The 2010 PSRC Local Program is the final session of the TIPS Meeting and is not approved for ANY CME credit.

Annual Local Program

3:00 - 3:15 pm
Stanford Welcome
James Chang, MD & Tom Krummel, MD
Stanford University

3:15 - 3:55 pm
Invention: Protecting your Ideas and Intellectual Property
Mika Myers - Morrison Foerster, LLP

3:55 - 4:20 pm
How to Develop a Product
Paul Yock, MD - Stanford University

4:20 - 4:35 pm
Attracting and Working with Investors
Doug Kelley, MD - Alloy Ventures

4:35 - 5:10 pm
The Business of Startups: Making it Work
Barbara Kosacz - Cooley, Godward, Kronish, LLP

5:10 - 5:40 pm
Evaluation and Acquisition of New Technologies in Plastic Surgery
Robert Grant - President, Allergan Medical

5:40 - 6:25 pm
The FDA and Impact of Regulation on Technology Innovation
David Kessler, MD - Former FDA Commissioner

6:25 - 7:15 pm
A Personal History of Innovation in Silicon Valley
William Campbell - Chairman, Intuit; Director, Apple

Reception
8:00 am  

1  
A LACUNOCANALICULAR FLOW AND DISTRACTION OSTEOGENESIS:  
THEORY AND THERAPEUTICS  
Presenter: Edward H. Davidson, MA, MBBS  
Affiliation: New York University Institute of Reconstructive Plastic Surgery  

8:10 am  

2  
INTERVAL CRANIOPLASTY: EVALUATING CURRENT STANDARDS,  
EXPLORING FUTURE DIRECTIONS  
Presenter: Steven M. Sultan, BA  
Affiliation: New York University  
Authors: Sultan SM, Davidson EH, Schachar JS, Butala P, Knobel D, Witek L, Kuperman A, Saadeh PB, Warren SM

8:20 am  

3  
COORDINATE OSTEOGENIC DIFFERENTIATION VIA RETINOIC ACID,  
SONIC HEDGEHOG AND BONE MORPHOGENETIC PROTEIN  
SIGNALING PATHWAYS IN SUTURE-DERIVED MESENCHYMAL CELLS:  
INSIGHTS INTO SPORADIC CRANIOSYNOSTOSIS  
Presenter: Aaron W. James, MD  
Affiliation: Hagey Laboratory of Pediatric Regenerative Medicine  
Authors: James AW, Levi B, Xu Y, Carre AL, Nelson ER, Longaker MT

8:30 am  

4  
DEVELOPING A DOSE-RESPONSE CURVE OF EXOGENOUS OP-1 TO  
ACCELERATE BONE FORMATION DURING DISTRACTION  
OSTEOGENESIS  
Presenter: Ali Izadpanah, MD, CM  
Affiliation: McGill University  
Authors: Izadpanah A, Al-Salmi L, Haidar Z, Hamdy R, Lessard L

8:40 am  

5  
COMPARATIVE HEALING OF SURGICAL INCISIONS IN RAT FASCIA  
CREATED BY THE PEAK PLASMA BLADE, TRADITIONAL  
ELECTROSURGERY AND A STANDARD SCALPEL  
Presenter: Edward I. Chang, MD  
Affiliation: Stanford University Medical Center  
Authors: Chang EI, Carlson GA, Vose JG, Huang EF, Yang GP
6  Award Eligibility: Gingrass/Snyder
AUGMENTATION OF FAT GRAFT SURVIVAL WITH PROGENITOR CELL MOBILIZATION
Presenter: Parag Butala, MD
Affiliation: New York University Langone Medical Center
Authors: Butala P, Sultan SM, Davidson EH, Crawford JL, Szpalski C,
Knobel D, Allen RJ, Saadeh PB, Warren SM, Coleman S, Hazen A

7  Award Eligibility: Gingrass
SOLVING THE QUESTION OF PROTECTION: HYDROGEN SULFIDE CONFRS PROTECTION FROM IRI VIA ACTIVATION OF THE JAK-STAT PATHWAY
Presenter: Natalia Jimenez, BA
Affiliation: Weill Cornell Medical College
Authors: Jimenez N, Henderson PW, Sohn AM, Krijgh DD, Millet Y, Spector JA

8  Award Eligibility: Shenaq/Snyder
SERUM FREE EX VIVO Expansion RESTORES HUMAN DIABETIC PERIPHERAL BLOOD ENDOTHELIAL PROGENITOR CELL FUNCTION
Presenter: Rica Tanaka, MD, PhD
Affiliation: Tokai University School of Medicine
Authors: Tanaka R, Masuda H, Kurihara Y, Ito R, Kobori M, Asahara T

9  Award Eligibility: Gingrass
LYMPHEDEMA IS A FIBROPROLIFERATIVE CONDITION ASSOCIATED WITH A PRO-FIBROTIC CHRONIC INFLAMMATORY RESPONSE
Presenter: Tomer Avraham, MD
Affiliation: Memorial Sloan Kettering Cancer Center
Authors: Avraham T, Daluvoy SV, Zampell JC, Yan A, Kueberuwa E

10 Award Eligibility: Gingrass
HIF-1A REGULATES VEGF-C EXPRESSION AND IS REQUIRED FOR LYMPHANGIOGENESIS DURING WOUND HEALING
Presenter: Jamie C. Zampell, MD
Affiliation: Memorial Sloan Kettering Cancer Center
Authors: Zampell JC, Davuloy SD, Avraham TA, Kueberuwa EK, Yan AY, Mehrara BM

9:40 am  Award Eligibility: Gingrass
HEMANGIOMA STEM CELLS CAN DIFFERENTIATE INTO PERICYTES IN VITRO AND IN VIVO
Presenter: Camille L. Stewart, MS
Affiliation: Tulane School of Medicine
Authors: Stewart CL, Boscolo E, Mulliken JB, Bischoff J

12 Award Eligibility: Snyder
THE ROLE OF BONE-MARROW DERIVED FIBROBLAST PRECURSORS IN DISORDERS OF REGIONAL FIBROSIS
Presenter: Chris A. Campbell, MD
Affiliation: University of Virginia
Authors: Campbell CA, Capito A, Burdick MD, Morgan RF, Strieter RM

10:00 - 10:30 am  
Coffee with Exhibitors
13:00 am

**A NOVEL IMMUNOMODULATORY MODEL TO PREDICT REJECTION OUTCOMES AND INDUCE TOLERANCE IN CTA**
Presenter: Xin Xiao Zheng, MD
Affiliation: University of Pittsburgh

10:40 am

**TOLERANCE TO COMPOSITE TISSUE ALLOGRAFTS IN A CLINICALLY RELEVANT LARGE ANIMAL MODEL**
Presenter: David W. Mathes, MD
Affiliation: University of Washington Medical Center
Authors: Mathes DW, Edwards J, Miwongtum T, Hwang B, Graves S

10:50 am

**ALLOGRAFT TOLERANCE IS DEPENDENT ON THE SEQUENCE OF IMMUNOSUPPRESSIVE DRUG ADMINISTRATION**
Presenter: Mario G. Solari, MD
Affiliation: University of Pittsburgh Medical Center

11:00 am

**REQUIREMENT FOR VASCULARIZED BONE MARROW IN REJECTION FREE SURVIVAL OF FACIAL COMPOSITE TISSUE ALLOGRAFTS IN NON-HUMAN PRIMATES**
Presenter: Helen G. Hui-Chou, MD
Affiliation: Johns Hopkins/University of Maryland Plastic Surgery
Authors: Hui-Chou HG, Mundinger GS, Num AJ, Sulek JE, Dorafshar AH, Jones LS, Drachenberg CB, Kukuruga D, Shipley ST, Bartlett ST, Barth RN, Rodriguez ED

11:20 am

**SCHWANN CELL MIGRATION IN THE PRESENCE OF GLIAL CELL LINE DERIVED NEUROTROPHIC FACTOR**
Presenter: Michael C. Nicoson, MD
Affiliation: Washington University School of Medicine
Authors: Nicoson MC, Kale SS, Johnson PJ, Mackinnon SE
11:30 am
LONG TERM NEUROTROPHIC GROWTH FACTORY DELIVERY IMPROVES LONG GAP PERIPHERAL NERVE REPAIR
Presenter: Kacey G. Marra, PhD
Affiliation: University of Pittsburgh
Authors: Marra KG, Kokai LE, Ghaznavi AM

11:40 am
AFFERENT NEURONAL HYPEREXCITABILITY AND PAIN OF INJURED AXONS IN CONTACT WITH KERATINOCYTES IS ASSOCIATED WITH UPREGULATION OF SODIUM CHANNEL NAV1.7
Presenter: Christine Radtke, MD, PhD
Affiliation: Hannover Medical School
Authors: Radtke C, Arroyo EA, Vogt PM

11:50 am
NOVEL USE OF MATRIX FOR HAIR GROWTH
Presenter: Lily F. Lee, MD
Affiliation: University of Southern California
Authors: Lee LF, Jiang TX, Garner WL

12:00 - 12:15 pm
Lunch - Non-Members with Exhibitors

12:00 - 2:00 pm
Lunch & Business Meeting (Members only) - Grand Ballroom

12:30 - 2:00 pm
4th Annual Interdisciplinary Panel:
Proceedings from the Triological Society
Moderator: Peter Taub, MD
Speaker: Andrew H. Murr, MD - Triological Society
Panelists: Melanie Urbanchek, PhD
Gordon Lee, MD

3:00 - 3:30 pm
Coffee with Exhibitors

3:30 - 4:30 pm
22 - 27
Moderator: Robert Galiano, MD
Co-Moderator: Lars Steinstraesser, MD

3:30 pm
VISUALISATION OF SKIN GRAFT REVASCULARISATION IN A NEW IN VIVO MODEL -NOVEL INSIGHTS INTO THE PROCESSES AT THE VASCULAR INTERFACE
Presenter: Nicole Lindenblatt, MD
Affiliation: University Hospital Zurich

Award Eligibility: Snyder
23
HOST DEFENSE-LIKE LYTIC PEPTIDE SUPPRESSES GROWTH OF HUMAN LIPOSARCOMA
Presenter: Cornelius Schubert, MD
Affiliation: BG University Hospital Bergmannsheil
Authors: Schubert C, Hauk J, Jacobsen F, Rittig A, Shai Y, Steinau HU, Steinstraesser L

24
A COMPUTATIONAL MODEL TO PROFILE CYTOKINE NETWORKS MEDIATING ACUTE REJECTION AFTER COMPOSITE TISSUE ALLOGRAFTS
Presenter: Dolores Wolfram-Raunicher, MD
Affiliation: Innsbruck Medical University

25
RARE DE NOVO COPY NUMBER VARIANT IDENTIFIES NEW LOCUS IN NONSYNDROMIC MICROGOMMA/ANOTIA
Presenter: Maria Alexandra Artunduaga, MD
Affiliation: Harvard Medical School

26
WNT9A IS REQUIRED FOR NEURAL CREST CONDENSATION DURING PALATOGENESIS AND LOWER JAW DEVELOPMENT IN ZEBRAFISH
Presenter: Eugene A. Curtin, MD
Affiliation: Massachusetts General Hospital
Authors: Curtin EA, Hickey G, Davidson AJ, Liao EC

27
INSIGHTS INTO SCAR FORMATION VIA CULTURE OF EMBRYONIC AND POSTNATAL FIBROBLASTS
Presenter: Barrett J. Larson, BS
Affiliation: Stanford University
Authors: Larson BJ, Carre AL, Levi B, James AW, Longaker MT
28
CLINICAL OUTCOME COMPARISON BETWEEN FREE MYOCUTANEOUS LATISSIMUS DORSI AND FREE FASCIOCUTANEOUS ANTEROLATERAL THIGH FLAPS FOR SOFT TISSUE RECONSTRUCTION OF LOWER EXTREMITY TRAUMATIC OPEN TIBIAL FRACTURES
Presenter: Sammy Al-Benna, MD
Affiliation: Ruhr University Bochum
Authors: Al-Benna S, Langer S, Steinau HU, Steinstraesser I

29
RISKS AND REWARDS OF ACELLULAR DERMAL MATRIX IN TISSUE EXPANDER/IMPLANT BREAST RECONSTRUCTION
Presenter: Eric D. Wang, BS
Affiliation: Stony Brook University Medical Center
Authors: Wang ED, Lanier ST, Phillips BT, Arora BP, Katz SM, Khan SU, Dagum AB, Bui DT

30
COMPARISON OF MORBIDITY, FUNCTIONAL OUTCOME, AND SATISFACTION FOLLOWING BILATERAL TRAM OR BILATERAL DIEP FLAP BREAST RECONSTRUCTION
Presenter: Yoon Chun, MD
Affiliation: Harvard Medical School
Authors: Chun Y, Sinha I, Turko A, Yueh J, Lipitz S, Pribaz JJ, Lee BT

31
THE EFFICACY OF BOTULINUM TOXIN IN POST-MASTECTOMY EXPANSION
Presenter: Wendy W. Wong, MD
Affiliation: Loma Linda University
Authors: Wong WW, Gabriel A, Maxwell GP, Gupta SC

32
BURNOUT AMONG PLASTIC SURGEONS: RESULTS FROM A NATIONAL SURVEY
Presenter: Rachel E. Streu, MD
Affiliation: University of Michigan Health System
Authors: Streu RE, Hawley S, Gay A, Salem B, Abrahamse P

33
CLINICAL UTILITY OF CTA IN DIEP FREE FLAP RECONSTRUCTION
Presenter: Kari A. Keys, MD
Affiliation: University of Washington
Authors: Keys KA, Said HK, Louie O, Neligan PC, Mathes DW
5:30 pm
ATX 101 (SODIUM DEOXYCHOLATE FOR INJECTION) AND ITS EFFECT ON SUBCUTANEOUS FAT
Presenter: Ina Nevdakh, MD
Authors: Nevdakh I, Toth BA, Walker P, Teitelbaum S, Richardson J, Lee D

7:00 - 10:00 pm
Gala Reception
Legion of Honor  (Buses depart Hilton Hotel at 6:30 pm)

Tuesday, May 25, 2010

6:30 am - 5:00 pm
Registration

7:30 - 8:00 am
Continental Breakfast with Exhibitors

Scientific Session 5
Concurrent Podium Paper Session
Group A: Composite Tissue Allograft (CTA)
Group B: Craniofacial/Bone
Group C: Clinical Outcomes Research

8:00 - 10:00 am
34A - 45A
Group A: Composite Tissue Allograft (CTA)
Moderator: David Mathes, MD
Co-Moderator: Justin Sacks, MD

8:00 am
34A  Award Eligibility: Gingrass
TITRATION OF BONE MARROW CELL INFUSION IN A PRECLINICAL MODEL OF COMPOSITE TISSUE ALLOTRANSPLANTATION
Presenter: Galen S. Wachtman, MD
Affiliation: University of Pittsburgh
Authors: Wachtman GS, Jindal R, Unadkat JV, Gorantla VS, Schneeberger S, Brandacher G, Lee WP

8:10 am
35A  Award Eligibility: Snyder
THE EFFECT OF DIFFERENT CELLULAR THERAPIES ON DONOR SPECIFIC CHIMERISM AND COMPOSITE TISSUE ALLOGRAFT SURVIVAL IN FACE TRANSPLANTATION MODEL
Presenter: Fatih Zor, MD
Affiliation: Cleveland Clinic Foundation
Authors: Zor F, Klimczak A, Cwykiel J, Siemionow M

8:20 am
36A
THE IMMUNOREGULATORY ROLE OF CD200 IN COMPOSITE TISSUE ALLOTRANSPLANTATION
Presenter: Robert Sucher, MD
Affiliation: University of Pittsburgh
37A
IMPROVING NERVE REGENERATION IN COMPOSITE TISSUE TRANSPLANTATION (CTA) WITH CHONDOITINASE TREATMENT
Presenter: Meghan Quigley
Affiliation: University of Pittsburgh School of Medicine
Authors: Tuffaha S, Quigley M, Pullikottil B, Ng T, Shestak C, Brandacher B

8:40 am

38A
THE NEW EXPERIMENTAL VASCULARIZED BONE MARROW TRANSPLANT MODEL TO PROVIDE LARGE SKIN COMPONENT AND AN ABUNDANT BONE MARROW CELL POPULATION FOR COMPOSITE TISSUE ALLOTRANSPLANTATIONS STUDIES
Presenter: Serdar Nasir, MD
Affiliation: Hacettepe University
Authors: Nasir S, Klimczak A, Sonmez E, Bozkurt M, Gibson S
Award Eligibility: Snyder

8:50 am

39A
COMPARABLE GRAFT SURVIVAL OF GALT-KO PIG SKIN AND ALLOGENEIC SKIN ON BABOONS
Presenter: Angelo A. Leto Barone, MD
Affiliation: Transplant Biology Research Center
Authors: Leto Barone AA, Weiner J, Hanekamp JS, Yamada K, Cetrulo CL, Sachs DH
Award Eligibility: Snyder/Shenaq

9:00 am

40A
CHOOSING THE OPTIMAL TISSUE REGENERATION TEMPLATE: A QUANTITATIVE ANALYSIS OF CELLULAR INVASION AND MIGRATION IN INTEGRA AND STRATTICE
Presenter: David D. Krijgh
Affiliation: Weill Cornell Medical College
Authors: Krijgh DD, Belkin DA, Henderson PW; Zheng Y, Bonasser LJ, Stroock AD, Spector JA
Award Eligibility: Gingrass

9:10 am

41A
INSULIN LIKE GROWTH FACTOR 1 (IGF-1) ENHANCES AXON REGENERATION IN COMPOSITE-TISSUE ALLOTRANSPLANTATION
Presenter: Timothy W. Ng, BS
Affiliation: University of Pittsburgh
Authors: Ng TW, Tuffaha S, Atsina KK, Quigley M, Wang Y, Jindal R, Brandacher G, Lee WP
Award Eligibility: Gingrass

9:20 am

42A
EFFECT OF DONOR-RECIPIENT CHIMERIC CELLS THERAPY ON T REGULATORY CELL POPULATION AND TOLERGENIC FACTORS GENE EXPRESSION IN FACE ALLOGRAFT MODEL
Presenter: Joanna Cwyykiel, MSc
Affiliation: The Cleveland Clinic
Authors: Cwyykiel J, Zor F, Klimczak A, Siemionow M
Award Eligibility: Snyder
9:30 am 43A

ALLODERM-BASED GENE THERAPY: IMPROVING GRAFT VASCULARITY
Presenter: Meredith T. Wetterau, MD
Affiliation: NYU Langone Medical Center

9:40 am 44A

THE IMMUNOMODULATORY EFFECT OF CRYOPRESERVATION IN RAT TRACHEAL ALLOTRANSPLANTATION
Presenter: Qixu Zhang, MD, PhD
Affiliation: University of Texas MD Anderson Cancer Center

9:50 am 45A

TARGETED SITE SPECIFIC IMMUNOSUPPRESSION WITH TOPICAL RAPAMYCIN AND MYCOPHENOLIC ACID IN COMPOSITE TISSUE ALLOTRANSPLANTATION
Presenter: Matthias Weinstock, MD
Affiliation: University of Pittsburgh & Federal University of Sao Paulo Brazil

8:00 - 10:00 am 46B - 57B

Group B: Craniofacial/Bone
Moderator: Peter J. Taub, MD, FACS, FAAP
Co-Moderator: Eric Liao, MD, PhD

8:00 am 46B

COMPLEX MID-FACIAL RECONSTRUCTION USING VIRTUAL PLANNING, RAPID PROTOTYPE MODELING, AND STEREOTACTIC NAVIGATION
Presenter: Roman Skoracki, MD
Affiliation: University of Texas MD Anderson Cancer Center
Authors: Hanasono MM, Jacob R, Bidaud L, Skoracki RJ

8:10 am 47B

FLUTAMIDE DECREASES TESTOSTERONE EFFECT ON BMP4 RESPONSE IN CRANIOSYNOSTOTIC RABBIT BONE CELLS
Presenter: James Cray Jr., PhD
Affiliation: University of Pittsburgh
Authors: Cray J, Lensie EL, Smalley MA, Finegold DN, Siegel MI, Losee JE, Mooney MP

8:20 am 48B

REGULATION OF OSTEOGENIC EXPRESSION OF PGE2 BY TGF-B1 IN MOUSE CALVARIAL CELLS
Presenter: Walter Sweeney, MD
Affiliation: Case Western Reserve University
Authors: Gliniak CM, Sweeney WM, Gupta AK, Gosain AK
49B
DEFOEXAMINE TREATMENT RESTORES VASCULARITY IN IRRADIATED MANDIBULAR DISTRACTION OSTEONEGESIS
Presenter: Aaron S. Farberg, BS
Affiliation: University of Michigan Medical School
Authors: Farberg AS, Jing XL, Monson LA, Tchanque-Fossuo CN, Donneys A, Deshpande SS, Buchman SR

50B
DOSE RESPONSE DEGRADATION OF BIOMECHANICAL PROPERTIES OF THE MURINE MANDIBLE FOLLOWING HUMAN EQUIVALENT RADIATION
Presenter: Elizabeth R. Razdolsky
Affiliation: University of Michigan Medical School
Authors: Razdolsky ER, Farberg AS, Tchanque-Fossuo CN, Monson LA, Donneys A, Buchman SR

51B
QUANTIFICATION AND CHARACTERIZATION OF RADIATION-INDUCED CHANGES TO MANDIBULAR VASCULARITY USING MICRO-COMPUTED TOMOGRAPHY
Presenter: Sagar S. Deshpande
Affiliation: University of Michigan Medical School
Authors: Deshpande SS, Donneys A, Farberg AS, Tchanque-Fossuo CN, Zehitabzadeh AF

52B
THE ROLE OF ANTIOSTEOGENIC SIGNALING IN THE PATHOPHYSIOLOGY OF CRANIOSYNOSTOSIS IN INFANTS
Presenter: Tatiana K. Simon Cypel, MD
Affiliation: The Hospital for Sick Children
Authors: Simon Cypel TK, Leong I, Pang C, Dirks P, Forrest C

53B
DISTRACTION OSTEONEGESIS IN THE RAT MANDIBLE FOLLOWING RADIATION AND TREATMENT WITH AMIFOSTINE
Presenter: Laura A. Monson, MD
Affiliation: University of Michigan
Authors: Monson LA, Farberg AS, Jing XL, Tchanque-Fossuo CN, Donneys A, Buchman SR

54B
MANAGEMENT OF PEDIATRIC MICRO AND ANOPHTHALMOS WITH ORBITAL TISSUE EXPANDERS: FROM BENCH RESEARCH TO CLINICAL TRIAL
Presenter: John M. Mesa, MD
Affiliation: Penn State University
Authors: Mesa JM, Sagers G, Landecker A, Gemperli R, Manders EK, Mackay DR
55B
REPAIR OF ALVEOLAR CLEFT DEFECT WITH INDUCED HUMAN ADIPOSEDERIVED STEM CELLS
Presenter: Arezou Yaghoubian, MD
Affiliation: University of California Los Angeles
Authors: Bradley JP, Yaghoubian A, Katchikian H, Dipple K, Yang C

56B
THE ROLE OF FGFR2 MUTATIONS ON PHENOTYPES AND SURGICAL OUTCOMES IN PATIENTS WITH APERT, CROUZON AND PFEIFFER SYNDROMES
Presenter: Ivona Percec, MD, PhD
Affiliation: University of Pennsylvania
Authors: Percec I, Foo R, Wilson A, McDonald-McGinn D, Zackai E

57B
QUANTITATIVE HISTOMORPHOMETRIC ASSESSMENT OF REGENERATE CELLULARITY AND BONE QUALITY FOLLOWING HUMAN EQUIVALENT RADIATION DOSE RESPONSE IN THE RAT MANDIBLE
Presenter: Aria J. Zehtabzadeh
Affiliation: University of Michigan Medical School
Authors: Zehtabzadeh AJ, Razdolsky ER, Monson LA, Farber AS, Donneys A, Tchaneque-Fossuo CN, Buchman SR

58C - 69C
Group C: Clinical Outcomes Research
Moderator: James J. Chao, MD, FACS
Co-Moderator: Steven J. Kronowitz, MD

58C
PREDICTORS OF JOB SATISFACTION IN THE INSTRUCTIONAL AND CLINICAL TRACK FACULTY AT AN ACADEMIC MEDICAL CENTER
Presenter: Jae W. Song, MD
Affiliation: University of Michigan Medical School
Authors: Song JW, Kim HM, Woolliscroft JO, Quint EH, Lukacs NW, Gyetko MR, Chung KC

59C
ANTICOAGULATION IN DIGITAL REPLANTATION AND REvascularization: A REVIEW OF THE QUEBEC PROVINCIAL REPLANTATION PROGRAM EXPERIENCE AND REVIEW OF THE LITERATURE
Presenter: Youssef Tahiri, MD
Affiliation: McGill University Health Center
Authors: Tahiri Y, St-Supery V, Sampalis J, Harris PG, Lessard L, Landes G, Nikolis A
60C
VALIDITY AND RESPONSIVENESS OF THE JEBSEN-TAYLOR HAND FUNCTION TEST
Presenter: Erika D. Sears, MD
Affiliation: University of Michigan
Authors: Sears ED, Chung KC

61C
VALIDITY OF THE MICHIGAN HAND OUTCOMES QUESTIONNAIRE FOR RHEUMATOID ARTHRITIS: A MULTICENTER STUDY
Presenter: Jennifer F. Waljee, MD, MS
Affiliation: University of Michigan
Authors: Waljee JF, Burns P, Chung KC

62C
LONG-TERM OUTCOMES OF CRANIOFACIAL RECONSTRUCTION FOR CRANIOSYNOSTOSIS: A 12-YEAR EXPERIENCE WITH 212 PATIENTS
Presenter: Mitchel Seruya, MD
Affiliation: Georgetown University Hospital
Authors: Seruya M, Keating RF, Boyajian MJ, Al-Attar A, Myseros JS, Yaun AL

63C
ASSOCIATED FACTORS FOR HYponATREMIA IN SURGICAL CORRECTION OF CRANIOSYNOSTOSIS IN CHILDREN
Presenter: Michael R. Bykowski, MS, BPhil
Affiliation: University of Pittsburgh
Authors: Bykowski MR, Naran S, Grunwaldt L, Schmitt E, Moritz M, Pollack I, Losee J, Cladis F

64C
VENOUS MALFORMATION: NATURAL PROGRESSION AND RECURRENCE AFTER TREATMENT
Presenter: Aladdin H. Hassanein, MD
Affiliation: Childrens Hospital Boston Harvard Medical School
Authors: Hassanein AH, Mulliken JB, Fishman SJ, Greene AK

65C
CLINICAL PROCESS IMPROVEMENTS IN PLASTIC SURGERY: FROM RECOGNITION TO REDUCTION OF HYPOTHERMIA IN BODY CONTOURING
Presenter: Devin Coon, MD
Affiliation: University of Pittsburgh
Authors: Coon D, Michaels J, Gusenoff JA, Purnell C, Rubin JP

66C
TRANS-ORAL ROBOTIC RECONSTRUCTION OF OROPHARYNGEAL DEFECTS: A CASE SERIES
Presenter: Jesse C. Selber, MD, MPH
Affiliation: MD Anderson Cancer Center
9:30 am  
**67C**  
**FUNCTION AND HEALTH STATUS OUTCOMES FOLLOWING SOFT TISSUE RECONSTRUCTION FOR LIMB PRESERVATION IN EXTREMITY SOFT TISSUE SARCOMA**  
Presenter: Kristen Davidge, MD, MSc  
Affiliation: University of Toronto  
Authors: Davidge K, Wunder J, Tomlinson G, Wong R, Lipa JE

9:40 am  
**68C**  
**COMBINED AUGMENTATION MASTOPEXY**  
Presenter: Spencer L. Eagan, MD  
Affiliation: University of Missouri  
Authors: Eagan SL, Atashroo DA, Puckett CL, Henry SL

9:50 am  
**69C**  
**INCIDENCE AND PREDICTORS OF GRADE III/IV CAPSULAR CONTRACTURE IN BILATERAL TWO-STAGED IMPLANT RECONSTRUCTION: AN EXPERIENCE IN 365 PATIENTS (730 BREASTS) OVER 10 YEARS**  
Presenter: Anuja K. Antony, MD, MPH  
Affiliation: University of Illinois at Chicago  
Authors: Antony AK, Zhong T, McCarthy CM, Arriaga AF, Jugenb M, Mosahebi A, Disa JJ, Mehrara BJ

10:00 - 10:30 am  
Coffee with Exhibitors

**Scientific Session 6**  
Concurrent Podium Paper Session  
Group A: Nerve  
Group B: Ischemia/Reperfusion  
Group C: Clinical Outcomes Research

10:30 am - 12:00 pm  
**70A - 78A**  
Group A: Nerve  
Moderator: Thomas H. Tung, MD  
Co-Moderator: Kacey Marra, PhD

10:30 am  
**70A**  
**IMPACT OF PEDOT ON PERIPHERAL NERVE REGENERATION AND MUSCLE REINNervation**  
Presenter: Ziya Baghmanli, MD  
Affiliation: University of Michigan  
Authors: Baghmanli Z, Urbanchek MG, Wei B, Shim BS, Martin D, Cederna PS

10:40 am  
**71A**  
**THE EFFECTS OF TARGETED REINNervation ON NEUROMA FORMATION IN A NOVEL RAT HINDLIMB MODEL**  
Presenter: Jason H. Ko, MD  
Affiliation: Northwestern University Feinberg School of Medicine  
Authors: Ko JH, de la Garza M, Marasco PD, Dumanian GA
10:50 am

72A
AN ORGANIC WIRE: CONDUCTIVE POLYMER COATINGS ON AN ACELLULAR NERVE SCAFFOLD - IN VITRO CHARACTERIZATION AND BIOCOMPATIBILITY
Presenter: Brent Egeland, MD
Affiliation: University of Michigan
Authors: Egeland B, Adams AM, Wei B, Urbanchek MG, Larkin LM, Kuzon WM, Cederna PS

11:00 am

73A
INVOLUNTARY, ELECTRICALLY EXCITABLE NERVE TRANSFER FOR DENERVATION: RESULTS FROM AN ANIMAL MODEL
Presenter: Daniel L, Master, MD
Affiliation: University Hospitals Case Medical Center
Authors: Master DL, Cowan T, Narayan S, Kirsch RF, Hoyen H

11:10 am

74A
SUPPLEMENTATION OF ACELLULAR NERVE GRAFTS WITH MOTOR AND SENSORY SCHWANN CELLS ENHANCES PERIPHERAL NERVE REGENERATION
Presenter: Katherine B, Santos, BA
Affiliation: Washington University School of Medicine
Authors: Santos KB, Jesuraj NJ, Moore AM, MacEwan M, Ray WZ, Kale S, Hunter DA, Flagg ER, Nicson M, Johnson PJ, Mackinnon SE

11:20 am

75A
UTILIZATION OF REVERSE END TO SIDE NEURORRAPHY IN THE MANAGEMENT OF PROXIMAL NERVE INJURIES
Presenter: Santosh S, Kale, MD, MBA
Affiliation: Washington University School of Medicine
Authors: Kale SS, MacKinnon SE, Johnson PJ, Tong AY, Hunter DA, Nicson MC

11:30 am

76A
REFINING THE SENSORY AND MOTOR RATUNCUS OF THE RODENT UPPER EXTREMITY: EVALUATION OF THE C7 NERVE ROOT USING FMRI AND DIRECT NERVE STIMULATION
Presenter: Patrick C, Hettinger, MD
Affiliation: Medical College of Wisconsin
Authors: Hettinger PC, Li R, Yan JG, Cho YR, Matloub HS, Pawela CP, Hyde JS

11:40 am

77A
FUNCTIONAL RESULTS OF PERIPHERAL NERVE REPAIR WITH EPINEURAL TUBE SUPPORTED WITH BONE MARROW Stromal CELLS ARE COMPARABLE TO AUTOGRRAFT REPAIR AND SUPERIOR TO VEIN TUBULATION TECHNIQUE
Presenter: Grzegorz K, Brzezicki, MD
Affiliation: Cleveland Clinic
Authors: Brzezicki GK, Nijhuis T, Duggan W, Klimczak A, Gatherwright J, Siemionow M
78A
FUNCTIONAL RECOVERY OF REPAIR OF RAT SCIATIC NERVE DEFECT WITH A STROMAL CELL EPINEURAL CONSTRUCT: PRELIMINARY DATA
Presenter: Amanda Mendiola, MD
Affiliation: Cleveland Clinic Foundation
Authors: Mendiola A, Brzezicki G, Jundzill A, Duggan W, Gatherwright J

10:30 am - 12:00 pm
79B - 87B
Group B: Ischemia/Reperfusion
Moderator: William G. Austen, MD, FACS
Co-Moderator: Jamie P. Levine, MD

10:30 am
79B
REACTIVE OXYGEN SPECIES ACCUMULATION LEADS TO DEFICIENT WOUND HEALING SIMILAR TO AGING
Presenter: Melanie R. Major
Affiliation: Stanford University
Authors: Major MR, Galvez MG, Chang EI, Wong VW, Glotzbach JP, Vial IN, Gurtner GC

10:40 am
80B
ZMPSTE24 KNOCKOUT MICE AS A NOVEL MODEL OF SENESCENT WOUND HEALING
Presenter: Parag Butala, MD
Affiliation: New York University Langone Medical Center

10:50 am
81B
MITIGATING RADIATION-INDUCED SKIN INJURY: PREVENTING ANGIOSTASIS VIA TOPICAL CXCR3 SILENCING
Presenter: Alexandre Marchac, MD
Affiliation: NYU Langone Medical Center
Authors: Wetterau MT, Marchac AC, Knobel D, Butala P, Szpalski C, Immerman SB, Warren SM, Saadeh PB

11:00 am
82B
BREAKING THE CYCLE OF INJURY: TOPICAL PRO-OXIDANT GENE SILENCING DECREASES DOWNSTREAM TARGETS, UPSTREAM MEDIATORS, AND IMPROVES DIABETIC WOUND HEALING
Presenter: James L. Crawford, BS
Affiliation: New York University Langone Medical Center

11:10 am
83B
A CLINICAL AND HISTOLOGICAL EVALUATION OF VACUUM THERAPY OF SKIN GRAFTED FREE MUSCLE FLAPS AS A POST-OPERATIVE TREATMENT CONCEPT
Presenter: Holger Bannasch, MD
Affiliation: University Freiburg Medical Center
Authors: Bannasch H, Schmidt Y, Iblher N, Penna V, Torio N, Momeni A, Stark GB

-46-
84B
ADIPOSE TISSUE UNDER HYPOXIA: DEATH OF ADIPOCYTES AND ACTIVATION OF STEM/PROGENITOR CELLS
Presenter: Hirotaka Suga, MD
Affiliation: University of Tokyo
Authors: Suga H, Eto H, Aoi N, Yoshimura K

85B
RADIAL EXTRACORPOREAL SHOCK WAVE APPLICATION OPTIMIZES MURINE INCISIONAL WOUND HEALING
Presenter: Claudio Contaldo, MD
Affiliation: University Hospital Zurich
Authors: Contaldo C, Hoegger DC, Lindenblatt N, Calcagni M, Giovanoli P

86B
CD109, A NOVEL TGF-BETA ANTAGONIST, REGULATES DERMAL THICKNESS IN A SKIN FLAP-INDUCED ISCHEMIC WOUND MODEL
Presenter: Sebastian Winocour, MD
Affiliation: McGill University
Authors: Winocour S, Vorstenbosch J, Trzeciak A, Lessard L, Philip A

87B
ENHANCED FAT GRAFT PROTECTION WITH LIPOIC ACID TREATMENT
Presenter: Miguel A. Medina III, MD
Affiliation: Massachusetts General Hospital Harvard Medical School
Authors: Medina MA, Lee JH, Kirchmann JC, McCormack MC, Nguyen JT, Randolph MA, Austen WG

10:30 am - 12:00 pm
88C - 96C
Group C: Clinical Outcomes Research
Moderator: Steven J. Kronowitz, MD
Co-Moderator: James J. Chao, MD, FACS

10:30 am
88C
HOW LONG DO WE NEED POSTOPERATIVE ANTIBIOTIC PROPHYLAXIS FOR IMMEDIATE BREAST RECONSTRUCTION?
Presenter: Brett T. Phillips, MD
Affiliation: Stony Brook University Medical Center
Authors: Phillips BT, Wang ED, Lanier ST, Khan SU, Dagum AB, Bui DT

89C
A NEW METHOD FOR ESTIMATION OF INVOLVED BODY SURFACE AREAS FOR OBESE AND NORMAL WEIGHT BURN PATIENTS
Presenter: Keith C. Neaman, MD
Affiliation: Grand Rapids Medical Education & Research Ctr Michigan State Univ.
Authors: Neaman KC, Andres LA, McClure AM, Burton ME, Kemmeter PR, Ford RD

10:50 am
90C
COSMETIC RHINOPLASTY: A REVIEW OF 384 CONSECUTIVE CASES
Presenter: Adam Boettcher, MD
Affiliation: GRMERC Michigan State University
Authors: Boettcher A, Neaman K, Do V, Renucci J, Vanderwoude D
11:00 am

91C
THE CORRELATION BETWEEN ULTRASOUND FINDINGS AND CLINICAL ASSESSMENT OF PRESSURE RELATED ULCERS: IS EXTENT OF INJURY GREATER THAN WHAT IS PREDICTED?
Presenter: Christopher J. Low, MD
Affiliation: Long Island Plastic Surgical Group
Authors: Low CJ, Davenport TA, Luchs J

11:10 am

92C
TIMING OF CLEFT PALATE SURGERY AND SPEECH OUTCOMES
Presenter: Natalie V. Roebuck, BS
Affiliation: University of Alabama School of Medicine
Authors: Roebuck NV, Grant JH, Robin NH, Ray PD

11:20 am

93C
RHINOPLASTY USING RIB CHONDROOSSEOUS GRAFT
CANCELLED

11:30 am

94C
EPIDEMIOLOGY OF VASCULAR ANOMALIES FROM AN INTERNATIONAL REFERRAL CENTER: REVIEW OF 3620 PATIENTS
Presenter: Allen S. Liu, MD
Affiliation: Childrens Hospital Boston
Authors: Liu AS, Chalache K, Greene AK, Mulliken JB, Fishman SJ

11:40 am

95C
THE ASSOCIATION BETWEEN CLOSED SUCTION DRAINAGE DURATION AND COMPLICATION RATES IN TISSUE EXPANDER/IMPLANT BREAST RECONSTRUCTION WITH ANTIBIOTIC PROPHYLAXIS
Presenter: Steven T. Lanier, BS
Affiliation: Stony Brook University Medical Center
Authors: Lanier ST, Wang ED, Phillips BT, Khan SU, Dagum AB, Bui DT

11:50 am

96C
VALIDATION OF THE CAPRINI RISK ASSESSMENT MODEL IN PLASTIC AND RECONSTRUCTIVE SURGERY PATIENTS
Presenter: Steven H. Bailey, MD
Affiliation: UT Southwestern Medical Center

12:00 - 1:00 pm

Lunch with Exhibitors
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<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>1:00 - 3:00 pm</td>
<td>97A - 108A</td>
<td>Group A: Tissue Engineering</td>
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<td>Moderator: David L. Brown, MD</td>
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<td>Co-Moderator: James Chang, MD, FACS</td>
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<td>1:00 pm</td>
<td>97A</td>
<td>INTRAVITAL MICROSCOPY OF SENSORS SEEDED WITH ADIPOSE</td>
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<td>DERIVED STEM CELLS</td>
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<td>Presenter: Bruce Klitzman, PhD</td>
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<td></td>
<td></td>
<td>Affiliation: Duke University Medical Center</td>
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<td>Authors: Klitzman B, Hodavance MS, Koschwanez HE, Reichert WM</td>
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<tr>
<td>1:10 pm</td>
<td>98A</td>
<td>OVEREXPRESSION OF CD109 IN THE EPIDERMIS REDUCES</td>
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<td>INFLAMMATION, IMPROVES WOUND HEALING AND SCARRING</td>
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<td>Presenter: Joshua Vorstenbosch, BS</td>
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<td>Affiliation: McGill University Health Centre</td>
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<td>Authors: Vorstenbosch J, Gallant-Behm C, Trzeciak A, Fang R, Mustoe T, Philip A</td>
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<td>1:20 pm</td>
<td>99A</td>
<td>HUMAN FLEXOR TENDON TISSUE ENGINEERING: PRESERVATION OF</td>
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<td>BIOMECHANICAL STRENGTH IN ACELLULARIZED TENDONS</td>
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<td>Presenter: Brian C. Pridgen, BS</td>
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<td></td>
<td>Affiliation: Stanford University</td>
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<td>Authors: Pridgen BC, Kim M, Connolly I, Angelidis I, Thorfinn J, Lindsey DP, Pham H, Chang J</td>
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<td>1:30 pm</td>
<td>100A</td>
<td>SINGLE CELL TRANSCRIPTIONAL ANALYSIS DEFINES MULTIPLE</td>
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<td>HETEROGENEOUS SUBPOPULATIONS WITHIN HUMAN ADIPOSE</td>
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<td>DERIVED STROMAL CELLS</td>
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<td>Presenter: Jason P. Glotzbach, MD</td>
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<td>Affiliation: Stanford University</td>
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<td>Authors: Glotzbach JP, Levi B, Januszyk M, Vial IN, Wong VW, Rustad KC, Longaker MT, Gurtner GC</td>
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<td>1:40 pm</td>
<td>101A</td>
<td>TOWARDS ENGINEERING THE CRANIOFACIAL SKELETON - LARGE</td>
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<td>ANIMAL DATA AND FIRST CLINICAL CASE</td>
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<td>Presenter: Christopher M. Runyan, MD</td>
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<td>Affiliation: Cincinnati Childrens Hospital Medical Center</td>
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<td>Authors: Taylor JA, Runyan CM, Jones DC, Maercks RA</td>
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1:50 pm
102A Award Eligibility: Shenaq
BIOREACTOR OPTIMIZATION OF TISSUE ENGINEERED RABBIT FLEXOR TENDONS IN VIVO
Presenter: Johan Thorfinn, MD, PhD
Affiliation: Linköping University Hospital
Authors: Thorfinn J, Angelidis IK, Gigliello L, Pham HM, Lindsay D, Chang J

2:00 pm
103A Award Eligibility: Gingrass
ANGIOTENSIN TYPE 1 RECEPTOR BLOCKERS INHIBIT MYOSIN IIEINDEPENENT MIGRATION IN KEOID FIBROBLASTS
Presenter: Peter C. Thurlow, BS
Affiliation: Duke University School of Medicine
Authors: Thurlow PC, Selim MA, Kuang AA, Bond J, Pizzo SV, Levin LS

2:10 pm
104A Award Eligibility: Gingrass
OSTEOGENIC POTENTIAL OF HUMAN AND MURINE OSTEOBLASTS IN DISTINCT SCAFFOLD MATERIALS IS REGULATED BY MAP KINASES
Presenter: Daniel D. Im, MS
Affiliation: VA Greater Los Angeles Healthcare System
Authors: Im DD, Kruger EA, Huang WR, Rudkin GH, Yamaguchi DT, Miller TA, Jarrahy R

2:20 pm
105A Award Eligibility: Snyder
IN-VIVO TISSUE ENGINEERING OF VASCULARISED ADIPOSE TISSUE FOR BREAST RECONSTRUCTION: LONG-TERM RESULTS AND TRANSPLANTATION
Presenter: Juergen H. Dolderer, MD
Affiliation: Eberhard Karls University
Authors: Dolderer JH, Findlay MW, Abberton K, Trost N, Cooper-White J, Schaller HE, Morrison WA

2:30 pm
106A Award Eligibility: Snyder
ENHANCEMENT OF BONE REGENERATION USING AN ENRICHED SKELETAL PROGENITOR CELL POPULATION FROM HUMAN ADIPOSE DERIVED STROMAL CELLS
Presenter: Benjamin Levi, MD
Affiliation: University of Michigan
Authors: Levi B, Glotzbach JP, Quarto N, James AW, Wan DC, Behr BJ, Gurtner GC, Longaker MT

2:40 pm
107A Award Eligibility: Snyder
ADIPONECTIN PROTECTS HUMAN MESENCHYMAL STEM CELLS AS SEED CELLS OF TISSUE ENGINEERED BLOOD VESSELS FROM SHEAR STRESS INDUCED INJURY THROUGH ATTENUATED NITRITIVE/OXIDATIVE STRESS AND REDUCED ICAM-1 ENHANCEMENT
Presenter: Yang Sun, MD, PhD
Affiliation: XiJing Hospital 4th Military Medical University
Authors: Sun Y, Yi W, Wei XF, Xia W, Xia WS, Fan X, Gu CH, Lau WB, Ma XL, Yi DH
108A
INTRA AND TRANSCUTANEOUS DELIVERY OF Sirna FOR LOCALIZED GENE SILENCING
Presenter: Benjamin R. Roman, MD
Affiliation: New York University Medical Center

109B - 120B
Group B: Microsurgery/Flap
Moderator: E. Gene Deune, MD
Co-Moderator: Lee L. Q. Pu, MD, PhD, FACS

109B
ENDOTHELIAL ACTIVATION WITH SUSTAINED PROTHROMBOTIC GENE EXPRESSION IN RADIATED MICROVASCULAR RECIPIENT VEINS
Presenter: Martin Halle, MD, PhD
Affiliation: Shanghai 9th Peoples Hospital
Authors: Halle M, Ekstrom M, Farnebo F, Tornvall P

110B
ENGINEERING FLEXOR TENDON WITH BIODEGRADABLE COMPOSITE SCAFFOLD AND ITS APPLICATION IN REPAIRING MONKEY TENDON DEFECT
Presenter: Bin Wang, MD, PhD
Affiliation: Shanghai 9th Peoples Hospital
Authors: Wang B, Jiang YK, Chen B, Zhang YJ, Cao YL

111B
VACUUM SEALING OF SKIN GRAFTED FREE MUSCLE FLAPS REDUCES THE ISCHEMIA/ REPERFUSION ASSOCIATED INFLAMMATORY RESPONSE: A PROSPECTIVE, RANDOMIZED RT-PCR STUDY
Presenter: Steffen U. Eisenhardt, MD
Affiliation: University of Freiburg Medical Center
Authors: Eisenhardt SU, Schmidt Y, Iblher N, Penna V, Torio N, Momeni A, Stark GB

112B
CHEWING THE FAT: THE IMPORTANCE OF PROCESSING TECHNIQUES ON FAT GRAFT SURVIVAL
Presenter: Orlando Canizares Jr., MD
Affiliation: NYU Langone Medical Center
Authors: Canizares O, Allen RJ, Davidson EH, Knobel D, Butala P, Wagner IJ, Tutela JP, Saadeh PB, Warren SM, Hazen A

113B
MIMIC HYPOXIA IMPROVES ANGIOGENESIS IN ISCHEMIC RANDOM FLAPS
Presenter: Rui Weng, MD
Affiliation: UT Southwestern Medical Center
Authors: Weng R, Li QF, Li H, Yang M, Sheng LL
QUANTITATIVE ASSESSMENT OF RECONSTRUCTIVE TISSUE STATUS IN CUTANEOUS FLAP MODEL USING SPATIAL FREQUENCY DOMAIN IMAGING
Presenter: Amr Yafi, MD
Affiliation: University of California Irvine
Authors: Yafi A, Vetter TS, Petal S, Saager RB, Cuccia DJ, Evans G, Durkin AJ

SALVAGE OF ENTERIC TISSUE AFTER A PERIOD OF CRITICAL ISCHEMIA: DIMINUITION OF OXIDATIVE STRESS VIA TREATMENT WITH HYDROGEN SULFIDE
Presenter: Allie M. Sohn, BA
Affiliation: Weill Cornell Medical College
Authors: Sohn AM, Henderson PW, Weinstein A, Spector JA

DELAY PHENOMENON BY BOTULINUM TOXIN A IN MUSCULOCUTANEOUS FLAP OF RAT
Presenter: EunSoo Park, MD
Affiliation: Soonchunhyang University Hospital
Authors: Park ES, Kim YB, Kang SM

IMPROVING THE SPEED AND ACCURACY OF MANDIBULAR RECONSTRUCTION USING PREOPERATIVE VIRTUAL PLANNING AND RAPID PROTOTYPE MODELING
Presenter: Matthew M. Hanasono, MD
Affiliation: University of Texas MD Anderson Cancer Center
Authors: Hanasono MM, Skoracki RJ

GASOTRANSFERREDER-MEDIATED MITIGATION OF ISCHEMIA REPERFUSION INJURY IN THE SETTING OF DIABETES
Presenter: Natalia Jimenez, MD
Affiliation: Weill Cornell Medical College
Authors: Krijgh DD, Ruffino J, Henderson PW, Jimenez N, Sohn AM, Spector JA

PULSED ELECTROMAGNETIC FIELDS INCREASE CGMP RELEASE FROM HUMAN ENDOTHELIAL CELLS
Presenter: June Kar-ming Wu, MD
Affiliation: Columbia University
Authors: Wu JK, Rohde CH, Adepoju O, Lekhraj R, Caspar D

FREE SERRATUS FASCIA FLAP - ANATOMIC STUDY & CLINICAL APPLICATION
Presenter: Lars H. Evers, MD
Affiliation: University of Luebeck
Authors: Evers LH, Bhavsar D
1:00 pm
121C
Group C: Clinical Outcomes Research
Moderator: Anuja K. Antony, MD, MPH
Co-Moderator: Brian Rinker, MD

121C
Award Eligibility: Gingrass
USING 3-DIMENSIONAL ANALYSIS TO QUANTIFY VOLUMETRIC
CHANGES IN THE BREAST
Presenter: Ahmed Fadl, MS
Affiliation: New York University School of Medicine
Authors: Fadl A, Kumar N, Quan M, Small O, Tepper K, Choi M, Karp N

1:10 pm
122C
Award Eligibility: Snyder
VENOUS THROMBOEMBOLISM IN THERMALLY INJURED PATIENTS:
AN ANALYSIS OF THE NATIONAL BURN REPOSITORY
Presenter: Christopher J. Pannucci, MD
Affiliation: University of Michigan
Authors: Pannucci CJ, Osborne NH, Wahl WL, Cederna PS

1:20 pm
123C
USE OF A LIVING CELL-BASED TREATMENT TO IMPROVE AESTHETIC
OUTCOMES THROUGH MODULATION AND IMPROVEMENT OF
SECONDARY INTENTION HEALING
Presenter: Damien Bates, MD, PhD, FRACS
Affiliation: Organogenesis
Authors: Bates D, Golden P, Routhier S

1:30 pm
124C
PROPHYLACTIC FLAP RECONSTRUCTION OF THE KNEE PRIOR TO
TOTAL KNEE ARTHROPLASTY IN HIGH RISK PATIENTS
Presenter: William J. Casey III, MD
Affiliation: Mayo Clinic Arizona
Authors: Casey WJ, Krochmal DJ, Kim HY, Rebecca AM, Hemminger BJ,
Clarke HD, Spangehl MJ, Kreymerman PA, Smith AA

1:40 pm
125C
Award Eligibility: Snyder
A NOVEL TECHNIQUE FOR NIPPLE SPARING MASTECTOMY AND
IMMEDIATE RECONSTRUCTION IN PATIENTS WITH MACROMASTIA
Presenter: Nicolas Broer, MD
Affiliation: Yale University
Authors: Broer N, Narayan D, Grube B

1:50 pm
126C
Award Eligibility: Snyder
THE FEASIBILITY AND COST-BENEFIT OF POSTOPERATIVE
MONITORING OF FREE FLAP BREAST RECONSTRUCTION IN A
NON INTENSIVE CARE SETTING
Presenter: Christopher G. Zochowski, MD
Affiliation: Case Western Reserve
Authors: Zochowski CG, Soltanian H, Sweeney W
2:00 pm

127C
OUTCOME ANALYSIS OF LONG TERM INFERIOR POLE SUPPORT IN AUGMENTATION MASTOPEXY PATIENTS: A 6 YEAR FOLLOW-UP OF INTERNAL AUTOLOGOUS FLAPS VS. ACELLULAR DERMAL MATRIX
Presenter: Kaveh Alizadeh, MD, MS
Affiliation: Long Island Plastic Surgical Group
Authors: Alizadeh K

2:10 pm

128C
USE OF AUTOLOGOUS FAT INJECTION IN VELOPHARYNGEAL DYSFUNCTION IN CHILDREN: A REVIEW OF 13 CASES
Presenter: GhimNoarn G. Ang, MBBS
Affiliation: The Royal Childrens Hospital
Authors: Ang GG, Reid JA, Kilpatrick NM

2:20 pm

129C
BILATERAL REDUCTION MAMMOPLASTY: COMPLICATIONS FOLLOWING THE INTRODUCTION OF NEW SURGICAL TECHNIQUES
Presenter: Shaun P. Patel, BS
Affiliation: University of Michigan
Authors: Patel SP, Brown DL, Cederna PS

2:30 pm

130C
VALIDATION OF THE MICHIGAN HAND QUESTIONNAIRE IN A CANADIAN MARITIME POPULATION
Presenter: Bryan Chung, MD, PhD
Affiliation: Dalhousie University
Authors: Chung B, Morris SM

2:40 pm

131C
CONCEPTUAL MODELING OF DISTAL RADIUS FRACTURE OUTCOMES USING THE INTERNATIONAL CLASSIFICATION OF FUNCTIONING, DISABILITY, AND HEALTH (ICF)
Presenter: Lee Squitieri, BS
Affiliation: University of Michigan
Authors: Squitieri L, Song J

2:50 pm

132C
PEDIATRIC LYPHEDEMA: CLINICAL FEATURES IN 136 CHILDREN
Presenter: Carolyn C. Schook, BA
Affiliation: Childrens Hospital Boston
Authors: Schook CC, Fishman SJ, Mulliken JB, Greene AK

3:00 - 3:30 pm

Coffee with Exhibitors
<table>
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<th>Time</th>
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| 3:30  | **133A** | Award Eligibility: Gingrass
|       | **TEMPORAL SPATIAL EXPRESSION, FUNCTION, AND REGULATION OF NONMUSCLE MYOSIN II ISOFORMS A AND B IN SCAR REMODELING** |
|       | Presenter: Trung Ho, BA |
|       | Affiliation: Duke University Medical Center |
|       | Authors: Ho T, Selim A, Levinson H |
| 3:40  | **134A** | Award Eligibility: Gingrass
|       | **MECHANISM FOR THE TRANSLOCATION OF COLLAGEN FIBRIL SEGMENTS DURING INTRINSIC TENDON REPAIR** |
|       | Presenter: James S. Gunn, MD |
|       | Affiliation: Penn State Milton S Hershey Medical Center |
|       | Authors: Gunn JS |
| 3:50  | **135A** | Award Eligibility: Gingrass
|       | **NOTCH SIGNALING TARGET GENES ARE EXPRESSED IN INFANTILE HEMANGIOMAS** |
|       | Presenter: Omotinuwe Adepoju, MD |
|       | Affiliation: Columbia University |
|       | Authors: Adepoju O, Kitajewski A, Kitajewski J |
| 4:00  | **136A** | Award Eligibility: Snyder
|       | **ALTERATION OF THE INFLAMMATORY RESPONSE WITH HOXB3 ADMINISTRATION ACCELERATES WOUND HEALING IN DIABETIC MICE** |
|       | Presenter: Kyle A. Belek, MD |
|       | Affiliation: University of California San Francisco |
|       | Authors: Belek KA, Dunn AA, Kuri M, Young DM, Boudreau N |
| 4:10  | **137A** | Award Eligibility: Gingrass
|       | **TGF-BETA MEDIATED FGF9 SIGNALING REGULATES CELL PROLIFERATION IN PALATAL MESENCHYMAL CELLS** |
|       | Presenter: Lily Tung, BS |
|       | Affiliation: Keck School of Medicine USC |
|       | Authors: Tung L, Iwata J, Ramenzoni L, Chai Y, Urata M |
| 4:20  | **138A** | Award Eligibility: Gingrass
|       | **HEMANGIOMAS ARE STEM CELL TUMORS DERIVED FROM PERICYTES** |
|       | Presenter: Laura K. Tom, BS |
|       | Affiliation: Yale School of Medicine |
|       | Authors: Tom LK, Spock C, Mayer C, Sawh R, Schultz B, Waner M |
139A
REAL TIME FATE MAPPING OF CRANIAL NEURAL CREST CELLS DURING PALATOGENESIS IN THE SOX10: KAEDE ZEBRAFISH MODEL
Presenter: Graham J. Hickey, BS
Affiliation: Massachusetts General Hospital
Authors: Hickey GJ, Curtin E, Davidson AJ, Liao EC

140A
MECHANICAL STRESSES DETERMINE SCARRING DURING WOUND HEALING
Presenter: Kirit Bhatt, MD
Affiliation: Stanford University
Authors: Bhatt K, Vial IN, Wu K, Wong V, Dauskardt R, Longaker MT, Gurten GC

141A
ASSESSMENT OF GROWTH PROFILES IN CLEFT CHILDREN AND ADOLESCENTS
Presenter: Peter F. Koltz, MD
Affiliation: University of Rochester Medical Center
Authors: Koltz PF, Fargione R, Lakin G, Girotto J

142B - 150B
Group B: Tumor Immunology & Cancer Biology
Moderator: Babak J. Mehrara, MD
Co-Moderator: Howard Levinson, MD

142B
THE RELATIONSHIP BETWEEN KELOID GROWTH PATTERN AND STRETCHING TENSION-VISUAL ANALYSIS USING THE FINITE ELEMENT METHOD
Presenter: Satoshi Akaishi, MD
Affiliation: Nippon Medical School
Authors: Akaishi S, Akimoto M, Hyakusoku H, Ogawa R

143B
CORRELATION BETWEEN THE EXPRESSION PATTERN OF INTEGRIN ALPHA V AND CANCER INVASION IN CANCERS
Presenter: Feng Chou Tsai, MD
Affiliation: Taipei Medical University Hospital
Authors: Tsai FC

144B
ACTIVATED PROTEIN C AND OVEREXPRESSION OF ITS RECEPTOR INHIBIT TUMOR METASTASIS
Presenter: Michael Bezuhly, MD
Affiliation: Dalhousie University
Authors: Bezuhly M, Cullen R, Esmon CT, Morris SF, West KA, Johnston B, Liwski RS
4:00 pm

**145B**

TOPICAL HOXA5 AND STABILIZATION OF VASCULAR LESIONS
Presenter: Mauricio Kuri, MD
Affiliation: University of California San Francisco
Authors: Kuri M, Chen A, Kuo J, Belek K, Dunn A, Young D, Hansen S, Boudreau N

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4:10 pm

**146B**

SPECTROSCOPIC (MULTI-ENERGY) CT: THE FUTURE OF MEDICAL IMAGING
Presenter: Peter Walker, MD
Affiliation: St. Georges Hospital
Authors: Walker P, Butler AP, Cook NJ, Anderson NG

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4:20 pm

**147B**

HOST DEFENSE-LIKE LYTIC PEPTIDE SUPPRESSES GROWTH OF HUMAN SYNOVIAL- AND FIBROSARCOMA
Presenter: Cornelius Schubert, MD
Affiliation: Ruhr University Bochum
Authors: Haak J, Schubert C, Jacobsen F, Al-Benna S, Steinau HU, Shai Y, Steinstraesser I

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4:30 pm

**148B**

KILLING MECHANISM OF ONCOLYTIC DESIGNER HOST DEFENSE PEPTIDE - NECROSIS OR APOPTOSIS?
Presenter: Lars Steinstraesser, MD
Affiliation: Ruhr University Bochum

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4:40 pm

**149B**

PROPRANOLOL INHIBITS TUBULOGENESIS IN ENDOTHELIOMA CELLS AND ALTERS THE EXPRESSION OF ANGIogenic GENES IN INFANTILE HEMANGIOMAS
Presenter: Ashley A. Dunn, BA
Affiliation: University of California San Francisco
Authors: Dunn AA, Zeidler K, Devcis Z, Kuri M, Belek KA, Kuo JH, Young DM, Hoffman WY, Hansen SL

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4:50 pm

**150B**

MICRORNA REGULATES HEMANGIOENDOTHELIOMA DEVELOPMENT
Presenter: Gayle M. Gordillo, MD, FACS
Affiliation: Ohio State University
Authors: Gordillo GM, Fang HF, Roy SR, Park HP, Sen CS
3:30 pm

151C
CLARIFYING EXPECTATIONS FOR BREAST RECONSTRUCTION: DEVELOPING A NEW PATIENT ASSESSMENT TOOL
Presenter: Laura Snell, MD
Affiliation: Memorial Sloan Kettering Cancer Center

3:40 pm

152C
IMMEDIATE PARTIAL BREAST RECONSTRUCTION FOLLOWING LUMPECTOMY OR PARTIAL MASTECTOMY USING ACELLULAR DERMAL MATRIX (ALLODERM): OUTCOMES STUDY INITIAL EXPERIENCE
Presenter: Jason Konop, MD
Affiliation: University of California San Diego
Authors: Konop J, Tran Cao H, Tokin C, Malcarne V, Blair S

3:50 pm

153C
PHANTOM PUBLICATIONS AMONG PLASTIC SURGERY RESIDENCY APPLICANTS
Presenter: Christina K. Chung, MBBS
Affiliation: Stanford University
Authors: Chung CK, Lee GK

4:00 pm

154C
PREDICTIVE TEST AND CLASSIFICATION FOR VALVULAR NASAL OBSTRUCTION USING EXTERNAL NASAL DILATOR STRIPS
Presenter: Alexander Y. Lin, MD
Affiliation: University of California San Francisco
Authors: Lin AY, Richards TA

4:10 pm

155C
FAT COMPARTMENTS OF THE BACK: ANATOMICAL BOUNDARIES AND CLINICAL IMPLICATIONS FOR LD FLAP DESIGN
Presenter: Corrine Wong, MD
Affiliation: UT Southwestern Medical Center at Dallas
Authors: Nguyen VD, Bailey S, Wong C, Pessa J, Saint Cyr M

4:20 pm

156C
STEREOSCOPIC ANALYSIS OF SILICONE BREAST IMPLANT SHELLS DAMAGED BY SURGICAL INSTRUMENTS
Presenter: Derek Rapp, MD
Affiliation: Ohio State University
Authors: Neaman KC, Rapp D, Hammond DC
157C  Award Eligibility: Gingras
DEFINING PSEUOPTOSIS (BOTTOMING OUT) 3 YEARS FOLLOWING SHORTSCAR MEDIAL PEDICLE REDUCTION MAMMAPLASTY
Presenter: Michelle Quan, BA
Affiliation: Stony Brook University School of Medicine
Authors: Quan M, Fadl A, Tepper O, Small K, Kumar N, Choi MH, Karp NS

158C  Award Eligibility: Gingras
RISK FACTORS FOR DEATH IN ELDERLY PATIENTS WITH FACIAL FRACTURES SECONDARY TO FALLS: A REVIEW OF 1220 CASES OVER 10 YEARS
Presenter: Julio A Clavijo-Alvarez, MD, PhD
Affiliation: University of Pittsburgh
Authors: Clavijo-Alvarez JA, Deleyiannis FW, Songer T, Zenati M

159C  Award Eligibility: Gingras
VENTRAL HERNIA REPAIR USING COMPONENTS SEPARATION REINFORCED WITH XENOGENIC STRATTICE MESH
Presenter: Jeffrey Stromberg, MD
Affiliation: University of Maryland
Authors: Stromberg J, Zahiri HR, Silverman RP, Singh D

Members’ Dinner
Buses depart Hilton Hotel at 6:45 pm

Wednesday, May 26, 2010

7:00 am - 12:00 pm  Registration
7:30 am - 8:00 am  Continental Breakfast with Exhibitors

Scientific Session 9
Concurrent Podium Paper Session
Group A: Tissue Engineering
Group B: Composite Tissue (CTA)
Group C: Clinical Outcomes Research

8:00 am - 10:00 am  160A - 171A
Group A: Tissue Engineering
Moderator: Paul S. Cederna, MD, FACS
Co-Moderator: Babak J. Mehrara, MD

8:00 am  160A  Award Eligibility: Gingras
MECHANOTRANSDUCTIVE INDUCED RECEPTOR MODULATION AS A PREHYPOXIC MECHANISM OF NEOVASCULARIZATION
Presenter: Lino F. Miele, MD, MS
Affiliation: The Lankenau Hospital
Authors: Miele LF, Erba P, Adini A, Ackermann M, Lamarches JM, Orgill BD, Helm D, DAmato RJ, Konerding MA, Mentzer SJ, Orgill DP
161A
PHARMACOLOGICAL ENRICHMENT: A NEW APPROACH TO ADIPOSE DERIVED STEM CELL ENRICHMENT
Presenter: Christopher P. Erdman, BS
Affiliation: Georgia Institute of Technology
Authors: Erdman CP, Olivares-Navarrete R, Williams JK, Schwartz Z, Boyan BD

162A
OUTGROWTH OF NEW FINGERS IN FLANKS OF THE MEXICAN AXOLOTL INDUCED BY BONE AUTOTRANSPLANTATION - A PROMISING FUTURE MODEL FOR PLASTIC AND RECONSTRUCTIVE SURGERY
Presenter: Bjoern Menger, MD
Affiliation: Hannover Medical School

163A
FAT ECM AS A NOVEL SCAFFOLD FOR SOFT TISSUE RECONSTRUCTION
Presenter: Han Li, MD
Affiliation: University of Pittsburgh Medical Center
Authors: Li H, Marra K, Badyak S, Freund J, Rubin JP

164A
OPTIMIZING NEOVASCULARIZATION OF TISSUE REGENERATION TEMPLATES BY RATIONAL DESIGN AND MICROFABRICATION
Presenter: Peter W. Henderson, MD
Affiliation: Weill Cornell Medical College
Authors: Henderson PW, Nagineni V, Jimenez N, Sohn AM, Krijgh D, Spector JA

165A
IN VIVO REGENERATION OF MICROVASCULAR PEDICLE
Presenter: Vincenzo Vindigni, MD, PhD
Affiliation: University of Padova
Authors: Vindigni V, Zavan B, Lepidi S, Pandis L

166A
OVEREXPRESSION OF CD109 IN THE EPIDERMIS REDUCES SCARRING IN A BLEOMYCIN INDUCED MODEL OF SKIN FIBROSIS
Presenter: Hasan Alajmi, MD
Affiliation: McGill University
Authors: Alajmi H, Vorstenbosch J, Winocour S, Trzeciak A, Lessard L, Philip A

167A
IN VIVO COMPARISON OF HUMAN ACELLULAR DERMAL MATRIX AND NONCROSS- LINKED PORCINE ACELLULAR DERMAL MATRIX
Presenter: Kristin T. Campbell, MD
Affiliation: MD Anderson Cancer Center
Authors: Campbell KT, Burns NK, Rios CN, Mathur AB, Butler CE
168A
SINGLE HEMATOPOETIC STEM CELL TRANSCRIPTIONAL ANALYSIS AS A MODEL TO BETTER ISOLATE STEM CELL POPULATIONS
Presenter: Ivan N. Vial, BA
Affiliation: Stanford University
Authors: Vial IN, Glotzbach JP, Januszyk M, Thangarajah H, Wong V, Longaker MT, Gurtner GC

169A
DEPOT SPECIFIC VARIATION IN THE OSTEONECIC AND ADIPOGENIC POTENTIAL OF HUMAN ADIPOSEDERIVED STROMAL CELLS MAY BE EXPLAINED BY VARIATIONS IN BMP SIGNALING
Presenter: Derrick Wan, MD
Affiliation: University of Michigan
Authors: Levi B, James AW, Wan DC, Nauta AC, Commons GW, Longaker MT

170A
CHONDROCYTE-BASED REPAIR OF ARTICULAR CARTILAGE TO SUBCHONDRAL BONE
Presenter: S. William Hazard, MD
Affiliation: Pennsylvania State
Authors: Johnson TS, Pylawka TK, Hazard SW, Lewis GS, Reid JS, Donahue HJ

171A
THREE DIMENSIONAL POLY-LACTIDEGLYCOLIC ACID (PLGA) AND TYPE 1 COLLAGEN SCAFFOLDS EXERT AN OPPOSITE EFFECT ON OSTEOGENESIS IN HUMAN AND MOUSE OSTEOBLASTS
Presenter: Erwin A. Kruger, MD
Affiliation: VA Greater Los Angeles Healthcare System
Authors: Kruger EA, Im DD, Pereira C, Huang WR, Jarrahy R, Yamaguchi DT, Rudkin GH

172A - 183B
Group B: Composite Tissue (CTA)
Moderator: Brian Rinker, MD
Co-Moderator: Thomas H. Tung, MD

172B
APPLICATION OF CELLULAR THERAPY COMBINED WITH LOW DOSE IMMUNOSUPPRESSION IN COMPOSITE TISSUE ALLOTRANSPLANTATION
Presenter: Yang Yang, MS
Affiliation: Xijing Hospital of Fourth Military Medical & University of Chinese PLA
Authors: Yang Y
173B  
**Award Eligibility: Snyder**  
**COMBINED ANTI-CD28 COSTIMULATORY BLOCKADE AND LOW-DOSE TACROLIMUS THERAPY IN A NON-HUMAN PRIMATE VASCULARIZED FIBULA ALLOGRAFT MODEL**  
Presenters: Gerhard S. Mundinger, MD  
Affiliation: Johns Hopkins Hospital  
Authors: Mundinger GS, Hui-Chou HG, Nam AJ, Dorafshar AH, Sulek JE, Drachenberg CB, Kukuruga DL, Shipley ST, Jones LS, Bartlett ST, Barth RN, Rodriguez ED

174B  
**Award Eligibility: Snyder**  
**PHARMACOLOGICAL PROPHYLACTIC TREATMENT FOR PERIOPERATIVE PROTECTION OF SKELETAL MUSCLE FROM ISCHEMIA/REPERFUSION (I/R) INJURY IN SELECTIVE RECONSTRUCTIVE SURGERY**  
Presenters: Neil J. Cahoon, MBChB, MRCS  
Affiliation: Hospital for Sick Children  
Authors: Cahoon NJ, Ashrafpour H, Huang N, Hofer SO, Lipa JE, Forrest CR, Pang CY

175B  
**Award Eligibility: Shenaq**  
**USING GENETICALLY MODIFIED GRAFTS TO DELIVER LOCAL IMMUNOMODULATIVE GENE WITH MINIMAL SYSTEMIC TOXICITY IN RAT COMPOSITE TISSUE ALLOTRANSPLANTATION**  
Presenters: Su Fu, MD  
Affiliation: Xijing Hospital Fourth Military Medical University  
Authors: Fu S, Yang Y, Xiao B, Li Y, Y CG, Xia W, Guo SZ

176B  
**RECIPIENT FACTOR XIIIa+ MELANOPHAGES PERSIST LONGER THAN OTHER CUTANEOUS ANTIGEN PRESENTING CELLS AFTER HEMATOPOIETIC TRANSPLANTATION**  
Presenters: Peter J. Taub, MD, FACS, FAAP  
Affiliation: Mount Sinai Medical Center  
Authors: Taub PJ, Haniffa M, Ginhoux F, Abel M, Bullock S, Alshemali S, Silver L, Merad M

177B  
**Award Eligibility: Snyder**  
**TOTAL OSTEOCUTANEOUS HEMIFACE ALLOTRANSPLANTATION MODEL IN RATS**  
Presenters: Selman H. Altuntas, MD  
Affiliation: Cleveland Clinic Foundation  
Authors: Altuntas SH, Zor F, Siemionow M

178B  
**Award Eligibility: Snyder**  
**A NOVEL CADAVER STUDY QUANTIFYING THE POTENTIAL ANTIGENIC SKIN COMPONENT ACCOMPANYING CONCOMITANT FACE AND UPPER EXTREMITY TRANSPLANTATION**  
Presenters: Chad R. Gordon, DO  
Affiliation: Cleveland Clinic  
179B
USE OF DOXORUBICIN CHEMOTHERAPY AS IMMUNOSUPPRESSION FOR COMPOSITE TISSUE ALLOTRANSPLANTATION
Presenter: Bryce Olenzak, MD
Affiliation: Johns Hopkins/University of Maryland Plastic Surgery
Authors: Hui-Chou HG, Olenzak JB, Nam AJ, Mundinger GS, Drachenberg CB, Jones LS, Rodriguez ED

9:20 am

180B
EFFECTS OF IMMUNE RESPONSE AND CYCLOSPORINE (CSA) TREATMENT ON NERVE REGENERATION IN COMPOSITE TISSUE TRANSPLANTATION (CTA)
Presenter: Sami Tuffaha
Affiliation: University of Pittsburgh School of Medicine

9:30 am

181B
ANATOMICAL LANDMARKS FOR SAFE ELEVATION OF THE DIEP FLAP: A CADAVERIC STUDY
Presenter: Ron Hazani, MD
Affiliation: University of Louisville
Authors: Chowdhry S, Hazani R, Collis P

9:40 am

182B
TURN DERMIS INTO TENDON-LIKE TISSUE BY IN VIVO STRETCHING
Presenter: Wei Liu, MD, PhD
Affiliation: Shanghai Second Medical University
Authors: Liu W, Zhang YJ, Wang B

9:50 am

183B
THE USE OF COMPUTED TOMOGRAPHIC ANGIOGRAPHY FOR BREAST RECONSTRUCTION: PATIENT BODY MASS INDEX, PERFORATOR QUALITY AND BRANCHING PATTERN
Presenter: Kahwoon Leo, MBBS, MRCS, MMed
Affiliation: University of Washington
Authors: Leo K, Mathes DW, Neligan PC, Said HK, Louie O

8:00 - 10:00 am

184C - 195C
Group C: Clinical Outcomes Research
Moderator: David W. Mathes, MD
Co-Moderator: Anuja K. Antony, MD, MPH

8:00 am

184C
BREAST RECONSTRUCTION: THE IMPORTANCE OF VISUALIZATION IN A PATIENT’S DECISION-MAKING PROCESS
Presenter: Carrie Scharf, BA
Affiliation: NYU Langone Medical Center
Authors: Scharf C, Qualter J, Oliker A, Deluccia N, Torres A, Hazen A
8:10 am 185C 
ACELLULAR DERMAL MATRIX USE IN DUPUYTREN’S DISEASE
Presenter: Michael J. Terry, MD
Affiliation: Yale University School of Medicine
Authors: Terry MJ, Goldberg CG, Abbate D, Narayan D

8:20 am 186C 
WHO IS THE TOUGHEST CRITIC? RATING AESTHETIC OUTCOMES OF CLEFT LIP REPAIR
Presenter: Peter F. Koltz, MD
Affiliation: University of Rochester Medical Center
Authors: Koltz PF, Shaw RB, Emerson C, Girootto JA

8:30 am 187C 
A NOVEL MINIMALLY INVASIVE TECHNIQUE FOR COMPONENT SEPARATION
Presenter: Michael N. Mirzabeigi
Affiliation: Thomas Jefferson University Hospital
Authors: Mirzabeigi MN, Valerio I, Stofman G

8:40 am 188C 
HEAD AND NECK MALIGNANT MELANOMA: LOCAL RECURRENCE FOLLOWING WIDE LOCAL EXCISION AND IMMEDIATE RECONSTRUCTION
Presenter: Daniel Z. Liu, MD
Affiliation: University of Washington
Authors: Liu DZ, Mathes DW, Isik FF, Sullivan SR

8:50 am 189C 
A HISTOPATHOLOGIC COMPARISON BETWEEN IRRADIATED AND NONIRRADIATED SKIN FOR BREAST RECONSTRUCTION
Presenter: Yoshiko Iwahira, MD, PD
Affiliation: Breast Sugery Clinic
Authors: Iwahira Y, Sanada H, Nakagami G, Huang L, Ohta Y

9:00 am 190C 
NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY AS A USEFUL TOOL FOR INGREDIENT ANALYSIS OF ARTIFICIAL MATERIALS
Presenter: Takahisa Okuda, MD, PhD
Affiliation: Nippon Medical School
Authors: Okuda T, Hirakawa K, Mizuno H, Uysal C, Ohno Y, Hyakusoku H

9:10 am 191C 
ONE-YEAR OUTCOME STUDY COMPARING THE BOTTOMING-OUT PROCESS IN INFERIOR PEDICLE VERSUS MEDIAL PEDICLE BREAST REDUCTION TECHNIQUES
Presenter: Michelle Quan, BA
Affiliation: Stony Brook University School of Medicine
Authors: Quan M, Fadl A, Tepper O, Small K, Kumar N, Choi MH, Karp NS
9:20 am 192C  
OPTIMIZING BLOOD VESSEL IMAGING IN SOFT TISSUE RECONSTRUCTION  
Presenter: Mostafa H. Ramadan, MD  
Affiliation: University of Pittsburgh Medical Center  
Authors: Ramadan MH, Miljkovic N, Li H, Hoyer R, Watkins S, Marra KG, Rubin JP  

9:30 am 193C  
MANAGEMENT OF THE GIANT PANNUSS: TECHNIQUE AND RESULTS  
Presenter: Chad A. Purnell, BS, MSIII  
Affiliation: University of Pittsburgh School of Medicine  
Authors: Purnell CA, Michaels J, Toy J, Coon D, Bubar N, Rubin JP  

9:40 am 194C  
DOCUMENTATION OF INFORMED CONSENT AND ETHICS COMMITTEE APPROVAL IN PLASTIC SURGERY RESEARCH  
Presenter: Hani H. Sinno, MD, MEng, BSc  
Affiliation: McGill University  
Authors: Sinno HH, Fouda Neel O, Lutfy J  

9:50 am 195C  
CLINICAL TRIAL OF USING BASIC FIBROBLAST GROWTH FACTOR IMPREGNATED GELATIN SHEET FOR ACUTE AND CHRONIC WOUND HEALING  
Presenter: Hiroshi Mizuno, MD  
Affiliation: Nippon Medical School  
Authors: Mizuno H, Kobe K, Nakao J, Hyakusoku H, Miyamoto M, Tabata Y  

10:00 - 10:30 am  
Coffee with Exhibitors  

Scientific Session 10  
Concurrent Podium Paper Session  
Group A: Craniofacial/Bone  
Group B: Nerve  
Group C: Miscellaneous  

10:30 am - 12:00 pm 196A - 204A  
Group A: Craniofacial/Bone  
Moderator: H. Peter Lorenz, MD, FACS  
Co-Moderator: Geoffrey C. Gurtner, MD, FACS  

10:30 am 196A  
EVALUATION OF RADIATION INDUCED VASCULAR DAMAGE IN MANDIBULAR DISTRACTION OSTEOGENESIS  
Presenter: Catherine N. Tchانue-Fossuo, MS, MD  
Affiliation: University of Michigan Medical School  
Authors: Tchанue-Fossuo CN, Jing XL, Farberg AS, Donneys A, Monson LA, Deshpande SS, Buchman SR
10:40 am

197A
THE DEVELOPMENT OF NOVEL MICROCOMPUTED TOMOGRAPHY SNAKE ALGORITHM TO DETERMINE TIME COURSE OF POSTERIOR FRONTAL SUTURE CLOSURE IN MICE
Presenter: Christopher Hermann, BS
Affiliation: Georgia Institute of Technology

10:50 am

198A
ANGIOGENIC EFFECT OF DEFEROXAMINE IN MANDIBULAR DISTRACTION OSTEOGENESIS
Presenter: Alexis Donneys, MD, MS
Affiliation: University of Michigan Medical School
Authors: Donneys A, Farberg AS, Jing XL, Tchanque-Fossuo CN, Monson LA, Deshpande SS, Buchman SR

11:00 am

199A
WNT SIGNALING IS ENHANCED DURING NEW BONE REGENERATION IN A MOUSE MODEL OF DISTRACTION OSTEOGENESIS
Presenter: Loai A. Al-Salmi, MD
Affiliation: McGill University
Authors: Al-Salmi LA, Haidar ZS, Izadpanah A, Tabrizian M, Lessard LM, Hamdy RC

11:10 am

200A
THRESHOLD LEVELS OF FGF-LIGANDS CONTROL DIFFERENCES IN CALVARIAL HEALING OF FRONTAL AND PARIETAL BONES
Presenter: Bjorn Behr, MD
Affiliation: Hagey Laboratory Stanford School of Medicine
Authors: Behr B, Panetta NJ, Longaker MT, Quarto N

11:20 am

201A
TRANSCRIPTIONAL ACTIVATION OF DEL1 IN CHONDROCYTES
Presenter: Zhen Wang, MD
Affiliation: Stanford University
Authors: Wang Z, Tran MC, Longaker MT, Yang GP

11:30 am

202A
AUTOLOGOUS CRANIAL PARTICULATE BONE GRAFT FOR ONLAY CRANIOPLASTY: AN EXPERIMENTAL EVALUATION
Presenter: Ann M. Kulungowski, MD
Affiliation: Childrens Hospital Boston
Authors: Kulungowski AM, Clune JE, Mulliken JB, Glowacki J, Rogers GF, Arany PR, Kulungowski AM, Greene AK

11:40 am

203A
BMP-2-MEDIATED REGENERATION OF LARGE SCALE CRANIAL DEFECTS IN THE CANINE: AN EXAMINATION OF DIFFERENT CARRIERS
Presenter: Christopher R. Kinsella Jr., MD
Affiliation: University of Pittsburgh Medical Center
Authors: Kinsella CR, Bykowski MB, Lin AY, Cray JJ, Lensie EL, Mooney MP, Cooper GM, Losee JE
10:30 am - 12:00 pm

205B - 213B
Group B: Nerve
Moderator: Paul S. Cederna, MD, FACS
Co-Moderator: Brian Rinker, MD

10:30 am

205B
A MODEL OF REVERSIBLE PARALYSIS FOR THE EVALUATION OF A NOVEL AUTONOMOUS BRAIN-BODY INTERFACE
Presenter: Keiko Hasegawa, MD
Affiliation: Massachusetts General Hospital

10:40 am

206B
LOCATING THE CERVICAL MOTOR BRANCH OF THE FACIAL NERVE: AN ANATOMICAL STUDY
Presenter: Saeed Chowdhry, MD
Affiliation: University of Louisville
Authors: Chowdhry S, Cooperman RD, Yoder EM

10:50 am

207B
IS NERVE GROWTH WITHIN A CONDUIT ENHANCED BY THE PRESENCE OF ADIPOCYTE-DERIVED STEM CELLS?
Presenter: Joel Wietfeldt, MD
Affiliation: Southern Illinois University School of Medicine
Authors: Wietfeldt B, Bueno Jr RA, Chambers CB, Moore BE, Neumeister MW

11:00 am

208B
AVOIDING THE MEDIAL BRACHIAL CUTANEOUS NERVE IN BRACHIOPLASTY: AN ANATOMICAL STUDY
Presenter: Todd Lefkowitz, MD
Affiliation: University of Louisville
Authors: Chowdhry S, Elston JB, Lefkowitz T

11:10 am

209B
HYBRID ELECTRICAL AND CHEMICAL STIMULATION OF NERVE VIA IN-SITU HARVESTING OF NEUROTRANSMITTERS
Presenter: Samuel Lin, MD
Affiliation: Beth Israel Deaconess Medical Center Harvard Medical School
Authors: Lin S, Song YA, Rabie AN, Sarpekar R, Lin SJ, Han J
11:20 am

210B

INFLUENCE OF PEDOT AND MYOBLASTS ON NEUROMA FORMATION
Presenter: Benjamin Wei, MD
Affiliation: University of Michigan
Authors: Wei B, Urbanchek MG, Baghmanli Z, Kuzon WM, Cederna PS

11:30 am

211B

PROCESSED ALLOGRAFT VERSUS COLD-PRESERVATION ON NERVE REGENERATION: A COMPARISON STUDY
Presenter: Peter J. Johnson, PhD
Affiliation: Washington University School of Medicine

11:40 am

212B

VISUALIZATION OF PERIPHERAL NERVE REGENERATION IN A NOVEL TRANSGENIC RAT USING COMMON SURGICAL PARADIGMS
Presenter: Rahul Kasukurthi, MD
Affiliation: Washington University School of Medicine

11:50 am

213B

TRIGEMINAL GANGLION RESPONSE PROPERTIES: A MODEL FOR EVALUATING SENSORY NERVE REGENERATION IN THE RAT
Presenter: Rami R. Zanoun, BS
Affiliation: University of Pittsburgh School of Medicine
Authors: Zanoun RR, Afrooz PN, Washington KM, Kwagyir-Afful EE, Simons DJ, Lee WP

10:30 am - 12:00 pm

214C - 222C

Group C: Miscellaneous
Moderator: Scott L. Hansen, MD
Co-Moderator: Bradon J. Wilhelmi, MD

10:30 am

214C

VISCOELASTIC PROPERTIES OF CROSSLINKED HYALURONIC ACID DERMA FILLERS AND IMPACT ON DISTRIBUTION IN THE DERMIS
Presenter: Johannes Reinmueller, MD
Affiliation: Klinik am Sonnenberg
Authors: Reinmueller J

10:40 am

215C

MANAGEMENT OF SKIN GRAFTS USING THE VACUUM-ASSISTED CLOSURE DEVICE: THE EFFECT OF VARIED PRESSURE ON SUCCESSFUL INCORPORATION
Presenter: Maristella S. Evangelista, MD MBA
Affiliation: University of California at Irvine
Authors: Evangelista MS, Kim EK, Evans GR, Wirth GA
216C
THE USE OF ALLODERM VERSUS FLEX HD IN IMPLANT BASED BREAST RECONSTRUCTION
Presenter: Otway Louie, MD
Affiliation: University of Washington
Authors: Leo K, Louie O, Neligan PC, Said H, Mathes DW

217C
THE INCIDENCE OF POSTOPERATIVE NAUSEA AND VOMITING IN PATIENTS UNDERGOING DEEP INFERIOR EPIGASTRIC ARTERY PERFORATOR FLAP BREAST RECONSTRUCTION: HIGHLIGHTING AN UNMET NEED
Presenter: Basak Basdag, MS
Affiliation: Johns Hopkins School of Medicine
Authors: Basdag B, Shridharani SM, Gilson MM, Jacobs IK, Magarakis M, Rosson GD

218C
PHARMACOLOGICAL THERAPY FOR SALVAGE OF EX-VIVO ISCHEMIC HUMAN SKELETAL MUSCLE FROM ISCHEMIA/REPERFUSION (I/R) INJURY
Presenter: Andreas Naparos, MD
Affiliation: The Hospital for Sick Children
Authors: Naparos A, McAllister SE, Cahoon NJ, Ashrafpour H, Huang N, Hofer SO, Zhong T, Lipa JE, Neligan PC

219C
FUNCTIONS OF THE ER CHAPERONE CALRETTICULIN IN DIABETIC WOUND REPAIR
Presenter: Fares Samra, BA
Affiliation: New York University School of Medicine
Authors: Samra F, Naylor SM, Gorovets D, Pavlides S, Greives MR, Murphy-Ullrich J, Levine JP, Gold LI, Warren SM

220C
TOPICAL DELIVERY OF DEFEROXAMINE PREVENTS ULCER FORMATION AND ENHANCE WOUND HEALING IN DIABETIC ANIMALS
Presenter: Evgenios Neofytou, MD
Affiliation: Stanford University
Authors: Neofytou E, Rajadas J, Galvez MG, Gurtner GC

221C
THE EFFECTS OF HYPERBARIC OXYGEN THERAPY ON MITOCHONDRIAL MANGANESE SUPEROXIDE DISMUTASE EXPRESSION IN ISCHEMIC RAT SKIN
Presenter: Evan Tammel, MD
Affiliation: University of South Florida
Authors: Tammel E, Moor A, Gould LJ
11:50 am

222C
A NOVEL OXYGEN-BINDING DELIVERY PROTEIN ENHANCES LOCAL OXYGENATION OF ISCHEMIC SKIN
Presenter: Michael Sorkin, MD
Affiliation: Stanford University
Authors: Sorkin M, Wong VW, Glotzbach JP, Rustad KC, Major MR, Longaker MT, Gurtner GC

Award Eligibility: Shenaq

12:00 - 1:00 pm

Award Announcements & Adjourn