND SATISFACTION
Presenter: Ibrahim Khansa
Affiliation: Beth Israel Deaconess Medical Center
Authors: Khansa I, Colakoglu S, Curtis MS, Yueh JH, Ogunleye A, Tobias AM, Lee BT

1:24 pm

64
PERI-OPERATIVE CORTICOSTEROID USE IN TRAM FLAP DECREASES LENGTH OF HOSPITAL STAY
Presenter: Xilin Jing, MD
Affiliation: Henry Ford Hospital
Authors: Jing XL, Houin H, Siddiqui A

1:32 pm

99
EXTENDED POSTOPERATIVE ANTIBIOTIC PROPHYLAXIS TO PREVENT LATE BREAST IMPLANT INFECTIONS IN THE IRRADIATED CHEST WALL
Presenter: Michael N. Mirzabeigi, MS
Affiliation: University of Pennsylvania
Authors: Mirzabeigi MN, Lee M, Smartt JM, Jandali S, Sonnad SS, Serletti JM

1:40 pm

95
POST-MASTECTOMY RECONSTRUCTION PREFERENCES IN THE PRE- AND POST-BARIATRIC SURGERY POPULATIONS
Presenter: Marissa R. Matarrese, MD
Affiliation: University of Rochester Medical Center
Authors: Matarrese MR, Hendrickson V, Gusenoff JA

1:48 pm

108
IMPLANT BASED BREAST RECONSTRUCTION: REMOTE VERSUS INTEGRATED PORT TISSUE EXPANDERS
Presenter: Michelle O'Brien, MD
Affiliation: University of Louisville
Authors: O'Brien M, Mattingly J, Hazani R, Augenstein AC, Wilhelmi BJ
1:54 pm
RISK FACTORS FOR INCREASED MORBIDITY POST TISSUE FLAP RECONSTRUCTION OF COMPLICATED STERNAL WOUNDS
Presenter: Hamid R. Zahiri, DO
Affiliation: University of Maryland School of Medicine
Authors: Zahiri HR, Medina D, Khalshadi S, Lumpsins K, Folstein M, Stromberg J, Singh D

2:02 pm
BODY CONTOURING IN THE POST-BARIATRIC SURGERY PATIENT
Presenter: Deana S. Shenag, BA
Affiliation: The University of Chicago Hospitals
Authors: Shenag DS, Agarwal S, Teven C, Roughton M, Prachand V, Zachary I.

2:10 pm
OPTIMAL TIMING OF DELAYED FREE LOWER ABDOMINAL FLAP BREAST RECONSTRUCTION AFTER POST-MASTECTOMY RADIATION THERAPY
Presenter: Donald Baumann, MD
Affiliation: MD Anderson Cancer Center
Authors: Baumann D, Crosby M, Seltzer J, Sacks J, Garvey P, Villa M, Adelman D, Robb G

2:18 pm
THREE HUNDRED THIRTY-ONE CONSECUTIVE IMMEDIATE SINGLE STAGE IMPLANT RECONSTRUCTIONS WITH ACELLULAR DERMAL MATRIX IN 211 PATIENTS: INDICATIONS, COMPLICATIONS, TRENDS, AND PATIENT SATISFACTION
Presenter: Amy S. Colwell, MD
Affiliation: Massachusetts General Hospital
Authors: Colwell AS, Damjanovic B, Zahedi B, Medford-Davis L, Austen WG

2:30 - 3:00 pm
Panel 3: How Cost Effectiveness and Decision Making Relate to Plastic Surgery
Speaker: Julie Ann Sosa, MD, FACS
Moderator: Peter Taub, MD, FACS, FAAP

3:00 - 3:30 pm
Coffee with Exhibitors

Scientific Session 11
Concurrent Podium Paper Session
Group A: Tissue Engineering & Wound Healing
Group B: Clinical Outcomes Research

3:30 - 5:00 pm
Group A: Tissue Engineering & Wound Healing
Moderator: Timothy S. Johnson, MD
Co-Moderator: Paul Liu, MD, FACS

3:30 pm
COMPARISON OF AAV-DS-VEGF AND AAV-SS-VEGF: EFFICACY OF IN VITRO TRANSGENE EXPRESSION AND IN VIVO ISCHEMIC FLAP SURVIVAL
Presenter: Paul Y. Liu, MD
Affiliation: Roger Williams Medical Center
Authors: Liu PY, Avanesian B, Ma QZ, Durfee H, Tang YQ, Wang XT

3:38 pm
GENETIC AND EPIGENETIC MECHANISMS OF ADIPOSE TISSUE AGING
Presenter: Ivona Perce, MD, PhD
Affiliation: University of Pennsylvania
Authors: Perce I, Dierov R
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ELONGATED CELL MORPHOLOGY AND UNIAXIAL MECHANICAL LOADING CONTRIBUTE TO TENOCYTE MICROENVIRONMENTAL NICHE
Presenter: Jie Li, MD, PhD
Affiliation: Shanghai 9th Peoples Hospital Shanghai Jiao Tong University School of Medicine
Authors: Li JL, Zhu J, Zhang WJ, Zhou GD, Cao YL, Liu W

3:54 pm
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MICRORNA-1 AND MICRORNA-206 IMPROVE HUMAN SATELLITE CELL DIFFERENTIATION IN VITRO: A NOVEL APPROACH FOR TISSUE ENGINEERING OF SKELETAL MUSCLE
Presenter: Merel Koning, MD
Affiliation: University Medical Center Groningen
Authors: Koning M, Harmsen MC, Bank RA, Werker PM

4:02 pm
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BIOREACTOR CONDITIONING IN HUMAN FLEXOR TENDON TISSUE ENGINEERING: THE ROLE OF 3D-CONSTRUCT BIOREACTORS
Presenter: Colin Y. Woon, MD
Affiliation: Stanford University Medical Center
Authors: Woon CY, Kraus A, Raghavan S, Pridgen B, Pham H, Chang J

4:10 pm
58
ACCELERATED PORCINE WOUND HEALING AFTER TREATMENT WITH ALPHA-GAL NANOPARTICLES
Presenter: Zachary M. Hurwitz, MD
Affiliation: University of Massachusetts Medical School
Authors: Hurwitz ZM, Ignatz R, Lalikos JF, Galili U

4:18 pm
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AUTOMATED DETECTION OF WOUND AREA IN A STENTED EXCISIONAL MODEL OF MURINE WOUND HEALING
Presenter: Michael Januszky, MD
Affiliation: Stanford University
Authors: Januszky M, Rustad KC, Major MR, Wong VW, Glotzbach JP, Gurtner GC

4:26 pm
15
BLOCKADE OF OSTEOPONTIN WITH A SPECIFIC RNA APTAMER INHIBITS PRO-FIBROTIC FIBROBLAST FUNCTIONS
Original Presenter: Jennifer Bond, PhD
New Presenter: Howard Levinson, MD
Affiliation: Duke University Medical Center
Authors: Bond J, Hunter CL, Kuo PC, Levinson H

4:34 pm
69
SERUM- DERIVED NANOPARTICLES CAN CAUSE CALCIUM-MEDIATED CUTANEOUS WOUND CONTRACTION
Presenter: Kenichiro Kawai, MD, PhD
Affiliation: Hyogo College of Medicine
Authors: Kawai K, Larson BL, Carre AL, Longaker MT, Lorenz HP

4:42 pm
175
ENHANCEMENT OF VASCULARIZATION WITH VASCULAR RESIDENT ENDOTHELIAL PROGENITOR CELLS IN ISCHEMIA DERMAL SCAFFOLDS IN VIVO
Presenter: Ziyang Zhang, MD
Affiliation: Technical University of Munich
3 CHARACTERIZATION OF BIOMECHANICAL FORCES DRIVING REGIONAL AND DIMENSION-SPECIFIC SCAR FORMATION IN THE RED DUROC PIG USING FINITE ELEMENT METHODS
Presenter: Satoshi Akaiishi, MD
Affiliation: Nippon Medical School
Authors: Akaiishi S, Wong VW, Bhatt KA, Vial IN, Dauskardt RH, Longaker MT, Gurtner GC

3:30 - 5:00 pm
Group B: Clinical Outcomes Research
Moderator: Loree Kallianen, MD, FACS
Co-Moderator: Keith Puige, MD, FACS

3:30 pm
122 BREAST CANCER RECURRENCE FOLLOWING POSTMASTECTOMY RECONSTRUCTION COMPARED TO MASTECTOMY WITH NO RECONSTRUCTION
Presenter: Sashank K. Reddy, MD, PhD
Affiliation: Harvard Medical School
Authors: Reddy SK, Colakoglu S, Curtis MS, Momoh AO, Yueh JH, Oguneye A, Tobias AM, Lee BT

3:38 pm
12 A COST ANALYSIS OF THE USE OF ACELLULAR DERMAL MATRIX IN IMPLANT-BASED BREAST RECONSTRUCTION
Presenter: Catherine de Blacam, MB BCH
Affiliation: Beth Israel Deaconess Medical Center
Authors: de Blacam C, Momoh AO, Colakoglu S, Slavin SA, Tobias AM, Lee BT

3:46 pm
148 EFFICACY OF G-CSF MOBILIZED AUTOLOGOUS PERIPHERAL BLOOD EPC TRANSPLANT FOR NON HEALING DIABETIC FOOT PATIENTS
Presenter: Rica Tanaka, MD, PhD
Affiliation: Tokai University School of Medicine
Authors: Tanaka R, Imagawa K, Fukui T, Miyasaka M, Asahara T

3:54 pm
106 RISK FACTORS ASSOCIATED WITH MICROVASCULAR FREE FLAP FAILURE: DATA FROM THE ACS-NATIONAL SURGICAL QUALITY IMPROVEMENT PROJECT (ACS-NSQIP)
Presenter: Thientrang J. Nguyen, MD
Affiliation: University of Southern California Keck School of Medicine
Authors: Nguyen TJ, Shahabi A, Vidar EN, Chan LS, Baker RY, Schooler WG, Urata MM, Wong AK

4:02 pm
88 PATTERNS OF ANTIBIOTIC USE AND SURGICAL SITE INFECTION IN AUTOLOGOUS BREAST RECONSTRUCTION
Original Presenter: Daniel Z. Liu, MD
New Presenter: Janelle A. Dubbins, MD
Affiliation: University of Washington
Authors: Liu DZ, Dubbins JA, Muthes DW

4:10 pm
184 DOUBLE-OPPOSING BUCCAL FLAP PROCEDURE FOR PALATAL LENGTHENING
Presenter: Keith C. Neaman, MD
Affiliation: Grand Rapids Medical Education Research Center/Michigan State University
Authors: Neaman KC, Armstrong SD, Ebner B, Bajnrauk R, Mann RJ
4:18 pm
SAFETY OF RHYTIDECTOMY IN THE ELDERLY
Presenter: Esteban Marten, MD, MPH
Affiliation: Cleveland Clinic
Authors: Marten E, Langevin CJ, Kaswan S, Zins JE

4:26 pm
ROLE OF THROMBOLYTIC AGENTS FOR MICROVASCULAR FREE FLAP SALVAGE
Presenter: Eric I. Chang, MD
Affiliation: UCLA Medical Center
Authors: Chang EI, Mehrara BJ, Festekjian JH, DaLio AL, Crisera CA

4:34 pm
COMPARISON OF VREAM AND ORAM FLAPS FOR PELVIC AND PERINEAL RECONSTRUCTION
Presenter: Patrick D. Combs, MD
Affiliation: University of Washington
Authors: Combs PD, Mathes DW

4:44 pm
CANCELLLED

4:50 pm
BREAST IMPLANT PROCEDURES PERFORMED UNDER CONSCIOUS SEDATION: A SIX-YEAR EXPERIENCE IN 461 PATIENTS
Presenter: Jason H. Ko, MD
Affiliation: Northwestern University
Authors: Ko JH, Heyer KS, Mustoe TA

5:00 - 5:30 pm
Announcement of Awards

5:30 pm
Meeting Adjourns
Author index numbers refer to papers as they are published in numerical order in the May 2011 PRS Supplement.

Papers in the supplement are also in alphabetical order by original presenter’s last name.