Thursday, May 2, 2013

6:30 am - 5:00 pm  Registration

7:00 - 8:00 am  Continental Breakfast

8:00 - 10:30 am  Local Program Session 1
Moderator: Jim Bradley

10:30 - 11:00 am  Coffee with Exhibitors

11:00 am - 12:00 pm  Local Program Session 2
Moderator: Jim Bradley

12:00 - 12:15 pm  Members’ Photograph

12:30 - 2:00 pm  Lunch - Non-Members
Lunch & Business Meeting - Members only

2:00 - 3:00 pm  Panel 1: Past Chairs’ Panel: Innovations in Our Subspecialties
Moderator: TBD
Co-Moderator: TBD
Panelists: TBD

3:00 – 3:30 pm  Coffee with Exhibitors

3:30 pm  Session 1 Best Papers
Moderator: TBD
Co-Moderator: TBD

1  TRACHEAL ALLOTRANSPLANTATION AND PREFABRICATION FOR LONG TRACHEAL STENOSIS WITH WITHDRAWAL OF IMMUNOSUPPRESSION. FROM BED TO BENCH
Presenter: Margot Den Hondt, MD
Affiliation: UZ Leuven
Co-Authors: Vranckx JJ; Delaere P

3:40 pm  2
RESIDENT INVOLVEMENT AFFECTS PLASTIC SURGERY OUTCOMES: AN ANALYSIS OF 10,356 PATIENTS FROM THE NSQIP DATABASE
Presenter: Sumanas W Jordan, MD
Affiliation: Northwestern University Feinberg School of Medicine

3 ATP HYDROLYSIS REDUCES NEUTROPHIL INFILTRATION AND NECROSIS IN PARTIAL-THICKNESS SCALD BURNS IN MICE
Presenter: Sara De La Rosa, BS
Affiliation: University of Michigan
Co-Authors: Bayliss J; Peterson JR; Eboda ON; Lisiecki JL; Rinkinen JR; Xi C; Su GL; Cederna PS; Wang SC; Levi B

4 MULTIPLE REGENERATIVE PERIPHERAL NERVE INTERFACES (RPNIS) PRODUCE INDEPENDENT FUNCTIONS WHEN NEUROTIZED WITH TRANSECTED AND SPLIT NERVE
Presenter: Edward P Washabaugh IV, Student
Affiliation: University of Michigan
Co-Authors: Langhals NB; Kung TA; Moon JD; Cederna PS; Urbanchek MG

5 NEURAL CREST TRANSCRIPTOME SCREEN IDENTIFIES NOVEL GENETIC REGULATORS IN CRANIOFACIAL DEVELOPMENT
Presenter: Yawei Kong, PhD
Affiliation: Massachusetts General Hospital Harvard Medical School
Co-Authors: Grimaldi M; Liao EC

6 HIGH-FIDELITY TISSUE ENGINEERING OF PATIENT-SPECIFIC AURICLES FOR RECONSTRUCTION OF PEDIATRIC MICROTIA: LONG-TERM RESULTS
Presenter: Alyssa J Reiffel, MD
Affiliation: Weill Cornell Medical College
Co-Authors: Brown BN; Hernandez KA; Perez JL; Campbell R; Boyko T; Zhou S; Bonassar LJ; Spector JA

7 IMAGING WITH INDOCYANINE GREEN-LOADED MONOCYTES FOR DIFFERENTIATION OF CUTANEOUS INFLAMMATORY STATES IN A MOUSE MODEL
Presenter: Joani M Christensen, MD
Affiliation: Johns Hopkins School of Medicine
Co-Authors: Chen Y; Brat GA; Buretta KJ; Cooney DS; Brandacher G; Johnson KE; Lee WP; Li X; Sacks JM

8 SILENCE THE RAGE: TARGETED INHIBITION OF THE RECEPTOR FOR ADVANCED GLYCIDATED ENDPRODUCTS (RAGE) RESTORES REGENERATIVE FUNCTION IN DIABETES
Presenter: Stelios C Wilson, BA
Affiliation: Predoctoral Research Fellow
Co-Authors: Lalezarzadeh F; Soares MA; Lotfi P; Ham MJ; OJO CO; Sartor RA; Saadeh PB; Ceradini DJ
9
CONDITIONAL NEURAL CREST CELL ABLATION TO INTERROGATE CRANIOFACIAL REGENERATION IN VERTEBRATE MODEL
Presenter: Michael Grimaldi, Student
Affiliation: Massachusetts General Hospital Harvard Medical School
Co-Authors: Grimaldi M; Liao EC

5:00 pm – 6:00 pm
Session 2 Best Papers
Moderator: TBD
Co-Moderator: TBD

10
ARE POSTOPERATIVE ANTIBIOTICS FOR IMMEDIATE BREAST RECONSTRUCTION NECESSARY? RESULTS OF A PROSPECTIVE RANDOMIZED CLINICAL TRIAL
Presenter: Brett T Phillips, MD
Affiliation: Stony Brook University Medical Center
Co-Authors: Fourman MS; Dagum AB; Huston TL; Ganz JC; Khan SU; Bui DT

5:10 pm
11
EVALUATING BONY OSTEOSYNTHESIS AND PAIN AFTER RIGID STERNAL FIXATION VERSUS TRADITIONAL WIRE CLOSURE IN HIGH-RISK STERNOTOMY PATIENTS RESULTS OF A PROSPECTIVE, RANDOMIZED, MULTICENTER, INTERNATIONAL TRIAL
Presenter: Michael S Wong, MD
Affiliation: University of California Davis
Co-Authors: Lehmann S; Zehr K; DeGuzman BJ; Aklog L; Garrett HE; MacMahon H; Hatcher BM; Raman J

5:20 pm
12
DIET-INDUCED OBESITY IMPAIRS LYMPHATIC TRANSPORT AND FUNCTION
Presenter: Evan S Weitman, MD
Affiliation: Memorial Sloan Kettering Cancer Center
Co-Authors: Zampell JC; Elhadad S; Aschen S; Farias-Eisner G; Cuzzzone DA; Ghanta S; Albano N; Mehrara BJ

5:30 pm
13
PDE-5 INHIBITION IMPROVES SKIN FLAP VIABILITY IN RATS THAT ARE EXPOSED TO NICOTINE
Presenter: Ajul Shah, MD
Affiliation: Yale University
Co-Authors: Pfaff M; Wu W; Steinbacher D

5:40 pm
14
THE OSTEOINDUCTIVE EFFECTS OF A NOVEL OXYSTEROL ON RABBIT BONE MARROW STROMAL CELLS
Presenter: Reza Jarrahy, MD
Affiliation: UCLA REBAR Lab
Co-Authors: Li A; Hokugo A; Sorice S; Buck A; Zuk P

5:50 pm
15
SEVERE INFECTIOUS COMPLICATIONS FOLLOWING FRONTAL SINUS FRACTURE: THE IMPACT OF OPERATIVE DELAY AND PERI-OPERATIVE ANTIBIOTIC USE
Presenter: Justin L Bellamy, BS
Friday, May 3, 2013

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

8:30 – 10:00 am  Session 3 Best Papers
Moderator: TBD
Co-Moderator: TBD

8:30 am  16
COMPARISON OF FREE FIBULAR FLAPS TO REAMER-IRRIGATOR-ASPIRATOR (RIA) SYSTEM FOR RECONSTRUCTION OF CRITICAL SIZED PORCINE MANDIBULAR DEFECTS
Presenter: Raja Mohan, MD
Affiliation: Johns Hopkins University and University of Maryland
Co-Authors: Brown EN; Mundinger GS; Kelamis JA; Bojovic B; Chrsity MR; Dorafshar AH; Rodriguez ED

8:40 am  17
THE MEDIAL GASTROCNEMIUS FLAP: IS IT A VIABLE OPTION FOR FREE MUSCLE TRANSFER TO RESTORE ELBOW FLEXION?
Presenter: Steven H Bailey, MD
Affiliation: UT Southwestern Medical Center
Co-Authors: Ramanadham S; Cheng J

8:50 am  18
NOTCH3 KNOCKDOWN IN HEMANGIOMA STEM CELLS ALTERS HEMANGIOMA FORMATION IN A MURINE MODEL
Presenter: Alvin Wong
Affiliation: Columbia University
Co-Authors: Thirumoorthi A; Andrews J; Hardy K; England R; Shawber CJ; Kitajewski J; Wu JK

9:00 am  19
P21 AS A REGULATOR OF LYMPHANGIOGENESIS IN WOUND HEALING AND INFLAMMATION
Presenter: Gina T Farias-Eisner,
Affiliation: Memorial Sloan Kettering Cancer Center
Co-Authors: Aschen SZ; Weitman ES; Cuzzone DA; Albano NJ; Ghanta S; Mehrara BJ

9:10 am  20
A NOVEL TRANSGENIC LINE WITH IRF6 DRIVING EXPRESSION OF REPORTER
Presenter: Lisa Gferer, MD
Affiliation: Massachusetts General Hospital
Co-Authors: Kamel G; Liao EC

9:20 am  21
FUNCTIONAL ANALYSIS OF WNT SIGNALING MODULATORS WNT9A, FRZB AND FZD7A IN CRANIOFACIAL CONVERGENCE AND EXTENSION MORPHOGENESIS
9:30 am

22  
FIBROMODULIN REPROGRAMMED CELLS FOR BONE AND SKELETAL MUSCLE REGENERATION  
Presenter: Zhong Zheng, PhD  
Affiliation: University of California Los Angeles Los Angeles  
Co-Authors: Jian J; Zhang X; Velasco O; Chung G; Hourfar A; Zhang K; Lee K; Ting K; Soo C

9:40 am

23  
THERAPEUTIC TARGETING OF PUMA OVEREXPRESSION MITIGATES CHRONIC RADIATION INJURY  
Presenter: Philip Lofti, MD  
Affiliation: NYU School of Medicine  
Co-Authors: Low YC; Soares M; Ham MJ; Wilson SC; Lalezarzadeh F; Ojo CO; Sartor RA; Levine JP; Saadeh PB; Ceradini DJ

9:50 am

24  
EX-VIVO ASSEMBLY AND TRANSPLANTATION OF A STEM CELL-DERIVED HYBRID GRAFT USING THE LGR6+ EPITHELIAL STEM CELL ON COMMON ACCELLULAR MATRICES FOR TREATMENT OF FULL THICKNESS SOFT TISSUE WOUNDS  
Presenter: Denver M Lough, MD, PhD  
Affiliation: Johns Hopkins  
Co-Authors: Cooney DS; Mendenhall SD; Yang M; Reichensperger JD; Cox LA; Cosenza NM; Wetter N; Harrison CE; Neumeister MW

10:00 – 10:30 am Coffee with Exhibitors

10:30 – 11:30 am  
Session 4 Group A: Miscellaneous  
Moderator: TBD  
Co-Moderator: TBD

10:30 am

25  
CRANIAL DISTRACTION OSTEGENESIS ON SYNDROMIC CRANIOSYNOSTOSIS: LONG-TERM FOLLOW-UP AND EFFECT ON POSTOPERATIVE CRANIAL GROWTH  
Presenter: Kazuaki Yamaguchi, MD  
Affiliation: Osaka City General Hospital  
Co-Authors: Imai KI; Fujimoto TF; Takahashi MT; Maruyama YM

10:40 am

26  
ASSESSMENT OF SIGNALING PATHWAYS TO ACTIVATE ADIPOSE-DERIVED STEM/STROMAL CELLS (ASCs) AFTER ADIPOSE TISSUE INJURY: POSSIBLE THERAPEUTIC TOOLS FOR ADIPOGENESIS AND ANGIOGENESIS  
Presenter: Shinichiro Kuno, Graduate Student  
Affiliation: Tokyo University  
Co-Authors: Doi K; Mineda K; Kinoshita K; Kato H; Yoshimura K

10:50 am

27  
PREVENTION OF CAPSULAR CONTRACTURE WITH PHOTOCHEMICAL TISSUE PASSIVATION  
Presenter: Justin R Fernandes, MD
28 NOVEL POINT OF CARE IMAGING METHODOLOGY TO DETECT HETEROTOPIC OSSIFICATION
Presenter: Benjamin Levi, MD
Affiliation: University of Michigan/Stanford University
Co-Authors: Peterson J; De La Rosa S; Okabare P; Cilwa K; Oluwatobi E; Morris M; Kozloff K; Cederna PS; Buchman SR; Wang SC

29 LONG-TERM FOLLOW UP OF INTERPOSITIONAL NERVE GRAFTING OF THE PROSTATIC PLEXUS AFTER OPEN PROSTATECTOMY
Presenter: Paul S Cederna,
Affiliation: University of Michigan
Co-Authors: Waljee JF; Curtin CM; Wei JT; Montie JE; Kung TA

30 BACTERICIDAL SURGICAL DRAIN DEVELOPMENT
Presenter: Andrew D Navarrete, MD
Affiliation: University of Wisconsin
Co-Authors: Tighe DR; Hoegh KN; Platner LC; Powers TA; Marshall TS; Tyler ME; Poore SO

31 INCREASED CAMP INHIBITS BASAL AND PDGF-INDUCED CELL MIGRATION IN DUPUYTREN’S CONTRACTURE-DERIVED FIBROBLASTS
Presenter: Latha Satish, PhD
Affiliation: University of Pittsburgh
Co-Authors: Liu F; Kathju S

32 SENTINEL LYMPH NODE BIOPSY FOR MELANOMA: IS THERE A CORRELATION BETWEEN PREOPERATIVE LYMPHATIC MAPPING WITH SURGICAL LYMPH NODES HARVESTED?
Presenter: Kristen A Hudak, MD
Affiliation: Medical College of Wisconsin
Co-Authors: Hudak KE; Dzwierzynski WW

33 RADIOGRAPHIC EVALUATION OF LIGAMENT INJURIES ASSOCIATED WITH DISTAL RADIUS FRACTURES
Presenter: Ronit Wollstein
Affiliation: University of Pittsburgh
Co-Authors: Shakir S; Gilula L; Naran S

34 PHYSIOLOGIC CHANGES WITH ABDOMINAL WALL RECONSTRUCTION IN A PORCINE MODEL OF ABDOMINAL COMPARTMENT SYNDROME
Presenter: Howard D Wang,
Affiliation: Johns Hopkins University and University of Maryland
NEW DEVELOPMENTS IN TENDON REPAIRS: THE MODIFIED ADELAIDE REPAIR AND THE KNOTLESS BARBED SUTURE TENDON REPAIR
Presenter: Tim S Peltz, BS, MASc candidate
Affiliation: Surgical Research Laboratories Prince of Wales Hospital University of New South Wales
Co-Authors: Haddad RH; Scougall PS; Bertollo NB; Pelletier MP; Oliver RO; Gianoutsos MG; Walsh WW

THE EFFECT OF GENDER ON THE MOLECULAR PROFILE OF TENDON HEALING FROM LACERATION
Presenter: Peter J Taub, MD, FACS, FAAP
Affiliation: Mount Sinai Medical Center
Co-Authors: George N; Flatow EL; Andarawis-Puri N

RELATIONSHIP BETWEEN MAST CELLS AND FIBROBLASTS IN PERI-PROSTHETIC CAPSULE FORMATION
Presenter: Stephanie D Malliaris, MD
Affiliation: New York Presbyterian Hospital
Co-Authors: Brazin J; Groh B; Otterburn DM; Hidalgo D; Mehrara BJ; Silver RB; Spector JA

HYPERSPECTRAL IMAGING AS A METHOD FOR EARLY EVALUATION OF PERFUSION CHANGES IN IRRADIATED SKIN
Presenter: Michael S Chin, MD
Affiliation: University of Massachusetts Medical School
Co-Authors: Connor NM; Freniere BB; Saleeby JH; Lo YC; Fitzgerald TJ; Lalikos JF

IN VITRO EVALUATION OF P. AERUGINOSA DISRUPTION FROM HARDWARE MATERIALS USING NEGATIVE PRESSURE WOUND THERAPY WITH INSTILLATION (NPWTI) AND SELECT TOPICAL SOLUTIONS
Presenter: Chris Lessing, PhD
Affiliation: KCI
Co-Authors: Rycerz AM

DIFFERENTIAL INFLAMMATORY SIGNALING AND SYNTHESIS OF COLLAGEN AND FIBRONECTIN BY ADIPOSE STEM CELLS AND FIBROBLASTS OF DIFFERENT PHENOTYPES RELEVANT TO OUTCOME OF CELL-BASED WOUND THERAPIES
Presenter: Tianbing Yang, PhD
Affiliation: University of Pittsburgh
Co-Authors: Cetin-Ferra S; Tano Z; Barsic M; Dohar JE; Hebda PA
CHRYSIN (5,7-DIHYDROXYFLAVONE) ACCELERATES DIFFERENTIATION OF PRIMARY HUMAN KERATINOCYTES IN VITRO
Presenter: Taylor J Jaraczewski,
Affiliation: Univ of Wisconsin School of Medicine & Public Health
Co-Authors: Pathak PR; Roy M; King TW

11:20 am

42
VAPOCOOLANT SPRAY AS AN AJDUNCT TO REDUCE PAIN IN COSMETIC FACIAL INJECTIONS: A PROSPECTIVE STUDY USING A RANDOMIZED SPLIT-FACE MODEL
Presenter: Shahrooz S Kelishadi, MD
Affiliation: University of Louisville
Co-Authors: Tutela JP; Rao AJ; Medina DC; Brooks RM; Chowdhry S; Wilhelmi BJ

11:30 am – 12:00 pm

Session 5 Best Papers
Moderator: TBD
Co-Moderator: TBD

43 TBD

44 TBD

45 TBD

12:00 – 1:30 pm
Lunch

1:30 – 2:30 pm
Panel
Moderator: Peter J. Taub, MD
Panelists: TBD

2:30 – 4:00 pm
Session 6 Group A: Outcomes
Moderator: TBD
Co-Moderator: TBD

2:30 pm

46
A VALIDATED, RISK ASSESSMENT MODEL FOR PREDICTING NEED FOR SALVAGE FLAPS AFTER OPEN GROIN VASCULAR PROCEDURES
Presenter: John P Fischer, Resident
Affiliation: University of Pennsylvania
Co-Authors: Shang ES; Wingate NW; Wink JW; Nelson JN; Woo EW; Jackson BJ; Kovach, SJ; Kanchwala SK

2:40 pm

47
USE OF ACELLULAR DERMAL MATRIX INCREASES RISK FOR EXPANDER/IMPLANT LOSS IN BREAST RECONSTRUCTION: AN ANALYSIS OF THE TOPS DATABASE
Presenter: Christopher J Pannucci, MD, MS
Affiliation: University of Michigan
Co-Authors: Wilkins EG

2:50 pm

48
INCREASED INFECTION IN TOTAL EAR RECONSTRUCTION PATIENTS WITH PATENT EXTERNAL AUDITORY CANAL WARRANTS A PERIOPERATIVE TREATMENT PROTOCOL
Presenter: Andrew Vardanian, MD
Affiliation: UCLA
3:00 pm  

**49**  
TISSUE EXPANDER BREAST RECONSTRUCTIONS EXPERIENCE FEWER COMPLICATIONS WHEN SKIN FLAPS ARE ASSESSED WITH LASER FLUORESCENT ANGIOGRAPHY RATHER THAN CLINICAL JUDGEMENT ALONE  
Presenter: Patrick Garvey, MD  
Affiliation: UT MD Anderson Cancer Ctr.  
Co-Authors: Selber JC; Hobaugh CW; Zhang H; Butler CE; Baumann DP

3:10 pm  

**50**  
COMPARISON OF CLINICAL OUTCOMES AND PATIENT SATISFACTION IN IMMEDIATE SINGLE-STAGE VERSUS TWO-STAGE IMPLANT-BASED BREAST RECONSTRUCTION  
Presenter: Ingrid Ganske, MD  
Affiliation: Brigham and Women's Hospital  
Co-Authors: Susarla S; Helliwell L; Morris D; Eriksson E; Chun Y

3:20 pm  

**51**  
MAJOR SURGICAL AND RESPIRATORY COMPLICATIONS FOLLOWING COMPLEX ABDOMINAL WALL RECONSTRUCTION: AN ANALYSIS OF 1,102 HERNIA REPAIRS WITH COMPONENT SEPARATION FROM NSQIP DATASET  
Presenter: Jonas A Nelson, Resident  
Affiliation: University of Pennsylvania  
Co-Authors: Nelson JN; Kovach SK

3:30 pm  

**52**  
PEDIATRIC MANDIBLE FRACTURES: DEMOGRAPHICS, TREATMENT, OUTCOMES, AND AN ASSESSMENT OF GROWTH AND DEVELOPMENT  
Presenter: Darren M Smith, MD  
Affiliation: University of Pittsburgh  
Co-Authors: Naran S; Cray J; Bykowski M; Shakir S; Rottgers S; Losee JE

3:40 pm  

**53**  
EFFECTS ON ABDOMINAL WALL DYNAMICS AFTER VENTRAL HERNIA REPAIR BY COMPONENT SEPARATION  
Presenter: Jeffrey H Kozlow, MD  
Affiliation: University of Michigan Medical School  
Co-Authors: Lisiecki JL; Zhang PC; Rinkinen JR; Terjimanian MN; Brownley RC; Holcombe SA; Wang SC; Kuzon WM; Levi B

3:50 pm  

**54**  
DO POSTOPERATIVE COMPLICATIONS PREDICT REGRET TO UNDERGO MICROSURGICAL BREAST RECONSTRUCTION?  
Presenter: Toni Zhong, MD, MHS  
Affiliation: university health network  
Co-Authors: Bagher S; Zeng D, Metacalf K, Hofer S

2:30 – 4:00 pm  
**Session 6 Group B: Craniofacial/Bone**  
Moderator: TBD  
Co-Moderator: TBD

2:30 pm  

**55**  
DENTAL PULP STEM CELL CLEFT GENES DIFFERENTIAL EXPRESSION AND DEVELOPMENTAL INFLUENCE DURING PALATOGENESIS  
Presenter: Ginger C Slack, BS
2:40 pm

56
FURTHER DEFINING THE ROLE OF RANK/RANKL/OPG AXIS IN CRANIAL SUTURE BIOLOGY.
Presenter: Maureen Beederman, Medical Student
Affiliation: University of Chicago
Co-Authors: Lee JC; Rajan M; Kim S; He TC; Reid RR

2:50 pm

57
PUTATIVE GENES DOWNSTREAM OF FGFR2 CONTRIBUTING TO CORONAL SUTURE SYNOSTOSIS IN A C342Y CROUZON MURINE MODEL
Presenter: Samintharaj Kumar, MBBS BDS MRCS MFDSRCS MFDRCSI
Affiliation: University College London Institute of Child Health
Co-Authors: Peskett E; Britto JA; Pauws E

3:00 pm

58
COMBINED ACTION OF AMIFOSTINE WITH DEFEROXAMINE RESTORES METRICS OF CALLUS MINERALIZATION IN A MODEL OF PATHOLOGIC FRACTURE HEALING AFTER RADIOTherapy
Presenter: Christian Figueredo, Medical Student
Affiliation: University of Michigan
Co-Authors: Henry M; Figueredo C; Ahsan S; Deshpande SS; Felice PA; Nelson NS; Buchman SR

3:10 pm

59
DEVELOPMENT OF AN ELASTIC BIODEGRADABLE NANOCOMPOSITE DEVICE FOR TISSUE DISTRACTION
Presenter: Nicole Levi-Polyachenko, PhD
Affiliation: Wake Forest Baptist Health
Co-Authors: Rosenbalm T; Wagner W; David L; Sanger C; Morykwas M; Argenta L; Wood B

3:20 pm

60
CALVARIAL BONE HEALING IN THE ABSENCE OF TLR2 AND TLR4
Presenter: Melissa A Shaw, BS
Affiliation: University of Pittsburgh
Co-Authors: Wang D; Gilbert JR; Kubala AA; Shakir S; Losee JE; Billiar TR; Cooper GM

3:30 pm

61
A NOVEL COMBINATION OF AMIFOSTINE PROPHYLAXIS AND ANGIOGENIC DEFEROXAMINE PROTECTS AND RESTORES BIOMECHANICAL PROPERTIES OF BONE IN PATHOLOGIC FRACTURE HEALING AFTER RADIOTherapy
Presenter: Salman Ahsan, Student
Affiliation: University of Michigan
Co-Authors: Donneys A; Deshpande SS; Felice PA; Figueredo C; Henry M; Page E; Buchman SR

33:40 pm

62
BIOPATTERNED TGFB1 HEALS CALVARIAL DEFECTS IN A JUVENILE RABBIT CORONAL STRIP SUTURECTOMY MODEL
Presenter: Sameer Shakir, BS
Affiliation: University of Pittsburgh
Co-Authors: McIsaac ZM; Naran S; Gilbert JR; Cray JJ; Wang D; Kubala AA; Losee JE; Cooper GM
3:50 pm  63  PARATHYROID HORMONE REVERSES RADIATION INDUCED HYPOVASCULARITY IN A MURINE MODEL OF DISTRACTION OSTEOGENESIS
Presenter: Stephen Y Kang, MD
Affiliation: University of Michigan
Co-Authors: Deshpande SS; Donneys A; Nelson NS; Rodriguez J; Felice PA; Chepeha DB; Buchman SR

2:30 – 4:00 pm  Session 6 Group C: Nerve
Moderator: TBD
Co-Moderator: TBD

2:30 pm  64  VON FREY MEASUREMENTS DISCRIMINATE BETWEEN SITE SENSATION
Presenter: Andrej Nedic, BSE
Affiliation: University of Michigan
Co-Authors: Moon JD; Kung TA; Langhals NB; Cederna PS; Urbanchek MG

2:40 pm  65  A NOVEL IMAGING TECHNIQUE FOR EVALUATING AXONAL REGENERATION AFTER PERIPHERAL NERVE TRANSECTION IN A RODENT MODEL
Presenter: Joanna H Ng, MD
Affiliation: Massachusetts General Hospital
Co-Authors: Jung Y; Keating CP; Senthil-Kumar P; Meppelink AM; Randolph MA; Evans CL; Winograd JM

2:50 pm  66  C7 NERVE ROOT SENSORY MAPPING: A FUNCTIONAL MRI INVESTIGATION
Presenter: Jacques A Machol IV, MD
Affiliation: Medical College of Wisconsin
Co-Authors: Li R; Hettinger PC; Flugstad NA; Yan JG; Matloub HS; Hyde JS

3:00 pm  67  RESTORATION OF PERIPHERAL NERVE AFTER ACUTE INJURY USING EPINEURAL SHEATH CONDUIT ENHANCED WITH BONE MARROW STROMAL CELLS IN DIABETIC CONDITIONS
Presenter: Gregorcz J. Kwiecien, MD
Affiliation: Cleveland Clinic
Co-Authors: Lukaszuk M; Uygur S; Madajka M; Cwykiel J; Siemionow M

3:10 pm  68  IMPLANTED ELECTRODE WITH CONDUCTIVE POLYMER AUGMENTS SIGNAL TRANSDUCTION FROM THE REGENERATIVE PERIPHERAL NERVE INTERFACE
Presenter: Theodore A Kung, Resident
Affiliation: University of Michigan
Co-Authors: Langhals NB; Moon JD; Qu J; Martin DC; Cederna PS; Urbanchek MG

3:20 pm  69  NEUREGULIN-1 / ERBB2 SIGNALING REGULATES EARLY AXONAL REGENERATION FOLLOWING PERIPHERAL NERVE INJURY
Presenter: James M Hendry, MD
Affiliation: University of Toronto
Co-Authors: Placheta E; Gordon T; Borschel GH
3:30 pm

70
ENHANCEMENT OF CROSS-FACE NERVE GRAFTS WITH END-TO-SIDE SENSORY NERVE PROTECTION
Presenter: Maria C Alvarez Veronesi, MC
Affiliation: University of Toronto
Co-Authors: Placheta E; Lafontaine CA; Liu E; Wood MD; Gordon T; Frey M; Borschel GH

3:40 pm

71
OPTICAL CONTROL OF PERIPHERAL NERVE SIGNAL TRANSMISSION
Presenter: Sahil K Kapur, MD
Affiliation: UNIVERSITY OF WISCONSIN MADISON
Co-Authors: Richner T; Williams JC; Poore SO

3:50 pm

72
SIGNAL TRANSDUCTION FROM SKELETAL MUSCLE VIA THIN-FILM POLYIMIDE ELECTRODE ARRAYS
Presenter: Nicholas B Langhals, PhD
Affiliation: University of Michigan
Co-Authors: Larson JV; Urbanchek MG; Cederna PS; Kung TA

4:00 – 4:30 pm
Coffee with Exhibitors and Poster Presentations

4:30 – 6:00 pm
Session 7 Group A: Developmental Biology
Moderator: TBD
Co-Moderator: TBD

4:30 pm

73
PROPRANOLOL ACTION IS MEDIATED VIA THE BETA-2 ADRENERGIC RECEPTOR IN HEMANGIOMA STEM CELLS
Presenter: Ryan W England, Student
Affiliation: Columbia University
Co-Authors: Banerjee D; Shawber CJ; Kitajewski A; Kitajewski J; Wu JK

4:40 pm

74
NON-CANONICAL TGF\(\beta\) SIGNALING REGULATES TONGUE DEVELOPMENT
Presenter: Akiko Suzuki, DDS, PhD
Affiliation: University of Southern California
Co-Authors: Iwata J; Sanchez-Lara PA; Urata M; Chai Y

4:50 pm

75
ROLE OF EPITHELIUM-MESENCHYME INTERACTIONS DURING SOFT PALATE DEVELOPMENT
Presenter: Junichi Iwata, DDS, PhD
Affiliation: University of Southern California
Co-Authors: Suzuki A; Sanchez-Lara PA; Urata M; Chai Y

5:00 pm

76
A NOVEL FETAL ECM PROVIDES A NICHE FOR STEM CELL RECRUITMENT AND TISSUE REGENERATION
Presenter: Robert C Rennert, MD
Affiliation: Stanford University
Co-Authors: Sorkin M; Garg RK; Januszyk M; Gurtner GC

5:10 pm

77
APPLICATION OF ZEBRAFISH NEURAL CREST CULTURE ASSAYS TO ELUCIDATE STEM CELL PROPERTIES
IL-6 AS A SERUM MARKER FOR LYMPHEDEMA
Presenter: Daniel Cuzzzone, MD
Affiliation: Memorial Sloan Kettering Cancer Center
Co-Authors: Zampell JC; Weitman E; Aschen S; Farias-Eisner G; Ghanta S; Albano N; Mehrara BJ

EXAMINING THE ROLE OF MACROPHAGES IN PROLIFERATING INFANTILE HEMANGIOMAS
Presenter: Alvin Wong
Affiliation: Columbia University
Co-Authors: Hardy K; England R; Shawber CJ; Kitajewski J; Wu JK

PROPRANOLOL EFFECTS ON MESENCHYMAL STEM CELLS ARE NOT MEDIATED VIA INHIBITION OF MAPK
Presenter: Alex Kitajewski, Student
Affiliation: Columbia University
Co-Authors: Kitajewski A; Banerjee D; Shawber CJ; Kitajewski J; Wu JK

COMPONENTS SEPARATION FOR ABDOMINAL WALL RECONSTRUCTION: THE PITTSBURGH EXPERIENCE, A REVIEW OF 311 CONSECUTIVE SINGLE SURGEON CASES.
Presenter: Sanjay Naran, MD
Affiliation: University of Pittsburgh
Co-Authors: Emilife P; Quigley M; Shakir S; Cray Jr J; Russavage J; Nguyen V

EXOGENOUS ADMINISTRATION OF RHBMP-7 DURING DISTRACTION OSTEOGENESIS ON TRABECULAR BONE FORMATION; A DOSE-RESPONSE STUDY
Presenter: Ali Izadpanah, MD
Affiliation: McGill University
Co-Authors: Alsalmi L; Hamdy R; Lessard L

THE USE OF SMART SCAFFOLDS IN HEALING CRANIOFACIAL DEFECTS: PRELIMINARY IN VITRO STUDIES
Presenter: Akishige Hokugo, DDS, PhD
Affiliation: UCLA REBAR Lab
Co-Authors: Li A; Buck A; Nguyen P; Li J; Jarrahy R

COMPARING THE EFFICACY OF DEFEROXAMINE OR AMIFOSTINE PRE-TREATMENT IN THE PREVENTION OF OSTEORADIONECROSIS OF THE MURINE MANDIBLE
Presenter: Brendan J Alleyne, BS
85 AMIFOSTINE OFFERS PROTECTION OF OSTEOCYTE VIABILITY DURING FRACTURE HEALING AFTER RADIOThERAPY
Presenter: Joshua P Spiegel, Student
Affiliation: University of Michigan
Co-Authors: Donneys A; Sarhaddi D; Tchanque-Fossuo CN; Ahsan S; Deshpande SS; Buchman SR

86 DEFEROXAMINE INDUCES THE RESTORATION OF MINERALIZATION METRICS OF IRRADIATED BONE IN DISTRACTION OSTEOGENESIS
Presenter: Erin E Page, BS
Affiliation: University of Michigan School of Medicine
Co-Authors: Felice PA; Donneys A; Ahsan S; Deshpande SS; Perosky JE; Kozloff KM; Buchman SR

87 FACIAL INFILTRATING LIPOMATOSIS IS CAUSED BY PIK3CA ACTIVATING MUTATIONS
Presenter: Reid Maclellan, MD
Affiliation: Boston Childrens Hospital Harvard Medical School
Co-Authors: Greene AK; Luks VL; Mulliken JB; Warman ML; Warman ML; Kurek KC

88 STEM CELL THERAPY REMEDIATES MANDIBULAR VASCULOGENESIS FOLLOWING RADIATION AND DISTRACTION OSTEOGENESIS
Presenter: Sagar S Deshpande, BS
Affiliation: University of Michigan Medical School
Co-Authors: Donneys A; Gallagher KK; Tchanque-Fossuo CN; Felice PA; Sun HL; Krebsbach PH; Buchman SR

89 OUTCOMES IN CRANIOPLASTY - RISK FACTORS AND CHOICE OF RECONSTRUCTIVE MATERIAL
Presenter: Sashank K Reddy, MD, PhD
Affiliation: Johns Hopkins University
Co-Authors: Khalifian S; Flores J; Bellamy J; Borsuk D; Manson PN; Rodriguez E; Dorafshar AH

90 INFLUENCED CALVARIAL HEALING AFTER BONE COMPONENTS IMPLANTATION IN THE ABSENCE OF TLR2 AND TLR4
Presenter: Dan Wang, DMD
Affiliation: University of Pittsburgh
Co-Authors: Gilbert JR; Shakir S; Shaw MA; Kubala AA; Losee JE; Billiar TR; Cooper GM

4:30 – 6:00 pm Session 7 Group C: Tissue Engineering
Moderator: TBD
Co-Moderator: TBD
4:30 pm

91
A PROMISING CONCEPT OF ORGAN TISSUE ENGINEERING USING AUTOLOGOUS DECELLULARIZED MICROCIRCULATORY BEDS AS VASCULARIZED BIOSCAFFOLDS
Presenter: Lars H Evers, MD
Affiliation: Stanford University
Co-Authors: Liu W; Simons D; Sorkin M; Longaker MT; Gurtner GC

4:40 pm

92
DETERMINING THE IN VITRO AND IN VIVO IMMUNE RESPONSE TOWARDS DECELLULARIZED AND RECELLULARIZED PORCINE TRACHEAL ALLOGRAFTS FOR AIRWAY TRANSPLANTATION
Presenter: Siba Haykal, BSc, MD, Phd Candidate, Resident
Affiliation: University of Toronto
Co-Authors: Zhou Y; Marcus P; Salna M; Machuca T; Hofer SO; Waddell TK

4:50 pm

93
INJECTABLE GEL GRAFT FOR CRANIAL BONE DEFECT REPAIR
Presenter: Bo Han, PhD
Affiliation: University of Southern California
Co-Authors: Yang Z; Fang J; Nimni M; Tayag C; Urata M

5:00 pm

94
STROMAL CELL DERIVED FACTOR (SDF)-1 WITH BMP-2 AND TGF-B1 INDUCES SITE DIRECTED CELL HOMING, OSTEOGENIC AND CHONDROGENIC DIFFERENTIATION WITHOUT THE REQUIREMENT FOR CELL SEEDING
Presenter: Harvey Chim, MD
Affiliation: Case Western Reserve University
Co-Authors: Miller E; Gliniak C; Alsberg E

5:10 pm

95
THE EFFECT OF ADIPOSE DERIVED STEM CELLS AND PLATELET-RICH PLASMA FOR THE REPAIR OF THE CALVARIAL BONE DEFECT IN A MURINE MODEL
Presenter: Hiroshi Mizuno, MD
Affiliation: Juntendo University
Co-Authors: Tajima S; Tobita M; Orbay H; Hyakusoku H

5:20 pm

96
CONTROLLED REPAIR OF A RABBIT CRANIAL DEFECT BY SUSTAINED DELIVERY OF LOW-DOSE BONE MORPHOGENETIC PROTEIN-2 (BMP2) ENCAPSULATED IN PLGA MICROSPHERES
Presenter: Jason D Wink, BA
Affiliation: Perelman School of Medicine at the University of Pennsylvania
Co-Authors: Gerety PA; Sherif R; McGrath JL; Clarke NA; Nah HD; Taylor JA

5:30 pm

97
ENGINEERING NEO-TRACHEA WITH DE-EPITHELIZED CRYOPRESERVED TRACHEAL ALLOGRAFT SCAFFOLD
Presenter: Ning Zeng, MD
Affiliation: the University of Texas MD Anderson Cancer Center
5:40 pm

98
MICROSTRUCTURED COLLAGEN SCAFFOLDS FACILITATE DETERMINISTIC GUIDANCE OF CELLS DURING WOUND REPAIR
Presenter: Daniel Garcia,
Affiliation: Weill Cornell Medical College
Co-Authors: Reiffel AJ; Hernandez KA; Delnero P; Garcia D; Boyko T; Spector JA

5:50 pm

99
PHOTOCHEMICAL CROSSLINKING STABILIZES PROTEIN HYDROGELS FOR CARTILAGE REGENERATION
Presenter: Xing Zhao, MD
Affiliation: Massachusetts General Hospital and Harvard Medical School
Co-Authors: Omobono MA; Jang S; Randolph MA; Redmond RW; Gill TJ; Yaremchuk MJ

7:00 – 9:00 pm
Members Dinner

Saturday, May 4, 2013

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

8:30 – 10:30 am
Session 8 Group A: Outcomes
Moderator: TBD
Co-Moderator: TBD

8:30 am
100
BREAST RECONSTRUCTION OUTCOMES FOLLOWING NIPPLE-SPARING MASTECTOMY
Presenter: Amy S Colwell, MD
Affiliation: Harvard Medical School/ MA General Hospital
Co-Authors: Tessler O; Lin AM; Liao E; Winograd J; Cetrulo CL; Tang R; Smith BL; Austen WG

8:40 am
101
NIPPLE-AREOLAR COMPLEX NECROSIS AFTER NIPPLE SPARING MASTECTOMY WITH IMMEDIATE IMPLANT-BASED RECONSTRUCTION: RISK FACTORS AND THE SUCCESS OF CONSERVATIVE TREATMENT
Presenter: Kevin Small,
Affiliation: New York Presbyterian Hospital Weill Cornell
Co-Authors: Dent B; Talmor M

8:50 am
102
TRADITIONAL ABDOMINOPLASTY VS. PROGRESSIVE TENSION SUTURE (PTS) ABDOMINOPLASTY: A SINGLE CENTER, SINGLE SURGEON 6 YEAR RETROSPECTIVE REVIEW OF COMPLICATION RATES
Presenter: Cristina Dracea, MD
Affiliation: Long Island Plastic Surgical Group
Co-Authors: Alizadeh K
103 REVIEW OF OUTCOMES AFTER USE OF THE IMPLANTABLE COOK DOPPLER PROBE VERSUS THE SYNOVIS FLOW COUPLER FOR POST-OPERATIVE MONITORING OF FREE FLAP BREAST RECONSTRUCTION
Presenter: Grace Um,
Affiliation: University of Washington Medical Center
Co-Authors: Said HK; Colohan S; Neligan PC; Mathes DW

104 PREDICTORS OF POST-MASTECTOMY RECONSTRUCTION IN AN UNDERSERVED POPULATION
Presenter: Erik M Wolfsinkel, ScB
Affiliation: Baylor College of Medicine
Co-Authors: Lopez SN; Weathers WM; Qashqai SM; Wang T; Hilsenbeck SG; Rimawi MF; Heller L

105 IMPROVING OUTCOMES AND REDUCING MORBIDITY IN CONGENITAL MYELOMENINGOCELE DEFECTS: A COHORT COMPARISON STUDY BETWEEN MUSCLE FLAPS VERSUS ADIPOFASCIAL FLAPS WITH SUPPLEMENTAL DERMAL REGENERATIVE TEMPLATES
Presenter: Oluwaseun A Adetayo, MD
Affiliation: University of Pittsburgh
Co-Authors: Argenta A; MacIsaac Z; Grunwaldt LJ; Kumar AR

106 SUBMUCOUS CLEFT PALATE SPEECH OUTCOMES WORSE THAN CLEFT PALATE ONLY OUTCOMES DESPITE ELIMINATING SYNDROMES: A NOVEL COMPARISON GROUP UTILIZING AGE AND ANATOMY MATCHING
Presenter: Alexander Y Lin, MD
Affiliation: Saint Louis University School of Medicine
Co-Authors: Gildea TH; Shirnov R; Laurent L

107 INCREASED FLAP WEIGHT AND DECREASED PERFORATOR NUMBER PREDICTS FAT NECROSIS IN DIEP BREAST RECONSTRUCTION
Presenter: Carolyn L Mulvey, BS
Affiliation: Johns Hopkins University School of Medicine
Co-Authors: Cooney CM; Daily FF; Colantuoni E; Ogbuago OU; Cooney DS; Rad AN; Manahan MA; Rosson GD; Sacks JM

108 DOES SPECIALTY TRAINING MATTER?: A MULTIVARIATE REGRESSION ANALYSIS OF PANNICULECTOMIES PERFORMED BY PLASTIC AND NON-PLASTIC SURGEONS
Presenter: Lauren M Mioton, BS
Affiliation: Northwestern University Feinberg School of Medicine
Co-Authors: Buck II DW; Gart MS; Hanwright PJ; Wang E; Kim JY

109 HEALTH RELATED QUALITY OF LIFE AFTER BREAST RECONSTRUCTIVE SURGERY: AN INTERIM ANALYSIS
Presenter: Rika Ohkuma, MD
Affiliation: Johns Hopkins Medical Institution
Co-Authors: Lacayo Baez M; Rad AN; Manahan MA; Sacks JM; Cooney DS; Cooney CM; Rosson GD
10:10 am
110
COMPARISON OF PERCUTANEOUS RELEASE, OPEN RELEASE, ENDOSCOPIC
AND CORTICOSTEROID INJECTION IN THE TREATMENT OF TRIGGER DIGITS; A
SYSTEMATIC REVIEW AND META-ANALYSIS
Presenter: Arash Izadpanah, MD
Affiliation: McGill University
Co-Authors: Zein M; Izadpanah A; Kanevsky J; Izadpanah A; Belzile E; Shafran V;
Shararah A; Luc M; Zadeh T

10:20 am
111
A SYSTEMATIC REVIEW OF INFECTION IN BREAST RECONSTRUCTION:
AUTOLOGOUS FLAP VERSUS IMPLANT RECONSTRUCTION
Presenter: Svetlana Danovich, MD
Affiliation: Stony Brook University Medical Center
Co-Authors: Phillips B; Verma R; Bishawi M; Dagum AB; Bui DT; Khan SU

8:30 – 10:30 am
Session 8 Group B: CTA
Moderator: TBD
Co-Moderator: TBD

8:30 am
112
ANTI HLA IMMUNISATION RELATED TO SKIN ALLOGRAFT IN EXTENSIVELY
BURNED PATIENTS: ASSESSMENT IN POTENTIAL CANDIDATES FOR
VASCULARIZED COMPOSITE ALLOTRANSPLANTS.
Presenter: Mikael Hivelin, MD, PhD
Affiliation: Henri Mondor HospitalUniversity Paris 12
Co-Authors: Duhamel PD; Suberbielle CS; Jacquelinet CJ; Audry BA; Bargues LB; Bey
EB; Lantieri LL

8:40 am
113
THE USE OF MOBILIZED STEM CELLS MORE RELIABLY INDUCES TOLERANCE
TO VASCULARIZED COMPOSITE ALLOGRAFTS IN MISMATCHED DOGS
COMPARED TO BONE MARROW
Presenter: Jeff Chang
Affiliation: University of Washington Medical Center
Co-Authors: Swearingen B; Hwang B; Miwongtum-Butts T; Graves S; Storb R; Mathes
DW

8:50 am
114
INDOLEAMINE-2,3-DIOXYGENASE IS CRITICAL TO MESENCHYMAL STEM
CELL-BASED ALLOGRAFT TOLERIZATION
Presenter: Marc A Soares, MD
Affiliation: NYU Medical Center
Co-Authors: Low YC; Ham MJ; Lalezarzadeh F; Wilson SC; Ojo CO; Lotfi P; Saadeh
PB; Ceradini DJ

9:00 am
115
INFUSED BONE MARROW FAILS TO PROLONG VASCULARIZED COMPOSITE
ALLOGRAFT SURVIVAL IN NONHUMAN PRIMATES
Presenter: Philip Brazio, BA
Affiliation: University of Maryland School of Medicine
Co-Authors: Bojovic B; Ha JS; Brown EN; Panda A; Munivenkatappa R; Shipley ST;
Rodriguez ED; Bartlett ST; Barth RN

9:10 am
116
CUTANEOUS LYMPHATIC RECONSTITUTION OCCURS DURING THE ACUTE INFLAMMATORY PHASE IN A RAT ORTHOTOPIC HIND LIMB TRANSPLANTATION MODEL
Presenter: Kate J Buretta, BS
Affiliation: Johns Hopkins University School of Medicine
Co-Authors: Brat GA; Christensen JM; Ibrahim Z; Grahammer J; Furtmueller G; Suami H; Cooney DS; Andrew Lee WP; Brandacher G; Sacks JM

9:20 am

TOTAL FACE AND MULTI-ORGAN PROCUREMENT FROM A BRAIN-DEAD DONOR: INSTITUTIONAL EXPERIENCE AND PROPOSED ALGORITHM
Presenter: Philip Brazio, MD
Affiliation: University of Maryland School of Medicine
Co-Authors: Bojovic B; Dorafshar AH; Garcia JP; Brown EN; Bartlett ST; Barth RN; Rodriguez ED

9:30 am

CHARACTERIZATION OF HUMAN DI-CHIMERIC CELLS A NEW TOLERANCE INDUCING CELLULAR THERAPY IN TRANSPLANTATION: A PRELIMINARY STUDY
Presenter: Joanna Cwykiel, MS
Affiliation: Cleveland Clinic
Co-Authors: Askar M; Siemionow M

9:40 am

CHARACTERIZING THE IMMUNOMODULATORY PROPERTIES OF CADAVERIC DONOR VERTEBRAL BONE MARROW USED IN HAND TRANSPLANTATION
Presenter: Gerald Brandacher, MD
Affiliation: Johns Hopkins University School of Medicine
Co-Authors: Sarkar K; Lemas MV; Bitzan J; Sproul JD; Lee WP; Brandacher G; Cooney DS

9:50 am

INVESTIGATING THE IMMUNOREGULATORY PROPERTIES OF ADIPOSE-DERIVED STEM CELLS IN AN IN VITRO MOUSE MODEL OF RECONSTRUCTIVE TRANSPLANTATION
Presenter: Damon S Cooney, MD
Affiliation: Johns Hopkins University School of Medicine
Co-Authors: Wu LW; Sarkar K; Mao Q; Lee WP; Brandacher G; Cooney DS

10:00 am

IDENTIFICATION OF A TUMOR-DERIVED FACTOR CAUSING T CELL TOLEROCENIC EFFECTS
Presenter: Brian Maybruck, PhD
Affiliation: Cleveland Clinic
Co-Authors: Gastman BR

10:10 am

MISMATCHED VCA TRANSPLANTATION WITHOUT THE NEED FOR DONOR CELL CHIMERISM: A MODEL TO ACHIEVE TOLERANCE WHILE ELIMINATING CHRONIC IMMUNOSUPPRESSION AND THE RISKS OF GVHD
Presenter: Bruce Swearingen
Affiliation: University of Washington Medical Center
Co-Authors: Chang J; Graves S; Hwang B; Miwongtum-Butts T; Storb R; Mathes DW
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<tr>
<th>Time</th>
<th>Presentation</th>
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<tr>
<td>10:20 am</td>
<td><strong>TOPICAL GENE SILENCING: TOWARDS AN OFF-THE-SHELF SOLUTION</strong></td>
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<td><strong>Presenter:</strong> Maria J Ham, PG Student</td>
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<td></td>
<td><strong>Affiliation:</strong> New York University Medical Center</td>
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<td><strong>Co-Authors:</strong> Soares MA; Zhou AT; Ayaz MM; Wetterau M; Lotfi P; Lalezarzadeh F; Wilson SC; Ojo CO; Bandekar A; Sofou S; Ceradini DJ; Saadeh PB</td>
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<td>8:30 – 10:30 am</td>
<td><strong>Session 8 Group C: Microsurgery</strong></td>
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<td><strong>Co-Moderator:</strong> TBD</td>
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<td>8:30 am</td>
<td><strong>CHOOSING THE OPTIMAL TIMING FOR CONTRALATERAL SYMMETRY PROCEDURES FOLLOWING UNILATERAL FREE FLAP BREAST RECONSTRUCTION</strong></td>
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<td><strong>Presenter:</strong> Eric I Chang, MD</td>
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<td><strong>Affiliation:</strong> Fox Chase Cancer Center</td>
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<td><strong>Co-Authors:</strong> Chang EI; Selber JC; Nosrati N; Zhang TH; Robb GL; Chang DW</td>
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<td>8:40 am</td>
<td><strong>TOWARDS A SAFER DESIGN OF PERFORATOR FLAPS: THE PERFUSION ANGLE THEORY</strong></td>
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<td><strong>Presenter:</strong> Alexis Laungani, Student</td>
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<td></td>
<td><strong>Affiliation:</strong> Mayo Clinic</td>
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<td><strong>Co-Authors:</strong> Lachman N; Primus J; Kirchoff R; Saint-Cyr M</td>
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<td>8:50 am</td>
<td><strong>THE INTEROSSEOUS KEYSTONE PERFORATOR ISLAND FLAP (IKPIF): A NOVEL TECHNIQUE FOR MINIMIZING RADIAL FOREARM FLAP DONOR MORBIDITY</strong></td>
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<td><strong>Presenter:</strong> Michael W Findlay, MBBS, PhD, FRACS</td>
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<td></td>
<td><strong>Affiliation:</strong> Stanford University</td>
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<td><strong>Co-Authors:</strong> Rozen WM; Pratt G; Fairbank S; Choi WT; Hunter-Smith D; Behan FC; Gurtner GC</td>
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<td>9:00 am</td>
<td><strong>FABRICATION OF CELLULAR PRE-VASCULARIZED TISSUE CONSTRUCTS FROM AUTOGENOUS TISSUE</strong></td>
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<td><strong>Presenter:</strong> Karina A Hernandez, Resident</td>
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<td><strong>Affiliation:</strong> Weill Cornell Medical College</td>
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<td><strong>Co-Authors:</strong> Reiffel AJ; Campbell R; Pino A; Harper A; Derrick K; Spector JA</td>
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<td>9:10 am</td>
<td><strong>A PROSPECTIVE STUDY OF TRANSIT TIME FLOW VOLUME (TTFV) MEASUREMENT FOR INTRA-OPERATIVE EVALUATION AND OPTIMIZATION OF FREE FLAPS</strong></td>
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<td><strong>Presenter:</strong> Jesse Selber, MD</td>
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<td><strong>Affiliation:</strong> University of Texas MD Anderson Cancer Center</td>
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<td><strong>Co-Authors:</strong> Garvey PB; Clemens MW; Chang EI; Zhang H; Hanasono MW</td>
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<td>9:20 am</td>
<td><strong>QUANTITATIVE FLUORIMETRY FOR DETECTING VASCULAR COMPROMISE IN MICROVASCULAR SURGERY: 8300 READINGS WITH 100% NEGATIVE PREDICTIVE VALUE</strong></td>
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<td><strong>Presenter:</strong> Johnny T Chang, MD, MSME</td>
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<td><strong>Affiliation:</strong> The Buncke Clinic at California Pacific Medical Center</td>
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<td><strong>Co-Authors:</strong> Safa B; Parrett BM; Buncke GM; Buntic RF</td>
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9:30 am  
**130**  
**UTILITY OF PRE-OPERATIVE MRA IN ASSESSING GRACILIS FLAP VASCULAR ANATOMY**  
Presenter: Jamie A Schwartz, MD  
Affiliation: St Lukes Roosevelt Hospital Center  
Co-Authors: Smith M; Dayan JH; Sultan MR; Kagen A; Iyer AR; Samson W

9:40 am  
**131**  
**USING MOTION ANALYSIS TO PROVIDE IMMEDIATE FEEDBACK IN MICROSURGERY EDUCATION**  
Presenter: Ji Son, MS  
Affiliation: Stanford  
Co-Authors: Satterwhite T; Lee GK

9:50 am  
**132**  
**EVALUATION OF FACIAL ARTERY ON CT ANGIOGRAPHY USING 64 SLICE MDCT: IMPLICATIONS FOR FACIAL RECONSTRUCTION IN PLASTIC SURGERY**  
Presenter: David W Mathes, MD  
Affiliation: University of Washington Medical Center  
Co-Authors: Mathes DW; Furukawa M; Anzai Y

10:00 am  
**133**  
**INDOCYANINE GREEN ANGIOGRAPHY PREDICTS FLAP PEDICLE VENOUS CONGESTION WITHIN ONE MINUTE OF OCCLUSION IN RAT MODELS**  
Presenter: Mitchell S Fourman, MPhil  
Affiliation: Stony Brook University Medical Center  
Co-Authors: Nasser A; Mathison M; Phillips BT; Gersch R; Gelfand M; Bui DT

10:10 am  
**134**  
**USING REAL-TIME THREE-DIMENSIONAL FOURIER-DOMAIN OPTICAL COHERENCE TOMOGRAPHY FOR INTRAVITAL IMAGING OF THROMBOSIS**  
Presenter: Qixu Mao, MD  
Affiliation: Johns Hopkins University School of Medicine  
Co-Authors: Huang Y; Zhu S; Tong D; Ibrahim Z; Christensen J; Pang J; Cooney DS; Li J; Li Y; Lee WP; Kang JU; Brandacher G

10:20 am  
**135**  
**BIOENGINEERED RECONSTRUCTION OF UPPER DIGESTIVE TRACT.**  
Presenter: Andrew Polyakov, MD  
Affiliation: P A Herzen Moscow Cancer Research Institute  
Co-Authors: Reshetov I; Polyakov A; Batukhtina E; Filushin M

10:30 – 11:00 am  
Coffee with Exhibitors

11:00 am – 12:00 pm  
**Session 9 Group A: Ischemia/Reperfusion Injury**  
Moderator: TBD  
Co-Moderator: TBD

11:00 am  
**136**  
**DEFINING THE SALVAGE TIME WINDOW FOR THE USE OF ISCHEMIC POST-CONDITIONING IN SKELETAL MUSCLE ISCHEMIA REPERFUSION INJURY**  
Presenter: Mei Yang, MD  
Affiliation: Southern Illinois University School of Medicine  
Co-Authors: Mendenhall SD; Taylor NC; Reichensperger J; Derby B; Neumeister MW
11:10 am

**137 MODULATION OF ER STRESS RESPONSES THROUGH AN IDO (INDOLEAMINE 2,3 DIOXYGENASE) DEPENDENT STEM CELL THERAPY IN A MURINE HIND-LIMB ISCHEMIA-REPERFUSION INJURY MODEL**
Presenter: Mohamad Masoumy, MD
Affiliation: Georgia Health
Co-Authors: Yu JC; Liu JY; Mozaffari MS; Baban B

11:20 am

**138 COMBINED HYPOXIC PRECONDITIONING AND POSTCONDITIONING DO NOT CONFER ADDITIVE PROTECTION OF EX VIVO HUMAN SKELETAL MUSCLE FROM ISCHEMIA/REPERFUSION INJURY**
Presenter: Andreas Naparus, MRCS MBBS BSc (Hons) AICSM
Affiliation: The Hospital for Sick Children Toronto
Co-Authors: Ashrafpour H; Huang N; Hofer SO; Zhong T; Forrest CR; Pang CY

11:30 am

**139 EX VIVO MESENCHYMAL STEM CELL THERAPY PROTECTS VASCULAR NETWORKS FROM ISCHEMIA REPERFUSION INJURY**
Presenter: Mark McRae, MD
Affiliation: NYU Medical Center
Co-Authors: McRae MH; Ham MJ; Wilson SC; Lotfi P; Lalezarzadeh F; Ojo CO; Saadeh PB; Ceradini DJ

11:40 am

**140 PRETREATMENT OF SILDENAFIL ATTENUATES EARLY LUNG ISCHEMIA-REPERFUSION INJURY IN A RAT MODEL**
Presenter: JianXun Chen, MD
Affiliation: China Medical University Hospital
Co-Authors: Chen JX; Cheng CM

11:50 am

**141 THE INFLUENCE OF PRE-EXISTING LOWER EXTREMITY EDEMA AND VENOUS STASIS DISEASE ON BODY CONTOURING OUTCOMES**
Presenter: Evan B Katzel, MD
Affiliation: The University of Pittsburgh Medical Center
Co-Authors: Nayar HS; Davenport MP; Bossert RP; Rubin JP; Gusenoff JA

11:00 am – 12:00 pm

**Session 9 Group B: Other**
Moderator: TBD
Co-Moderator: TBD

11:00 am

**142 NATIONAL TRENDS IN MICROSURGICAL BREAST RECONSTRUCTION ECONOMICS: INCREASING ACADEMIC RECONSTRUCTION WITH DECREASING REIMBURSEMENT**
Presenter: Manish Champaneria, MD
Affiliation: Loma Linda University Medical Center
Co-Authors: Workman A; Mattison G; Gupta S

11:10 am

**143 RECOMBINANT SPIDER SILK AS BIOMATERIAL IN MEDICAL APPLICATION**
Presenter: Stefan Langer
Affiliation: Leipzig University Hospital
Co-Authors: Zeplin PH, Mougin N; Jordan MC; Berninger AK; van Gelder P; Leimer A; Langer S; Scheibel T
11:20 am

144 FACTORS AFFECTING ACCESS TO BREAST RECONSTRUCTION
Presenter: Benjamin C Wood, MD
Affiliation: Wake Forest Baptist Health
Co-Authors: DAVID LR; MCNATT MH; LEVINE EA; THOMPSON JT

11:30 am

145 AN ASSESSMENT OF PRE-CLINICAL MEDICAL STUDENT KNOWLEDGE: WHAT CONSTITUTES THE FIELD OF PLASTIC SURGERY?
Presenter: Russell E Kling, Medical Student
Affiliation: University of Pittsburgh
Co-Authors: Nayar HS; Harhay MO; Emelife PI; Manders EK; Ahuja NK

11:40 am

146 DO PLASTIC SURGERY DIVISION HEADS AND PROGRAM DIRECTORS HAVE THE TOOLS NECESSARY TO PROVIDE EFFECTIVE LEADERSHIP?
Presenter: Jugpal S Arneja, MD, MBA
Affiliation: BC Childrens Hospital University of British Columbia
Co-Authors: McInnes CW; Carr NJ; Lennox P; Petersen R; Skarlicki D

11:50 am

147 2011 DUTY HOURS REGULATIONS AND HOME CALL - PERSPECTIVES OF PLASTIC SURGERY RESIDENTS
Presenter: Brian C Drolet, MD
Affiliation: Brown University and Rhode Island Hospital
Co-Authors: Prsic A; Schmidt ST

11:00 am – 12:00 pm

Session 9 Group C: Tissue Engineering
Moderator: TBD
Co-Moderator: TBD

11:00 am

148 CHARACTERIZATION OF SIGNAL ISOLATION IN BIOTIC AND ABIOTIC RPNI SCAFFOLDS
Presenter: John V Larson, MS
Affiliation: University of Michigan
Co-Authors: Kung TA; Urbanchek MG; Cederna PS; Langhals NB

11:10 am

149 TISSUE ENGINEERED TENDON-BONE COMPOSITE GRAFTS FOR RECONSTRUCTION OF THE TENDON-BONE INTERFACE - AN EXPERIMENTAL STUDY IN RAT
Presenter: Simon Farnebo, MD PhD
Affiliation: Stanford University
Co-Authors: Woon CY; Bronstein JA; Schmitt T; Lindsey DP; Chang J

11:20 am

150 THE EFFECT OF CONTROL-RELEASED BASIC FIBROBLAST GROWTH FACTOR INCORPORATED IN β-TRICALCIUM PHOSPHATE FOR CRANIAL REGENERATION IN A MURINE MODEL
Presenter: Azusa Shimizu, MD
Affiliation: Juntendo University School of Medicine
Co-Authors: Tajima S; Tobita M; Tanaka R; Mizuno H; Tabata Y
11:30 am  
151  
FAT GRAFT ENGINEERING BY DECELLULARIZED HUMAN ADIPOSE MATRIX AND ADIPOSE-DERIVED STEM CELLS  
Presenter: Lina Wang, PhD  
Affiliation: MDACC  
Co-Authors: Wang L; Johnson JA; Iyyanki TS; Zhang Q; Beahm EE

11:40 am  
152  
DECELLULARIZED MUSCULOFASCIAL MATRIX FOR SOFT TISSUE REPAIR AND REGENERATION  
Presenter: Joshua Johnson, MS  
Affiliation: the University of Texas MD Anderson Cancer Center  
Co-Authors: Johnson JA; Wang LN; Chang DW; Zhang QX

11:50 am  
153  
FABRICATION OF PREVASCULARIZED TYPE I COLLAGEN TISSUE ENGINEERED CONSTRUCTS FOR IN VIVO MICROANASTOMOSIS  
Presenter: Rachel Campbell, MD  
Affiliation: Weill Cornell Medical College  
Co-Authors: Reiffel AJ; Hernandez KA; Garcia D; Delnero P; Boyko T; Spector JA

12:00 – 1:30 pm  
Lunch

1:00 – 3:30 pm  
Session 10 Group A: Outcomes  
Moderator: TBD  
Co-Moderator: TBD

1:00 pm  
154  
ESTROGEN RECEPTORS ALPHA AND BETA EXPRESSION IN BREAST IMPLANT CAPSULES: EXPERIMENTAL FINDINGS AND CLINICAL CORRELATES  
Presenter: Francesco Segreto, MD  
Affiliation: Campus BioMedico di Roma University  
Co-Authors: Carotti S; Marangi GF; Tosi D; Morini S; Persichetti P

1:10 pm  
155  
RECONSTRUCTION AFTER MASTECTOMY FOR BREAST CANCER IS ASSOCIATED WITH IMPROVED SURVIVAL: AN UPDATE ON A SINGLE INSTITUTION STUDY  
Presenter: Jennifer L Baker, MD  
Affiliation: University of California San Diego UCSD  
Co-Authors: Mailey BA; Tokin CA; Blair SL; Wallace AM

1:20 pm  
156  
CURRENT TREATMENT FOR INFANTILE HEMANGIOMAS: SELECTION CRITERIA, SAFETY AND OUTCOMES USING ORAL PROPRANOLOL  
Presenter: Harry Nayar,  
Affiliation: University of Pittsburgh  
Co-Authors: Maclsaac ZM; Gehris R; Mehta D; Geiser S; Grunwaldt LJ

1:30 pm  
157  
QUALITY OF LIFE OUTCOMES ASSOCIATED WITH NIPPLE SPARING MASTECTOMY AND BREAST RECONSTRUCTION  
Presenter: Christopher R Bailey, BA  
Affiliation: Johns Hopkins Hospital
1:40 pm

158
HUMAN ACELLULAR DERMIS VERSUS SUBMUSCULAR TISSUE EXPANDER BREAST RECONSTRUCTION: A MULTIVARIATE ANALYSIS OF SHORT-TERM COMPLICATIONS BASED ON THE NATIONAL SURGICAL QUALITY IMPROVEMENT PROGRAM (NSQIP) DATABASE
Presenter: Armando Davila, BS
Affiliation: Northwestern University Feinberg School of Medicine
Co-Authors: Seth AK; Wang E; Hanwright PJ; Bilimoria K; Fine N; Kim JY

1:50 pm

159
ANALYSIS OF CLINICALLY SIGNIFICANT SEROMA FORMATION IN BREAST RECONSTRUCTION USING ACELLULAR DERMAL GRAFTS
Presenter: Brett Michelotti, MD
Affiliation: Pennsylvania State University Milton S Hershey Medical Center
Co-Authors: Brooke S; Mesa J; Wilson M; Moyer K; Mackay D; Neves RI; Potochny J

2:00 pm

160
CAPSULAR CONTRACTURE: ANGIOGENESIS AND ROLE OF ESTROGEN RECEPTOR IN PERIPROSTHETIC TISSUE REMODELING.
Presenter: Daniele Tosi, MD
Affiliation: UNIVERSITY CAMPUS BIOMEDICO OF ROME
Co-Authors: SEGRETO F; CAROTTI S; MARANGI G; MORINI S; PERSICHETTI P

2:10 pm

161
DRESSING WEAR TIME AFTER BREAST RECONSTRUCTION: PRELIMINARY RESULTS OF A RANDOMIZED CONTROLLED TRIAL
Presenter: Daniela F Veiga, MD, PhD
Affiliation: Federal University of Sao Paulo and Universidade do Vale do Sapucai
Co-Authors: Veiga-Filho J; Mendes DA; Sales EM; Damasceno CA; Ferreira LM

2:20 pm

162
ANALYSIS OF THE VERTICAL MAMMAPLASTY INCISION APPROACH TO SKIN-SPARING MASTECTOMY AND IMMEDIATE AUTOLOGOUS TISSUE RECONSTRUCTION
Presenter: Ahuja Naveen,
Affiliation: University of Pittsburgh Medical Center
Co-Authors: Gimbel ML; Smith DA

2:30 pm

163
COMPREHENSIVE ANALYSIS AND STRATEGIES TO MINIMIZE DONOR SITE MORBIDITY IN ABDOMINAL FREE FLAP BREAST RECONSTRUCTION
Presenter: Edward I Chang, MD
Affiliation: MD Anderson Cancer Center
Co-Authors: Chang EI; Soto-Miranda MA; Zhang T; Nasrati N; Kronowitz SJ; Butler CE; Chang DW

2:40 pm

164
SELECTIVE NEURECTOMY, TENSOR FASCIA LATA MYOMECTOMY AND LIPOSUCTION FOR TOTAL LEG CONTOURING: ANATOMIC AND BIOCHEMICAL RESEARCHES WITH THEIR CLINICAL IMPLICATIONS
Presenter: FC Tsai, MD, PhD
Affiliation: Taipei Medical University Hospital

2:50 pm

165
DOES MESH LOCATION MATTER IN ABDOMINAL WALL RECONSTRUCTION? A SYSTEMATIC REVIEW OF THE LITERATURE AND A SUMMARY OF RECOMMENDATIONS
Presenter: Frank Albino, MD
Affiliation: UCLA
Co-Authors: Fan KL; Patel KM; Bhanot P; Nahabedian MY

3:00 pm

166 IMPACT OF CONNECTIVE TISSUE DISEASE ON OUTCOMES FOLLOWING BREAST SURGERY AND RECONSTRUCTION
Presenter: Kenneth L Fan, MD
Affiliation: UCLA
Co-Authors: Patel KM; Franklin B; Albino FP; Nahabedian MY

3:10 pm

167 SYSTEMATIC REVIEW OF PATIENT-CENTERED OUTCOMES FOLLOWING LOWER EXTREMITY FLAP RECONSTRUCTION IN CO-MORBID PATIENTS
Presenter: James Economides, BS
Affiliation: UCLA
Co-Authors: Marshall E; Patel KM; Fan KL; Attinger C; Evans KK

3:20 pm

168 FUNCTIONAL OUTCOMES IN RECONSTRUCTION OF MASSIVE CHEST WALL DEFECTS: A 17-YEAR EXPERIENCE
Presenter: Mark W Clemens, MD
Affiliation: MD Anderson Cancer Center
Co-Authors: Garvey PB; Corkum JP; Baumann DP; Hofstetter W; Butler CE

1:00 – 3:30 pm
Session 10 Group B: Fat Grafting
Moderator: TBD
Co-Moderator: TBD

1:00 pm

169 AUTOLOGOUS STEM CELLS THERAPY CAN IMPROVE SOFT TISSUE EXPANSION AND ACCELERATE SKIN REGENERATION DURING EXPANSION
Presenter: Shuangbai Zhou, MD
Affiliation: Shanghai Jiao Tong University
Co-Authors: Li QF; Zan T; Gu B; Liu K; Xie Y; Gan YK; Chiang CA; Wang J; Xu KM; Pu LQ

1:10 pm

170 REGULATION OF WNT SIGNALING IN ADIPOSE DERIVED STEM CELLS IMPROVES ADIPOGENIC POTENTIAL
Presenter: Sudheer K Ravuri, PhD
Affiliation: University of Pittsburgh
Co-Authors: Philips BJ; Kling RE; Interval JD; Kashkoush AI; Meyer EM; Pfeifer ME; Zimmerlin L; Donnenberg VS; Donnenberg AD; Marra KG; Rubin JP

1:20 pm

171 IN VITRO COMPARISON OF THE IMMUNOREGULATORY EFFECTS OF BONE MARROW AND ADIPOSE DERIVED STEM CELLS.
Presenter: Lehao Wu, MD
Affiliation: Johns Hopkins Medical Institution
Co-Authors: Yuan N; Rubin JP; Christensen J; Grahammar J; Ibrahim Z; Lee A; Schneeberger S; Sacks JM; Cooney DS; Brandacher G
1:30 pm 172
KEAP1 SILENCING IMPROVES DIABETES-SPECIFIC DEFECTS IN MESENCHYMAL STEM CELL FUNCTION
Presenter: Yee Cheng Low, MD
Affiliation: NYU Medical Center
Co-Authors: Low YC; Ham MJ; Lotfi P; Wilson SC; Lalezarzadeh F; Ojo CO; Saadeh PB; Ceradini DJ

1:40 pm 173
THE EFFECTS OF RADIATION THERAPY ON THE PROLIFERATION AND DIFFERENTIATION OF ADIPOSE-DERIVED STEM CELLS
Presenter: Yuan Liu, MD
Affiliation: Cooper University Hospital
Co-Authors: Jones R; Slotcavage R; Chang S; Carpenter J; Tulenko T

1:50 pm 174
PREDICTABLE AND DURABLE FAT GRAFTING BY TARGETED PROTECTION OF THE DONOR MICROVASCULATURE USING PHOSPHODIESTERASE 5 INHIBITORS (PDE5I)
Presenter: Obi Ezeamuzie
Affiliation: NYU Medical Center
Co-Authors: Ezeamuzie O; Ojo CO; Ham MJ; Lalezarzardeh F; Lotfi P; Wilson SC; Saadeh PB; Ceradini DJ

2:00 pm 175
DELETION OF AXIN GENE IN MOUSE ADIPOSE-DERIVED STEM CELLS (MASCS) PROMOTES OSTEOGENESIS
Presenter: Masakazu Hasegawa, MD, PhD
Affiliation: Stanford University
Co-Authors: Quarto N; Satoh K; Longaker MT

2:10 pm 176
CELL-ASSISTED LIPOTRANSFER WITH BONE MORPHOGENETIC PROTEIN RECEPTOR IA+ ADIPOSE-DERIVED STROMAL CELL SUBPOPULATIONS
Presenter: Kevin T Paik, A.B.
Affiliation: Stanford University

2:20 pm 177
USE OF ADIPOSE DERIVED STEM CELLS FOR THE IMPROVEMENT OF BURN WOUND HEALING
Presenter: Anne Argenta, MD
Affiliation: University of Pittsburgh Medical Center
Co-Authors: Satish L; Bliley J; McLauglin M; Marra K; Rubin JP

2:30 pm 178
TRANSCRIPTOMICS COMPARISON OF HUMAN-ADIPOSE DERIVED STEM CELLS DURING DIFFERENTIATION
Presenter: Brian Phillips, MD
Affiliation: University of Pittsburgh
Co-Authors: Krill-Burger M; Philips B; Gallo P; Des Estages S; Liu F; Ravuri S; Laframboise WA; Marra KG; Kathju S; Rubin JP
HUMAN MESENCHYMAL STEM CELLS REGENERATE MATURE BONE AND MITIGATE INFLAMMATION IN A XENOTRANSPLANTATION MODEL
Presenter: Anisa Yalom, MD
Affiliation: UCLA REBAR Lab
Co-Authors: Bueno DF; Li A; Buck A; Hokugo A; Zuk P; Nguyen P; Eduardo C; Amaral R; Bueno MRP; Jarrahy R

ENHANCED ADIPOSE-DERIVED STROMAL CELL OSTEOGENESIS THROUGH SURFACE MARKER ENRICHMENT AND BMP MODULATION
Presenter: Michael T Chung,
Affiliation: Stanford University

NEURAL POTENTIAL OF THE STEM CELL POPULATION IN THE ADIPOSE AND CUTANEOUS TISSUES
Presenter: Ilaria Tocco Tussardi, MD
Affiliation: Clinic of Plastic Surgery University Hospital of Padua
Co-Authors: Vindigni V; Bassetto F; Zavan B

BONE MORPHOGENETIC PROTEIN RECEPTOR IB AS A MARKER FOR ENRICHMENT OF OSTEOGENIC PRECURSORS
Presenter: Adrian McArdle, MD
Affiliation: Stanford University

IDENTIFICATION OF A FUNCTIONALLY DISTINCT SUBPOPULATION OF HUMAN ADIPOSE DERIVED STEM CELLS USING SINGLE CELL TRANSCRIPTIONAL ANALYSIS
Presenter: Michael Sorkin, MD
Affiliation: Stanford University
Co-Authors: Rennert R; Januszyk M; Chung MT; Longaker MT; Gurtner GC

ADIPOSE DERIVED-MESENCHYMAL STEM CELL SEEDED HYDROGELS ACCELERATE CLOSURE OF MURINE WOUNDS
Presenter: Ravi Garg, MD
Affiliation: Stanford University and University of Wisconsin
Co-Authors: Rennert RC; Sorkin M; Auerbach LJ; Lennon J; Longaker MT; Gurtner GC
DYSREGULATION OF POST-TRANSLATIONAL COLLAGEN PATHWAYS MAY UNDERLIE HYPERTROPHIC AND KELOID PATHOPHYSIOLOGY: A ROLE FOR TARGETED IMMUNOSUPPRESSION THERAPY?
Presenter: Victor W Wong, MD
Affiliation: Stanford University
Co-Authors: You F; Januszky M; Gurtner GC; Kuang AA

1:20 pm

186 NORMALIZING DYSFUNCTIONAL PURINE METABOLISM IN THE DIABETIC REGENERATIVE ENVIRONMENT ACCELERATES CUTANEOUS WOUND HEALING
Presenter: Frank Lalezarzadeh, BS
Affiliation: New York University
Co-Authors: Wilson SC; Weinsten AL; Soares MA; Ham MJ; Lotfi P; Ojo CO; Sartor RA; Saadeh PB; Ceradini DJ

1:30 pm

187 TRANSIENT RECEPTOR POTENTIAL C3 PLAY AN IMPORTANT ROLE IN THE FORMATION OF HYPERTROPHIC SCAR AS A MECHANICAL TRANSDUCER
Presenter: Hisako Ishise, MD
Affiliation: Hyogo College of Medicine
Co-Authors: Kawai K; Larson BJ; Nishimoto S; Kakibuchi M

1:40 pm

188 FIBROMODULIN INDUCES ANGIgenesis DURING CUTANEOUS WOUND HEALING
Presenter: Jia Jian, PhD
Affiliation: University of California Los Angeles
Co-Authors: Zheng Z; Hsu CY; Velasco O; Zhang K; Wang J; Zhang X; Ting K; Soo C

1:50 pm

189 NOTCH SIGNALING IN THE OSTEOINDUCTION OF ADIPOSE-DERIVED STEM CELLS: A POSSIBLE THERAPEUTIC ROLE IN THE VIABILITY OF NON-VASCULARIZED BONE GRAFTS
Presenter: Shaun D Mendenhall, MD
Affiliation: Southern Illinois University School of Medicine
Co-Authors: Lough D; Chambers CB; Bueno RA; Germann G; Reichensperger JD; Neumeister MW

2:00 pm

190 LOSARTAN AND TREATMENT OF SCAR CONTRACTURE: PRECLINICAL STUDIES INTO THE ROLE OF ANGIOTENSIN, ITS RECEPTORS AND EFFECT ON ACTIN ISOFORM EXPRESSION IN SCAR CONTRACTURE.
Presenter: Jennifer Bond, PhD
Affiliation: Duke University Medical Center
Co-Authors: Ehanire T; Ren L; Levinson H

2:10 pm

191 SALVAGE OF INFECTED CARDIOVASCULAR IMPLANTABLE ELECTRONIC DEVICES BY A NOVEL THERAPY
Presenter: Moris Topaz, MD, PhD, FRCSC
Affiliation: Hillel Yaffe Medical Center
Co-Authors: Kazatsker M; Oron Y; Keren G; Silberman A; Carmel NN; Topaz G; Meisel SR; Frimerman A; Blondheim DS; Shotan A
192 INSIGHTS INTO DIABETIC WOUND MICROCIRCULATION: A NOVEL IN VIVO MODEL
Presenter: Tanja Khosrawipour,
Affiliation: Leipzig University Hospital
Co-Authors: Dorfmann O; Ring A; Zeplin PH; Spindler N; Langer S

193 THE ABERRANT NOTCH SIGNALING CONTRIBUTE TO SCAR HYPERPLASIA THROUGH MODULATING BIOACTIVITY OF KERATINOCYTES
Presenter: Wei Xia, MD, MS
Affiliation: Fourth Military Medical University Xijing Hospital
Co-Authors: DIAO J; XIA W

194 REAL-TIME INVESTIGATION OF THE ANGIOGENIC EFFECT OF DEFEROXAMINE ON ENDOTHELIAL CELLS EXPOSED TO RADIOTHERAPY
Presenter: Alexis Donneys, MD, MS
Affiliation: University of Michigan
Co-Authors: Deshpande SS; Levi B; Buchman SR

195 INNOVATIVE ANALYTIC MORPHOMETRIC ASSESSMENT AND BODY COMPOSITION PREDICTS SURGICAL SITE INFECTION IN PATIENTS UNDERGOING COMPONENT SEPARATION VENTRAL HERNIA REPAIR
Presenter: Jeffrey L Lisiecki, ScB
Affiliation: University of Michigan Medical School
Co-Authors: Levi B; Rinkinen JR; Terjimanian MN; Holcombe SA; Kozlow JH; Wang SC; Kuzon WM

196 BIOCHEMISTRY OF DAMAGE AND REPAIR IN BREAST CANCER RECONSTRUCTION FOLLOWING RADIOTHERAPY
Presenter: Justin R Hubenak, BS
Affiliation: MD Anderson
Co-Authors: OConnor C; Kronowitz SJ

197 PREDICTIVE FACTORS OF WOUND COMPLICATIONS FOLLOWING SARCOMA RESECTION REQUIRING PLASTIC SURGEON INVOLVEMENT
Presenter: Kyle Sanniec, MHA, MA
Affiliation: Mayo Clinic Arizona
Co-Authors: Swanson S; Casey WJ; Schwartz A; Bryant L; Rebecca A

198 NOVEL BIODEGRADABLE POLY ESTER-AMIDE (PEA) POLYMER COATING SIGNIFICANTLY REDUCES SUTURE ASSOCIATED INFLAMMATORY RESPONSE
Presenter: Tatiana Boyko, MD
Affiliation: Weill Cornell Medical College
Co-Authors: Hernandez KA; Moody PW; van Harten MC; Reiffel AJ; van Koot JF; Chu CC; Harper A; Spector JA

199 Coffee with Exhibitors

3:00 – 5:30 pm Session 11 Group A: Tumor Immunology
Moderator: TBD
Co-Moderator: TBD
199
HYPOXIA AS A MEDIATOR OF ADIPOKINE PRODUCTION IN PATIENTS AT RISK FOR BREAST CANCER
Presenter: Irene Pien, BA, BS
Affiliation: Duke University Medical Center
Co-Authors: Fisher M; Bond J; Lem S; Frye E; Suarez A; Ibarra-Drendall C; Klitzman B; Seewladt V; Hollenbeck ST

200
GENE-DIRECTED ENZYME PRODRUG THERAPY (GDEPT) IN A HUMAN TUMOR XENOGRAFT MODEL USING GENE-MODIFIED MUSCLE TISSUES AND CHEMOTHERAPEUTIC PRODRUG MOLECULES.
Presenter: Ergun Kocak, MD
Affiliation: The Ohio State University
Co-Authors: Carruthers KH; Choi E; During MJ

201
LYMPHEDEMA IS ASSOCIATED WITH A MARKED INCREASE OF TISSUE T-REGULATORY CELLS
Presenter: Nicholas J Albano, Student
Affiliation: Memorial Sloan Kettering Cancer Center
Co-Authors: Ghanta S; Zampell JC; Weltman ES; Cuzzzone DA; Aschen SZ; Farias-Eisner GT; Yan A; Mehrara BJ

202
TELOMERE LENGTH WITHIN KELOIDS: NOVEL IMPLICATIONS FOR KELOID PATHOGENESIS & TREATMENT
Presenter: Lily Daniali, MD
Affiliation: University of Medicine and Dentistry of New Jersey School of Medicine
Co-Authors: Kimura M; Kim S; Cao X; Herbig U; Aviv A; Granick M

203
A DISTINCT REGION OF MCL-1 DEFINES ITS ANTISENESCENT PROPERTIES
Presenter: Simon E Schlager, Student
Affiliation: Case Western Reserve University
Co-Authors: Pfannenstiel LW; Demelash A; Maybruck B; Gastman BA

204
A COMMON POLYMORPHISM WITHIN THE IGF2 IMPRINTING CONTROL REGION IS ASSOCIATED WITH PARENT OF ORIGIN SPECIFIC EFFECTS IN INFANTILE HEMANGIOMAS
Presenter: Brent E Schultz, MBBS, PhD, FRACS
Affiliation: University of Washington
Co-Authors: Yao X; Deng Y; Waner M; Spock C; Tom L; Persing J; Narayan D

205
UTILIZING THE SPY-ELITE SYSTEM TO IMPROVE IDENTIFICATION OF SENTINEL LYMPH NODES IN CUTANEOUS MELANOMA
Presenter: Jason M Korn, MD
Affiliation: Cleveland Clinic Foundation
Co-Authors: Bartz-Kurycki MA; Gastman BR

206
TUMOR-INDUCED, DYSFUNCTIONAL CD8+ T CELLS: IMPLICATIONS FOR CANCER IMMUNOTHERAPY
Presenter: Brian Gastman
5:20 pm

207
A SYNGENEIC IMMUNOCOMPETENT MURINE FIBROSARCOMA (BFS-1) MODEL TO STUDY HOST DEFENSE-LIKE LYTIC PEPTIDE AND DOXORUBICIN COMBINATION THERAPY
Presenter: Philip Suppelna, MD
Affiliation: BG University Hospital Bergmannsheil
Co-Authors: Jacobsen F; Al-Benna S; Becerikli M; Merwart B; Rittig A; Stricker I; Lehnhardt M; Steinstraesser L

4:00 – 5:30 pm

Session 11 Group B: Craniofacial/Bone
Moderator: TBD
Co-Moderator: TBD

4:00 pm

208
THE IN VITRO REGULATION OF OSTEOGENIC DIFFERENTIATION BY INFLAMMATORY CYTOKINES
Presenter: Lauren L Zammerilla, BS
Affiliation: University of Pittsburgh
Co-Authors: Shakir S; Naran S; Cray JJ; Smith DM; Wang D; Losee JE; Cooper GM

4:10 pm

209
THE EFFECT OF OXYSTEROL ON OSTEOGENESIS IN HUMAN ADIPOSE DERIVED STEM CELLS
Presenter: Patricia Zuk, PhD
Affiliation: UCLA REBAR Lab
Co-Authors: Li A; Buck A; Hokugo A; Sorice S; Lee J; Jarrahy R

4:20 pm

210
CONTRIBUTION OF ORTHODONTIC DENTAL SPACE CLOSURE TO MAXILLARY HYPOPLASIA IN THE CLEFT PATIENT
Presenter: Justine C Lee, MD, PhD
Affiliation: UCLA
Co-Authors: Slack GC, Walker R; Martz MG; Graves L; Yen S; Woo J; Ambaram R; Kawamoto HK; Bradley JP

4:30 pm

211
OPTIMIZING THE TIMING AND TECHNIQUE OF TREACHER COLLINS ORBITAL MALAR RECONSTRUCTION
Presenter: Christina Federico, BA
Affiliation: UCLA
Co-Authors: Lee JC; Fan KL; Kawamoto HK; Bradley JP

4:40 pm

212
TENSILE STRESS WITH THE ABSENCE OF FRANK DISTRACTION CAN STILL PREVENT THE PHYSIOLOGICAL FUSION OF THE POSTERIOR FRONTAL SUTURE IN THE RAT.
Presenter: Niki E Springett, Student
Affiliation: Prince of Wales Hospital University of New South Wales
Co-Authors: Oliver R; Peltz TS; Gianoutsos MP; Walsh WR

4:50 pm

213
AMIFOSTINE PROPHYLAXIS CONFERS LONG-TERM BIOMECHANICAL PROTECTION TO IRRADIATED BONE
Presenter: Peter A Felice, MD
Affiliation: University of Michigan School of Medicine
Co-Authors: Ahsan S; Donneys A; Deshpande SS; Nelson NS; Perosky JE; Kozloff KM; Buchman SR

5:00 pm

DEFEROXAMINE RESTORES BIOMECHANICAL PROPERTIES AND POTENTIATES UNION OF IRRADIATED BONE IN DISTRACTION OSTEOGENESIS
Presenter: Noah S Nelson, BS
Affiliation: University of Michigan School of Medicine
Co-Authors: Felice PA, Donneys A; Ahsan S; Deshpande SS; Perosky JE; Kozloff KM; Buchman SR

5:10 pm

NOGGIN AND CHORDIN KNOCKDOWN IN DISTRACTION OSTEOGENESIS: IN VITRO STUDY
Presenter: Priscille Grenier-Vallee, MD
Affiliation: McGill University Shriners Hospital for Children
Co-Authors: Kasaai B; Moffatt P; Hamdy RC

5:20 pm

TEN-YEAR EXPERIENCE OF 36,000 OROFACIAL CLEFTS IN AFRICA
Presenter: Julia C Conway, BA
Affiliation: Mount Sinai School of Medicine
Co-Authors: Jabs EW; Oberoi K; Doucette J; Taub PJ

4:00 – 5:30 pm
Session 11 Group C: Nerve
Moderator: TBD
Co-Moderator: TBD

4:00 pm

REDUCTION IN MUSCLE ATROPHY WITH THE USE OF SIDE-TO-SIDE NERVE BRIDGES
Presenter: Jill Shea, DO
Affiliation: University of Utah
Co-Authors: Doner LJ; Garlick JW; Mendenhall SD; Agarwal JP

4:10 pm

NEUROPROTECTIVE EFFICACY OF AMINOPROPYL CARBAZOLES IN A NEONATAL RAT MODEL OF NERVE INJURY
Presenter: Stephen W Kemp, PhD
Affiliation: The Hospital for Sick Children University of Toronto
Co-Authors: Pieper AA; Wood MD; Szynkaruk M; Liu EH; Gordon T; Borschel GH

4:20 pm

ALGORITHM DEVELOPMENT: SIGNIFICANT TIBIAL NERVE FASCICULAR CONTRIBUTIONS TO LEG CONTROL
Presenter: James Allison, BA
Affiliation: University Of Michigan
Co-Authors: Washabaugh EP; Moon JD; Kung TA; Langhals NB; Cederna PS; Urbanchek MG

4:30 pm

RECURRENT AND PERSISTENT CARPAL TUNNEL SYNDROME: A SYSTEMATIC REVIEW OF THE LITERATURE AND 40-YEAR META-ANALYSIS.
4:40 pm 221
RESTORATION OF LONG NERVE DEFECTS WITH EPINEURAL SHEATH CONDUIT SUPPORTED WITH BONE MARROW STROMAL CELLS. A PRELIMINARY REPORT
Presenter: Maria Madajka, PhD
Affiliation: Cleveland Clinic
Co-Authors: Can Ozturk CO; Miroslaw Lukaszuk ML; Jacek Szopinski JS; Vlodek Siemionow VS; Maria Siemionow MS; Grzegorz Kwiecien GK

4:50 pm 222
AXONAL REGENERATION OF INJURED PERIPHERAL NERVES FOLLOWING INTRAVENOUS DELIVERY OF ADIPOSE TISSUE DERIVED STROMAL CELLS
Presenter: Christine Radtke, MD, PhD
Affiliation: Hannover Medical School
Co-Authors: Matthes SM; Janssen I; Reimers K; Kocsis JD; Vogt PM

5:00 pm 223
PERIPHERAL NERVE REGENERATION USING NOVEL BIOENGINEERED NEUROGENIC PEPTIDE AMPHIPHILE NANOFIBERS: PRELIMINARY IN-VITRO DATA
Presenter: Andrew Li, MD
Affiliation: UCLA REBAR Lab
Co-Authors: Buck A; Hokugo A; Stupp S; Jarrahy R

5:10 pm 224
SELECTIVE ENHANCEMENT OF AXONAL INGROWTH IN PROCESSED NERVE ALLOGRAFTS LOADED WITH NEUROTROPHIC FACTORS IN THE RAT SCIATIC NERVE MODEL
Presenter: Richard B Boyer, Medical Student
Affiliation: Vanderbilt University School of Medicine
Co-Authors: Sexton KW; Rodriguez-Feo CL; Pollins AC; Cardwell NL; Nanney LB; Shack RB; Thayer WP

5:20 pm 225
PRESEVERING NIPPLE SENSATION IN BREAST REDUCTION SURGERY: ANATOMICAL AND CLINICAL STUDY
Presenter: Saeed Chowdhry, BS
Affiliation: University of Louisville
Co-Authors: Brooks R; Kelishadi SS; Tutela JP; Wilhelmi BJ

5:30 – 6:00 pm Awards Announcements & Adjourn