FULL PROGRAM

Wednesday, May 27, 2009

2:00 - 4:00 pm  PSRC Ice Hockey Game
4:00 - 6:00 pm  Registration
5:00 - 6:30 pm  Executive Committee Meeting

Thursday, May 28, 2009

6:30 am - 5:00 pm  Registration
6:00 - 7:00 am  Continental Breakfast at Hilton
7:00 - 7:30 am  Buses depart Hilton
8:00 - 8:10 am  Welcoming Remarks
                J. Peter Rubin, MD

8:10 am - 12:00 pm  Local Program
                   University of Pittsburgh - Scaife Hall

8:10 - 8:30 am  Building a Successful Research Environment
                Arthur S. Levine, MD
                Senior Vice Chancellor for the Health Sciences
                Dean, University of Pittsburgh School of Medicine

8:30 - 8:50 am  Lessons from a Surgeon-Scientist
                Timothy R. Billiar, MD
                George Vance Foster Professor and Chair
                Department of Surgery, University of Pittsburgh School of Medicine

8:50 - 9:10 am  Innovations Built Upon Tradition: Pitt Plastic Surgery
                W. P. Andrew Lee, MD
                Professor of Surgery and Orthopedic Surgery
                Chief, Division of Plastic Surgery, University of Pittsburgh School of Medicine

9:10 - 9:30 am  Why is Polio so Difficult to Eradicate?
                Julius S. Youngner, ScD
                Distinguished Service Professor Emeritus of Molecular Genetics and Biochemistry
                University of Pittsburgh School of Medicine

9:30 - 10:00 am  Coffee Break

10:00 - 10:20 am  Guest Society Updates - ASPS/PSEF, ASAPS/ASERF, and AAPS
                Peter C. Nelligan, MB, BCh - PSEF President
                Bahman Guyuron, MD - AAPS President and ASERF Immediate Past President
10:20 - 10:40 am
Immunology of Composite Tissue Transplantation
Thomas E. Starzl, MD, PhD
Distinguished Service Professor of Surgery, University of Pittsburgh

10:40 - 11:00 am
Regenerative Medicine and the Future of Healthcare
Alan J. Russell, PhD
Distinguished University Professor of Surgery & Director
McGowan Institute for Regenerative Medicine
University of Pittsburgh & UPMC

11:00 am - 11:20 pm
Commercializing University Scientific Innovation: Success Stories
Marc S. Malandro PhD, CLP
Associate Vice Chancellor for Technology Management and Commercialization
University of Pittsburgh

11:20 am - 11:45 pm
Pittsburgh: A City of Innovation
Andy Masich
President and CEO of The Senator John Heinz History Center

12:00 pm Sharp
Members’ Photograph at PITT (immediately following end of local program)

12:00 - 12:30 pm
Buses return to Hilton

12:30 - 2:00 pm
Lunch for Non-Members

12:45 - 2:30 pm
Lunch & Business Meeting - Members only

2:30 - 3:30 pm
Third Annual Special Interdisciplinary Panel
Moderator: Peter Taub, MD
Speaker: Patricia A. Hebda, PhD - University of Pittsburgh
   President, Wound Healing Society
Panelists: Mark Randolph, MAS
   Justin Sacks, MD
   Melanie Urbanchek, PhD

3:30 - 4:00 pm
Coffee with Exhibitors

Scientific Session 1
Plenary Paper Session
Clinical Outcomes, Tissue Engineering

4:00 - 5:00 pm
IA - 6A
Moderator: David Brown, MD
Co-Moderator: Jeffrey Weinzweig, MD, FACS

4:00 pm
IA
Awards Eligibility: Snyder
IMPLANT-BASED BREAST RECONSTRUCTION USING ACELLULAR DERMAL MATRIX AND THE RISK OF POST-OPERATIVE COMPLICATIONS
Presenter: Yoon Chun, MD
2A

SALVAGE OF TISSUE EXPANDER IN THE SETTING OF MASTECTOMY FLAP NECROSIS (MFN): A 13-YEAR EXPERIENCE USING TIMED EXCISION WITH CONTINUED EXPANSION
Presenter: Anuja K. Antony, MD
Authors: Antony AK, Mehrara BM, McCarthy CM, Zhong T, Kropf N, Disa JJ, Pusic A, Cordeiro PG

3A

POST-RECONSTRUCTION SURVIVAL IN BREAST CANCER PATIENTS TREATED WITH MASTECTOMY: AN ANALYSIS USING THE SURVEILLANCE, EPIDEMIOLOGY, AND END RESULTS (SEER) PROGRAM
Presenter: Shailsh Agarwal, BS
Authors: Agarwal S, Liu JH, Pappas L, Agarwal J

4A

PATIENTS' PERCEPTION OF ABDOMINAL WALL MORBIDITY FOLLOWING ABDOMINALLY-BASED AUTOLOGOUS TISSUE BREAST RECONSTRUCTION: AN OUTCOMES ANALYSIS
Presenter: Patrick L. Reavey, MD

5A

PURIFICATION OF FOUR DISTINCT CELL POPULATIONS IN THE STROMAL VASCULAR FRACTION OF HUMAN ADIPOSE TISSUE: ADIPOGENIC POTENTIAL AND IMPLICATIONS FOR SOFT TISSUE ENGINEERING
Presenter: Han Li, MD
Authors: Li H, Zimmerlin L, Marra KG, Donnenberg VS, Donnenberg A, Rubin JP

6A

DEVELOPMENT OF A BIOSYNTHETIC “LIVING INTERFACE” WITH SEVERED PERIPHERAL NERVE
The views expressed in this work are those of the authors and do not necessarily reflect official Army policy. This work was supported by the Department of Defense Multidisciplinary University Research Initiative (MURI) program administered by the Army Research Office under grant W911NF0610
Presenter: Christopher M. Frost
Authors: Frost CM, Urbanchek MG, Egeland BM, Larkin LM, Kuzon WM, Martin DM, Cederna PS

Scientific Session 2
Plenary Paper Session
Tissue Engineering, Wound Healing & Stem Cells

5:00 - 6:00 pm
7A - 12A
Moderator: Scott Hansen, MD
Co-Moderator: Gregory H. Borschel, MD

7A

SPATIAL REGULATION OF BONE FORMATION INDUCED BY BMP2 IN VIVO (NIH NIDCR DE19430-01 (GC))
Presenter: Gregory M. Cooper, PhD
Authors: Cooper GM, Miller ED, Lensie EL, DeCesare GE, Usas A, Bykowski MR, Huard J, Weiss LE, Campbell PG
5:10 pm

8A
ALTERING SCAFFOLD ARCHITECTURE TO INCREASE CELLULARITY AND MINERALIZATION CAPACITY BY LIPOASPIRATE-DERIVED MESENCHYMAL STEM CELLS IN 3-DIMENSIONAL PERFUSION CULTURE
Presenter: Derek D. Reformat, BS
Authors: Reformat DD, Davidson EH, Allori AC, Sailon AM, Clark EA, Smay J, Wootton D, Bromage T, Ricci JL, Warren SM

5:20 pm

9A
BETA-CATENIN DEPENDENT WINGLESS (WNT) SIGNALING INCREASES REEPITHELIZATION AND SCAR FORMATION AFTER CUTANEOUS WOUNDING
Presenter: Antoine L. Carre, MD
Authors: Carré AL, James AW, Kawai K, MacLeod LC, Helms JA, Longaker MT, Lorenz HP

5:30 pm

10A
TOPICAL P53 SILENCING AUGMENTS VASCULARITY TO IMPROVE DIABETIC WOUND HEALING
Presenter: John P. Tutela, MD

5:40 pm

11A
DIABETIC MESENCHYMAL STEM CELLS LACK A POPULATION OF CELLS THAT EXPRESS GENES NEEDED TO MAINTAIN PLURIPOTENCY AS DETERMINED BY MICROFLUIDIC SINGLE CELL TRANSCRIPTIONAL ANALYSIS
Presenter: Ivan N. Vial, BA
Authors: Vial IN, Glotzbach JP, Januszyk M, Thangarajah H, Chang E, Longaker MT, Gurtner GC

5:50 pm

12A
TRANSPLANTED CAPILLARY LYMPHATICS SPONTANEOUSLY RE-ANASTOMOSE WITH LOCAL VESSELS AND BYPASS DAMAGED LYMPHATIC NETWORKS TO DECREASE ACUTE LYMPHEDEMA
Presenter: Tomer Avraham, MD
Authors: Kasten JL, Avraham T, Daluvoy SV, Clavin NW, Fernandez J, Mehrara BJ

7:00 - 10:00 pm

Members' Dinner
Le Mont Restaurant
(Buses leave Hilton at 6:45 pm)
6:30 am - 5:00 pm
Registration

6:30 - 7:30 am
Continental Breakfast with Exhibitors

Scientific Session 3
Concurrent Podium Paper Session
Group A: Clinical Outcomes I
Group B: Tissue Engineering
Group C: Ischemia, Reperfusion

7:30 - 9:00 am
13A - 23A
Group A: Clinical Outcomes I
Moderator: Joseph E. Losee, MD
Co-Moderator: Matthew B. Klein, MD

7:30 am
13A
Award Eligibility: Hardesty
ANATOMIC LANDMARKS FOR THE FIRST DORSAL COMPARTMENT
Presenter: Yaron Hazani, MD
Authors: Hazani Y, Wilhelmi BJ, Engineer NJ

7:38 am
14A
Award Eligibility: Hardesty
A LARGE RETROSPECTIVE COMPARISON OF SEROMA FORMATION FOLLOWING ABDOMINOPLASTY WITH OR WITHOUT LIPOSUCTION
Presenter: Robert M. Najera, MD
Authors: Najera RM, Ashfeld W, Sayeed S, Glickman L

7:46 am
15A
Award Eligibility: Hardesty
SUBGLANDULAR VERSUS SUBFASCIAL POCKETS FOR BREAST AUGMENTATION USING COHESIVE-GEL TEXTURIZEDROUND IMPLANTS: A PROSPECTIVE, RANDOMIZED AND DOUBLE MASKED CONTROLLED CLINICAL STUDY
Presenter: Arturo S. Prado, MD

7:54 am
16A
Award Eligibility: Hardesty
PREVENTION OF VENOUS THROMBOEMBOLISM (VTE) IN BODY CONTOURING SURGERY: A NATIONAL SURVEY OF ASPS SURGEONS
Presenter: Julio A. Clavijo-Alvarez, MD, PhD
Authors: Clavijo-Alvarez JA, Pannucci C, Oppenheimer A, Wilkins E, Rubin JP

8:02 am
17A
QUALITATIVE AND QUANTITATIVE OUTCOMES OF AUDIENCE RESPONSE SYSTEMS AS AN EDUCATIONAL TOOL IN A PLASTIC SURGERY RESIDENCY PROGRAM: A PILOT STUDY
Presenter: Kailash Narasimhan
Authors: Arneja JS, Narasimhan K, Bouwman D, Bridge P

8:10 am
18A
Award Eligibility: Hardesty
COMPLICATION RATES OF ABDOMINOPLASTY WITH VERTICAL COMPONENT IN THE MASSIVE WEIGHT LOSS (MWL) PATIENT
Presenter: Tali Friedman, MD
Authors: Friedman T, Coon DC, Michaels J, Rubin JP
19A
THE EFFECT OF RHINOPLASTY ON THE INTERNAL NASAL VALVE: A COMPARISON BETWEEN INTERNAL CONTINUOUS OSTEOTOMY AND EXTERNAL PERFORATING OSTEOTOMY
Presenter: Samuel Lin, MD
Authors: Rabie A, Helal MZ, El-Tarabishi M, Sabry S, Lin SJ

20A
WHAT PATIENTS LOOK FOR WHEN CHOOSING A PLASTIC SURGEON: AN ASSESSMENT OF PATIENT PREFERENCE BY CONJOINT ANALYSIS
Presenter: Joshua T. Waltzman
Authors: Waltzman JT, Evans GR, Scholz T

21A
PROSPECTIVE ASSESSMENT OF NUTRITION AND EXERCISE PARAMETERS BEFORE BODY CONTOURING SURGERY: OPTIMIZING ATTAINABILITY IN THE MASSIVE WEIGHT LOSS POPULATION
Presenter: Peter F. Koltz, MD
Authors: Koltz PF, Zimmerli A, Carubia P, DiBella K, Messing S, Chen R, Gusenoff JA

22A
VENOUS THROMBOEMBOLISM (VTE) PROPHYLAXIS IN THE MASSIVE WEIGHT LOSS (MWL) PATIENT
Presenter: Joseph Michaels V, MD
Authors: Michaels J, Coon D, Friedman T, Purnell C, Naghshineh N, Clavijo J, Rubin JP

23A
MULTIPLE PROCEDURES AND THE MASSIVE WEIGHT LOSS POPULATION: OPTIMIZING OUTCOMES AND REDUCING RISK
Presenter: Devin Coon, BA
Authors: Coon D, Gusenoff JA, Shestak KC, Michaels J, Rubin JP

24B - 34B
Group B: Tissue Engineering
Moderator: Gregory H. Borschel, MD
Co-Moderator: Babak J. Mehrara, MD

24B
MICROPATTERNED BIOMIMETIC CHANNELS IN A POLCAPROLACTONE (PCL) SCAFFOLD RESULT IN INDUCTIVE VASCULOGENESIS FOR TISSUE ENGINEERING
Presenter: Harvey Chim, MD
Authors: Chim H, Schantz JT

25B
PHOTOCHEMICALLY CROSSLINKED COLLAGEN GEL FOR ENGINEERING HUMAN CARTILAGE
Presenter: Xing Zhao, MD
Authors: Zhao X, Bichara DA, Ibusuki S, Randolph MA, Redmond RW, Kochever IE, Gill TJ
26B  Award Eligibility: Hardesty
PORCINE ALLOGRAFT MANDIBLE REVITALIZATION USING
OSTEONEICALLY-INDUCED AUTOLOGOUS ADIPOCYTE-DERIVED
STEM CELLS AND PERIOSTEUM
Presenter: Christopher M. Runyan, PhD
Authors: Runyan CM, Jones DC, Simpson DS, Bove KE, Maercks RA, Taylor JA

27B  Award Eligibility: Hardesty
A TISSUE-BASED BIOELECTRICAL INTERFACE WITH REDUCED
IMPEDANCE COMPARED TO COPPER WIRE AND NERVE
Presenter: Brent M. Egeland, MD
Authors: Egeland BM, Urbanchek MG, Abidian MR, Kuzon WM, Kipke DR,
Cederna PS

28B  Award Eligibility: Hardesty
PEDIATRIC MANDIBLE FRACTURES: PRESENTATION, MANAGEMENT,
AND EARLY FOLLOW-UP
Presenter: Darren M. Smith, MD
Authors: Smith DM, Bykowski MR, Rottgers SA, Madia JV, Naran S, DeCesare GE,
Vecchione L, Jiang S, Deleyiannis F, Losee JE

29B  Award Eligibility: Hardesty
ENDOTHELIAL PROGENITOR CELLS CONTRIBUTE TO FORMATION
OF NEO-CAPILLARIES AFTER SUBCUTANEOUS IMPLANTATION IN A
FIBRIN MATRIX
Presenter: Oliver A. Bleiziffer, MD
Authors: Bleiziffer OA, Hammon M, Naschberger L, Sturzl M, Arkudas A,
Kneser U, Horch RE

30B  Award Eligibility: Hardesty
RECONSTRUCTION OF ENGINEERED CARTILAGE WITH PRECISE
AURICLE SHAPE AIDED BY COMPUTER-AIDED DESIGN AND
MANUFACTURING TECHNIQUES
Presenter: Yu Liu, MS

31B  Award Eligibility: Hardesty
HYDROSTATIC PRESSURE (HP)-DRIVEN 3-D CHONDROINDUCTION
USING HUMAN ADIPOSE-DERIVED STEM CELLS AND COLLAGE GEL
Presenter: Rei Ogawa, MD, PhD
Authors: Ogawa R, Orgill DP, Murphy GF, Mizuno S
32B  Award Eligibility: Hardesty
NEL-L MEDIATES BONE REGENERATION AND SUPPRESSES BMP-2
INDUCED CYST FORMATION IN A RAT FEMORAL SEGMENTAL
DEFECT MODEL
This research is funded by the University of California Discovery Grant
Presenter: Ronald K. Siu, BS, MS
Authors: Siu RK, Li W, Lee M, Zhang X, Wu BM, Ting K, Soo C

33B  Award Eligibility: Hardesty
AGING OF THE MANDIBLE AND ITS AESTHETIC IMPLICATIONS: A
THREE DIMENSIONAL CT STUDY
Presenter: Robert B. Shaw Jr., MD
Authors: Shaw RB, Katzal EA, Koltz P, Kahn DM, Girotto JA, Langstein HN

34B  Award Eligibility: Hardesty
ADHESION AND INTEGRATION STRENGTH OF TISSUE ENGINEERED
CARTILAGE TO NATIVE CARTILAGE AND BONE AND SYNTHETIC
SUBSTRATE
Materials and funds from Porex, Inc; Funds fro AO/ASIF Foundation
Presenter: Niamh A. O'Sullivan, MD
Authors: O'Sullivan NA, Randolph MA, Johnson TS, Villa MT, Bonassar LJ,
Yaremchuk MJ

7:30 - 9:00 am
35C - 45C
Group C: Ischemia, Reperfusion
Moderator: Jason A. Spector, MD
Co-Moderator: Scott Hansen, MD

35C  Award Eligibility: Hardesty
THE SYSTEMIC EFFECT OF I-NOS INHIBITION IN FULL THICKNESS
BURN WOUND
Presenter: Lars H. Evers, MD
Authors: Evers LH, Lassen A, Bhavsar D, Tenenhaus M, Mailaender P

36C  Award Eligibility: Hardesty
POLOXAMER 188 SIGNIFICANTLY DECREASES MUSCLE NECROSIS IN
A MURINE HINDLIMB MODEL OF ISCHEMIA-REPERFUSION INJURY
Presenter: Adrian D. Murphy, MD
Authors: Murphy AD, Bichara D, McCormack MC, Randolph MA, Austen WG

37C  Award Eligibility: Hardesty
PROTECTIVE EFFECT OF TSP1/CD47 BLOCKADE FOLLOWING
ISCHEMIA REPERFUSION INJURY
Presenter: Justin B. Maxhimer, MD
Authors: Maxhimer JB, Isenberg JS, Miller TW, Shih HB, Roberts DD

38C  Award Eligibility: Hardesty
ULCER PROPHYLAXIS IN DIABETES WITH TRANSDERMAL
DELIVERY OF DEFEROXAMINE
Presenter: Evgenios A. Neofytuo, MD
Authors: Neofytuo EA, Galvez MG, Chang EI, Thangarajah H, Rajadas J, Gurtner GC
MELATONIN ATTENUATES THE DEPLETION OF MITOCHONDRIAL CYTOCHROME C IN THE CELLS OF RAT SKELETAL MUSCLE AFTER ISCHEMIA/REPERFUSION IN VIVO
Presenter: Wei Z. Wang, MD
Authors: Wang WZ, Fang XH, Stephenson LL, Zhang XL, Khiabani KT, Zamboni WA

THERAPEUTIC METABOLIC INHIBITION: HYDROGEN SULFIDE SIGNIFICANTLY MITIGATES MUSCLE ISCHEMIA REPERFUSION INJURY IN VITRO AND IN VIVO
Presenter: Sunil Singh, MD
Authors: Singh S, Henderson PW, Nagineni V, Spector JA, Weinstein AL

EFFICACY AND MECHANISM OF NA/H EXCHANGE ISOFORM-1 (NHE-1) INHIBITION IN PREVENTION/SALVAGE OF SKELETAL MUSCLE FROM ISCHEMIA/REPERFUSION (I/R) INJURY
Presenter: Neil J. Cahoon, MBChB, MRCS
Authors: Cahoon NJ, McAllister SE, Ashrafpour H, Huang N, Jindal K, Forrest CR, Neligan PC, Lipa JE, Pang CY

FLAP MARGIN ADMINISTRATION OF HYPOXIA PRE-CONDITIONED ADIPOSE-DERIVED STEM CELLS IMPROVES OXYGENATION BY PROMOTING LOCAL AND INTERFACIAL ANGIGENESIS
Presenter: Scott T. Hollenbeck, MD
Authors: Hollenbeck ST, Komatsu I, Yang J, Levin LS, Klitzman B

SIGNIFICANT NEOVASCULARIZATION EFFECT INDUCED BY NON VIRAL TRANSFECTION OF VASCULAR ENDOTHELIAL GROWTH FACTOR AND BASIC FIBROBLAST GROWTH FACTOR
Presenter: Alex Slobodianski, MD

MICROSTRUCTURAL FAT GRAFTING IMPROVES RADIATION SKIN DAMAGE
Presenter: Carrie Scharf, BA
Authors: Canizares O, Allen RJ, Nguyen PD, Scharf CL, Thanik VD, Saadeh PB, Warren SM, Coleman SR, Hazen A

ENHANCED FAT PROTECTION AND SURVIVAL IN FAT TRANSPLANTATION VIA TREATMENT WITH POLOXAMER 188
Presenter: John T. Nguyen, MD
Authors: Nguyen JT, Medina MA, McCormack MC, Randolph MA, Austen WG

Coffee with Exhibitors
9:30 - 11:00 am
46A - 54A
Moderator: Paul S. Cederna, MD, FACS
Co-Moderator: Peter J. Taub, MD, FACS

9:30 am
46A  Award Eligibility: Snyder
THE CLEVELAND CLINIC FACES SCORE FOR FACE TRANSPLANT CANDIDATE ASSESSMENT AND REGISTRY DEVELOPMENT
Presenter: Chad R. Gordon, DO
Authors: Gordon CR, Alam D, Bernard S, Djohan R, Papay F, Zins JE, Coffman K, Siemionow M

9:40 am
47A
IL-21 ANTAGONIZING FUSION PROTEIN PROMOTES ALLOGRAFT TOLERANCE
Presenter: Joshua Lee

9:50 am
48A  Award Eligibility: Snyder
CO-EXISTENCE OF DONOR AND RECIPIENT BONE MARROW IN THE VASCULARIZED FIBULA ALLOGRAFT MARROW AFTER 6 MONTHS USING TACROLIMUS MONOTHERAPY IN NON-HUMAN PRIMATES
Presenter: Helen Hui-Chou, MD
Authors: Hui-Chou H, Nam AJ, Stanwix MG, Drachenberg CB, Kukuruga DL, Shipley ST, Bartlett ST, Barth RN, Rodriguez ED

10:00 am
49A  Award Eligibility: Crielair
SENSORY PROTECTION RECOVERY FOLLOWS NERVE REGENERATION THROUGH AN ELECTRICALLY CONDUCTING NERVE GRAFT
The views expressed in this work are those of the authors and do not necessarily reflect official Army policy.
This work was supported by the Department of Defense Multidisciplinary University Research Initiative (MURI) program administered by the Army Research Office under grant W911NF0
Presenter: Melanie G. Urbanchek, PhD
Authors: Urbanchek MG, Abidian MR, Ewing KA, Egeland BM, Schroeder KM, Daneshvar DE, Cederna PS, Kipke DR, Kuzon WM, Miriani RM

10:10 am
50A  Award Eligibility: Snyder
A NOVEL TRANSGENIC RAT EXPRESSING GREEN FLUORESCENT PROTEIN (GFP) IN PERIPHERAL NERVE
Presenter: Amy M. Moore, MD
Authors: Moore AM, Tong AY, Yan Y, Kasukurthi R, Ray WZ, Ray DA, Mackinnon SE, Borschel GH

10:20 am
51A  Award Eligibility: Gingrass
NOTCH3 IS ASSOCIATED WITH STEM CELLS IN PROLIFERATING HEMANGIOMAS
Presenter: Omoitiuwe M. Adepojou, MD
Authors: Adepojou OM, Wu J, DeSilva D, Boscolo E, Bischoff J, Kitajewski J
52A
CROUZON SYNDROME AND CLEFT PALATE: LESSONS FROM THE MURINE MODEL
Fresh Start Surgical Gift (Plastic Surgery Educational Foundation)
Presenter: Alison K. Snyder-Warwick, MD
Authors: Snyder-Warwick AK, Perlyn CA, Ornitz DM

10:40 am

53A
BMP-2 WITHIN CAD/CAM BILAMINAR RESORBABLE MESH PROMOTES CRANIAL DEFECT BONE HEALING
Presenter: Hurig Katchkian, MD
Authors: Bradley JP, Katchkian H, Jarrahy R, Yang C

10:50 am

54A
COMPARISON OF BIODEGRADABLE FIXATION: WHICH MECHANISM OF FIXATION PROVIDES THE GREATEST PULL-OUT STRENGTH?
Presenter: Bryan S. Armijo, MD
Authors: Armijo BS, Esraghi Y, Gosain AK

Scientific Session 5
Concurrent Podium Paper Session
Group A: Transplant I
Group B: Clinical Outcomes II
Group C: Wound Healing, Stem Cells I

11:00 am - 12:00 pm

55A - 61A
Group A: Transplant I
Moderator: Justin M. Sacks, MD
Co-Moderator: James J. Chao, MD, FACS

11:00 am

55A
TOLERANCE TO A COMPOSITE TISSUE ALLOGRAFTS AFTER THE INDUCTION OF MIXED CHIMERISM IN A PRE-CLINICAL LARGE ANIMAL MODEL
Presenter: David W. Mathes, MD
Authors: Mathes DW, Edwards J, Miwongtum T, Graves S, Storb R

11:08 am

56A
RABBIT FACE TRANSPLANTATION AND IMMUNE REJECTION RESPONSE
Presenter: SeokChan Eun, MD
Authors: Eun SC, Kim JH, Jeong HK, Heo CY, Baek RM, Chang H, Minn KW, Kim SW, Park CG

11:16 am

57A
B-CELL CHIMERISM CONTRIBUTION TO FACE ALLOGRAFTS SURVIVAL IN FACE ALLOGRAFT MODELS CONTAINING VASCULARIZED BONE MARROW COMPONENT
Presenter: Aleksandra Klimczak, PhD
Authors: Klimczak A, Agaoglu G, Yazici I, Unal S, Kulahci Y, Siemionow M
EFFICACIOUS TRANSDUCTION, INTEGRATION, INSULATION, AND LONG-TERM CONSTITUTIVE EXPRESSION OF TRANSGENES IN COMPOSITE TISSUE
Presenter: Erin L. Weber, MD, PhD
Authors: Weber EL, Shiba TL, Leto Barone A, Cetrulo CL

CO-TRANSPLANTED VASCULARIZED BONE MARROW VOLUME, IMMUNOSUPPRESSION LEVEL, AND VIRAL STATUS AFFECT MACROCHIMERISM, MALIGNANCY, AND PROLONGED GRAFT SURVIVAL OF COMPOSITE FACE AND FIBULA ALLOGRAFTS IN NON HUMAN PRIMATES
Presenter: Arthur J. Nam, MD
Authors: Nam AJ, Hui-Chou H, Stanwix MG, Drachenberg CB, Kukuruga DL, Shipley ST, Bartlett ST, Barth RN, Rodriguez ED

CHEMICAL CASPASE INHIBITION AS A NOVEL FORM OF CYTOPROTECTION DURING ACUTE REJECTION OF COMPOSITE TISSUE ALLOTRANSPLANTATION (CTA)
Presenter: Nikolaos Sachpekidis, MD, PhD

INHIBITION OF A HUMORAL RESPONSE IN SECONDARILY VASCULARIZED SKIN ALLOGRAFTS
Presenter: Lauren Brasile, PhD
Authors: Brasile L, Stubenitsky BM

SEGMENTAL HEMANGIOMAS OF INFANCY: A TREATMENT ALGORITHM DEVELOPED FROM 103 CASES
Presenter: Christopher R. Spock, MD, MHS
Authors: Spock CR, Waner M, Levitin G, Schultz B, Narayan D

PEDIATRIC CRANIOFACIAL FRACTURES: A FIVE YEAR INSTITUTIONAL REVIEW OF 1508 CONSECUTIVE PATIENTS
Presenter: Lorelei J. Grunwaldt, MD
Authors: Grundwaldt LJ, DeCesare GE, Madai JV, Chao Mills M, Deleyiannis FW, Jiang S, Vecchione L, Smith D, Naran S, Saladino R, Zuckerbraun N

11:24 am 65B  COMPARISON OF THE LONG-TERM OUTCOMES IN PATIENTS WITH UNILATERAL AND BILATERAL CLEFT LIP/NOSE AND PALATE: A STUDY BASED ON A 38-YEAR EXPERIENCE  Presenter: Haisong Xu, MD  Authors: Xu H, Sperry EE, Genecov ER, Schneiderman E, Salyer KE  

11:32 am 66B  ANALYSIS OF THE JUGULAR FORAMEN IN PEDIATRIC PATIENTS WITH CRANIOSYNOSTOSIS  Presenter: Colin D. Booth, BS  Authors: Booth CD, Lehn RA, Yu JC  

11:40 am 67B  ECTROPION AND ENTROPION INCIDENCE AFTER FACIAL FRACTURE REPAIR: A RETROSPECTIVE STUDY AND META-ANALYSIS COMPARING SUBTARSAL, SUBCILIARY AND TRANSCONJUNCTIVAL INCISIONS  Presenter: Emily B. Ridgway, MD  Authors: Chen M, Ridgway EB, Lee BT  


11:00 am - 12:00 pm 69C - 75C  Group C: Wound Healing, Stem Cells I  Moderator: Robert D. Galiano, MD  Co-Moderator: Eric Chien-Wei Liao, MD  

11:00 am 69C  SIGNAL TRANSDUCTION OF THE INNATE AND ADAPTIVE IMMUNE SYSTEM AFTER TRANSIENT CUTANEOUS ADENOVIRAL GENE DELIVERY  Presenter: Matthias Schulte, PhD  Authors: Schulte M, Jacobsen F, Otte JM, Hirsch T, Al-Benna S, Stupka J, Daigeler A, Goertz O, Steinau HU, Steinstraesser L  

11:08 am 70C  GENOMIC PROFILING OF SUB-POPULATIONS OF ADULT ADIPOSE DERIVED STEM CELLS REVEALS DIFFERENCES IN INSULIN LIKE GROWTH FACTOR PATHWAY  Presenter: Jimmy C. Sung, MD, JD  Authors: Lee H, Schipper B, Rubin JP, Zimmerlin L, Pfeiffer M, Marra K, Donnenberg V, Donnenberg D
71C
A NOVEL ANIMAL MODEL TO STUDY CAPSULAR CONTRACTURE UTILIZING LIVESCANN MICROCT TECHNOLOGY
This research is funded in part by a LifeCell Research Grant
Presenter: Evan B. Katzel, BA
Authors: Katzel EB, Koltz PF, Miller NB, Awad HA, Okeefe RJ, Langstein HA

72C
THE BIOLOGICAL ACTIVITY OF CIRCULATING ENDOTHELIAL PROGENITOR CELL (EPC) IS THE PUTATIVE KEY FACTOR TO DETERMINE THE EFFICACY OF AUTOLOGOUS G-CSF MOBILIZED EPC THERAPY FOR DIABETIC PATIENTS WITH CHRONIC NON HEALING ULCER
Presenter: Rica Tanaka, MD, PhD
Authors: Tanaka R, Masuda H, Wada M, Ito R, Fukui T, Asahara T, Miyasaka M

73C
ENDOTHELIAL PROGENITOR CELLS LEVELS, HOMING AND VITALITY IN BURNED PATIENTS
Presenter: Luca Lancerotto, MD
Authors: Lancerotto L, Schipilliti M, De Toni L, Vindigni V, Tomat V, Mazzoleni F, Foresta C

74C
POST-TRANSPLANT ARTERIOSCLEROSIS AND DIABETES COMPROMISES ENDOTHELIAL PROGENITOR CELL FUNCTION AND DIFFERENTIATION
Presenter: Edwin Chang, PhD
Authors: Chang E, Neofytou E, Beach L, Sinha S, Fearon W, Cooke J, Gurtner G

75C
HUMAN BLOOD OUTGROWTH ENDOTHELIAL CELLS (HBOEC) INDUCE DERMAL MATRIX ORGANIZATION AND EPIDERMAL RECOVERY THROUGH INCREASED OXYGEN DELIVERY AND TROPHIC FACTOR PRODUCTION
Presenter: Benoit I. Hendricks, MD
Authors: Hendricks BI, Verdonck K, Dickens S, Van den Berge S, Vranckx JJ, Luttun A

12:00 - 1:30 pm
Luncheon Lecture: Anatomy of a Start Up
Provided by: Cohera Medical Inc.
Speakers: Patrick Daly & Eric Beckman, MD
Scientific Session 6
Concurrent Podium Paper Session
Group A: Craniofacial
Group B: Tissue Engineering II
Group C: Wound Healing, Stem Cells II

1:30 - 3:30 pm

76A - 90A
Group A: Craniofacial
Moderator: Joseph E. Losee, MD
Co-Moderator: Steven R. Buchman, MD

1:30 pm

76A
Award Eligibility: Hardesty
ANALYSIS OF FRONTAL AND ORBITAL OSTEOTOMY FIXATION USING A NOVEL ADHESIVE RESORBABLE PLATING SYSTEM FOR CRANIOFACIAL RECONSTRUCTION
Presenter: Jeffrey Weinzeig, MD, FACS
Authors: Weinzeig J, Manchio J, Sati S, Jain S, Panter K, Wu Q, Shrivastava A, McCarthy S

1:38 pm

77A
Award Eligibility: Hardesty
REGIONAL DIFFERENCES IN NEURAL CREST AND PARAXIAL MESODERM-DERIVED CALVARIAL BONE HEALING ASSOCIATED WITH DIFFERENTIAL ACTIVATION OF WNT SIGNALING
Presenter: Nicholas J. Panetta, MD
Authors: Panetta NJ, Gupta DM, Kwan MD, Wan DC, Quarto N, Longaker MT

1:46 pm

78A
Award Eligibility: Hardesty
EX VIVO TRANSECTION OF MOUSE CALVARIAL ORGAN USING ACCELL-MODIFIED SIRNA
Presenter: Yashar Eshrighi, MD
Authors: Eshrighi Y, Gliniak CM, Ghanem M, Gupta AK, Gosain AK

1:54 pm

79A
Award Eligibility: Hardesty
TGF-B1 REGULATES THE OSTEOGENIC ANTAGONIST, NOGGIN, IN MOUSE CRANIAL DURA CELLS
Presenter: Christy M. Gliniak, BS
Authors: Gliniak CM, Eshrighi Y, Lo PH, Gupta AK, Gosain AK

2:02 pm

80A
RESPONSE OF OSTEOBLASTS ON MICROSTRUCTURED SURFACES TO 1,25 (OH) 2D3 AND 17BETA-ESTRADIOL IS SEX-SPECIFIC
The titanium disks used in this study were provided by Institut Straumann AG (Basel, Switzerland). Funding was provided by the NIH (AR052102), the ITI Foundation, and Children’s Healthcare of Atlanta.
Presenter: Rene Olivares-Navarrete

2:10 pm

81A
Award Eligibility: Hardesty
BMP2’S EFFECTS ON BONE HEALING IN THE “CHRONIC” CALVARIAL WOUND
Presenter: Gary E. DeCesare Jr., MD
Authors: DeCesare GE, Cooper GM, Losee JE, Mooney MP, Cray J, Lensie EL, Smith DM
2:18 pm  
82A  
APPLICATION OF FGF-2 MIMICS BONEHEALING POTENTIAL OF 
FRONTAL BONES IN PARIETAL CALVARIAL DEFECTS  
Presenter: Bjorn Behr, MD  
Authors: Behr B, Panetta NJ, Longaker MT, Quarto N

2:26 pm  
83A  
HUMAN EQUIVALENT RADIATION DOSE-RESPONSE IN THE RAT 
MANDIBLE  
Presenter: Laura A. Monson, MD  
Authors: Monson LA, Buchman SR, Jing LJ

2:34 pm  
84A  
A NOVEL DELIVERY SYSTEM OF PULSED ELECTROMAGNETIC 
FIELDS ACCELERATES OSTEOGENIC DIFFERENTIATION OF 
MESENCHYMAL STEM CELLS  
ASMS Synthes MSF Research Grant (RRR); the American Cancer Society (TCH and HHIL), The Brinson 
Foundation (TCH), the Orthopaedic Research and Education Foundation (RCH and HHIL), and the National 
Institutes of Health (RCH, TCH and HHIL).  
Presenter: Chad M. Teven, BS  
Authors: Teven CM, Reid RR, He TC, Haydon RC, Luu HH, Chen L, Kwan D, Bi Y, Su Y

2:42 pm  
85A  
SPONTANEOUS SUTURE REGENERATION FOLLOWING CORONAL 
suturectomy in the Neonatal Rabbit  
Presenter: James Cray, MD  
Authors: DeCesare GE, Cray J, Burrows A, Vecchione L, Smith DM, Lensie EL, 
Mooney MP, Losee JE, Cooper GM

2:50 pm  
86A  
FLOW PERFUSION MAINTAINS EX VIVO BONE VIABILITY: A NOVEL 
IN VITRO MODEL FOR BONE BIOLOGY RESEARCH  
Presenter: Edward H. Davidson, MA, MBBS  
Authors: Davidson EH, Reformat DD, Canizares O, Tutela J, Allori AC, Saadeh PB, 
Warren SM

2:58 pm  
87A  
PROGENITOR CELL MOBILIZATION ENHANCES BONY HEALING VIA 
IMPROVED NEOVASCULARIZATION AND OSTEOGENESIS  
Presenter: Gina Paek, BA  
Authors: Wang X, Allen RJ, Tutela JP, Sailon A, Schwam Z, Paek GK, Saadeh PB, 
Warren SM

3:06 pm  
88A  
OSTEOIMMUNOLOGY AND CRANIAL SUTURE BIOLOGY  
Presenter: Lisa R. Spiguel, MD  
Authors: Spiguel LR, Lee J, Bi Y, He TC, Reid RR

3:14 pm  
89A  
PARADOXICAL MAINTENANCE OF BONE MINERAL DENSITY IN 
MANDIBLE FRACTURES FOLLOWING SUB-THERAPEUTIC 
RADIATION THERAPY  
Presenter: Alero Fregene, MD  
Authors: Fregene A, Buchman SR, Merati M, Zehtabzadeh AJ, Monson LA, Jing XL

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<table>
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<th>Time</th>
<th>Session</th>
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| 3:22 pm | REAL VERSUS PERCEIVED IMPROVEMENTS FROM HELMET MOLDING THERAPY FOR DEFORMATIONAL PLAGIOCEPHALY
Presenters: John A. Girotto, MD
Authors: Koltz PF, Katzel EK, Emerson CE, Girotto JG |
| 1:30 - 3:30 pm | 91B - 105B
Group B: Tissue Engineering II
Moderator: J. Peter Rubin, MD
Co-Moderator: Gregory H. Borschel, MD |
| 1:30 pm  | 91B | Award Eligibility: Hardesty
SEPARATE VS. DUAL MSC DIFFERENTIATION STRATEGIES FOR EXOGENOUS TISSUE ENGINEERING
Presenter: Alexander C. Allori, MD, MPH
Authors: Allori AC, Valenzuela CD, Allen RJ, Sailon AM, Reformat DD, Davidson EH, Alikhani M, Saadeh PB, Warren SM |
| 1:38 pm  | 92B | Award Eligibility: Hardesty
ADIPOSE DERIVED STEM CELLS ENHANCE PRIMARY TENDON REPAIR
Presenter: Cagri A. Uysal, MD
Authors: Uysal CA, Orbay H, Kobe K, Tobita M, Hyakusoku H, Mizuno H |
| 1:46 pm  | 93B | Award Eligibility: Hardesty
SILK FIBROIN CONDUITS IN A RAT MODEL: A CELLULAR AND FUNCTIONAL ASSESSMENT OF PERIPHERAL NERVE REPAIR
Presenter: Amir M. Ghaznavi, MD
Authors: Ghaznavi AM, Kokai LE, Tuffaha SH, Lovett ML, Kaplan DL, Marra KG |
| 1:54 pm  | 94B | Award Eligibility: Hardesty
A MODEL FOR ASSESSMENT OF ADIPOSE TISSUE DERIVED STEM CELL INTERACTIONS WITH NEOPLASTIC RECIPIENT BEDS
Presenter: Miguel A. Medina III, MD
Authors: Medina MA, Nguyen JT, McCormack MC, Wadlow R, Randolph MA, Ramaswamy S, Austen WG |
| 2:02 pm  | 95B | Award Eligibility: Hardesty
HUMAN ADIPOSE-DERIVED Stromal CELLS ELABORATE AND RESPOND TO BONE MORPHOGENETIC PROTEIN-2 (BMP-2) DURING IN VITRO OSTEOGENIC DIFFERENTIATION AND IN VIVO BONE FORMATION
Presenter: Deepak M. Gupta, MD
Authors: Gupta DM, Panetta NJ, Kwan MD, Longaker MT |
| 2:10 pm  | 96B | Award Eligibility: Hardesty
SUSTAINED GROWTH FACTOR DELIVERY FROM A COMPOSITE CERAMIC SCAFFOLD: IMPLICATIONS FOR BONY ENGINEERING
Presenter: Phuong D. Nguyen, MD
97B  GLANDULAR-DERIVED STEM CELLS IMPROVE VASCULARIZATION IN SCAFFOLD-MEDIATED DERMAL REGENERATION  
Presenter: Tomas Egana, PhD  
Authors: Egana T, Danner S, Kremer M, Rapoport DH, Lavandero S, Kruse C, Machens HG

98B  REPAIR OF CIRCUMFERENTIAL TRACHEAL DEFECTS USING ENGINEERED TUBULAR CARTILAGE WITH MUSCLE PEDICLES IN A RABBIT MODEL  
Presenter: Guangdong Zhou, MD, PhD  

99B  3-DIMENSIONAL ADIPOGENESIS OF HUMAN ADIPOSE STEM CELLS WITHIN A SELF-GENERATED ECM  
I am a named inventor on several issued and/or pending patents related to adipose stem cells and have started one or more companies intending to commercialize ASC technologies.  
Presenter: Adam J. Katz, MD, FACS  
Authors: Katz AJ, Shang H

100B  CENTRIFUGATION CREATES UNIQUE FRACTIONS OF LIPOASPIRATE: IMPLICATIONS FOR FAT GRAFT SURVIVAL  
This research is funded in part by a grant from the Plastic Surgery Education Foundation.  
Presenter: Robert J. Allen Jr., MD  
Authors: Allen RJ, Canizares O, Scharff CL, Nguyen PD, Thanik VD, Warren SM, Saadeh PB, Coleman SR, Hazen A

101B  STEM CELL-INTEGRATED DERMAL MATRIX ENHANCES VENTRAL HERNIA REPAIR IN A RODENT MODEL  
Presenter: Feras J. Abdul Khalek, MD  
Authors: Abdul Khalek FJ, Aliman AM, Jaffari M, Burns NK, Bai X, Alt EU, Butler CE

102B  HYPOXIC CULTURE CONDITIONS: IMPLICATIONS FOR TISSUE ENGINEERING HUMAN SKELETAL MUSCLE SATELLITE CELLS  
Presenter: Merel Koning, MD  
Authors: Koning M, Harmsen MC, van Lyen MJ, Bank R, Werker PM

103B  OPTIMAL CONCENTRATIONS FOR COVALENT RGD PEPTIDE MODIFICATION OF POLYETHERSULFONE SURFACES FOR IMPROVED ADIPOSE-DERIVED STEM CELL ADHESION  
Presenter: Kacey G. Marra, PhD  
Authors: Marra KG, Lin YC, Brayfield CB, Gerlach JC, Rubin JP

-50-
104B  
GENERATION OF AXIALLY VASCULARIZED BIOARTIFICIAL BONE IN THE AV LOOP RAT MODEL  
This study was supported by research grants from Baxter Healthcare Corporation, Xue-Hong and Hans Georg Geis, as well as the University of Erlangen (ELAN Program) and Deutsche Forschungsgemeinschaft.  
Presenter: Andreas Arkudas, MD  

105B  
EVALUATION OF VISCERAL ADHESIONS AND MECHANICAL STRENGTH OF ABDOMINAL WALL RECONSTRUCTIONS WITH PORCINE ACELLULAR DERMAL MATRIX VS. POLYPROPYLENE MESH  
Presenter: Charles E. Butler, MD, FACS  
Authors: Burns NK, Jaffari M, Rios CN, Mathur AB, Butler CE  

1:30 - 3:30 pm  
106C - 120C  
Group C: Wound Healing, Stem Cells II  
Moderator: Howard Levinson, MD  
Co-Moderator: Wei Liu, MD, PhD  

1:30 pm  
106C  
TRANSPLANTATION OF GENETICALLY MODIFIED AUTOLOGOUS MINCED SKIN PARTICLES: A NOVEL TECHNIQUE IN GENE DELIVERY TO WOUNDS  
Presenter: Taro Koyama, MD, PhD  
Authors: Koyama T, Bergmann J, Hackl F, Aflaki P, Zuhaili B, Waishren E, Yao F, Eriksson E  

1:38 pm  
107C  
RADIATION CONTRIBUTES TO PERSISTENTLY IMPAIRED LYMPHATIC FUNCTION BY DIRECT AND INDIRECT MECHANISMS  
Presenter: Sanjay Daluvoy, MD  
Authors: Avraham T, Daluvoy SV, Cordeiro A, Kasten JL, Mehrara BJ  

1:46 pm  
108C  
IN-VITRO DIFFERENTIATION OF ADIPOSE DERIVED STEM CELLS INTO SCHWANN CELLS AND IN-VIVO IMPLICATIONS FOR PERIPHERAL NERVE DEFECTS  
Presenter: Hakan Orbay, MD  
Authors: Orbay H, Uysal AC, Hyakusoku H, Mizuno H  

1:54 pm  
109C  
IMMUNE RESPONSE AFTER ADENOVIRAL GENE DELIVERY INTO SKIN  
Presenter: Frank Jacobsen, MD  
Authors: Schulte M, Jacobsen F, Sorkin M, Hirsch T, Al-Benna S, Stupka J, Daigeler A, Steinau HU, Steinstraesser L  

2:02 pm  
110C  
MECHANICAL VIBRATION STIMULATES OSTEOGENIC DEVELOPMENT OF MESENCHYMAL STROMAL CELLS IN CULTURE  
Presenter: William A. Ross, MD  
Authors: Ross WA, Fulzele S, Yu JC, Shi X, Wenger K
111C  
**CONTRIBUTION OF ADIPOSE DERIVED STROMAL CELL FOR IRRADIATED WOUND REPAIR**
Presenter: Tsumano Tomoko, MD
Authors: Tomoko T, Kawai K, Nishimoto S, Fukuda K, Kageyama A, Fujita K, Yanai A, Kakibuti M

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2:18 pm

112C  
**THE EFFECTS OF BIOFILM ON WOUND HEALING AND INFLAMMATORY PATHWAYS USING HISTOLOGIC QUANTIFICATION AND SUPERARRAY ANALYSIS**
Presenter: Mauricio De la Garza, MD
Authors: De la Garza M, Hong SJ, Mustoe TA, Galiano RD

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2:26 pm

113C  
**FIBROMODULIN MODULATES TRANSFORMING GROWTH FACTOR (TGF)-BETAS EFFECTS ON DERMAL FIBROBLAST MIGRATION**
Presenter: Zhong Zheng, PhD

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2:34 pm

114C  
**INDUCTION OF ENDOTHELIAL PROGENITOR CELL RECRUITMENT AND ATTENUATION OF THE INFLAMMATORY RESPONSE IN DIABETIC WOUND HEALING WITH HOX GENE THERAPY**
Presenter: Kyle A. Belek, MD
Authors: Belek KA, Dunn AA, Boudreau N, Hansen SL

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2:42 pm

115C  
**HUMAN BLOOD OUTGROWTH ENDOTHELIAL CELLS COMBINED WITH HUMAN DERMAL FIBROBLAST SHEETS IMPROVE WOUND VASCULARIZATION AND RE-EPIPTHELIALIZATION IN A DIABETIC WOUND MODEL**
Presenter: Kristoff Verdonck, MD
Authors: Verdonck K, Hendrickx B, Dickens S, Van den Berge S, Vranckx JJ, Luttun A

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2:50 pm

116C  
**DECREASING POTENTIAL OF ADIPOSE-DERIVED STEM CELLS WITH DONOR AGE**
Presenter: Emil Kohan
Authors: Bradley JP, Kohan E, Zuk P
2:58 pm
117C GENE THERAPY IN SKIN; DEFINING THE OPTIMAL VECTOR CHOICE
Presenter: Esther H. Teo, BS
Authors: Teo EH, Cross KJ, Bomsztyk ED, Weinstein AL, Lyden DC, Spector JA

3:06 pm
118C ADIPOSE-DERIVED STEM CELLS INDUCED TO PLURIPOTENCY
Presenter: Hurig Katchikian
Authors: Bradley JP, Katchikian H, Kohan E, Zuk P, Dipple K

3:14 pm
119C HEMATOPOIETIC STEM CELLS PREVENT ANGIGENIC DIFFERENTIATION OF MESENCHYMAL STEM CELLS
Presenter: Jason P. Glotzbach, MD
Authors: Glotzbach JP, Thangarajah H, Vial IN, Chang E, Januszyk M, Gurtner GC

3:22 pm
120C REGULATORS AND MEDIATORS OF RADIATION FIBROSIS: GENE EXPRESSION PROFILES AND A RATIONALE FOR SMAD3 INHIBITION
Presenter: Richard Zoumalan, MD

3:30 - 4:00 pm
Coffee with Exhibitors

Scientific Session 7
Concurrent Podium Paper Session
Group A: Nerve
Group B: Wound Healing, Stem Cells III
Group C: Clinical Outcomes III

4:00 - 5:30 pm
121A - 131A
Group A: Nerve
Moderator: Kacey G. Marra, PhD
Co-Moderator: Paul S. Cederna, MD, FACS

4:00 pm
121A PHOTOCHEMICAL SEALING AND PERIPHERAL NEUROREHAPIHY; IMPROVING ELECTROPHYSIOLOGICAL AND HISTOLOGICAL OUTCOMES
Presenter: Francis P. Henry, MD
Authors: Henry FP, Goyal NA, David WS, Wes D, Randolph MA, Kochevar IE, Redmond RW, Winograd JM

4:08 pm
122A A BIOLOGICAL CONDUIT SUPPORTED WITH CELLULAR THERAPY AS AN ALTERNATIVE TO TRADITIONAL NERVE GRAFTS; A PRELIMINARY REPORT
Presenter: William M. Duggan, MD
Authors: Duggan WM, Klimczak A, Nair D, Gatherwright J, Siemionow M

-53-
123A
IMPROVING NERVE REGENERATION OF ALLOGENIC EPINEURIUM WITH DONOR DERIVED BONE MARROW STROMAL CELLS BRIDGING PERIPHERAL NERVE 20 MM DEFECT.
Presenter: Grzegorz Brzezicki, MD
Authors: Jundzik AM, Brzezicki G, Klimczak A, Gatherwright J, Siemionow M

124A
A PERIPHERAL NERVE REPAIR MODEL USING FMRI IN RATS
Presenter: Maida A. Parkins, MD, MS
Authors: Parkins MA, Li R, Yan JG, Hyde JS, Pawela CP, Matloub HS

125A
IN VIVO ELECTROPHYSIOLOGIC PROPERTIES OF POLY (3,4 ETHYLENEDIOXYTHIOPHENE) PEDOT IN PERIPHERAL MOTOR NERVES
Presenter: Melanie Urbanchek, PhD
Authors: Egeland BM, Urbanchek MG, Richardson-Burns SM, Kuzon WM, Kipke DR, Martin DC, Cederna PS

126A
REVIEW OF CURRENT ASSESSMENT TECHNIQUES OF SCIATIC NERVE REGENERATION IN A RODENT MODEL
Presenter: Tim Nijhuis
Authors: Nijhuis T, Siemionow M

127A
NERVE REGENERATION THROUGH AN ELECTRICALLY CONDUCTING POLYMER NERVE GRAFT
The views expressed in this work are those of the authors and do not necessarily reflect official Army policy. This work was supported by the Department of Defense Multidisciplinary University Research Initiative (MURI) program administered by the Army Research Office under grant W911NF0610218.
Presenter: Yamini Jadcherla
Authors: Jadcherla Y, Urbanchek MG, Abidian MR, Egeland BM, Miriani RM, Kuzon WM, Ewing KA, Daneshvar DE, Schroeder KM, Kipke DR, Cederna PS

128A
TARGETED DELIVERY OF GLIAL CELL LINE-DERIVED NEUROTROPHIC FACTOR WITHIN A DEGRADABLE POLYMER NERVE GUIDE FOR LONG GAP PERIPHERAL NERVE REPAIR
Presenter: Lauren E. Kokai, BS
Authors: Kokai LE, Ghaznavi AM, Clavijo JA, Marra KG

129A
CARBAMYLATED ERYTHROPOIETIN (CEPO) AND FK506: A NOVEL STRATEGY TO ENHANCE PERIPHERAL NERVE REGENERATION
Presenter: Paul N. Afroz, MD
130A  
**CNPASE EXPRESSION IN OLFACTORY ENSHEATHING CELLS**  
Presenter: Christine Radtke, MD  
Authors: Radtke C, Lankford KL, Sasaki M, Gallo V, Vogt PM, Kocis JD

131A  
**TENSION AND TISSUE: HOW DO IN VITRO PERIPHERAL NERVES HOLD UP?**  
Presenter: Annika M. Card, MD, DVM, BSc  
Authors: Card AM, Bain JR

132B - 142B  
Group B: Wound Healing, Stem Cells III  
Moderator: J. Peter Rubin, MD  
Co-Moderator: Deepak Narayan, MD

132B  
**TGF-B1 INHIBITS LYMPHATIC REGENERATION DURING WOUND HEALING**  
Presenter: Tomer Avraham, MD  
Authors: Avraham T, Daluvoy SV, Kasten JL, Mehrara BJ

133B  
**LYMPHATIC REGENERATION MODULATED BY FIBROSIS FOLLOWING AXILLARY LYMPH NODE DISSECTION IN A MOUSE**  
Presenter: Babak Mehrara, MD  
Authors: Daluvoy SV, Avraham T, Kasten JL, Mehrara BJ

134B  
**ADIPOSE-DERIVED LEPTIN HORMONE IMPAIRS WOUND HEALING IN OBESE, NON-DIABETIC MICE**  
Presenter: Ida J. Wagner, MD  
Authors: Wagner IJ, Nguyen PD, Allen RJ, Davidson EH, Chabra A, Saadeh PB, Warren SM

135B  
**INHIBITION OF SMAD3 EXPRESSION IN RADIATION-INDUCED FIBROSIS USING A NOVEL METHOD FOR TOPICAL TRANSCUTANEOUS GENE THERAPY**  
Presenter: Judy W. Lee, MD  

136B  
**ELECTROPORATED PLASMID BASED SOLUBLE TGF-BETA RECEPTOR II REDUCE RAT INCISIONAL WOUND SCARRING**  
Presenter: Z Gao, MD  
Authors: Gao Z, Wu X, Song N, Cao Y, Liu W
137B  INHIBITION OF MAMMALIAN TARGET OF RAPAMYCIN WITH TACROLIMUS IN REDUCTION OF KELOID AND HYPERTROPIC SCARS
Presenter: Fanglei You, MD, PhD
Authors: You F, Kuang AA

138B  INTERACTION BETWEEN WINGLESS (WNT) PROTEIN SIGNALING AND TGF-BETA ISOFORMS IN DERMAL FIBROBLASTS
Presenter: Liam Connor Macleod, MD
Authors: Carre AL, MacLeod LC, James AW, Longaker MT, Lorenz HP

139B  EFFICACY OF PREFABRICATION OF THE ISCHEMIC FLAPS WITH AAV2-MEDIATED VEGF GENE THERAPY
Presenter: Bella Avanessian, MD
Authors: Wang XT, Avanessian B, Chen CH, Wu YF, Liu PY

140B  A TYPE-I COLLAGEN GENE INHIBITOR COATED SUTURE INHIBITS DERMAL SCAR TISSUE FORMATION IN-VIVO
Presenter: Christopher A. Sullivan, MD
Authors: Sullivan CA, Willis J, Seipp W

141B  SMAD3 INHIBITION PREVENTS DERMAL FIBROBLAST-MEDIATED COLLAGEN GEL CONTRACTION
Presenter: Orlando Canizares, MD

142B  ANTIMICROBIAL ACTIVITY OF MOXIFLOXACIN AGAINST MRSA WOUND INFECTION IN A LARGE ANIMAL WOUND INFECTION MODEL
Presenter: Christian Fisahn
Authors: Fisahn C, Jacobsen F, Hirsch T, Thiele I, Al-Benna S, Fugmann B, Steinau HU, Steinstraesser L

143C - 153C  Group C: Clinical Outcomes III
Moderator: Charles E. Builer, MD, FACS
Co-Moderator: Eric Chien-Wei Liao, MD

143C  SAFETY AND EFFICACY OF COMBINED PERFORATOR FLAP BREAST RECONSTRUCTION AND INTRA-ABDOMINAL PROCEDURES
Presenter: William J. Casey III, MD
Authors: Casey WJ, Rebecca AM, Craft RO, Smith AA, Andres LA, Pockaj BA, Kho RM
144C
BREAST RECONSTRUCTION IS NOT ASSOCIATED WITH INCREASED RISK OF LYMPHEDEMA
Presenter: Jennifer Kasten, BS, BA, MSc
Authors: Avraham T, Daluvoy SV, Kasten JL, Riedel ER, Van Zee JK, Mehrara BJ

145C
OUTCOMES OF TISSUE EXPANDER RECONSTRUCTION OF THE BURNED AND CONGENITAL BREAST USING ENDOSCOPIC AND OPEN EXPANDER PLACEMENT
Presenter: Benjamin Levi, MD
Authors: Levi B, Brown DL, Cederna PS

146C
INFECTIOUS COMPLICATIONS LEADING TO EXPLANTATION IN IMPLANT-BASED BREAST RECONSTRUCTION WITH AND WITHOUT ALLOGRAFT
Presenter: Mary Chen, MS
Authors: Chen M, Nguyen MD, Colakoglu S, Morris DJ, Lee BT

147C
THE PRACTICE IMPLICATIONS OF THIRD PARTY REIMBURSEMENT FOR BREAST RECONSTRUCTION: A NATIONAL SURVEY OF PLASTIC SURGEONS
Presenter: Rachel E. Streu, MD, MS
Authors: Streu RE, Atisha D, Salem B, Gay A, Alderman AK

148C
USE OF TUMESCENT MASTECTOMY TECHNIQUE AS A RISK FACTOR FOR NATIVE BREAST SKIN FLAP NECROSIS FOLLOWING IMMEDIATE BREAST RECONSTRUCTION
Presenter: Yoon Chun, MD
Authors: Chun Y, Eriksson E, Golshan M, Guo L, Breuing K, Lipsitz S, Rosen H, Verma K

149C
ACELLULAR HUMAN DERMIS (AHD) IMPLANTATION IN 153 CONSECUTIVE IMMEDIATE TISSUE EXPANDER BREAST RECONSTRUCTIONS: WHAT IS THE RATE OF SEROMA AND INFECTION?
Presenter: Anuja K. Antony, MD
Authors: Antony AK, Teo E, McCarthy CM, Preminger BA, Pusic A, Mehrara BM, Disa JJ

150C
ACELLULAR DERMIS ASSISTED PROSTHETIC BREAST RECONSTRUCTION VERSUS COMPLETE SUBMUSCULAR COVERAGE: A HEAD TO HEAD COMPARISON OF OUTCOMES
Presenter: Howard Langstein, MD
Authors: Sbitany H, Sandeen SN, Amalfi AN, Davenport MS, Langstein HN
5:04 pm

151C  
IMMEDIATE POST-MASTECTOMY RECONSTRUCTION IS ASSOCIATED WITH IMPROVED BREAST CANCER-SPECIFIC SURVIVAL: EVIDENCE AND NEW CHALLENGES FROM THE SURVEILLANCE, EPIDEMIOLOGY, AND END RESULTS DATABASE  
Presenter: Leif Sigurdson, MD  
Authors: Bezuhly M, Temple C, Sigurdson LJ, Davis RB, Flowerdew G, Cook EF

5:12 pm

152C  
UNDERSTANDING BREAST SURGEON REFERRAL PATTERNS AND THEIR INFLUENCE ON BREAST RECONSTRUCTION RATES  
Presenter: Beth A. Preminger, MD, MPH  
Authors: Preminger BA, Chiang AL, Kieserman-Shmokler C, Trencheva K, El-Tamer M, Ascherman JA, Rohde C

5:20 pm

153C  
RATIONALE FOR PREOPERATIVE COMPUTED TOMOGRAPHIC ANGIOGRAPHY IN FREE FLAP BREAST RECONSTRUCTION: PREDICTING FLAP AND RECIPIENT VESSEL SELECTION  
Presenter: Galen S. Wachtman, MD  
Authors: Wachtman GS, Sumkin JH, Gimbel ML

7:00 - 10:00 pm

Gala Reception  
Carnegie Museum of Natural History  
(Buses leave Hilton at 6:45 pm)
Saturday, May 30, 2009

6:30 am - 2:00 pm
Registration
Continental Breakfast with Exhibitors

8:00 - 9:00 am
Scientific Session 8
Concurrent Podium Paper Session
Group A: Clinical Outcomes IV
Group B: Tissue Engineering III
Group C: Microsurgery

8:00 am
154A - 161A
Group A: Clinical Outcomes IV
Moderator: Scott L. Hansen, MD
Co-Moderator: Kevin C. Chung, MD, FACS

8:00 am
154A
Award Eligibility: Hardesty
BOTOX THERAPY FOR ISCHEMIC DIGITS
Presenter: Margo S. Herron, MD, MS
Authors: Herron MS, Neumeister MW, Chambers CB, Webb K, Wietfeldt J, Gillespie JN, Bueno RA, Cooney CM

8:08 am
155A
Award Eligibility: Hardesty
PREVENTING RECURRENCE OF SURGICALLY REMOVED AURICULAR KELOID WITH INTRALESIONAL INJECTION OF LOW-DOSE OF 5 FLUOROURACIL AND CORTICOSTEROID
Presenter: X Wu, MD
Authors: Wu X, Gao Z, Song N, Cao Y, Liu W

8:16 am
156A
Award Eligibility: Hardesty
LONG TERM RESULTS AND DASH SCORE ANALYSIS OF DIFFERENT DONOR MUSCLES AFTER TENDON TRANSFER FOR POSTERIOR INTEROSSEOUS NERVE PALSY
Presenter: A. A. Altintas, MD
Authors: Altintas AA, Altintas MA, Perbx W, Phan V, Amini P, Spiiker G

8:24 am
157A
Award Eligibility: Hardesty
REPAIR OF GRADE III ULNAR COLLATERAL LIGAMENT INJURIES AT THE METACARPOPHALANGEAL JOINT OF THE THUMB WITH DUAL THREADED SUTURE ANCHORS
Presenter: Sammy Al-Benna, PhD, MRCS
Authors: Al-Benna S, Steinau HU, Steinstraesser L

8:32 am
158A
Award Eligibility: Hardesty
OUTCOME OF GUNSHOT WOUNDS TO THE HAND AND WRIST: A TEN YEAR LEVEL-I URBAN TRAUMA CENTER EXPERIENCE
Presenter: Clifford T. Pereira, MD
Authors: Pereira CT, Boyd JB, Olsavsky A, Gelfand M, Putnam B
159A  Award Eligibility: Hardesty
FUNCTIONAL RECONSTRUCTION AFTER LIMB-SPARING SURGERY
FOR UPPER EXTREMITY SARCOMA: ASSESSMENT OF FUNCTIONAL
OUTCOMES AND COSTS OF SURGERY
Presenter: Gerhard S. Mundinger, MD
Authors: Mundinger GS, Prucz R, Deune EG

160A  Award Eligibility: Hardesty
RECONSTRUCTION OF COMPLEX ONCOLOGICAL GROIN DEFECTS
USING THE ANTEROLATERAL THIGH FLAP
Presenter: Jesse Selber, MD
Authors: Sacks JM, Selber JC, Baumann DP, Pettaway CA

161A  Award Eligibility: Hardesty
USE OF THE EXTENDED VRAM FLAP FOR RECONSTRUCTION OF
LARGE PELVIC DEFECTS: A 4-DIMENSIONAL CT ANGIOGRAPHY
PERFUSION STUDY AND CLINICAL OUTCOME ANALYSIS
Presenter: Mark T. Villa, MD
Authors: Villa MT, Butler CE

162B - 169B
Group B: Tissue Engineering III
Moderator: Lee L. Q. Pu, MD, PhD, FACS
Co-Moderator: Jason Spector, MD

162B  FIBROBLAST SEEDING OF MYOFASCIA FOR USE AS A TISSUE PROSTHESIS
Presenter: Katie A. Ewing
Authors: Khouri JS, Ewing KA, Urbanchek MG, Harake MS, Xing L, Kuzon WM

163B  SILK FIBROIN FIBRILLOGENESIS VIA DECORIN: EFFECT ON
MICROSTRUCTURE AND MECHANICAL PROPERTIES
Presenter: Carmen Rios, MD
Authors: Burns NK, Gupta V, Rios CN, Rasmussen M, Butler CE, Mathur AB

164B  Award Eligibility: Hardesty
TEMPORAL DISTRIBUTION OF DONOR TENOCYTES IN FLEXOR
TENDON TISSUE ENGINEERING
Presenter: Johan Thorfinn, MD, PhD
Authors: Thorfinn J, Saber S, Angelidis IK, Ki SH, Zhang A, Pham H, Chang J

165B  Award Eligibility: Hardesty
TENDON TISSUE ENGINEERING: THE EFFECT OF A TISSUE
BIOREACTOR ON ADIPOSE-DERIVED STEM CELL-SEEDED CONSTRUCTS
Presenter: Ioannis K. Angelidis, MD
Authors: Angelidis IK, Thorfinn J, Connolly ID, Lindsey D, Pham HM, Chang J

166B  TGF-BETA2 IS EXPRESSED IN HUMAN DERMAL PAPILLA CELLS AND
MODULATES FOLLICULOGENESIS
Presenter: Keita Inoue, MD
8:40 am 167B  
EFFECT OF HUMAN ADENOVIRUS-36 IN A LOCALIZED IN VIVO MODEL OF NEOADIPOGENESIS  
Presenter: Randall O. Craft, MD  
Authors: Craft RO, Thomas GP, Tilkorn D, Blick A, Keramidaris E, Morrison WA, Penington AJ

8:48 am 168B  
ENGINEERED TISSUE FOR INCISIONAL HERNIA REPAIR IN AN IN VIVO RAT MODEL  
Presenter: Mazen S. Harake, MD, MS  
Authors: Harake MS, Urbanchek MG, Khouri JS, Xing L, Ewing K, Franz MG, Kuzon WM

8:56 am 169B  
COMPARISON OF CROSS-LINKED VS NON-CROSS-LINKED PORCINE ACELLULAR DERMAL MATRICES FOR VENTRAL HERNIA REPAIR  
Presenter: Nadja K. Burns, MD  
Authors: Burns NK, Jaffari M, Rios CN, Santaliz-Ruiz LE, Mathur AB, Butler CE

8:00 - 9:00 am 170C - 177C  
Group C: Microsurgery  
Moderator: Justin Sacks, MD  
Co-Moderator: Michael W. Neumeister, MD

8:00 am 170C  
THREE AND FOUR-DIMENSIONAL COMPUTER TOMOGRAPHY ANGIOGRAPHIC STUDIES OF COMMONLY USED ABDOMINAL FLAPS IN BREAST RECONSTRUCTION  
Presenter: Corrine Wong, MRCS  
Authors: Wong C, Saint-Cyr M, Arbique G, Becker S

8:08 am 171C  
DURATION OF SMOKING CESSION AND ITS IMPACT ON SKIN FLAP SURVIVAL  
Presenter: Jeffrey V. Manchio, MD  

8:16 am 172C  
THE LATERAL SEPTOCUTANEOUS SUPERIOR GLUTEAL ARTERY PERFORATOR (LSGAP) FLAP FOR AUTOLOGOUS BREAST RECONSTRUCTION - AN ALTERNATIVE PEDICLE  
Presenter: Ariel Rad, MD  
Authors: Rosson GD, Rad AN, Flores JJ, Prucz RB, Stapleton SM

8:24 am 173C  
PULLULAN DELIVERY FILM FOR TARGETED ISCHEMIC PRECONDITIONING  
Presenter: Michael G. Galvez, BA  
Authors: Galvez BA, Chang EI, Glotzbach J, Major M, Vial IN, Thangarajah H, Rajadas J, Gartner GC
8:32 am
174C
THE EFFECT OF CALCIUM CHANNEL BLOCKERS ON SMOKING INDUCED SKIN FLAP NECROSIS
Presenter: Brian Rinker, MD
Authors: Rinker B, Fink BF, Barry NG, Fife JA, Milan ME

8:40 am
175C
TRIDIMENSIONAL VASCULAR ANATOMY OF THE DISTALLY BASED SUPERFICIAL SURAL ARTERY FLAP
Presenter: Alain A. Mojallal, MD
Authors: Mojallal AA, Bailey S, Saint Cyr M, Rohrich R, Wong C

8:48 am
176C
RAPID IDENTIFICATION OF VESSEL OCCLUSION IN FREE TISSUE TRANSFERS USING CONTINUOUS MONITORING OF TISSUE GLUCOSE LEVELS
Presenter: Thomas J. Sitzman, MD
Authors: Sitzman TJ, Hanson SE, King TW, Gutowski KA

8:56 am
177C
A QUANTITATIVE STUDY OF ONE VERSUS TWO VENOUS ANASTOMOSES IN MICROVASCULAR FREE FLAP SURGERY USING DOPPLER VELOCIMETRY
Presenter: Matthew M. Hanasono, MD
Authors: Hanasono MM, Kocak E, Ogunleye B, Hartley CJ, Miller MJ

9:00 - 9:30 am
Coffee with Exhibitors

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9:30 - 11:00 am
178A - 186A
Moderator: Deepak Narayan, MD
Co-Moderator: Babak Mehrara, MD

9:30 am
178A
EFFECTS OF VASOPRESSOR ADMINISTRATION ON THE OUTCOMES OF MICROSURGICAL BREAST RECONSTRUCTION
Presenter: MinhDoan T. Nguyen, MD, PhD
Authors: Nguyen MT, Chen C, BarMeir E, Upton J, Tobias AM, Lee BT

9:40 am
179A
VASCULAR RESIDENT ENDOTHELIAL PROGENITOR CELLS ISOLATED FROM RAT HEART MICROVASCULATURE ENHANCE COLLATERAL GROWTH IN A RAT HINDLIMB ISCHEMIA MODEL
Presenter: Ziyang Zhang, MD

9:50 am
180A
ADAPTIVE REMODELING OF ADIPOSE TISSUE UNDER HYPOXIA
Presenter: Hirotaka Suga, MD
Authors: Suga H, Yoshimura K, Eto H
181A Award Eligibility: Shenaq
PERFORATOR DOMINANCE OF THE DEEP INFERIOR EPIGASTRIC ARTERY: REAPPRAISAL OF THE ZONES OF VASCULARITY OF THE TRANSVERSE ABDOMINAL FLAP UTILIZING FOUR-DIMENSIONAL COMPUTER TOMOGRAPHIC ANGIOGRAPHY STUDIES
Presenter: Corrine Wong, MRCS
Authors: Wong C, Saint-Cyr M, Arbique G, Brown S

10:10 am

182A Award Eligibility: Snyder
AUTOPHAGY AS A MECHANISM OF MELANOMA CELL SURVIVAL AND MAINTENANCE
Presenter: Keith G. Wolter, MD
Authors: Wolter KG, Checinska AC, Maria-Engler S, Soengas MS

10:20 am

183A MICRORNAs MICROARRAY PROFILING IN HEMANGIOMAS OF INFANCY
Presenter: Deepak Narayan, MD
Authors: Spock CR, Schultz B, Zelterman D, Waner M, Narayan D

10:30 am Award Eligibility: Gingrass
RNA INTERFERENCE OF PROLYL HYDROXYLASE DOMAIN-2 AS A POTENTIAL PROMOTER OF VASCULOGENESIS AND IMPROVED DIABETIC WOUND HEALING
Presenter: Finny George, MD

10:40 am Award Eligibility: Shenaq
HUMAN TISSUE-RESIDENT STEM CELLS DELIVERED VIA HYALURONIC ACID GEL INJECTION CONTRIBUTE TO SOFT TISSUE AUGMENTATION IN A MURINE PHOTOAGED SKIN MODEL
Presenter: Feras J. Abdul Khalek, MD
Authors: Abdul Khalek FJ, Altman AM, Seidensticker M, Jotzu C, Welte G, Alt EU, Butler CE

10:50 am

186A EVALUATING THE EFFECT OF MECHANICAL STRAIN ON HYPERTROPHIC SCAR FORMATION IN CONDITIONAL FAK KNOCKOUT MICE
Presenter: Victor Wong
Authors: Wong VW, Paterno JM, Galvez MG, Gurtner GC
Scientific Session 10
Concurrent Podium Paper Session
Group A: Transplant II
Group B: Clinical Outcomes V
Group C: Wound Healing, Stem Cells IV

11:00 am - 12:00 pm

187A - 193A
Group A: Transplant II
Moderator: Geoffrey C. Gurtner, MD, FACS
Co-Moderator: J. Peter Rubin, MD

11:00 am

187A
MESENCHYMAL STEM CELLS PROLONATION OF COMPOSITE TISSUE ALLOTRANSPLANTATION SURVIVAL BY T-CELL REGULATION IN A SWINE MODEL
Presenter: Huang-Shin Shih, MD

11:08 am

188A
EFFECT OF CELLULAR THERAPIES ON PROINFLAMMATORY AND TOLERGENIC CYTOKINES GENE EXPRESSION IN FACE ALLOGRAFT MODEL
Presenter: Joanna M. Cwykiel, MS
Authors: Cwykiel JM, Hivelin M, Klimczak A, Somnez E, Siemionow M

11:16 am

189A
HUMORAL ALLORESPONSE AND TRANSPLANT VASCULOPATHY IN COMPOSITE TISSUE ALLOTRANSPLANTATION
Presenter: Jignesh V. Unadkat, MD, MRCS
Authors: Unadkat JV, Goldbach C, Washington KM, Solari MG, Schneeberger S, Afroz PN, Pulikkotil B, Zheng XX, Lee WPA

11:24 am

190A
COMPARISON OF DIFFERENT DOSES OF INTRAOSEOUS BONE MARROW TRANSPLANTATION ON DEVELOPMENT OF CHIMERISM IN FACIAL ALLOGRAFT TRANSPLANTATION
Presenter: Cem Meric, MD
Authors: Meric C, Klimczak A, Unal M, Demir Y, Siemionow M

11:32 am

191A
EFFECT OF CHIMERISM INDUCTION AFTER BONE MARROW TRANSPLANTATION INTO ALTERNATIVE ANATOMICAL COMPARTMENTS
Presenter: James Gatherwright, MD
Authors: Jundzill AM, Klimczak A, Brzezicki E, Sonmez E, Gatherwright J, Siemionow M

11:40 am

192A
THE EFFECT OF OVER-EXPRESSION OF IL-10 AND TGF BETA WITHIN THE TRANSPLANT GRAFT DURING RAT HINDLIMB TRANSPLANTATION
Presenter: Damon S. Cooney, MD, PhD
Authors: Cooney DS, Neumeister MW, Chambers CB, Bueno RA, Wietfeldt J, Diederich R
11:48 am  
**193A**  
Combination of TGF-α/FC and Rapamycin to Induce Allograft Tolerance  
Presenter: Wensheng Zhang, MD, PhD  

11:00 am - 12:00 pm  
**194B - 200B**  
Group B: Clinical Outcomes V  
Moderator: Peter J. Taub, MD, FACS  
Co-Moderator: Michael W. Neumeister, MD

11:00 am  
**194B**  
Quantification of Negative Pressures Generated in Luer Lock Syringes Compared to Conventional Liposuction Machine in Relation to Adipocyte Viability for Fat Grafting  
Presenter: Alireza Sadeghi, MD  
Authors: Sadeghi A, Khoobeh K

11:08 am  
**195B**  
Quadriceps Muscle Function Following Harvest of the Rectus Femoris Muscle as a Pedicle Flap for Complex Groin Wound Reconstruction  
Presenter: Hani Sbitany, MD  
Authors: Sbitany H, Koltz PE, Patel N, Girotto JA, Vega SJ, Langstein HN

11:16 am  
**196B**  
Is Wound Care Profitable for Academic Medical Centers?  
Presenter: Jon B. Strawn, MD, MS, MBA  
Authors: Strawn JB, Hoffman WY, Young D

11:24 am  
**197B**  
Multivariate Predictors of Wound Recurrence After Pressure Ulcer Flap Coverage  
Presenter: Kari A. Keys, MD  
Authors: Keys KA, Daniali L, Warner KJ, Mathes DW

11:32 am  
**198B**  
Effect of Preoperative Magnetic Resonance Imaging Diagnosis of Osteomyelitis on the Surgical Management and Outcomes of Pressure Ulcers  
Presenter: Lily N. Daniali, BA  
Authors: Daniali LN, Mathes DW, Katz D, Keys K

11:40 am  
**199B**  
The Keystone Flap: A Local Perforator Flap Without Microsurgical Overhead  
Presenter: Joseph S. Khouri, BS, MA  
Authors: Khouri JS, Daily S, Egeland B, Kwon S, Harake MS, Nelligan PC, Kuzon WM
200B
COMPOSITE SKULL BASE RECONSTRUCTION USING THE ANTEROLATERAL THIGH FLAP
Presenter: Justin M. Sacks, MD
Authors: Sacks JM, Hanasono MM, Goel N, Ayad M, Skoracki RJ, Yu P

201C - 207C
Group C: Wound Healing, Stem Cells IV
Moderator: Robert D. Galiano, MD
Co-Moderator: Howard Levinson, MD

201C
MOLECULAR CLONING AND FUNCTIONAL CHARACTERISATION OF AN EPIDERMAL LIP OYGENASE IN THE MEXICAN AXOLT L (AMBYSTOMA MEXICANUM) GENE AND PROMOTOR IN THE CONTEXT OF WOUND HEALING AND LIMB REGENERATION
Presenter: Bjoern Menger, MD
Authors: Menger B, Reimers K, Lazaridis A, Jahn S, Vogt PM

202C
APPLYING FUZZY LOGIC TO DETECT NOVEL SUBPOPULATIONS OF MesenChymal STEM CELLS
Presenter: Michael Januszyk, BS
Authors: Januszyk M, Vial IN, Glotzbach JP, Thangarajah H, Gurtner GC

203C
DIFFERENTIAL EXPRESSION OF NOTCH RECEPTORS, LIGANDS AND DOWNSTREAM TARGETS IN EPIDERMIS OF HYPERTROPHIC SCAR VERSUS NORMAL SKIN
Presenter: Wei Xia, MD
Authors: Xia W, Pan BH, Yi CG, Zheng Y, Ma XJ, Lu BL, Han Y, Guo SZ

204C
DIFFERENTIAL EXPRESSION OF GROWTH DIFFERENTIATION FACTOR-9 IN DIFFERENT LESIONAL SITES OF KELOWD
Presenter: Z Gao, MD
Authors: Gao Z, Song N, Wu X, Cao Y, Liu W

205C
BENEFITS OF HUMAN ACELLULAR DERMAL MATRIX FOR VENTRAL HERNIA REPAIR IN TRANSPLANT PATIENTS
Research funded in part by a grant from LifeCell Corporation.
Presenter: Michael B. Brewer, MD
Authors: Brewer MB, Milburn ML, Rada EM, Goldberg NH, Singh DP, Cooper M, Silverman RP

206C
CHARACTERIZATION OF CLONE 8, A NOVEL GENE INVOLVED IN SCARLESS WOUND HEALING
Presenter: Phillip H. Gallo, PhD
Authors: Gallo PH, Sattish L, Johnson S, Hu FZ, Post JC, Ehrlich GD, Kathju S
207C
EXTRACORPOREAL SHOCK-WAVE THERAPY ENHANCED WOUND HEALING VIA INCREASING TOPICAL BLOOD PERFUSION AND TISSUE REGENERATION IN A RAT MODEL OF STZ-INDUCED DIABETES
Presenter: YurRen Kuo, MD, PhD, FACS

Award Announcements & Adjourn