FULL PROGRAM
Thursday, June 14, 2012

6:30 am - 5:00 pm  Registration

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

8:00 - 10:00 am  (Not for credit)

Local Program Session 1
Moderator: Paul S. Cederna, MD, FACS

8:00 - 8:30 am
James Wooliscroft, MD
Dean, University of Michigan Medical School

8:30 - 9:00 am
Mike Mulholland, MD, PhD
Professor & Chairman, Department of Surgery, University of Michigan

9:00 - 9:20 am
Dave Martin, PhD
Professor & Chairman of Material Science and Engineering, University of Delaware

9:20 - 10:00 am
Lloyd Carr

10:00 - 10:30 am  Coffee with Exhibitors

10:30 am - 12:00 pm  (Not for credit)

Local Program Session 2
Moderator: Paul S. Cederna, MD, FACS

10:30 - 10:50 am
Ormond MacDougald, PhD
Professor of Molecular and Integrative Physiology

10:50 - 11:20 am
Orda Pescovitz, MD
Executive Vice President of Medical Affairs, University of Michigan Health System

11:20 am - 12:00 pm
Andrew Feustel, PhD
Geophysicist & NASA Astronaut, Veteran of 2 Space Shuttle Missions

12:00 - 12:15 pm  Members' Photograph - Rackham

12:00 - 2:00 pm  Lunch - Non-Members with Exhibitors

12:30 - 2:00 pm  Lunch & Business Meeting - Members only - Founders Hall, Alumni Center

2:00 - 3:00 pm  Panel 1: Past Chairs' Panel: Innovations in Our Subspecialties
Moderator: James P. Bradley, MD, FACS
Co-Moderator: Paul S. Cederna, MD, FACS
Panelists: Geoffrey Gurtner, MD (2010)
J. Peter Rubin, MD (2009)
Michael W. Neumeister, MD (2008)
Steve Buchman, MD (2004)

3:00 - 3:30 pm  Coffee with Exhibitors
3:30 - 5:00 pm
Moderator: Babak Mehrara, MD
Co-Moderator: Kacey Marra, PhD

3:30 pm
1 DIEP AND MS FTRAM FLAPS BASED ON BOTH BRANCHES OF THE DEEP INFERIOR EPIGASTRIC ARTERY RESULT IN FEWER PERFUSION-RELATED COMPLICATIONS THAN SINGLE DIEA BRANCH FLAPS: A STUDY OF 1127 PATIENTS
Presenter: Patrick B. Garvey, MD
Affiliation: The University of Texas MD Anderson Cancer Center
Authors: Garvey PB, DelBello SM, Liu J, Kronowitz SJ, Butler CE

3:40 pm
2 JUSTIFICATION FOR LATENCY PERIOD IN DISTRACTION OSTEOGENESIS: A MOLECULAR AND CLINICAL STUDY OF ILIZAROV'S PROTOCOL
Presenter: Kenneth Fan, MD
Affiliation: University of California Los Angeles
Authors: Fan K, Yuan J, Tabit CJ, Andrews B, Kawamoto HK, Bradley JP

3:50 pm
3 EPIDERMAL FOCAL ADHESION KINASE CRITICALLY REGULATES TENSILE STRENGTH IN A MURINE MODEL OF CHRONIC WOUND REPAIR
Presenter: Ravi Garg, MD
Affiliation: Stanford University

4:00 pm
4 EPIDERMAL-SPECIFIC KNOCKOUT OF PROLYL HYDROXYLASE DOMAIN-2 AND ITS ROLE IN WOUND HEALING
Presenter: Shane D. Morrison, MS
Affiliation: Stanford University School of Medicine
Authors: Morrison SD, Zimmermann AS, Nauta AC, Sorkin M, Gurtner GC, Longaker MT

4:10 pm
5 MICROSURGICAL FACIAL REANIMATION IN CHILDREN LESS THAN THREE YEARS OLD: THE CASE FOR EARLY INTERVENTION
Presenter: George D. Xipoleas, MD
Affiliation: The Mount Sinai Hospital
Authors: Xipoleas GD, Rose EH, Taub PJ

4:20 pm
6 PATIENT-REPORTED ASSESSMENT OF FUNCTIONAL GAIT OUTCOMES FOLLOWING SUPERIOR GLUTEAL ARTERY PERFORATOR (SGAP) RECONSTRUCTION
Presenter: Gedge Rosson, MD
Affiliation: Johns Hopkins University School of Medicine
Authors: Hur K, Ohkuma R, Yamazaki M, Manahan MA, Rad AN, Rosson GD

4:30 pm
7 TREATMENT OF CROUZON SYNDROME: A LONG-TERM STUDY
Presenter: Christina J. Tabit, BA
Affiliation: University of California Los Angeles
Authors: Tabit CJ, Lakin G, Kawamoto HK, Allam KA, Bradley JP
4:40 pm  
SCHWANN CELL SENESCENCE IN ACELLULAR NERVE ALLOGRAFTS: A MECHANISM FOR FAILURE OF REGENERATION ACROSS LONG GAPS  
Presenter: Maryam Saheb-Al-Zamani, BS  
Affiliation: Washington University School of Medicine  
Authors: Saheb-Al-Zamani M, Farber SJ, Yan Y, Thiranansakul P, Mackinnon SE, Johnson Pj

4:50 pm  
CORTICAL PLASTICITY IN A RAT SURVIVAL MODEL OF BRACHIAL PLEXUS AVULSION AND CROSS C7 NERVE TRANSFER UTILIZING BOLD FMRI AT 9.4 TESLA  
Presenter: Nicholas A. Flugstad, MD  
Affiliation: Medical College of Wisconsin  
Authors: Flugstad NA, Stephenson JB, Li R, Yan JG, Hyde JS, Matloub HS

5:00 pm - 5:50 pm  
Moderator: Robert Galiano, MD  
Co-Moderator: Michel Saint-Cyr, MD

5:00 pm  
POTENTIAL SYNERGY OF ADENOVIRAL VEGF-ALL AND EGR-1 VECTORS MAY OPTIMIZE THE SURVIVAL OF RAT MCFARLANE FLAPS  
Presenter: Mitchell S. Fourman, MPhil  
Affiliation: Stony Brook University Medical Center  
Authors: Fourman MS, Phillips BT, Rivara A, Gersch R, Rosengart TK, Dagum AB

5:10 pm  
TURNING ADIPOSE DERIVED STEM CELLS INTO EMBRYONIC-LIKE PLURIPOTENT CELLS FOLLOWED BY DIRECT DIFFERENTIATION INTO BONE USING NOVEL IN VIVO DIRECTED DIFFERENTIATION  
Presenter: Benjamin Levi, MD  
Affiliation: University of Michigan/Stanford University  

5:20 pm  
ADIPOSE DERIVED STEM CELL THERAPY RESCUES DELAYED WOUND HEALING IN CHRONIC RADIATION INJURY  
Presenter: Gabrielle B. Davis, MD  
Affiliation: University of Southern California  
Authors: Davis GB, Ragina NP, Lee SH, Nguyen DT, Hill CK, Senagore AJ, Wong AK

5:30 pm  
EXPRESSION PROFILE OF GROWTH FACTORS IN ADIPOSE DERIVED STEM CELL SUB-POPULATIONS FOR SOFT TISSUE RECONSTRUCTION  
Presenter: Sudheer K. Ravuri, PhD  
Affiliation: University of Pittsburgh  
Authors: Ravuri SK, Philips BJ, Li H, Meyer EM, Pfeifer ME, Zimmerlin L, Marra KG, Donnenberg VS, Donnenberg AD, Rubin JP

5:40 pm  
MINICIRCLE DNA ENGINEERED FREE FLAPS AS AN EFFICIENT TRANSGENE EXPRESSION PLATFORM  
Presenter: Robert C. Rennert, BA  
Affiliation: Stanford University  
Authors: Rennert RC, Sorkin M, Morrison S, Garg RK, Longaker MT, Gurtner GC
5:50 pm 15 Award Eligibility: Gingrass
TARGETED TH2 IMMUNE MODULATION BLOCKS CHRONIC LymphEDema
PROGRESSION
Presenter: Jamie C. Zampell, MD
Affiliation: Memorial Sloan Kettering Cancer Center
Authors: Zampell JC, Yan A, Malliaris S, Avraham T, Weitman E, Elhadad S, Mehrara BJ

7:00 - 10:00 pm Welcome Reception - University of Michigan Football Stadium
Buses depart Campus Inn at 6:45 pm

Friday, June 15, 2012

6:30 am - 5:00 pm Registration

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

Scientific Session 3
Best Paper Plenary Session
Miscellaneous Topics

8:30 - 11:00 am Moderator: Justin Sacks, MD
Co-Moderator: David Mathes, MD

8:30 am 16 Award Eligibility: Shenaq
VASCULARIZED COMPOSITE ALLOGRAFT TRANSPLANTATION IN SWINE
TOLERANT OF MHC CLASS 1 MISMATCH KIDNEYS: DIFFERENTIAL SURVIVAL
OF VASCULARIZED COMPOSITE ALLOGRAFTS TRANSPLANTED DURING THE
INDUCTION AND MAINTENANCE PHASES OF TOLERANCE
Presenter: Radbeh Torabi, BS
Affiliation: Harvard Medical School Massachusetts General Hospital
Authors: Torabi R, Scalea JR, Leonard DA, Randolph MA, Sachs DH, Yamada K,
Cetrulo CL

8:40 am 17
COSTIMULATORY BLOCKADE AND DONOR BONE MARROW CELLS FOR
IMMUNOMODULATION AND TOLERANCE INDUCTION IN VASCULARIZED
COMPOSITE ALLOGRAFTS - A LARGE ANIMAL TRANSLATIONAL TRIAL
Presenter: Gerald Brandacher, MD
Affiliation: Johns Hopkins University
Authors: Brandacher G, Ibrahim Z, Wimmers EG, Watchman G, Schneeberger S,
Gorantla V, Lin CH, Jindal R, Unadkat J, Sacks JM, Shores JT, Gordon C,
Cooney D, Zheng XX, Lee WPA

8:50 am 18 Award Eligibility: Gingrass
ANALYSIS OF NOVEL GENE SPECIFIC FUNCTION IN ZEBRAFISH MODEL OF
OBLIQUE (TESSIER) FACIAL CLEFTS
Presenter: Valeri Shubinets, BS
Affiliation: Harvard Medical School and Massachusetts General Hospital
Authors: Shubinets V, Dougherty M, Kamel G, Morton CC, Maas RL, Liao EC

9:00 am 19 Award Eligibility: Snyder
APPLICATION OF LASER CAPTURE MICRODISSECTION TO CRANIOFACIAL
BIOLOGY: CHARACTERIZATION OF ANATOMICALLY RELEVANT GENE
EXPRESSION IN THE CRANIAL SUTURES
Presenter: Stephen A. Rottgers, MD
Affiliation: University of Pittsburgh
Authors: Rottgers SA, Macisacac Z, Cray JJ, Smith DM, Mooney M, Losee JE, Cooper G
9:10 am

TREATMENT OF DIABETIC FOOT ULCERS (DFU) WITH PULSED ACOUSTIC CELLULAR EXPRESSION (PACE): REDUCTION IN WOUND SIZE AND AMPUTATION RATE IN A MULTI-CENTER, DOUBLE-BLindered, RANDOMIZED CLINICAL TRIAL
Presenter: Robert Galiano, MD
Affiliation: Northwestern University
Author: Galiano R

9:20 am

LIKELY EXCLUSION OF TGF-BETA AND FGF RECEPTORS AS LOCI OF ORIGIN IN A RABBIT CRANIOSYNOSTOTIC MODEL
Presenter: Phillip H. Gallo, PhD
Affiliation: University of Pittsburgh
Authors: Gallo PH, Cray Jr JJ, Durham EL, Losee JE, Mooney MP, Cooper GM, Kathju S

9:30 - 10:00 am

Local Program Session 3
Speaker: Dave Brandon - University of Michigan Athletic Director
Moderator: Paul S. Cederna, MD, FACS

10:00 - 10:30 am

Coffee with Exhibitors

10:30 am

22. FROM GUT TO SKIN: STIMULATION OF THE EPITHELIAL LGR 5 AND 6 STEM CELL PROMOTES WOUND HEALING, BACTERIAL REDUCTION AND HAIR GROWTH
Presenter: Denver M. Lough, MD, PhD
Affiliation: Southern Illinois University School of Medicine
Authors: Lough DM, Reichensperger J, Yang M, Dai H, Harrison C, Cox L, Neumeister MW

10:40 am

23. NOTCH3 MAY REGULATE CELL FATE IN INFANTILE HEMANGIOMAS
Presenter: June K. Wu, MD
Affiliation: Columbia University Medical Center
Authors: Hardy K, Wong A, Shawber CJ, Kitajewski A, Kitajewski J, Wu JK

10:50 am

24. COMPLICATIONS IN TISSUE EXPANDER BREAST RECONSTRUCTION: A COMPARISON OF ALLODERM, DERMAMATRIX, AND FLEXHD
Presenter: Sebastian Brooke, MD
Affiliation: Penn State Hershey Medical Center
Authors: Brooke S, Mesa J, Uluer M, Michelotti B, Moyer K, Mackay D, Potochny J

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

11:00 am - 12:00 pm

Group A: Tissue Engineering
Moderator: Derrick Wan, MD
Co-Moderator: Jason Spector, MD

11:00 am

25. FABRICATION OF BIODEGRADABLE ARTIFICIAL TISSUE CONSTRUCTS VIA SACRIFICIAL NONIONIC TRIBLOCK COPOLYMER NETWORKS
Presenter: Elisa Rezaie, BS
Affiliation: Weill Cornell Medical College
26
REPAIR OF A CRITICAL PORCINE TIBIAL DEFECT VIA ALLOGRAFT REVITALIZATION
Presenter: Christopher Runyan, MD, PhD
Affiliation: University of Cincinnati
Authors: Runyan C, Ali S, Jones DC, Billmire DA, Taylor JA

27
ELECTROCONDUCTIVE SIS IS AN EFFECTIVE INTERFACE MATERIAL FOR DISTRIBUTING EXCITATORY VOLTAGE ACROSS SKELETAL MUSCLE
Presenter: Christopher M. Frost
Affiliation: University of Michigan
Authors: Frost CM, Cederna PS, Uranchek MG

28
SILK FIBROIN-DECORIN SCAFFOLDS FOR VENTRAL HERNIA REPAIR
Presenter: Lina Wang, PhD
Affiliation: MD Anderson Cancer Center
Authors: Wang L, Zhang Q, Hubenak J, Iyyanki TS, Butler CE, Mathur AB

29
PRECONDITIONING CYTOTOXICPROTECTION AUGMENTS CELL SURVIVAL AFTER TRANSPLANTATION IN VIVO
Presenter: Daniel J. Tilkorn, MD
Affiliation: BG University Hospital Bergmannsheil Bochum

30
VASCULAR SMOOTH MUSCLE CELL PARACRINE STIMULATION OF VASCULogenesis WITHIN NATURALLY-Derived, BIODEGRADABLE HYBRID HYDROGEL SCAFFOLDS
Presenter: Alyssa J. Reiffel, MD
Affiliation: Weill Cornell Medical College
Authors: Reiffel AJ, Perez JL, Hernandez KA, Jimenez N, Spector JA

11:00 am - 12:00 pm
Group B: Wound Healing
Moderator: Howard Levinson, MD
Co-Moderator: June Wu, MD

31
APPLICATION OF DISSOLVED OXYGEN DRESSING FOR MITIGATION OF ACUTE RADIATION SKIN INJURY
Presenter: Brian B. Freire, BA
Affiliation: University of Massachusetts Medical School
Authors: Freire BB, Chin MS, Bonney CF, Lancerotto L, Saleebay JH, Lo YC, Ignott RA, Fudem GM, Orgill DP, Fitzgerald TJ, Lalikos JF

32
CYTIDINE-PHOSPHATE-GUanosine DEOXYOLIGONUCLEOTIDES IN CUTANEOUS SCARRING
Presenter: Jennifer Bond, PhD
Affiliation: Duke University Medical Center
Authors: Bond J, Holl EK, Sullivan BA, Levinson H
33 CALCIUM-BASED NANOPARTICLES ACCELERATE WOUND HEALING
Presenter: Kenichiro Kawai, MD, PhD
Affiliation: Hyogo College of Medicine
Authors: Kawai K, Larson BL, Ishise H, Carre AL, Nishimoto S, Longaker MT, Lorenz HP

34 EX VIVO EXPANSION RESTORES DIABETIC EPC FUNCTION AND ACCELERATE WOUND HEALING BY RECOVERING THE CELLS FROM OXIDATIVE STRESS
Presenter: Rica Tanaka, MD, PhD
Affiliation: Juntendo University School of Medicine

35 BIOFILM-INFECTED DIABETIC WOUNDS EXHIBIT AN ABERRANT AND INEFFECTIVE UPREGULATION OF INFLAMMATORY CYTOKINES DESPITE ROBUST NEUTROPHIL RECRUITMENT
Presenter: Khang Nguyen
Affiliation: Northwestern University Feinberg School of Medicine
Authors: Nguyen K, Seth AK, Geringer MR, Hong SJ, Leung KP, Mustoe TA, Galiano RD

36 REDOX RESCUE OF NRF2 REVERSES DYSFUNCTIONAL DIABETIC TISSUE REGENERATION
Presenter: Yee Cheng Low, MD
Affiliation: NYU Medical Center
Authors: Soares MA, Low YC, Anzai L, Hwang LH, Ham MJ, Ezeamuzie OC, Saadeh PB, Ceradini DJ

Scientific Session 5
EPSRC Plenary Paper Session

12:00 - 12:20 pm
Moderator: James P. Bradley, MD
Co-Moderator: Paul S. Cederna, MD, FACS

37 VASCULARIZED COMPOSITE ALLOGRAFT TRANSPLANTATION AND MIXED HEMATOPOIETIC CHIMERISM ACROSS A FULL MHC BARRIER IN SWINE: PRELIMINARY RESULTS
Presenter: Angelo A. Leto Barone, MD
Affiliation: Harvard Medical School/Massachusetts General Hospital

12:10 pm
38 THREE-DIMENSIONAL EVALUATION OF OXYGEN GRADIENTS AND DISTRIBUTION OF HYPOXIA IN AN AXIALLY VASCULARIZED BIOARTIFICIAL CONSTRUCT IN VIVO
Presenter: Oliver Bleiziffer, MD
Affiliation: Erlangen University Medical Center, Plastic & Hand Surgery

12:20 - 1:30 pm
Lunch

1:30 - 2:30 pm
Panel 2: Orthopedic Research Society Best Papers
Speaker: Steven A. Goldstein, PhD
Moderator: Peter Taub, MD, FS, FAAP
2:30 pm

43 ASSESSMENT OF POST-OPERATIVE VENOUS THROMBOEMBOLISM RISK IN PLASTIC SURGERY PATIENTS USING THE 2005 AND 2010 CAPRINI RISK SCORE: AN ANALYSIS OF THE VTEPS DATABASE
Presenter: Christopher J. Pannucci, MD
Affiliation: University of Michigan
Authors: Pannucci CJ, Barta RJ, Portschy PR, Dreszer G, Hoxworth RE, Kalliainen IK, Wilkins EG

2:40 pm

44 THE INFLUENCE OF HOSPITAL VOLUME ON OUTCOMES FOLLOWING AUTOLOGOUS ABDOMINAL-BASED BREAST RECONSTRUCTION
Presenter: Charles T. Tuggle III, MD, MHS
Affiliation: Yale University School of Medicine
Authors: Tuggle CT, Patel A, Persing JA, Sosa JA, Au A

2:50 pm

45 NEW VS. OLD: ESTABLISHING PREDICTIVE VALUES FOR NECROSIS USING THE LATEST LASER-ASSISTED INDOCYANINE GREEN DYE ANGIOGRAPHY SYSTEM
Presenter: Brett T. Phillips, MD
Affiliation: Stony Brook University Medical Center
Authors: Phillips BT, Fourman MS, Dagum AB, Ganz JC, Khan SU, Bui DT

3:00 pm

46 DIFFERENCES IN CLINICAL OUTCOMES FOR IMPLANT VERSUS FREE DIEP/TRAM FLAP BREAST RECONSTRUCTION IN OBESE PATIENTS: A STUDY OF 700 PATIENTS
Presenter: Mark Villa, MD
Affiliation: The University of Texas MD Anderson Cancer Center
Authors: Garvey PB, Rozinsky AT, Villa MT, Liu J, Robb GL, Beahm EK

3:10 pm

47 RELATIONSHIP BETWEEN MASTECTOMY TYPE AND RECONSTRUCTIVE RATE WITHIN THE UNITED STATES
Presenter: Claudia R. Albornoz, MD MSc
Affiliation: Memorial Sloan Kettering Cancer Center
Authors: Albornoz CR, McCarthy CM, Pusic AL, Disa JJ, Mehrara BJ, Cordeiro PG, Matros E

3:20 pm

48 INTERIM ANALYSIS OF A PROSPECTIVE CLINICAL TRIAL: CORRELATION OF BIOLOGIC PARAMETERS WITH CLINICAL OUTCOME IN CRANIOFACIAL FAT GRAFTING
Presenter: Tara Grahovac, MD
Affiliation: University Of Pittsburgh

-35-
3:30 pm

49
COMPARING THE VERSAJET HYDROSURGERY SYSTEM TO CONVENTIONAL
DEBRIDEMENT TECHNIQUES FOR THE TREATMENT OF DELAYED HEALING
WOUNDS: A PROSPECTIVE, RANDOMIZED CLINICAL TRIAL TO INVESTIGATE
CLINICAL EFFICACY AND COST-EFFECTIVENESS
Presenter: Jing Liu, MD, MA
Affiliation: Northwestern University
Authors: Liu J, Ko JH, Galiano RD, Chukwu CS, Krol J

3:40 pm

50
OBSTRUCTIVE SLEEP APNEA FOLLOWING DYNAMIC SPHINCTER
PHARYNGOPLASTY
Presenter: Adam J. Oppenheimer, MD
Affiliation: University of Michigan
Authors: Oppenheimer AJ, Lau D, Hassan F, Hoban TF, Newman MH, Buchman SR,
Kasten SJ

3:50 pm

51
HERPES SIMPLEX VIRUS TYPE 1 INFECTION IN BURN PATIENTS
Presenter: Kelli N. Webb, MD
Affiliation: Southern Illinois University
Authors: Webb KN, Moore AN, Amalfi AN, Bueno RA, Neumeister MW

2:30 - 4:00 pm

Group B: Nerve
Moderator: Thomas Tung, MD
Co-Moderator: Gregory H. Borschel, MD

2:30 pm

52
THE USE OF SKELETAL MUSCLE TO AMPLIFY ACTION POTENTIALS IN
TRANSECTED PERIPHERAL NERVES
Presenter: Yazen Al-Ajam, MD
Affiliation: University College London
Authors: Al-Ajam Y, Lancashire H, Pendegras C, Kang N, Blunn G

2:40 pm

53
SACRAL AFFERENTS RESPONSIVE TO URETHRAL FLOW IN THE CAT
Presenter: Andre E. Snellings, PhD
Affiliation: Duke University
Authors: Snellings AE, Yoo PB, Grill WM

2:50 pm

54
PERCEIVED SENSITIVITY WITH MUSCLE TRANSFER IN A REGENERATIVE
PERIPHERAL NERVE INTERFACE
Presenter: Benjamin Wei, MD
Affiliation: University of Michigan
Authors: Urbanchek MG, Moon JD, Langhals NB, Sugg KB, Cederna PS, Wei B

3:00 pm

55
EPINEURAL SHEATH CONDUIT: A NEW TECHNIQUE FOR PERIPHERAL NERVE
RESTORATION
Presenter: Maria Madajka, PhD
Affiliation: Cleveland Clinic
Authors: Madajka M, Mendiola A, Siemionow M
3:10 pm

56 DIFFERENTIATED ADIPOSE-DERIVED STEM CELLS PROMOTE MYELINATION AND ENHANCE FUNCTIONAL RECOVERY IN A RAT MODEL OF CHRONIC DENERVATION
Presenter: Koichi Tomita, MD, PhD
Affiliation: Osaka University Graduate School of Medicine
Authors: Tomita K, Madura T, Mantovani C, Hosokawa K, Terenghi G

3:20 pm

57 CD4+ T CELL INFILTRATION IS RESPONSIBLE FOR CHRONIC INFLAMMATION IN EXPERIMENTAL LYMPHEDEMA
Presenter: Sonia Elhadad
Affiliation: Memorial Sloan Kettering Cancer Center
Authors: Zampell JF, Elhadad S, Weitman E, Avraham T, Yan A, Mehrara B

3:30 pm

58 REGULATION OF ADIPOGENESIS IN LYMPHEDEMA
Presenter: Evan S. Weitman, MD
Affiliation: Memorial Sloan Kettering Cancer Center
Authors: Weitman ES, Aschen S, Zampell JF, Elhadad S, Yan A, Mehrara BJ

3:40 pm

59 CURRENT TRENDS IN CHAPERONE USE BY PLASTIC AND RECONSTRUCTIVE SURGEONS
Presenter: Umar Choudry, MD
Affiliation: University of Minnesota
Authors: Choudry U, Barta R, Kim N

3:50 pm

60 DESIGN OF A RATIONAL NANO PARTICLE-BASED DELIVERY SYSTEM FOR TOPICAL GENE SILENCING FOR CUTANEOUS DISORDERS
Presenter: Maria Ham
Affiliation: New York University School of Medicine
Authors: EE zamzale O, Ham MJ, Soares MA, Low YC, Hwang LH, Ceradini DJ, Sofou S, Bandekar A, Saadeh PB

4:00 - 4:30 pm

Coffee with Exhibitors & Poster Presentations (see page 47 for poster listing)

4:30 - 6:00 pm

Group A: Composite Tissue Allo transplantation & Craniofacial/Bone
Group B: Microsurgery/Flap Physiology

4:30 pm

61 EX VIVO TRANSFER OF ADENOVIRUS-MEDIATED CTLA4IG GENE PROLONGS FREE FLAP ALLOGRAFT SURVIVAL
Presenter: Bo Xiao, MD
Affiliation: Xijing Hospital The Fourth Military Medical University
Authors: Xiao B, Xia W, Zhao KF, Guo SZ

4:40 pm

62 TRANSPLANTATION OF VASCULARIZED COMPOSITE ALLOGRAFTS IN A MISMATCHED SETTING WITHOUT THE NEED FOR CHRONIC IMMUNOSUPPRESSION
Presenter: Jeff Chang, MD
Affiliation: University of Washington Seattle
Authors: Chang J, Butts T, Graves S, Storb R, Mathes D
63
INVolvement of T-regulatory cells in tolerance towards a vascularized and a non-vascularized skin allograft transplants
Presenter: David Mathes, MD
Affiliation: University of Washington Seattle
Authors: Chang J, Butts T, Graves S, Storb R, Mathes D

64
Tolerizing Allografts with ex-vivo MSC immunotherapy
Presenter: Marc A. Soares, MD
Affiliation: NYU Medical Center
Authors: Soares MA, Low YC, Hwang LH, Ham MJ, Ezeamuzie OC, Saadeh PB, Ceradini DJ

65
Absolute quantification of osteogenic genes in rat calvarial defects
Presenter: Brendan Alleyne
Affiliation: Case Western Reserve University
Authors: Gliniak CM, Varghese D, Sweeney WM, Alleyne BJ, Tobin K, Cooper GM, Gossain AK

66
Rank signaling in cranial suture biology
Presenter: Justine C. Lee, MD, PhD
Affiliation: University of Chicago Medical Center
Authors: Lee JC, Spiguel L, Shenag D, Zhong M, Wietholt C, He TC, Reid RR

67
Re-harvested cranial particulate bone graft ossifies inlay calvarial defects in an animal model
Presenter: Aladdin H. Hassanein, MD, MMsc
Affiliation: Children's Hospital Boston Harvard Medical School
Authors: Hassanein AH, Couto RA, Mulliken JB, Rogers GF, Greene AK

WITHDRAWN

68
Experimental comparison of cranial particulate bone graft, RbHbMP-2, and split cranial bone graft for inlay cranioplasty
Presenter: Aladdin H. Hassanein, MD, MMsc
Affiliation: Children's Hospital Boston Harvard Medical School
Authors: Hassanein AH, Couto RA, Kurek KC, Rogers GF, Mulliken JB, Greene AK

69
A rapid non-suture vascular anastomosis technique for reconstructive microsurgery
Presenter: Qi Mao, MD
Affiliation: Johns Hopkins University School of Medicine

4:30 - 6:00 pm
Group B: Microsurgery/Flap Physiology
Moderator: Scott Hansen, MD
Co-Moderator: Jonathan Winograd, MD

4:30 pm
70
Applications of the omentum for limb salvage: The regenerative power of omental stromal cells
Presenter: Iris A. Seitz, MD, PhD
Affiliation: University Plastic Surgery Rosalind Franklin University
Authors: Seitz IA, Shin L, Peterson D, Pavone LA, Schechter LS
71  THE EFFECT OF PLATELET-RICH PLASMA (PRP) ON THE SURVIVAL OF UNIPEDICLED EXTENDED SUPERFICIAL EPIGASTRIC FLAP IN RABBIT
Presenter: Kim Hye Young, MD
Affiliation: The Korean Society of Plastic and Reconstructive Surgeon
Authors: Young KH, Yea Sik H, Jin Hyung P, Hyun K

72  ATORVASTATIN ALLEVIATED VIABILITY OF RAT ISCHAEMIC FLAP
Presenter: PinKeng Shih, MD
Affiliation: China Medical University Hospital
Author: Shih PK

73  SPATIAL FREQUENCY DOMAIN IMAGING TO EFFECTIVELY MONITOR VIABILITY OF COMPOSITE TISSUE FACIAL FLAPS
Presenter: John T. Nguyen, MD
Affiliation: Beth Israel Deaconess Medical Center Harvard University
Authors: Nguyen JT, Lee BT, Ashitate Y, Stockdale A, Ibrahim A, Patel PP, Buchanan IA, Frangioni JV, Gioux S

74  EXOGENOUS INSULIN INCREASES CAPILLARY DENSITY IN DELAYED PEDICLED SKIN FLAPS
Presenter: Francisca Leon, MD
Affiliation: Hospital Mutual de Seguridad/Pontificia Universidad Catolica de Chile
Authors: Leon F, Contreras R, Sylvester M, Bolados C, Gonzalez S, Vidal P, Standen M

75  AN ALTERNATIVE MUCOSAL FLAP FOR NASAL LINING: THE SUPERIOR LABIAL ARTERY MUCOSAL FLAP- AN ANATOMIC STUDY
Presenter: Brian Kelley, MD
Affiliation: University of Michigan
Authors: Momoh AO, Kelley B, Diaz-Garcia RJ, Kulkarni A, Kozlow JH, Bullocks JM, Lee BT

76  HIGH FIDELITY SURGICAL SIMULATION USING PERFUSED FRESH CADAVERIC TISSUE: A LIFE-LIKE MODEL FOR SURGICAL TRAINING
Presenter: Joseph N. Carey, MD
Affiliation: Keck Medical Center at the University of Southern California
Authors: Kane JT, Reyes N, Minneti M, Talving P, Schooler W, Garner W, Carey JN

77  VERTICAL DEEP INFERIOR EPIGASTRIC PERFORATOR AND MUSCLE-SPARING VERTICAL RECTUS ABDOMINIS MYOCUTANEOUS FLAP RECONSTRUCTION FOR PELVIC EXTENERATION DEFECTS
Presenter: Laurel S. Karian, BA
Affiliation: Johns Hopkins University School of Medicine
Authors: Karian LS, Manahan MA, Ohkuma R, Rad AN, Mithani SK, Rosson GD

78  AUTOLOGOUS BREAST RECONSTRUCTION: PRACTICE PATTERNS OF U.S. PLASTIC SURGEONS
Presenter: Anita R. Kulkarni, MD
Affiliation: University of Michigan
Authors: Kulkarni AR, Sears ED, Atisha DM, Alerman AK

7:00 - 9:00 pm  Members' Dinner - Colloquium, Ross Business School
### Scientific Session 8

**Concurrent Podium Paper Session**

**Group A: Clinical Outcomes Research**
**Group B: Tissue Engineering/Fat Grafting & Stem Cell Research**

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter(s)</th>
<th>Affiliation</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30 am</td>
<td><strong>79</strong> IMPROVING SPEECH OUTCOMES AFTER FAILED PRIMARY PALATE REPAIR: EVALUATING THE SAFETY AND EFFICACY OF CONVERSION FURLOW PALATOPLASTY</td>
<td>Harry Nayar, BA</td>
<td>University of Pittsburgh Medical Center</td>
<td>Nayar H, Cray JJ, MacIsaac ZM, Argenta AE, Ford MD, Fenton RA, Losee JE, Grunwaldt LJ</td>
</tr>
<tr>
<td>8:40 am</td>
<td><strong>80</strong> A COMPARISON OF OUTCOMES BETWEEN ALLOGENIC AND AUTOLOGOUS BREAST RECONSTRUCTION: 2005-2010 DATA FROM THE NATIONAL SURGICAL QUALITY IMPROVEMENT PROGRAM (NSQIP)</td>
<td>Sahil K. Kapur, MD</td>
<td>University of Wisconsin Madison</td>
<td>Kapur SK, Rajamanickam V, Poore SO</td>
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<tr>
<td>8:50 am</td>
<td><strong>81</strong> COMPARISON OF DELAYED AND IMMEDIATE TISSUE EXPANDER BREAST RECONSTRUCTION IN THE SETTING OF POST-MASTECTOMY RADIATION THERAPY</td>
<td>Akhil K. Seth, MD</td>
<td>Northwestern University Feinberg School of Medicine</td>
<td>Seth AK, Hirsch EM, Fine NA</td>
</tr>
<tr>
<td>9:00 am</td>
<td><strong>82</strong> ABDOMINAL BASED FREE FLAP PLANNING IN BREAST RECONSTRUCTION WITH CT ANGIOGRAPHY - SYSTEMATIC REVIEW AND META-ANALYSIS</td>
<td>Rika Ohkuma, MD</td>
<td>Johns Hopkins Medical Institution</td>
<td>Ohkuma R, Mohan R, Bryles J, Yamazaki M, Schneider E, Rosson GD</td>
</tr>
<tr>
<td>9:10 am</td>
<td><strong>83</strong> INFECTION FOLLOWING IMPLANT-BASED BREAST RECONSTRUCTION: SALVAGE RATES AND PREDICTORS OF SUCCESS</td>
<td>Richard G. Reish, MD</td>
<td>Massachusetts General Hospital</td>
<td>Reish RG, Damjanovic B, Austen WG, Winograd J, Liao EC, Cetrulo C, Colwell AS</td>
</tr>
<tr>
<td>9:20 am</td>
<td><strong>84</strong> BOVINE VERSUS PORCINE ACELLULAR DERMAL MATRIX FOR COMPLEX ABDOMINAL WALL RECONSTRUCTION</td>
<td>Mark W. Clemens, MD</td>
<td>MD Anderson Cancer Center</td>
<td>Clemens MW, Selber JC, Adelman DM, Baumann DP, Garvey PB, Butler CE</td>
</tr>
</tbody>
</table>
85
THE DOUBLE OPPOSING Z-PLASTY ± BUCCAL FLAP APPROACH FOR REPAIR OF
THE CLEFT PALATE: A REVIEW OF 415 CONSECUTIVE PATIENTS
Presenter: Charles Sierzant, BS
Affiliation: Grand Rapids Medical Education and Research Center Michigan State University
Authors: Neaman KC, Sierzant CG, Martin MD, Mann RJ

86
NOVEL TEMPORALIS MUSCLE AND FAT PAD MORPHOMETRIC ANALYSES AIDS
PRE-OPERATIVE RISK EVALUATION AND OUTCOMES IN PATIENTS WITH
NONSYNDROMIC CRANIOSYNOSTOSIS
Presenter: Jacob Rinkinen
Affiliation: University of Michigan
Authors: Rinkinen J, Enchakalody B, Holcomb S, Dombrowski A, Wang SC,
Buchman SR, Levi B

87
ROLE OF PROPRANOLOL AND CORTICOSTEROID IN TREATMENT OF
HAEMANGIOMAS: A SYSTEMATIC REVIEW
Presenter: Ali Izadpanah, MD
Affiliation: McGill University
Authors: Izadpanah A, Kavensky J, Izadpanah A

88
COMPLICATIONS FOLLOWING STERNAL RECONSTRUCTION: A 14-YEAR
EXPERIENCE AT THE UNIVERSITY OF MICHIGAN HEALTH SYSTEM
Presenter: Shaun P. Patel, BS
Affiliation: University of Michigan
Authors: Patel SP, Pannucci CJ, Kozlow JH, Cederna PS, Brown DI

89
MINIMIZING COMPLICATIONS ASSOCIATED WITH USE OF ACELLULAR
DERMAL MATRIX IN IMPLANT-BASED BREAST RECONSTRUCTION
Presenter: Yoon Chun, MD
Affiliation: Brigham and Women’s Hospital
Authors: Chun Y, Ganske I, Verma K, Rosen H, Eriksson E

90
RISK FACTORS FOR COMPLICATIONS FOLLOWING SKIN-SPARING
MASTECTOMY AND IMMEDIATE BREAST RECONSTRUCTION
Presenter: Brian Rinker, MD
Affiliation: University of Kentucky
Authors: Rinker B, Wright HR, Kemper P, Buseman J, Wong L, Nimtz JC, Kobraei EM

Group B: Tissue Engineering/Fat Grafting & Stem Cell Research
Moderator: Jamie Levine, MD
Co-Moderator: Christine Radke, MD

91
SINGLE CELL GENE TRANSCRIPTIONAL ANALYSIS REVEALS A DIMINISHED
PREVALENCE OF A VASCULOCENIC SUBPOPULATION IN DIABETIC ADIPOSE
DERIVED STEM CELLS
Presenter: Michael Sorkin, MD
Affiliation: Stanford University
Authors: Sorkin M, Glotzbach JP, Januszyk M, Rennert R, Wong VW, Chen JS, Rustad KC,
Longaker MT, Gurtner GC
92 EXTERNAL MECHANICAL TISSUE STIMULATION INCREASES SUBCUTANEOUS TISSUE THICKNESS, CELL PROLIFERATION AND VASCULARIZATION IN A MURINE MODEL
Presenter: Yvonne I. Heit, MD
Affiliation: University of Magdeburg/Brigham and Women’s Hospital
Authors: Heit YL, Lancerotto L, Mesteri I, Ackermann M, Navarrete F, Nguyen C, Li Q, Konerding MA, Mukundan S, Del Vecchio DA, Orgill DP

93 CELLULAR ORIGIN OF GRAFTED ADIPOSE TISSUE: HOST OR DONOR?
Presenter: Kentaro Doi, MD
Affiliation: University of Tokyo
Authors: Doi K, Kato H, Eto H, Yoshimura K

94 INTRODUCING NON-ADHERENT PREGENITORS FROM ADIPOSE-DERIVED STEM CELLS (NAPADSCS): PROOF OF STEMNESS AND POSSIBLE FUTURE APPLICATIONS IN REGENERATIVE SURGERY
Presenter: Angelo A. Leto Barone, MD
Affiliation: Università degli Studi di Palermo Dipartimento di Discipline Chirurgiche ed Oncologiche

95 ASSESSMENT OF VIABILITY OF HUMAN FAT INJECTION INTO NUDE MICE WITH MICROFOCUS COMPUTED TOMOGRAPHY
Presenter: Michael T. Chung, BS
Affiliation: Stanford University
Authors: Chung MT, Lo DD, Hyun JS, Nauta AC, Longaker MT, Wan DC

96 VEGF AND PLGF: SO MUCH MORE THAN JUST VASCULAR GROWTH FACTORS IN SKIN TISSUE ENGINEERING
Presenter: Benoit I. Hendrickx, MD, PhD
Affiliation: KULeuven
Authors: Hendrickx BI, Verdonck K, Vranckx JJ, Luttun A

97 SEEDING ADIPOSE-DERIVED STEM CELLS ONTO PORCINE ACELLULAR DERMAL MATRICES IMPROVES VASCULARIZATION AND MECHANICAL STRENGTH OF VENTRAL HERNIA REPAIRS
Presenter: Kristin T. Campbell, MD
Affiliation: MD Anderson Cancer Center
Authors: Campbell KT, Iyyanki T, Wang L, Butler CE

98 IMMUNOMODULATORY AND REPARATIVE PROPERTIES OF MESENCHYMAL STEM CELLS ENCAPSULATED IN HYALURONIC ACID SCAFFOLDS
Presenter: Summer Hanson, MD
Affiliation: University of Wisconsin
Authors: Hanson S, King SN, Thibeault SL, Hematti P

99 EARLY MUSCLE REVASCULARIZATION AND REGENERATION AT THE REGENERATIVE PERIPHERAL NERVE INTERFACE
Presenter: Joe Baldwin, BS
Affiliation: University of Michigan
Authors: Baldwin J, Moon JD, Cederna PS, Urbanchek MG
100
NAGER SYNDROME DENTAL Pulp STEM CELLS HAVE OSTEOGENIC POTENTIAL
Presenter: Joyce Yuan, BA
Affiliation: University of California Los Angeles
Authors: Yuan J, Bueno DF, Zuk P, Tabit CJ, Bradley JP

101
SINGLE CELL ANALYSIS REVEALS PHENOTYPICALLY DISTINCT SUB-POPULATIONS IN PUTATIVE ENDOTHELIAL PROGENITOR CELLS
Presenter: Jerry Chen, MD
Affiliation: Stanford University
Authors: Chen J, Sorkin M, Januszyk M, Gurtner G

102
ADIPOGENESIS OF DIABETIC HUMAN ADIPOSE STEM CELL WITHIN 3D HOL LOW FIBER-BASED BIOREACTORS
Presenter: Yu Chih Lin, PhD
Affiliation: University of Pittsburgh
Authors: Lin YC, Minteer DM, Young M, Oh SJ, Gerlach JC, Rubin JP, Marra KG

10:30 - 11:00 am
Coffee with Exhibitors

Scientific Session 9
Concurrent Podium Paper Session
Group A: Craniofacial/Bone
Group B: Composite Tissue Allograft: Transplantation & Tumor Immunology

11:00 am - 12:00 pm
Group A: Craniofacial/Bone
Moderator: Peter Taub, MD, FACS, FAAP
Co-Moderator: Oren Tepper, MD

11:00 am
103
CAD-CAM TISSUE ENGINEERING OF PATIENT SPECIFIC AURICLES FOR RECONSTRUCTION OF PEDIATRIC MICROTIA
Presenter: Justin Perez, BS
Affiliation: Weill Cornell Medical College

11:10 am
104
EXPEDITING CONSOLIDATION DURING MANDIBULAR DISTRACTION OSTEOGENESIS WITH PHARMACOLOGIC LOCALIZED IRON CHELATION THERAPY
Presenter: Alexis Donneys, MD, MS
Affiliation: University of Michigan
Authors: Donneys A, Deshpande SS, Tchanque-Fossuo CN, Felice P, Johnson KL, Buchman SR, Perosky J, Kozlaff K, Sarhaddi D, Farberg AS

11:20 am
105
REPAIR OF CLEFT LIP IN UTERO BY REACTIVATION OF CRANIOFACIAL DEVELOPMENTAL PROGRAMS
Presenter: Karina A. Hernandez, DO
Affiliation: Weill Cornell Medical College
Authors: Hernandez KA, Selleri L, Spector JA, Pino A, Reiffel AJ, Ferretti E

11:30 am
106
TIME COURSE AND GENE EXPRESSION ANALYSIS OF INFANT MOUSE MODEL OF RE-SYNOSTOSIS
Presenter: Christopher Hermann, BS
Affiliation: Georgia Institute of Technology
Authors: Hermann CD, Lawrence KA, Olivares-Navarrete R, Williams JK, Schwartz Z
107
CHEMICAL SCREEN IDENTIFIES TRIM AS INHIBITOR OF CRANIAL NEURAL CREST MIGRATION AND DIFFERENTIATION DURING EMBRYONIC PHARYNGEAL MORPHOGENESIS
Presenter: Yawei Kong, PhD
Affiliation: Massachusetts General Hospital
Authors: Kong Y, Grimaldi M, Curtin E, Liao EC

108
HIGH DOSE RADIOTHERAPY IMPEDES THE FORMATION OF BONY UNIONS AND DIMINISHES BONE QUALITY AND BIOMECHANICAL STRENGTH IN A MURINE MODEL OF MANDIBULAR PATHOLOGIC FRACTURE HEALING
Presenter: Noah S. Nelson, BS
Affiliation: University of Michigan
Authors: Nelson NS, Donneys A, Desphande SS, Tchanque-Fossuo CN, Gallagher KK, Sarhaddi D, Buchman SR, Poushanchi B

11:00 am - 12:00 pm
Group B: Composite Tissue Alltransplantation & Tumor Immunology
Moderator: Damon Cooney, MD
Co-Moderator: Rogerio Neves, MD

11:00 am
109
AN INNOVATIVE APPROACH TO FULL OSTEOCUTANEOUS FACIAL TRANSPLANTATION BUILT ON FUNDAMENTAL AESTHETIC, CRANIOFACIAL AND MICROSURGICAL PRINCIPLES: A CADAVERIC STUDY EMPLOYING COMPUTER-ASSISTED TECHNIQUES
Presenter: Emile N. Brown, MD
Affiliation: R Adams Cowley Shock Trauma Center
Authors: Brown EN, Dorafshar AH, Bojovic B, Christy MR, Borsuk DE, Brazio PS, Shaffer C, Rodriguez ED

11:10 am
110
INDUCTION OF SKIN TOLERANCE BY ESTABLISHMENT OF STABLE MIXED CHIMERISM ACROSS A MAJOR HISTOCOMPATIBILITY BARRIER IN MINIATURE SWINE
Presenter: David A. Leonard, MBChB
Affiliation: Massachusetts General Hospital

11:20 am
111
NOW YOU SEE IT, NOW YOU DON'T: MHC: KNOCKDOWN PROMOTES ALLOGRAFT TOLERANCE BY EVADING IMMUNE SURVEILLANCE
Presenter: Jessica Chang, BS
Affiliation: NYU Medical Center
Authors: Soares MA, Low YC, Henderson RC, Chang JB, Hwang LH, Ezeamuzie OC, Ham MJ, Saadeh PB, Ceradini DJ

11:30 am
112
USING PROTEIN ARRAYS AND SYSTEMS BIOLOGY TO IDENTIFY THE TARGETS OF LEILAMINE
Presenter: Omer Kuzu
Affiliation: Penn State Hershey
Authors: Kuzu O, Gowda R, Madhunapantula SV, Sharma A, Neves RI, Robertson GP
11:30 am
DEVELOPMENT OF NANOLIPPOLE-007: A UNIQUE DRUG TARGETING THE PI3 KINASE, STAT AND MAP KINASE PATHWAYS DEREGERULATED IN MELANOMAS
Presenter: Rogerio I. Neves, MD, PhD
Affiliation: Penn State Hershey
Authors: Madhunapantula SV, Sharma A, Neves RI, Robertson GP

11:45 am
HYPOXIA INDUCES ADIPOKINE RELEASE FROM PREADIPOCYTES WHICH ENHANCE MAMMARY EPITHELIAL PROLIFERATION
Presenter: Sarah E. Blanton
Affiliation: Duke University Medical Center
Authors: Blanton SE, Bond J, Ellison-Zelski S, Blanton M, Kitzman B, Hollenbeck ST

12:00 - 12:30 pm
Announcement of Awards

12:30 pm
Meeting Adjourns
1P
MINIMIZING TRANSFUSIONS IN PRIMARY CRANIAL VAULT REMODELING FOR CRANIOSYNOSTOSIS: THE ROLE OF AMICAR AND APROTININ
Presenter: Adam J. Oppenheimer, MD
Affiliation: University of Michigan
Authors: Oppenheimer AJ, Strahle JM, Kapurch J, Muraszko KM, Buchman SR

2P
REGENERATIVE PERIPHERAL NERVE INTERFACE FUNCTION AT 1 AND 3 MONTHS AFTER IMPLANTATION
Presenter: Melanie G. Urbanchek, PhD
Affiliation: University of Michigan
Authors: Urbanchek MG, Moon JD, Sugg KB, Langhals NB, Cederna PS, Baghmanli Z

3P
REFERRAL PROPENSITY OF CANADIAN MEDICAL AND RADIATION ONCOLOGISTS FOR BREAST RECONSTRUCTION: A NATIONWIDE SURVEY
Presenter: Jennica Platt, MD
Affiliation: University of Toronto
Authors: Platt J, Musgrave MA

4P
BMP-2 MEDIATED MANDIBLE RECONSTRUCTION PROHIBITS INFERIOR ALVEOLAR NERVE GRAFTING DUE TO SUTURE LINE OSSIFICATION IN AN EXPERIMENTAL RABBIT MODEL
Presenter: Stephen A. Rottinger, MD
Affiliation: University of Pittsburgh
Authors: Rottinger SA, Cray JJ, Smith DM, Mooney M, Losee JE, Cooper G

5P
FAT GRAFT SURVIVAL IN THE RADIATED BREAST COMPARED TO NON-RADIATED BREAST: VOLUME MEASUREMENT USING 3D IMAGING
Presenter: Kevin H. Small, MD
Affiliation: Weill Cornell Medical Center
Authors: Small KH, Choi M, Levovitz C, Lee C, Karp N

6P
COMPREHENSIVE ANALYSIS OF REVISIONAL SURGERY AND CONTRALATERAL SYMMETRY PROCEDURES FOLLOWING UNILATERAL FREE FLAP BREAST RECONSTRUCTION: A 10-YEAR EXPERIENCE
Presenter: Eric I. Chang, MD
Affiliation: UCLA Medical Center
Authors: Chang EI, Selber JC, Hanasono MM, Skoracki RJ, Butler CE, Kronowitz SJ, Beahm EK, Robb GL, Chang DW

7P
SMILE RECONSTRUCTION USING A COMBINATION OF ORBICULARIS ORIS PLICATION AND TEMPORALIS MUSCLE TRANSFER TO THE LONG LASTING FACIAL PARALYSIS
Presenter: Marcos R. Oliveira-Jaeger, MD, PhD
Affiliation: Irmãodade da Santa Casa de Misericordia de Porto Alegre and Instituto Novaplastia of Plastic Surgery

8P
THE ATASOY FLAP: PATIENT VS SURGEON PERCEPTION OF OUTCOME
Presenter: Amir Sadri, BSc, MBChB, MRCS
Affiliation: Royal London Hospital
Authors: Sadri A, Chowdhry M, Patel J, May J, Moir G
THE IMPACT OF BREAST IMPLANTS ON NAC PERFUSION, IN VIVO
Presenter: Edward Teng, MD
Affiliation: Yale University
Authors: Teng E, Lentz RL, Broer PB, Madhavi RM, Kwei SK

MULTIMODAL ASSESSMENT OF ETHNIC DIFFERENCES IN COSMETIC OUTCOME FOLLOWING BREAST CONSERVING THERAPY: RESULTS FROM A PILOT STUDY
Presenter: Christiana U. Chukwu, AB
Affiliation: Northwestern University Feinberg School of Medicine
Authors: Galiano RD, Chukwu CU, Khan SA, Butt Z

THE SURVIVAL CURVE: FACTORS IMPACTING THE OUTCOME OF FREE FLAP TAKE-BACKS
Presenter: Jesse Selber, MD
Affiliation: University of Texas MD Anderson Cancer Center
Authors: Selber J, Robb G, Liu J, Soto M

MACROPHAGE PHENOTYPES CORRESPOND WITH REMODELING OUTCOMES OF VARIOUS ACELLULAR DERMAL MATRICES
Presenter: Hitish Agrawal, MD
Affiliation: University of Virginia
Authors: Agrawal H, Tholpady SS, Capito AE, Drake DB, Katz AJ

RANDOMIZED COMPARISON OF PRONE LIVER PHASE MRA VERSUS CTA FOR BREAST RECONSTRUCTION DEMONSTRATES IMPROVED MRA INTRAMUSCULAR DETAIL AND ARTERIOVENOUS PERFORATOR ANALYSIS
Presenter: Chris Campbell, MD
Affiliation: Virginia Commonwealth University
Authors: Martinovic ME, Campbell CA

TOTAL ABDOMINAL WALL COMPOSITE TISSUE ALLOTRANSPLANTATION: AN ANATOMICAL STUDY AND CLASSIFICATION SYSTEM
Presenter: David Light, MD
Affiliation: Cleveland Clinic Foundation
Authors: Light D, Kundu N, Djohan R, Gastman B, Siemionow M

ALTERING NEURONAL REGENERATION THROUGH MANIPULATION OF INJURY-ASSOCIATED GLIAL SCAR MATRIX
Presenter: Henry C. Hsia, MD, FACS
Affiliation: Princeton University/Robert Wood Johnson Medical School
Authors: Hsia HC, Zheng H

THE EFFECTS OF HYDROGEN SULPHIDE ON ADIPOCYTE VIABILITY IN HUMAN ADIPOCYTE CULTURE UNDER ISCHEMIC CONDITIONS
Presenter: Andac Aykan, MD
Affiliation: Gulhane Military Medical Academy
Authors: Aykan A, Ozturk S, Avcu F, Sahin I, Ural AU, Selcuk I
17P
LOW-FREQUENCY ULTRASOUND AS AN EFFECTIVE THERAPY AGAINST PSEUDOMONAS AERUGINOSA BIOFILM INFECTED WOUNDS: AN IN VIVO STUDY USING A RABBIT EAR MODEL
Presenter: Akhil K. Seth, MD
Affiliation: Northwestern University Feinberg School of Medicine
Authors: Seth AK, Geringer MR, Nguyen KT, Hong SJ, Leung KP, Mustoe TA, Galiano RD

18P
NATURALLY DERIVED T-REGULATORY CELLS MAY CONTRIBUTE TO TOLERANCE TOWARDS VASCULARIZED COMPOSITE ALLOGRAFT TRANSPLANTATION
Presenter: Jeff Chang, MD
Affiliation: University of Washington Seattle
Authors: Chang J, Hwang B, Butts T, Graves S, Storb R, Mathes D

19P
BLUNT MECHANISM FACIAL FRACTURE PATTERNS ASSOCIATED WITH DEATH
Presenter: Justin L. Bellamy, BS
Affiliation: Johns Hopkins School of Medicine
Authors: Bellamy JL, Mundinger GS, Massie AB, Kelamis JA, Doraftshar AH, Christy MR, Rodriguez ED

20P
PROLONGED VASCULARIZED COMPOSITE ALLOGRAFT SURVIVAL AND MULTI-LINEAGE MIXED CHIMERISM ACROSS A FULL MAJOR HISTOCOMPATIBILITY BARRIER IN SWINE
Presenter: David A. Leonard, MBChB
Affiliation: Massachusetts General Hospital
Authors: Leonard DA, Torabi R, Mallard C, Albritton A, Randolph MA, Kurtz JM, Sachs DH, Cetrulo CL

21P
LACK OF CROSS-SENSITIZATION BETWEEN ALPHA-1, 3-GALACTOSYLTRANSFERASE KNOCKOUT PORCINE AND ALLOGENEIC SKIN GRAFTS PERMITS SERIAL GRAFTING AND EXTENDED TEMPORARY COVERAGE OF SIMULATED BURN WOUNDS
Presenter: David A. Leonard, MBChB
Affiliation: Massachusetts General Hospital
Authors: Leonard DA, Albritton A, Leto Barone A, Torabi R, Mallard C, Kurtz JM, Sachs DH, Cetrulo CL

22P
AMIFOSTINE THERAPEUTIC ENHANCEMENT OF VASCULARITY IN AN IRRADIATED MANDIBULAR FRACTURE REPAIR MODEL
Presenter: Catherine N. Tchanque-Fossoo, MS, MD
Affiliation: University of Michigan Medical School
Authors: Tchanque-Fossoo CN, Sarhaddi D, Poushanchi B, Donneys A, Deshpande SS, Weiss D, Buchman SR

23P
COMPARISON OF OUTCOMES IN IMMEDIATE IMPLANT-BASED BREAST RECONSTRUCTION VERSUS MASTECTOMY ALONE
Presenter: Janelle A. Dobbins, MD
Affiliation: University of Washington
Authors: Dobbins JA, Feckko R, Calhoun K, Louie O, Neligan PC, Said HK, Mathes DW
24P
RETRIEPTIVE REVIEW OF OCTOGENARIAN BURN PATIENT MORTALITY
Presenter: Helen Malone, MD
Affiliation: Southern Illinois University School of Medicine
Authors: Malone H, Neumeister MW, Bueno RA, Sommer NZ, Markwell SJ, Koechle JL

25P
LYMPHOSOMES IN A CANINE MODEL FOR INVESTIGATING POSTOPERATIVE LYMPHATIC CHANGES
Presenter: Hiroo Suami, MD, PhD
Affiliation: The University of Texas MD Anderson Cancer Center
Authors: Suami H, Yamashita S, Soto MA, Chang DW

26P
DEVELOPMENT AND VALIDATION OF A NOVEL HUMAN MODEL FOR THE EVALUATION OF THERAPEUTICS ON SCAR APPEARANCE
Presenter: Christiana U. Chukwu, AB
Affiliation: Northwestern University Feinberg School of Medicine
Authors: Chukwu CU, Galiano RD, Liu J, Mustoe TA

27P
RAPID BEHAVIORAL RECOVERY AFTER SCIATIC NERVE TRANSECTION ACHIEVED BY AXONAL RECONNECTION WITH POLYETHYLENE GLYCOL AND METHYLENE BLUE
Presenter: Cameron P. Keating, MD
Affiliation: Massachusetts General Hospital
Authors: Keating CP, Britt JM, Kane JR, Zuzek A, Bittner GD, Winograd JM

28P
DECORCELLULARIZED SKELETAL MUSCLE MATRIX AS A HUMAN ADIPOSE-DERIVED STEM CELLS CARRIER FOR WOUND HEALING
Presenter: Qixu Zhang, MD, PhD
Affiliation: University of Texas MD Anderson Cancer Center
Authors: Chang D, Butler C, Iyyani T, Zhang Q, Wang L, Johnson J

29P
TRANSCRIPTOMIC PROFILES OF FIBROBLASTS FROM PHENOTYPICALLY NORMAL PALMAR FASCIA ARE HIGHLY SIMILAR TO FIBROBLASTS FROM ACTIVE DISEASE IN DUPUYTREN'S CONTRACTURE
Presenter: Latha Satish, PhD
Affiliation: University of Pittsburgh
Authors: Satish L, LaFramboise WA, Gallo PH, Vi L, Njorlangattil A, Raykha C, Burger JM, Gorman DO, Gan BS, Baratz ME, Ehrlich GD, Kathju S

30P
A NEW ADIPOSE-DERIVED PERIVASCULAR STEM CELL POPULATION IS SUPERIOR TO Stromal VASCULAR FRACTION FOR CALVARIAL REGENERATION
Presenter: Janette N. Zara, BSEE, MS, MD
Affiliation: University of California - Los Angeles

31P
MYELINATION AND NODES OF RANVIER FORMATION IN THE REGENERATED SCIATIC NERVE BY TRANSPLANTATION OF MYELINFORMING CELLS
Presenter: Christine Radike, MD, PhD
Affiliation: Medical School of Hannover
Authors: Radike C, Reimers K, Lankford KL, Sasaki M, Kocsis JD, Vogt PM
32P
TREATMENT OF CRITICAL-SIZED CALVARIAL DEFECTS USING INKJET-BASED BIOPATTERNING OF BMP2 AND TGFβ1
Presenter: Sameer Shakir
Affiliation: University of Pittsburgh
Authors: Shakir S, Cray JJ, Losee JE, Cooper GM

33P
RAPID RE-SYNOSTOSIS IN MICE IS BOTH LOCATION AND AGE DEPENDENT
Presenter: Christopher Herrmann, BS
Affiliation: Georgia Institute of Technology
Authors: Herrmann CD, Olivares-Navarrete R, Williams JK, Schwartz Z, Boyan BD

34P
ARCH BAR USE IN PRIMARY AND MIXED DENTITION: FEASIBILITY, SAFETY AND OUTCOMES
Presenter: Sanjay Naran, MD
Affiliation: University of Pittsburgh
Authors: Naran S, Afroz PN, Bykowski MR, Smith DM, Rottgers SA, Losee JE

35P
RENAL GRAFTS AND VASCULARIZED COMPOSITE ALLOGRAFTS POSE DIFFERENT BARRIERS TO TOLERANCE INDUCTION
Presenter: Radbeh Torabi, BS
Affiliation: Harvard Medical School/Massachusetts General Hospital
Authors: Torabi R, Leonard DA, Lebo Barone AA, Mallard C, Randolph MA, Sachs DH, Yamada K, Cetrulo CL

36P
DEVELOPING AN ALGORITHMIC APPROACH TO ASSESS BURN DEPTH AND CONTRACTION USING LASER ASSISTED INDOCYANINE GREEN DYE ANGIOGRAPHY
Presenter: Mitchell S. Fourman, MPhil
Affiliation: Stony Brook University Medical Center
Authors: Fourman MS, Phillips BT, Crawford L, Romainelli F, Lin F, Singer AJ, Clark RA

37P
ADIPOSE DERIVED STEM CELL AUGMENT VASCULARIZATION AND INCORPORATION OF ALLOGRAFTS
Presenter: Ginger Slack
Affiliation: University of California Los Angeles
Authors: Slack G, Fan K, Bueno DF, Yuan J, Tabit CJ, Bradley JP

38P
THE USE OF DIGITAL IMAGE SPECKLE CORRELATION ANALYSIS FOR TARGETED TREATMENT OF UPPER FACIAL RHYTIDS WITH BOTULINUM TOXIN TYPE A
Presenter: Alexandra J. Rodman, BA
Affiliation: Stony Brook University Medical Center
Authors: Rodman AJ, Conkling N, Bhatnagar D, Phillips BT, Rafailovich M, Bui DT, Khan SU, Dagum AB

39P
INNOVATIVE APPROACH OF ORGAN TISSUE ENGINEERING USING AUTOLOGOUS MICROCIRCULATORY BEDS AS VASCULARIZED BIOSCAFFOLDS
Presenter: Lars H. Evers, MD
Affiliation: Stanford University
Authors: Evers LH, Tran PS, Simons D, Sorkin M, Longaker MT, Gurtner GC
40P
CHANGES IN CHEMOKINE RECEPTORS EXPRESSION AFTER LOCAL SUBCUTANEOUS INJECTION OF IMMATURE DENDRITIC CELLS IN ALLOTRANSPLANTATION MODELS
Presenter: Yang Yang, MS
Affiliation: Xijing Hospital of Fourth Military Medical University of Chinese PLA
Authors: Yang Y, Lu BL, Hao XY, Zhang J, Zhuang R, Xia W, Yi CG, Guo SZ

41P
CORRELATING BODY MASS INDEX TO ADIPOSE STEM CELL FUNCTIONALITY AND FAT GRAFT RETENTION
Presenter: Jacqueline M. Biley, BS
Affiliation: University of Pittsburgh
Authors: Biley JM, Grahovac TL, Nayar HS, Philips BJ, Courcoulas AP, Marra KG, Rubin JP

42P
DEFEROXAMINE DECREASES NONUNIONS AND RESTORES BONE QUALITY AND BIOMECHANICAL STRENGTH IN PATHOLOGIC FRACTURE HEALING AFTER RADIOTherAPY
Presenter: Salman Ahsan
Affiliation: University of Michigan
Authors: Ahsan S, Donneys A, Deshpande SS, Tchanque-Fossoo CN, Felice PA, Buchman SR, Perosky J, Kozloff K

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INTENSITY AND TIME-BASED ANALYSIS FOR PREDICTION OF FLAP NECROSIS USING NEAR-INFRARED ANGIOGRAPHY
Presenter: Gabriel Brat, MD, MPH
Affiliation: Johns Hopkins Hospital

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RADIOTherAPY PREDICTABLY PREVENTS BONY UNION THROUGH QUANTIFIABLE DIMINUTIONS IN VASCULARITY AND CELLULARITY IN A MURINE MODEL OF MANDIBULAR PATHOLOGIC FRACTURE HEALING
Presenter: Deniz Sarhaddi, BA
Affiliation: The University of Michigan
Authors: Sarhaddi D, Donneys A, Poushanchi B, Deshpande SS, Nelson NS, Felice PA, Weiss DM, Ahsan S, Buchman SR

45P
NEOINTIMAL HYPERPLASIA: AN ANALYSIS OF CILOSTAZOL AS AN INHIBITORY AGENT IN A RAT VEIN INTERPOSITION GRAFT MODEL
Presenter: Stephanie D. Malliaris, MD
Affiliation: New York Presbytarian Hospital
Authors: Malliaris SD, Akelina Y, Ascherman JA

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DEFEROXAMINE AUGMENTS VASCULARITY AND PREVENTS OSTEOCYTE DEPLETION FOLLOWING RADIOTherAPY IN A MANDIBULAR PATHOLOGIC FRACTURE MODEL
Presenter: Daniela M. Weiss
Affiliation: University of Michigan
Authors: Weiss DM, Donneys A, Tchanque-Fossoo CN, Deshpande SS, Felice PA, Buchman SR, Poushanchi B, Sarhaddi D