THURSDAY, MAY 2, 2019

7:00 am-11:30 am  LOCAL PROGRAM
8:30 am-8:50 am  COFFEE BREAK
10:20 am-10:40 am  COFFEE BREAK
11:45 am  MEMBER PHOTO
12:30 pm-2:15 pm  MEMBER LUNCH & BUSINESS MEETING
12:30 pm-2:15 pm  NON-MEMBER LUNCH / Industry Lunch KCI
2:30 pm-4:00 pm  SESSION 1

2:30 pm  1. T Cells Contribute To Peripheral Nerve Regeneration Through Acellular
Deng Pan, Daniel Hunter, Lauren Schellhardt, Anja Fuchs, PhD, Haiying Zhou, PhD, Sally Jo, Katherine Santosa, MD, Alison Snyder-Warwick, MD, Mikhail Berezin, PhD, Susan Mackinnon, MD, Matt Wood, PhD
Washington University in St Louis, Saint Louis, MO

2:40 pm  2. Epigenetic Modulation of TGF-beta Signaling Underlies the Scarring Fibroblast Phenotype
Heather E. desJardins-Park, AB1, Alessandra L. Moore, MD1, Ulrike Litzenburger, PhD2, Clement D. Marshall, MD1, Leandra A. Barnes, AB1, Shamik Mascharak, BS1, Bryan Duoto, MS1, Ryan C. Ransom, BS1, Deshka S. Foster, MD1, Michael S. Hu, MD1, H. Peter Lorenz, MD1, Howard Y. Chang, MD2,3, Michael T. Longaker, MD1,4
1Department of Surgery, Division of Plastic and Reconstructive Surgery, Stanford University School of Medicine, Stanford, CA, 2Center for Personal Dynamic Regulomes, Stanford University School of Medicine, Stanford, CA, 3Howard Hughes Medical Institute, Stanford University School of Medicine, Stanford, CA, 4Institute for Stem Cell Biology and Regenerative Medicine, Stanford University School of Medicine, Stanford, CA

2:50 pm  3. Ex Vivo Expanded Regulatory T Cells Combined With Short-term Costimulation Blockade Prevent Rejection Of Vascularized Composite Allografts
Michael Grzelak1, Linh Vuong1, Georg Furtmüller1, Marcos Iglesias1, Madeline Fryer2, Damon Cooney1, WP Andrew Lee1, Giorgio Raimondi1, Gerald Brandacher1, Byoungchol Oh1
1Johns Hopkins School of Medicine, Baltimore, MD, 2University of Massachusetts Medical School, Worcester, MA

3:00 pm  4. Single Cell Transcriptome Analysis of Epithelial vs Chondrogenic Cell Types in Palate Morphogenesis
Claudio Macias-Trevino, MD-PhD Candidate1,2, Shannon H. Carroll, PhD1,2, Nora Alhazmi, DDS1,2, Edward B. Li, PhD1,2, Shawn A. Hallett, BA1,2, Dawn Truong, BA1,2, Eric C. Liao, MD/PhD1,2
3:10 pm  5. Inhibition of Mechanotransduction Yields Regenerative Wound Healing by Engrailed1-negative Fibroblasts
Shamik Mascharak, Alessandra L. Moore, Heather E. desJardins-Park, Maria R. Borrelli, Bryan Duoto, Malini Chinta, Deshka S. Foster, Hermann P. Lorenz, Michael T. Longaker
Stanford University, Stanford, CA

3:20 pm  6. Toward an Objective Outcome in Facial Reanimation Surgery: An Eyetracking Study
Thanapoom M. Boonipat¹, Amjed Abu-Ghname, MD¹, Ali Charaffadine, MD¹, Kevin D. Fleming, PhD², Mitchell Stotland, MD³, Samir Mardini, MD¹
¹Mayo Clinic, Rochester, MN, ²Norwich University, Northfield, VT, ³Sidra Medical, Doha, Qatar

3:30 pm  7. Novel Stem Cell Model of Frontonasal Dysplasia derived from Pedigree with ALX1-Mutation
Janina Kueper, MD¹,², Jonathan Pini, PhD¹,², Yiyuan D. Hu, BS¹,², Nikhil Sobti, BS³, Megan Rebello, BS¹,², Kana Ishii, PhD⁴, Nikkola Carmichael, MSc⁵, Victoria Perroni⁶, Richard L. Maas, MD, PhD⁶, Yevgenya Grinblatt, PhD⁷, Eric C. Liao, MD, PhD¹,²
¹Massachusetts General Hospital/Center for Regenerative Medicine, Boston, MA, ²Shriners Hospital for Children/Division of Plastic and Reconstructive Surgery, Boston, MA, ³Boston University, Boston, MA, ⁴Hokkaido University, Hokkaido, Japan, ⁵Brigham and Women’s Hospital, Boston, MA, ⁶Brigham and Women’s Hospital, Boston, MA, ⁷University of Wisconsin-Madison, Boston, MA

3:40 pm  8. Corneal Neurotization Rescues the Corneal Epithelium from Thinning in a Rat Model of Neurotrophic Keratopathy
Kira Antonyshyn¹,², Joseph Catapano, MD, PhD¹, Jennifer Zhang, MD, PhD², Tessa Gordon, PhD², Gregory H. Borschel, MD, FACS, FAAP¹,²
¹The University of Toronto, Toronto, ON, Canada, ²The Hospital for Sick Children, Toronto, ON, Canada

Brandon T. Smith, MS, Francesco M. Egro, MBChB, MSc, MRCS, Carolyn P. Murphy, BA, Alex G. Stavros, BA, Elizabeth M. Kenny, BS, Vu T. Nguyen, MD
University of Pittsburgh Medical Center, Pittsburgh, PA

4:00 pm-4:30 pm  COFFEE WITH EXHIBITORS

4:30 pm-5:00 pm  BEST AUSTRALASIAN PSRC (AAPSRC) PAPERS
Moderators / Intro: Michael W. Findlay, MD
Gregory H. Borschel, MD

4:30 pm  Paper #1

4:40 pm  Paper #2

4:50 pm  Paper #3
5:00 pm-6:00 pm  PSF PANEL JUGGLING ACT

Moderators:  Indranil Sinha, MD
            Grigoris Lamaris, MD

Work-Life Balance - Who Has a Good Work-Life Balance?
Summer Hanson, MD, PhD
MD Anderson Cancer Center, Houston, TX

Balancing Research and Clinical Practice
Amy M. Moore, MD
Washington University, Saint Louis, MO

Avoiding Burnout
Michael W. Neumeister, MD
SIU Medicine, Springfield, IL

6:00 pm  ADJOURN

7:00 pm-10:00 pm  WELCOME RECEPTION
National Aquarium

FRIDAY, MAY 3, 2019

8:00 am-9:30 am  CONCURRENT SESSION 2: BASIC/TRANSITIONAL SCIENCE

8:00 am  10. The Outcomes of Orthognathic Surgery: An Analysis Utilizing the Pediatric Health Information System (PHIS) Database
Diana S. Jodeh, MD, Anh Thy H. Nguyen, MSPH, S. Alex Rottgers, MD
Johns Hopkins All Children's Hospital, St. Petersburg, FL

8:08 am  11. A Novel Tissue Engineered Three-Dimensional Biomimetic Platform for In Vitro Study of BIA-ALCL
Matthew A. Wright1, Daniel O. Lara1, Arash Samadi1, Yoshiko Toyoda1, Karel-Bart Celie1, Runlei Zhao1, Giorgio G. Inghirami2, Kristy A. Brown3, Jason A. Spector1
1Laboratory of Bioregenerative Medicine and Surgery, Weill Cornell Medical College, New York, NY, 2Department of Pathology and Laboratory Medicine, Weill Cornell Medical College, New York, NY, 3Department of Medicine, Weill Cornell Medical College, New York, NY

8:16 am  12. Development of Compact Fat Graft by Modulating PPARy Neddylation
Il-Kug Kim1, Uk-II Ju2, Ki Yong Hong3, Ung Sik Jin4, Yang-Sook Chun2, Hak Chang4
1Department of Plastic and Reconstructive Surgery, Yeungnam University College of Medicine, Daegu, Korea, Republic of, 2Department of Biomedical Sciences, Seoul National University College of Medicine, Seoul, Korea, Republic of, 3Department of Plastic and Reconstructive Surgery, Dongguk University Medical Center, Seoul, Korea, Republic of, 4Department of Plastic and Reconstructive Surgery, Seoul National University College of Medicine, Seoul, Korea, Republic of

8:24 am  13. Timing of Microsurgical Reconstruction in Lower Extremity Trauma: An Update of the Godina Paradigm
Z-Hye Lee, MD, John T. Stranix, MD, William Rifkin, BA, David A. Daar, MD, Lavinia Anzai, MD, Daniel J. Ceradini, MD, Vishal D. Thanik, MD, Pierre B. Saadeh, MD
NYU Langone Medical Center, New York, NY
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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Presenters</th>
<th>Institutions</th>
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<td>8:32 am</td>
<td><strong>14. Large Gap Peripheral Nerve Repair in a Non-Human Primate Model: Improving Outcomes Utilizing Photochemical Tissue Bonding (PTB) with Acellular Nerve Allograft (ANA)</strong></td>
<td>Marek A. Hansdorfer, MD1, Jane M. Tsui, MD1, Marco Visaggio, MD1, Gem G. Runyan, M.S.1, Mark A. Randolph, M.A.S1, William S. David, MD, PhD2, Reiner B. See, MD2, Ian L. Valerio, MD, M.S., M.B.A.3, Jonathan M. Winograd, MD1, Robert W. Redmond, PhD4</td>
<td>1Division of Plastic and Reconstructive Surgery, Massachusetts General Hospital, Harvard Medical School, Boston, MA, 2Department of Neurology, Massachusetts General Hospital, Harvard Medical School, Boston, MA, 3Department of Plastic and Reconstructive Surgery, The Ohio State University Wexner Medical Center, Columbus, OH, 4Wellman Center for Photomedicine, Massachusetts General Hospital, Harvard Medical School, Boston, MA</td>
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<td>8:40 am</td>
<td><strong>15. The Role of Burn Tissue and Denatured Small Leucine Rich Proteoglycans in the Activation of the Toll-like Receptor 4 Pathway</strong></td>
<td>Ambika Agrawal, Jie Ding, MD PhD, Babita Agrawal, PhD, Edward E. Tredget, MD, MSc, FRCSC</td>
<td>University of Alberta, Edmonton, AB, Canada</td>
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<td>8:48 am</td>
<td><strong>16. Tissue-Engineered Articular Cartilage Construct in Hand Surgery for Sub-mm Fractional Repair</strong></td>
<td>Yingfang Fan, MD, PhD, William A. Farinelli, BS, Samuel D. Zarfos, BS, Gem Runyan, BS, Ying Wang, MD, Joshua Tam, PhD, R. Rox Anderson, MD, Mark A. Randolph, MAS, Robert W. Redmond, PhD</td>
<td>Massachusetts General Hospital, Boston, MA</td>
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<td>8:56 am</td>
<td><strong>17. Increasing Ischemia Time Diminishes Chimerism After Vascularized Bone Marrow Allotransplantation</strong></td>
<td>Nicholas Do, MD1, Madonna R. Anggelia, MSc2, Hsien-Tang Lin1, Zhi-Lin Peng1, Wen-Yu Chuang, MD1, Luke CH Lin, MD1</td>
<td>Chang Gung Memorial Hospital, Taoyuan, Taiwan, Chang Gung University, Taoyuan, Taiwan</td>
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<td>9:04 am</td>
<td><strong>18. Human ARF Tumor Suppressor Suppresses Zebrafish Cardiac Regeneration</strong></td>
<td>Solomon Lee, MD, Stanley Tamaki, PhD, Jason Pomerantz, MD</td>
<td>University of California, San Francisco, San Francisco, CA</td>
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<td>9:12 am</td>
<td><strong>19. Extended Graft Survival After Cryopreservation and Storage Below -130°C in a Rat Orthotopic Hind Limb Model</strong></td>
<td>Samuel A.J. Fidder, MD1,2, Byoungchol Oh, D.V.M., Ph.D1, Franka Messner, MD1, Georg J. Furtmueller, MD1, Kristi Helke, D.V.M., Ph.D3, Elizabeth D. Greene4, Zhen Chen, Msc.4, Lia H. Campbell, Ph.D4, Gerald Brandacher, MD1, Kelvin G.M. Brockbank, PhD4,5</td>
<td>1Johns Hopkins Hospital, Baltimore, MD, 2Erasmus University Medical Center, Rotterdam, Netherlands, 3Medical University of South Carolina, Charleston, SC, 4Tissue Testing Technologies LLC, North Charleston, SC, 5Clemson University, Charleston, SC</td>
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<td>9:20 am</td>
<td><strong>20. Sustained-Release Angiogenic Nanoparticle Increases Union Rates, Vascularity, and Cellularity of the Irradiated Murine Mandible Following Nonvascularized Bone Graft Reconstruction</strong></td>
<td>Kevin M. Urlaub, BS, Russell E. Ettinger, MD, Novreet K. Dosanjh, Jeremy V. Lynn, BS, Noah S. Nelson, MPH, Alexis Donneys, MD, MS, Steven R. Buchman, MD</td>
<td>University of Michigan, Ann Arbor, MI</td>
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**8:00 am-9:30 am** CONCURRENT SESSION 2: CLINICAL
Isabel Robinson, BA1, Amanda Silva, MD2, Salma Abdou, BA1, David Daar, MD MBA1, Alexes Hazen, MD1, Vishal Thanik, MD1
1NYU School of Medicine, New York, NY, 2University of Chicago, Chicago, IL

22. Real-time Dextrous Fine Motor Control of an Advanced Prosthetic Arm Using Regenerative Peripheral Nerve Signals
Nathan Lawera, Philip Vu, Zachary Irwin, Alex Vaskov, Chrono Nu, Deanna Gates, Brent Gillespie, Theodore Kung, Paul Cederna, Cynthia Chestek, Stephen W. Kemp
University of Michigan, Ann Arbor, MI

23. Immediate Reconstruction of Oncologic Spinal Wounds Is Cost Effective Compared to Conventional Primary Wound Closure
Alexander F. Mericli, MD, Justin E. Bird, MD, Laurence D. Rhines, MD, Jun Liu, PhD, Jesse C. Selber, MD, MPH
The University of Texas MD Anderson Cancer Center, Houston, TX

24. Two-Stage Prosthetic Prepectoral Breast Reconstruction: A Comparison of Tissue Expansion with Carbon Dioxide and Saline
Karan Chopra, MD1, Devinder Singh, MD2, Nick Hricz, B.A.2, Kylie Brassard, B.A.2, Luther Tripp Holton, III, MD2
1Johns Hopkins University, School of Medicine, Baltimore, MD, 2Anne Arundel Medical Center, Annapolis, MD

25. Mandibular Reconstruction in the Elderly: Are Outcomes Comparable to Younger Patients?
Sina J. Torabi1, Fouad Chouairi, BS1, Jacob Dinis, BS2, Henry Hsia, MD1, Michael Alperovich, MD1
1Yale School of Medicine, New Haven, CT, 2Yale School of Medicine, North Haven, CT

Daniel Y. Cho, MD, PhD1, Cameron J. Kneib, BS1, Jonathan P. Massie, MD2, Shane D. Morrison, MD, MS1, Danielle L. Sobol, MD1, Christopher S. Crowe, MD1, Megan Lane, MD3, Afaaf Shakir, MD4, Jacob R. Burns, MD, MBA5, Janelle D. Sousa, MD1, Eduardo D. Rodriguez, MD, DDS6
1University of Washington, Seattle, WA, 2Northwestern University, Chicago, IL, 3University of Michigan, Ann Arbor, MI, 4University of Chicago, Chicago, IL, 5University of California, Davis, Sacramento, CA, 6New York University, New York, NY

27. Improved Diagnostic Accuracy of Periprosthetic Breast Infection: Novel Application of the Alpha-Defensin 1 Biomarker
Marten N. Basta1, Paul Y. Liu, MD FACS1, Daniel Kwan, MD1, Karl H. Breuing, MD FACS1, Rachel Sullivan, MD1, Chris C. Jehle, MD1, Jonathan L. Bass, MD1, Brian C. Drolet, MD2, Scott Schmidt, MD1
1Brown University & Rhode Island Hospital, Providence, RI, 2Vanderbilt University School of Medicine, Nashville, TN

28. Trends in Industry Payments to Plastic Surgeons - What does the Sunshine Act Database Tell Us?
Rizwan Ahmed, MD1, Joseph Lopez, MD, MBA2, Scott Bloom, MD1, Dorry Segev, Md PhD2, Evan Westrick, MD1, Joshua Spiegel, MD1, James May, MD3, Scott Lifchez, MD4
1Florida Hospital, Orlando, FL, 2Johns Hopkins University, Baltimore, MD, 3Harvard University, Boston, MA, 4Johns Hopkins Hospital, Baltimore, MD
9:04 am 29. Prepectoral Direct-to-Implant Breast Reconstruction: Safety Outcome Endpoints and Delineation of Risk Factors
Rachel E. Weitzman, M.S., Kassandra P. Nealon, B.Sc., Nikhil Sobti, B.A., Michele A. Gadd, MD, Michelle C. Specht, MD, William G. Austen, Jr., MD, Eric C. Liao, MD, PhD
Massachusetts General Hospital, Boston, MA

Montefiore Medical Center, Bronx, NY

Hassan ElHawary, M.Sc1, Nebras Ghazawi1, Johnny Efanev, M.D2, Ali Izadpanah, MD2
1McGill University, Montreal, QC, Canada, 2University of Montreal Health Centre, Montreal, QC, Canada

9:30 am-10:00 am COFFEE WITH EXHIBITORS

10:00 am-11:00 am CONCURRENT SESSION 3: BASIC/TRANSLATIONAL SCIENCE

10:00 am 32. Predictors of Adverse Events Following Cleft Palate Repair in Nearly 5,000 Patients
Elbert J. Mets, BA, Fouad K. Chouairi, BS, Sina J. Torabi, BA, Michael Alperovich, MD
Yale School of Medicine, New Haven, CT

10:08 am 33. Understanding the Role of Adipocytes and the Tumor Microenvironment on Doxorubicin Therapy of Breast Cancer in a Tissue Engineered, Patient Specific, High-throughput Biomimetic Platform
Daniel Lara, BS1, Karel-Bart Celie, BA2, Yoshiko Toyoda, BA1, Matthew Wright, BA2, Arash Samadi, BS1, Justin Buro, BA3, Sofya Oshchejkova, BA1, Sophia Hameedi, BA2, Kristy Brown, PhD1, Jason Spector, MD1
1Weill Cornell Medicine, New York, NY, 2Columbia University Vagelos College of Physicians and Surgeons, New York, NY, 3George Washington University School of Medicine and Health Sciences, Washington, DC

10:16 am 34. The Anti-fibrotic Role Of Cd74+ Ascs In Grafted Fat In The Irradiated And Non-irradiated Setting
Mimi R. Borrelli, Ronak A. Patel, Jan Sokol, Dung Nguyen, Arash Momeni, Michael T. Longaker, MD, MA, Derrick C. Wan, MD
Stanford, Palo Alto, CA

10:24 am 35. Tissue Monitoring with Novel Broadband Light Emitting Diode-Based Near-Infrared Spectroscopy Device
Heather A. McMahon, MD, Jonathon B. Olenczak, MD, Christine V. Schaeffer, MD, David C. Lobb, MD, Keita Ikeda, PhD, Robert H. Thiele, MD, Chris A. Campbell, MD
University of Virginia, Charlottesville, VA

10:32 am 36. Viability and Signal Transduction with the Composite Regenerative Peripheral Nerve Interface (C-RPNI)
Carrie A. Kubiak, MD, Daniel C. Ursu, PhD, Jana D. Moon, B.S., Parag G. Patil, MD, Theodore A. Kung, MD, Paul S. Cederna, MD, Stephen W.P. Kemp, PhD
University of Michigan, Ann Arbor, MI
37. Machine Learning Analysis Of Connective Tissue Networks Enables Objective Characterization Of Skin Fibroses
Malini Chinta, Shamik Mascharak, BA1, Mimi R. Borrelli, MBBS, MSc1, Alessandra L. Moore, MD1, Rachel E. Brewer1, Jan Sokol1, Gabriela Kania2, Evelyn Garibay1, Deshka Foster, MD1, Heather desJardins-Park, AB1, Bryan Duoto1, Oliver Distler2, Geoffrey C. Gurtner, MD1, H. Peter Lorenz, MD1, Derrick C. Wan, MD1, Howard Y. Chang, MD, PhD1, Michael T. Longaker, MD, MBA1
1Stanford University, Palo Alto, CA, 2University Hospital Zurich, Zurich, Switzerland

10:48 am 38. Mechanisms of Disruption in Craniofacial Ossification Caused by fgfr1a Mutations
Yufan Yan, Joanna K. Ledwon, Lauren Kelsey, Arun K. Gosain
Northwestern University Feinberg School of Medicine, Ann & Robert H. Lurie Children’s Hospital of Chicago Division of Plastic and Reconstructive Surgery, Stanley Manne Children’s Research Institute, Chicago, IL

11:00 am-12:00 pm CONCURRENT PSF PANEL
Moderator: Harvey Chim, MD

Basic Scientist from Resident to Faculty
Justine Lee, MD

Initiating and leveraging collaborations in translational science
Paul S. Cederna, MD
University of Michigan, Ann Arbor, MI

Building a lab, building a study team
Eric C. Liao, MD, PhD
Massachusetts General Hospital, Boston, MA

10:00 am-11:00 am CONCURRENT SESSION 3: CLINICAL

10:00 am 39. A Simple Way to Reduce Opioid Over-Prescribing by Plastic Surgery Residents
David W. Grant, MD, MASc1, Hollie A. Power, MD2, Linh N. Vuong, BSc3, Colin W. McInnes, MD1, Katherine B. Santosa, MD MS4, Jennifer F. Waljee, MD MPH MS4, Susan E. Mackinnon, MD1
1Division of Plastic and Reconstructive Surgery, Washington University in St. Louis, St. Louis, MO, 2Division of Plastic Surgery, University of Alberta, Edmonton, AB, Canada, 3Washington University in St. Louis School of Medicine, St. Louis, MO, 4Section of Plastic Surgery, University of Michigan, Ann Arbor, MI

10:08 am 40. Leadership in Academic Plastic Surgery: Current Representation of Women
Wendy Chen, MD, MS1, Marissa Baron, MPH2, Debra A. Bourne, MD1, Justine Kim, MD1, Kia M. Washinton, MD3, Carolyn Delacruz, MD1
1University of Pittsburgh, Pittsburgh, PA, 2University of Pittsburgh School of Medicine, Pittsburgh, PA, 3University of Colorado, Denver, CO

10:16 am 41. Underrepresentation in Plastic Surgery: Examining the Influence of Specialty Factors on Career Choice
Jason L. Green, BS1, Kate B. Krucoff, MD2, Krisen Rezak, MD2, Suhail K. Mithani, MD2
1Duke University School of Medicine, Durham, NC, 2Duke University Medical Center, Durham, NC

10:24 am 42. 3D Mesh Releasing by the Fractional CO2 Laser -- A Retrospective Analysis of
Fractional CO2 Treatment on Contracture Scars
Wenjing Xi, B.SE., MD, Yixin Zhang, MD, PhD
Shanghai Ninth’s People’s Hospital, Shanghai Jiao Tong University School of Medicine, Shanghai, China

Daniel Boczar1, David J Restrepo1, Andrea Sisti1, Maria T. Huayllani1, Jeremie D. Oliver2, Haytham Helmi1, Colleen Ball1, Brian D RInker1, Antonio Jorge Forte1
1Mayo Clinic Florida, Jacksonville, FL, 2Mayo Clinic School of Medicine, Rochester, MN

10:40 am  44. Impact of Nipple-Sparing Mastectomy on Patient Reported Outcomes after Immediate Breast Reconstruction: A Multi-Institutional Study
Katherine B. Santosa, MD, MS1, Ji Qi, MS1, Hyungjin M. Kim, ScD1, Jennifer B. Hamill, MPH1, Andrea L. Pusic, MD, MHS2, Yoon Sun Chun, MD2, Edwin G. Wilkins, MD, MS1, Jeffrey H. Kozlow, MD, MS1
1University of Michigan, Ann Arbor, MI, 2Brigham Health, Boston, MA

10:48 am  45. Clinical Factors Influencing Breast Reconstruction in Post Mastectomy Breast Cancer Patients
Ishan Mehta, Christopher Tokin, Thomas O’Keefe, Anne Wallace
University of California San Diego, San Diego, CA

11:00 am-12:00 pm  CONCURRENT PSF PANEL
Moderator: Adeyiza O. Momoh, MD

Qualitative Research in Plastic Surgery
Carisa M. Cooney, MPH, CCRP
Johns Hopkins University School of Medicine, Baltimore, MD

Initiating and Leveraging Collaborations In Health Services
Andrea L. Pusic, MD
Brigham and Women's Hospital, Boston, MA

Building a Study Team
Clara N. Lee, MD, NPP
The Ohio State University, Columbus, OH

12:00 pm-1:00 pm  CONCURRENT LUNCH SYMPOSIA

1:00 pm-2:30 pm  CONCURRENT SESSION 4: BASIC/TRANSLATIONAL SCIENCE

1:00 pm  46. Three-Dimensional Scaffold-Free Spheroids with Fibroblast/Macrophage Co-Culture for in vitro Fibrosis Modeling
Yu Tan, PhD, Matthew Garza, BS, Wilmina Landford, MD, Devin Coon, MD MSE
Johns Hopkins University, Baltimore, MD

1:08 pm  47. AMD3100 (Plerixafor) As A Single-Dose Stem Cell Mobilizing Agent In Vascularized Composite Tissue Allograft (VCA) Transplantation In A Canine DLA-Mismatch Model
Bruce J. Swearingen, MD1, Scott S. Graves, PhD2, Rainer Storb, MD2, David W. Mathes, MD1
1University of Colorado School of Medicine, Aurora, CO, 2Fred Hutchinson Cancer Research Center, Seattle, WA

1:16 pm  48. And at last, the Wound is Healed⋯ or, is it?! In Search of an Objective Way to Predict
the Recurrence of Diabetic Foot Ulcers
Babak Hajhosseini, MD1, Geoffrey C. Gurtner, MD1, Chandan K. Sen, PhD2
1Stanford University School of Medicine, Stanford, CA, 2Indiana University, Indianapolis, IN

1:24 pm
49. Variation in the Utilization of Post-Operative Computed Tomography for Patients with Non-Syndromic Craniosynostosis: A National Claims Analysis
Katelyn G. Bennett, MD MS, Vidhya Gunaseelan, MS MHA, Christian J. Vercler, MD MA, Steven R. Buchman, MD, Jennifer F. Waljee, MD MS
University of Michigan, Ann Arbor, MI

1:32 pm
50. Chondrogenic Differentiation of Human Bone Marrow Mesenchymal Stem Cells by Co-Culture with Xenogeneic Swine Chondrocytes
Yingfang Fan, MD, PhD, Gem Runyan, BS, Samuel D. Zarfos, BS, Mark A. Randolph, MAS
Massachusetts General Hospital, Boston, MA

1:40 pm
51. Intraoperative Laser-Assisted Indocyanine Green Imaging Can Reduce the Rate of Fat Necrosis in Microsurgical Breast Reconstruction
Clifford Sheckter, MD, Arash Momeni, MD
Stanford, Stanford, CA

1:48 pm
52. PEG Fusion Significantly Improves Return of Function in a Median/Ulnar Nerve Denervation Model
Christopher M. Frost, MD1, Cameron Ghergherehchi2, George Bittner, PhD2, Gerald Brandacher, MD1, Jaimie Shores, MD1
1Johns Hopkins Hospital, Baltimore, MD, 2University of Texas, Austin, TX

1:56 pm
53. Regulatory T Cells Promote Tolerance during the Early Post-Operative Period in Murine Osteomyocutaneous Vascularized Composite Allotransplantation
Madonna R. Angelia1,2, Hui-Yun Cheng1, Wen-Yu Chuang3, Chih-Hung Lin4, Gerald Brandacher5, Fu-Chan Wei1, Nicholas Do1, WP Andrew Lee5, Cheng-Hung Lin1
1Center for Vascularized Composite Allotransplantation, Department of Plastic and Reconstructive Surgery, Chang Gung Memorial Hospital, Chang Gung Medical College and Chang Gung University, Taoyuan, Taiwan, 2Graduate Institute of Biomedical Sciences, College of Medicine, Chang Gung University, Taoyuan, Taiwan, 3Department of Pathology, Chang Gung Memorial Hospital, Chang Gung Medical College and Chang Gung University, Taoyuan, Taiwan, 4Department of Plastic and Reconstructive Surgery, Chiayi Chang Gung Memorial Hospital, Taoyuan, Taiwan, 5Department of Plastic and Reconstructive Surgery, Vascularized Composite Allotransplantation (VCA) Laboratory, Johns Hopkins University School of Medicine, Baltimore, MD

2:04 pm
54. Reconstruction of Craniofacial Structural Defects Through Patient-specific 3-D Printed Custom Scaffolds: Development of A Porcine Model
Richard F. Guidry, B.S.1, Silpa Sharma, M.P.H.2,3, Adam Prevot, B.S.1, Ian R. Wisecarver, MD1, Luis Marrero, PhD2, Mandi J. Lopez, D.V.M, PhD4, Gerhard S. Mundinger, MD2
1Louisiana State University School of Medicine, New Orleans, LA, 2Louisiana State University Health Sciences Center, New Orleans, LA, 3Children's Hospital of New Orleans, New Orleans, LA, 4Louisiana State University Laboratory for Equine and Comparative Orthopedic Research, Baton Rouge, LA

2:12 pm
55. Trans-facial Minimal-Dissection External Mandibular Distraction Osteogenesis for Neonatal Airway Obstruction from Pierre Robin Sequence
Jeremie D. Oliver, MD, MS Candidate1, Christopher M. Runyan, MD, PhD2, Dominic Massary, MD2, Lyfong Lor, BS2, Shayan Jahanpanah, BS3, Brian S. Pan, MD3, Christopher B. Gordon, MD4, Haithem Elhadi Babiker, MD, DMD3
2:20 pm 56. Construction of Ear Frameworks For Microtia Repair Using AuryzoN™, A Novel Investigational Medical Device
   Angelo A. Leto Barone, MD, Michael Grzelak, BS, Regina Cho, BS, MSE, Amy Q. Quan, MD, George Kokosis, MD, Georges Samaha, MD, Patrick Byrne, MD, Anirudh Arun, MD, Richard Redett, III, MD
   Johns Hopkins University, Baltimore, MD

1:00 pm - 2:30 pm CONCURRENT SESSION 4: CLINICAL

1:00 pm 57. Fertility and Family for Plastic Surgery Residents and Fellows
   Debra A. Bourne, MD1, Wendy Chen, MD1, Benjamin Schilling, MS2, Eliza Beth Littleton, PhD2, Kia Washington, MD3, Carolyn De La Cruz, MD1
   1University of Pittsburgh Medical Center, Pittsburgh, PA, 2University of Pittsburgh, Pittsburgh, PA, 3University of Colorado, Aurora, CO

1:08 pm 58. Geospatial Analysis of Medical Reach and Barriers to Surgical Cleft Care in Los Angeles
   Naikhoba C.O. Munabi, MD1, Madeleine S. Williams, BA2, Pedram Goel, BS1, Eric S. Nagengast, MD1, Jeffrey A. Hammoudeh, MD, DDS1, Mark M. Urata, MD, DDS1, William P. Magee, III, MD, DDS1
   1Children’s Hospital Los Angeles, Los Angeles, CA, 2Children's Hospital Los Angeles, CA

   Kanad Ghosh, BA1, Jocellie Marquez, MD2, Kailash Kapadia, BS1, Austin Ferrier, BS1, Christopher Medrano, BA1, William Marmor, BS1, Gurtej Singh, PhD2, Vasileios Vasilakis, MD3, Tara Huston, MD, FACS2, Jason Ganz, MD, FACS2, Sami Khan, MD2, Alexander Dagum, MD2, Duc Bui, MD2
   1Stony Brook University School of Medicine, Stony Brook, NY, 2Stony Brook University Hospital, Stony Brook, NY, 3Long Island Plastic Surgery Group, Garden City, NY

1:24 pm 60. Chemotherapy Effects on Clinical Complications and Patient Reported Outcomes after Immediate Breast Reconstruction
   Sarah E. Hart, MD1, David L. Brown, MD1, Andrea L. Pusic, MD, MHS2, Hyungjin M. Kim, ScD1, Ji Qi, MS1, Jennifer B. Hamill, MPH1, Edwin G. Wilkins, MD, MS1
   1University of Michigan, Ann Arbor, MI, 2Brigham and Women’s Hospital, Boston, MA

   Alexandra O. Luby, MS, Chitra Subramanian, PhD, MBA, Lauren K. Buchman, Jeremy V. Lynn, BS, Kevin M. Urlaub, BS, Noah S. Nelson, MPH, Alexis Donneys, MD, Mark S. Cohen, MD, Steven R. Buchman, MD
   University of Michigan, Ann Arbor, MI

1:40 pm 62. Establishing the First U.S - Government Funded Transgender Program for an Uninsured Population: A 5 Year Review of the San Francisco General Hospital Experience
   Dhivya Srinivasa, MD, Seth Pardo, PhD, Barry Zevin, MD, Julie Graham, MTF, Jason Pomerantz, MD, Esther Kim, MD, Michael Terry, MD
   University of California San Francisco, San Francisco, CA

1:48 pm 63. Mepilex Ag versus Xeroform as Dressings for Split-Thickness Skin Graft Donor Sites
1:56 pm  64. Developing an Evidence-Based Approach to Using Acellular Dermal Matrix in Expandable-Implant-based Breast Reconstruction
Nishant Ganesh Kumar, MD1, Nicholas L. Berlin, MD1, Ji Qi, MS1, Hyungjin M. Kim, ScD1, Koki Sagiyama, PhD1, Jennifer B. Hamill, MPH1, Jeffrey H. Kozlow, MD, MS1, Andrea L. Pusic, MD, MHS2, Edwin G. Wilkins, MD, MS1
1University of Michigan Health System, Ann Arbor, MI, 2Brigham Health, Boston, MA

2:04 pm  65. The Effect of Padded Adhesive Dressings and Body Position on Sacral Interface Pressure
Michelle Seu, BA1, Alison Wong, MD MSE2, Deepa Bhat, MD1, Matthew Nojoomi, MSE3, Michael Wong, MD4, Justin Sacks, MD MBA FACS1
1Johns Hopkins Department of Plastic and Reconstructive Surgery, Baltimore, MD, 2Dalhousie Division of Plastic and Reconstructive Surgery, Baltimore, MD, 3Johns Hopkins Center for Bioengineering Innovation and Design, Baltimore, MD, 4Dalhousie Department of Anesthesiology, Halifax, NS, Canada

2:12 pm  66. Ten Years After: A Decade of Experience Using Muscle Flap Closure Following Complex Spine Surgery to Lower Morbidity
Matthew A. Wright1, Jaime L. Bernstein2, Philipp Franck2, Arash Samadi1, Daniel O. Lara1, Leslie E. Cohen2, Jason A. Spector1
1Laboratory of Bioregenerative Medicine and Surgery, Weill Cornell Medical College, New York, NY, 2Department of Surgery, Weill Cornell Medical College, New York, NY

2:20 pm  67. Cognitive and Behavioral Outcomes of Cranially-Mature Unilateral Coronal Craniosynostosis
Robin T. Wu, BS1, Kyle S. Gabrick, MD1, Anusha Singh, BS1, Jesse A. Taylor, MD2, Scott P. Bartlett, MD2, Derek M. Steinbacher, DMD, MD1, John A. Persing, MD1, Michael A. Alperovich, MD, MSc1
1Yale University School of Medicine, New Haven, CT, 2Children’s Hospital of Philadelphia, Philadelphia, PA

2:30 pm-3:00 pm  COFFEE BREAK WITH EXHIBITORS

3:00 pm-4:00 pm  CONCURRENT SESSION 5: BASIC/TRANSLATIONAL SCIENCE

3:00 pm  68. Tolerance Induction of Vascularized Composite Allografts Across a Class I Barrier in Swine
Alexandre G. Lellouch, MD1, Gaelle Saviane, MSc1, Laura C. Burlage, MD3,4, Ilse M. Schol, BS1, Laurent A. Lantieri, MD2, Mark A. Randolph, Msc1, Gilles Benichou, PhD1, Curtis L. Cetrulo, Jr., MD, FACS5
1MGH / Harvard Medical School, Boston, MA, 2European Georges Pompidou Hospital, Paris, France, 3MGH / Harvard Medical SchoolMGH, Boston, MA, 4Medical Center Groningen, Groningen, Netherlands, 5MGH, Boston, MA

3:08 pm  69. Acceleration Of Dermal Wound Healing By Regulation Of A Circadian Clock Gene, Neuronal Pas Domain 2 (Npas2)
Akishige Hokugo, DDS PhD1, Hodaka Sasaki, DDS, PhD2,3, Lixin Wang, DMD1, Kenzo Morinaga, DDS, PhD2,4, Hiroko Okawa, DDS, PhD2, Daniel Khalil, MD1, Reza Jarrahy, MD1, Ichiro Nishimura, DDS, DMSc, DMD2
1David Geffen School of Medicine at UCLA, Los Angeles, CA, 2UCLA School of Dentistry, Los
70. Evaluation of Cephalic Index Norms After the Back to Sleep Campaign: An Epidemiologic Study
Melissa J. McCarthy, M.P.H., Alannah Phelan, MD, Garrick Gu, B.A., Danielle Stamer, B.S., Joyce K. McIntyre, MD, Janice F. Lalikos, MD

University Of Massachusetts Medical School, Worcester, MA

3:24 pm

71. Improved Fat Graft Retention with Nanofiber-Hydrogel Tissue Scaffold in an In-Vivo Murine Model
Deepa Bhat, MD1, Bart Kachnierz, MD MBA2, Michelle Seu, BS2, Xiaowei Li, PhD2, Russell Martin, PhD2, Brian Cho, MD2, Sashank Reddy, MD PhD2, Hai Quan Mao, PhD2, Justin Sacks, MD MBA2

1Albany Medical Center, Albany, NY, 2Johns Hopkins School of Medicine, Baltimore, MD

3:32 pm

72. Mobile Smart-Phone Thermal Imaging Accurately Predicts Perforator Location and Microvascular Flow Insufficiencies
Cody J. Phillips1, Morgan R. Barron, MD1, John Kuckelman, DO1, Michael Derickson, MD1, Vance Sohn, MD1, Keith Paige, MD2, Kevin Beshlian, MD3

1Madigan Army Medical Center, Tacoma, WA, 2Swedish Cancer Institute, Seattle, WA, 3The Polyclinic, Seattle, WA

3:40 pm

73. Brief Electrical Stimulation Enhances Axon Regeneration Through a Nerve Graft
Kevin J. Zuo, MD1,2, Golsa Shafa, BSc2, Katelyn Chan, B.Eng2, Kira Antonyshyn, BSc2, Tessa Gordon, PhD1,2, Gregory H. Borschel, MD, FACS1,2

1Division of Plastic & Reconstructive Surgery, Department of Surgery, University of Toronto, Toronto, ON, Canada, 2Division of Plastic & Reconstructive Surgery, The Hospital for Sick Children, Toronto, ON, Canada

3:48 pm

74. Inactivation of Cntnap4 in Cranial Neural Crest Cells Results in Craniofacial Bone Deformities and Hydrocephalus

UCLA, Los Angeles, CA

3:00-4:00 pm

CONCURRENT SESSION 5: CLINICAL

3:00 pm

75. Gender Diversity in Organized Plastic Surgery: Evaluation of Leadership in Societies and Editorial Boards
Kevin Chen, MD1, Grace Ha, BA1, Benjamin D. Schultz, MD1, Ben Zhang, BA1, Mark L. Smith, MD1, James P. Bradley, MD1, Charles H. Thorne, MD2, Armen K. Kasabian, MD1, Andrea L. Pusic, MD MHS3, Neil Tanna, MD MBA1

1Donald and Barbara Zucker School of Medicine at Hofstra/Northwell, New Hyde Park, NY, 2Lenox Hill Hospital, New York, NY, 3Brigham and Women's Hospital, Boston, MA

3:08 pm

76. Motor and Sensory Control of Robotic Hands Through Fascicular Targeting
Jonathan Cheng, MD, FACS1, Edward Keefer, PhD2

1University of Texas Southwestern Medical Center, Dallas, TX, 2Nerves Incorporated, Dallas, TX

3:16 pm

77. Pre-Operative DIEP Flap Patient Education Class Helps Decrease Anxiety and Increase Excitement/Preparedness Around Surgery
Lisa Gfrerer, MD PhD, Matthew J. Carty, MD, Jessica Erdmann-Sager, MD, Stephanie A. Caterson, MD
3:24 pm  78. Outcomes Following Augmentation Mammoplasty in Transgender and Cisgender Females
Nicholas G. Cuccolo1, Christine O. Kang, MD, MHS, MS1, Elizabeth Boskey, PhD, MPH1, Ahmed M.S. Ibrahim, MD, PhD1, Louise L. Blankensteijn, MD1, Amir Taghinia, MD2, Bernard T. Lee, MD, MPH, MBA1, Samuel J. Lin, MD, MBA1, Oren Ganor, MD2
1Beth Israel Deaconess Medical Center/Harvard Medical School, Boston, MA, 2Boston Children's Hospital/Harvard Medical School, Boston, MA

3:32 pm  79. The Affordable Care Act State-Specific Medicaid Expansion Effect on Insurance Coverage and Breast Reconstruction Rates: A Difference-in-Difference Model Quasi-Experimental Study
Yoshiko Toyoda, BA1, Eun Jeong Oh, MA2, Alexandra Lin, BA1, Codruta Chiuzan, PhD2, Christine H. Rohde, MD, MPH1
1Division of Plastic and Reconstructive Surgery, Department of Surgery, New York-Presbyterian Hospital, New York, NY, 2Department of Biostatistics, Columbia University, Mailman School of Public Health, New York, NY

3:40 pm  80. Single Stage Direct-to-Implant Breast Reconstruction: A Comparison Between Subpectoral Versus Prepectoral Implant Placement
Trishul Kapoor, MD, Joseph Banuelos, MD, Steven Jacobson, MD, Nho V. Tran, MD, Jorys Martinez-Jorge, MD, Minh-Doan T. Nguyen, MD, PhD, Christin Harless, MD, Oscar J. Manrique, MD
Mayo Clinic, Rochester, MN

3:48 pm  81. Dental Agenesis and Maxillary Growth Restriction in Cleft Lip and Palate Patients
Lindsay E. Janes, MD1, Mohamed Bazina, DDS, MSD2, Sherif Morcos, DDS2, Angelica Ukaigwe, BS3, Manish Valiathan, DDS, MSD2, Ronald Jacobson, DDS, MSD3, Arun K. Gosain, MD3
1Northwestern University, Chicago, IL, 2Case Western Reserve University, Cleveland, OH, 3Lurie Children's Hospital, Chicago, IL

4:00 pm-4:30 pm  INTERNATIONAL PANEL

4:30 pm  ADJOURN

7:00 pm-9:00 pm  MEMBERS DINNER
The Walters Museum
8:00 am-8:30 am  BEST EUROPEAN PSRC (EPSRC) PAPERS

8:00 am  EPSRC01. The Role of Lymph Nodes' Transfer and Lymphangiogenesis In Vascularized Composite Allotransplantation
Ioana Lese (Bern/CH)

8:10 am  EPSRC02. Prophylactic Regenerative Peripheral Nerve Interface (RPNIs) to Prevent Postoperative Pain
Theodore Kung (Ann Arbor/US)

8:20 am  EPSRC03. Adipose Matrix Derived Hydrogels Incubated With Release Paracrine Factors By Adipose Derived Stromal Cells- A Novel Allogenic Treatment For Wound Healing
Joris A. van Dongen (Groningen/NL)

8:30 am-10:00 am  CONCURRENT SESSION 6: BASIC/TRANSLATIONAL SCIENCE

8:30 am  82. Identification of Novel Sub-Populations of Resident and Inflammatory Myeloid Cells and Osteogenic Progenitor Cells in Musculoskeletal Trauma
Michael Sorkin, MD, Amanda K. Huber, PhD, Charles Hwang, Noelle D. Visser, MS, Rajasree Menon, PhD, Benjamin Levij
University of Michigan, Ann Arbor, MI

8:38 am  83. Minimizing Implant Infection and Capsular Contracture Through the Use of Antibiotic-Eluting Nanofiber Coatings
Bartlomiej Kachnierz, MD MBA1, Sashank Reddy, MD PhD1, Russell A. Martin, PhD2, Deepa Bhat, MD3, Roger Ortines, BS4, Lloyd S. Miller, MD PhD4, Hai-Quan Mao, PhD2, Justin M. Sacks, MD1
1Johns Hopkins Hospital, Baltimore, MD, 2Translational Tissue Engineering Center, Baltimore, MD, 3Albany Medical Center, Albany, NY, 4Johns Hopkins University, Baltimore, MD

8:46 am  84. Single Locally Implanted Tacrolimus Disk Promotes Long-term Vascularized Composite Allograft Survival via Site Specific Immunosuppression and without Systemic Side Effects
Firuz G. Feturi, PhD, Jignesh Unadkat, MD, Yong Wang, MD, Chiaki Komatsu, MD, Wensheng Zhang, MD, Jingjing Li, MD, Damian Grybowski, MD, Zhaoxiang Zhang, MD, Kia Washington, MD, Mario Solari, MD, Raman Venkataramanan, PhD, Alexander Spiess, MD
University of Pittsburgh, Pittsburgh, PA

Mimi R. Borrelli, MD, Alexandra L. Moore, MD, Shamik Maschara, Bryan A. Duoto, Heather E. desJardens-Park, Ronak A. Patel, Jan Sokol, Derrick C. Wan, Gerlinde Wernig, Michael T. Longaker
Stanford, Palo Alto, CA.

9:04 am  86. Altered Iron-Mediator Expression Identifies Chemotherapeutic Effects of Deferoxamine on Head and Neck Squamous Cell Carcinoma
Alexis Donneys, MD, MS, Chitra Subramanian, PhD, Jeremy Lynn, BS, Kevin Urlaub, BS, Halil Safak Uygur, MD, Keshav Lalchandani, BS, Kevin Kovatch, MD, Alexandra Luby, BS, Lauren Buchman, Noah S. Nelson, BS, Matthew Knudson, Mark S. Cohen, MD, Steven R. Buchman, MD
University of Michigan, Ann Arbor, MI
87. Lower Extremity Outcomes after Medial Femoral Trochlea Free Flap Harvest
Imran S. Yousaf, DO, Mitchell A. Pet, DO, Patrick E. Assi, MD, Aviram M. Giladi, MD, MS, James P. Higgins, MD
The Curtis National Hand Center, Baltimore, MD

88. Local Delivery of FK506 to a Mouse Sciatic Nerve Injury Increases Nerve Regeneration Outcomes
Brett Davis, MS, David Hilgart, Sierra Erickson, BS, Pratima Labroo, PhD, Joshua Burton, MS, Himanshu Sant, PhD, Jill Shea, Bruce Gale, PhD, Jay Agarwal, MD
University of Utah, Salt Lake City, UT

89. Germ Layer Restricted Wnt and Hedgehog Signaling Regulate Digit Tip Regeneration
Zeshaan N. Maan1, Yuval Rinkevich, PhD2, Michael Januszyk, MD, PhD1, Irving Weissman, MD1, Geoffrey C. Gurtner, FACS1
1Stanford University School of Medicine, Stanford, CA, 2Helmholtz Zentrum München, Munich, Germany

90. L-Type Voltage Gated Calcium Channels and Sodium Phosphate Symporters are Required for Osteogenic Differentiation Induced by Nanoparticulate Mineralized Collagen Materials
David Foulad1, Xiaoyan Ren1, Qi Zhou1, Marley Dewey2, Brendan Harley2, Justine C. Lee1
1UCLA Division of Plastic and Reconstructive Surgery, Los Angeles, CA, 2University of Illinois Urbana Champaign, Urbana, IL

91. High-Resolution Gene Expression Analysis of RNA Splicing Regulators Esrp1 and Esrp2 In Palate Development
Shannon H. Carroll, MS-PhD1,2, Claudio Macias-Trevino, MD-PhD Candidate1, Nora Alhazmi, BDS-MS1, Edward Li, MD-PhD Candidate1, Eric Liao, MD-PhD1,2
1Massachusetts General Hospital, Boston, MA, 2Shriners Hospital for Children, Boston, MA

92. Investigating The Role Of R-spondin3 In Craniofacial Morphogenesis And Orofacial Cleft Pathogenesis
Nora Alhazmi, BDS, MS1, Claudio Macias Trevino, BS2, Shannon H. Carroll, PhD3, Shawn Hallet, BA3, Edward Li, BA2, Francesca Gori, PhD1, Eric Chien-Wei Liao, MD, PhD3,4
1Harvard School of Dental Medicine, Boston, MA, 2Harvard Medical School, Boston, MA, 3Center for Regenerative Medicine, Massachusetts General Hospital, Boston, MA, 4Division of Plastic and Reconstructive Surgery, Massachusetts General Hospital, Boston, MA

8:30 am-10:00 am CONCURRENT SESSION 6: CLINICAL

93. Does the Presence of a Pre-existing Open Wound Increase Complication Risk for Implant Procedures?
James Nie, BS, Sina Torabi, Henry Hsia, MD
Yale School of Medicine, New Haven, CT

94. SCAR-Q: International Results and Why Individuals Report the Need for Scar Revision
Natalia Ziolkowski, MD, PhD1, Andrea Pusic, MD, MHS, FACS, FRCS2, Joel S. Fish, MD, MSc, FRCS(C)1, Lily R. Mundy, MD3, Richard Wong She, MB ChB, FRACS4, Christopher R. Forrest, MD, MSc, FRCS(C), FACS1, Scott Hollenbeck, MD3, Cristian Arriagada, MD5, Manuel Calcagno, MD5, David Greenhalgh, MD6, Anne Klassen, DPhil7
1University of Toronto, Toronto, ON, Canada, 2Harvard Brigham and Women’s, Boston, MA, 3Duke University School of Medicine, Durham, NC, 4Auckland Regional Plastic Reconstructive And Hand Surgery, Manukau, New Zealand, 5Hospital de Urgencia Asistencia Publica, Santiago, Chile, 6UC Davis Health, Sacramento, CA, 7McMaster University, Hamilton, ON, Canada
95. The Use of Ultrasound Guidance for the treatment of Raynaud’s Disease of the Hand with Botulinum Toxin
David C. Lobb, MBChB, Jennifer L. Pierce, MD, Michael Perry, MD, Thomas Gamper, MD, Brent DeGeorge, MD PhD 
*University of Virginia, Charlottesville, VA*

96. Analysis of Post-Operative Reoperation Timing and Risk Factors For Post-Operative Free Flap Compromise in Head and Neck Reconstruction: A National Retrospective Cohort
Lakshmi Nair, BS1, Anmol Chattha, MD1, Deepa Bhat, MD2, Pablo A. Baltodano, MD2, Austin D. Chen3, Ashar Ata, MD2, Richard L. Agag, MD4, Joseph Ricci, MD2, Ashit Patel, MBChB2  
1Albany Medical College, Albany, NY, 2Albany Medical Center, Albany, NY, 3Beth Israel Deaconess Medical Center, Boston, MA, 4Robert Wood Johnson University Hospital, New Brunswick, NJ

97. Risk of Venous Thromboembolism with Cross-Sex Hormone Therapy: a Systematic Review of the Literature and Pooled Analysis
Vasanth S. Kotamarti, MD, Megan Gray, MD, Paschalia Mountziaris, MD, PhD, Joseph A. Ricci, MD, Ashit Patel, MBChB, FACS  
*Albany Medical Center, Albany, NY*

98. Hospital Volume and Insurance Status Impact Complication Rates After Head & Neck Cancer Reconstruction
Leila Musavi, BA, Darya Fadavi, BS, Waverley He, BS, Justin Sacks, MD MBA, Oluseyi Aliu, MD  
*Johns Hopkins School of Medicine, Baltimore, MD*

Yunfeng Xue, MD1, Pope Rodnoi, BS1, Ping Song, MD1, Jennifer Kuo, MD2, Christoph Troppmann, MD1, Chad Bailey, MD1, Michael S. Wong, MD1  
1University of California, Davis Medical Center, Sacramento, CA, 2NewYork Presbyterian/Columbia, New York, NY

100. Breast Reconstruction: Do Outcomes Differ Between Academic and Community Practices?
Kyle Gabrick, MD, Fouad Chouiari, BS, Michael Alperovich, MD, Elbert Mets, BS, Tomer Avraham, MD  
*Yale University, New Haven, CT*

101. Impact Of Insurance Payer On Type Of Breast Reconstruction Performed
Kyle Gabrick, MD, Fouad Chouiari, BS, Ebert Mets, BS, Tomer Avraham, MD, Michael Alperovich, MD  
*Yale University, New Haven, CT*

102. Long-Term Orthognathic Considerations in the Pierre Robin Sequence Patient
Miles J. Pfaff, MD, M.H.S.1, Christos Haveles1, Claire Liu1, Emily Berthiaume1, Julia R. Ayeroff1, Omotayo Arowojolu, MD2, James P. Bradley, MD3, Libby F. Wilson, MD4, Justine C. Lee, MD, PhD1  
1UCLA Medical Center, Los Angeles, CA, 2New York University, New York, NY, 3Division of Plastic and Reconstructive Surgery, Northwell Health Hofstra School of Medicine, NY, 4Orthopaedic Institute for Children, Cleft Palate Program, Los Angeles, CA

103. Superficial Fascial System Strength Can Be Quantified with Portable Ultrasound and Mean Gray Value Calculation
Michelle E. McCarthy, MS1, Richard Guidry, BS2, David Straughan, MD3, Jason Schuster, MSBME4, Michael Dancisak, PhD4, Abigail Chaffin, MD3, Hugo St-Hilaire, MD5, John Lindsey,
10:00 am-10:30 am
COFFEE WITH EXHIBITORS

10:30 am-12:00 pm
CONCURRENT SESSION 7: BASIC/TRANSLATIONAL SCIENCE

10:30 am 104. Identification of the Role of Sensory Nerve TrkA Signaling on Progenitor Cell Fate after Extremity Trauma
Charles Hwang, BS1, David M. Stepien, MD, PhD1, Carrie Kubiak, MD1, Carolyn A. Meyers, BS2, Seungjong Lee, PhD2, Michael Sorkin, MD1, Chase A. Pagani, BA1, Talis Rehse, BS1, Noelle D. Visser, MS1, Mohamed A. Garada1, Zaid N. Khatib, BS1, Prasanth Kotha1, Jeffrey Lisiecki, MD1, Kaetlin Vasquez, MS1, Paul S. Cederna, MD1, Stephen W.P. Kemp, PhD1, Thomas L. Clemens, PhD2, Aaron W. James, MD, PhD2, Benjamin Levi, MD
1University of Michigan, Ann Arbor, MI, 2Johns Hopkins University, Baltimore, MD

10:38 am 105. ALX1 Regulates PAX3 to Enable Cranial Neural Crest Migration During Craniofacial Development
Yiyuan Hu, B.A.1, Jonathan Pini, PhD1, Janina Kueper, MD1, Brahmadev Agnihotri1, Richard Maas, MD, PhD2, Eric C. Liao, PhD1
1Massachusetts General Hospital, Boston, MA, 2Brigham and Women's Hospital, Boston, MA

10:46 am 106. Near-Infrared Tissue Oximetry Predicts Flap Necrosis in a Rat Dorsal Skin Flap
Nima Khavanin, MD, Halley Darrach, BA, Pathik Aravind, Franca Kraenzlin, MD, Tinglu Han, MD, Kevin Kilifo, PharmD, Hamda Almaazmi, MD, Bashir Jafri, Justin M. Sacks, MD
Johns Hopkins University School of Medicine, Baltimore, MD

10:54 am 107. IGF-1 Nanoparticles Improve Functional Recovery After Nerve Repair
Philip Hanwright, MD, Chenhu Qiu, BS, Jennifer Rath, BS, Nicholas von Guionneau, MBBS, Karim Sarhane, MD, Thomas Harris, Harsha Malapati, BS, W. P. Andrew Lee, Ahmet Hoke, MD, PhD, Hai-Quan Mao, PhD, Sami Tuffaha, MD
Johns Hopkins, Baltimore, MD

11:04 am 108. 9-cis-Retinoic acid Reduces Postsurgical Lymphedema Through Rxra Signaling Pathway
Cynthia Sung, BS, Wan Jiao, MD, PhD, Sun-young Park, MS, Michael Cooper, BS, Eun-son Jung, MS, Young-kwon Hong, PhD, Alex Wong, MD
Keck School of Medicine of USC, Los Angeles, CA

11:12 am 109. Nrf2 Dysfunction is the Basal Epidermis Coincides with Delayed Healing in Type II Diabetes
Joseph Kuhn, M.D., Joshua A. David, B.S., Alvaro Villarreal-Ponce, PhD, Darren Sultan, B.S., Salma A. Abdou, BA, Jennifer Kwong, BA, Pial S. Rabbani, PhD, Daniel Ceradini, MD
NYU Langone, New York, NY, USA

11:20 am 110. Association Between Repeat Alveolar Bone Grafting and Anxiety in Teenagers with Cleft Lip and Palate
Hi'ilani M. K. Potemra, BS1, Fransia S. De Leon, BA1, Claire Liu, BS1, Miles J. Pfaff, MD1, James P. Bradley, MD2, Libby F. Wilson, MD3, Justine C. Lee, MD, PhD1
1University of California Los Angeles David Geffen School of Medicine, Los Angeles, CA, 2Division of Plastic and Reconstructive Surgery, Northwell Health Hofstra School of Medicine,
11:28 am 111. Thoracic Wall Reconstruction Following Sternal Osteomyelitis: An Algorithm To Simplify The Choice For An Ideal Recipient Vessel
Volker J. Schmidt, MD, Florian Falkner, MD, Christoph Hirche, MD, Dominic Henn, MD, Amir K. Bigdeli, MD, Emre Gazyakan, MD, Ulrich Kneser, MD
BG Trauma Center Ludwigshafen, University of Heidelberg, Ludwigshafen, Germany

11:36 am 112. Vegf-receptor Inhibitor Impedes Macrophage Function At The End Target Muscle After Nerve Injury
Johnny Chuieng - Yi Lu, MD1, Albina Jablonka-Shariff, PhD2, Katherine Santosa, MD, M.S.2,3, Alison Snyder-Warwick, MD2
1Chang Gung Memorial Hospital, Linkou, Taiwan, 2Washington University at St.Louis, St. Louis, MO, 3University of Michigan, Ann Arbor, MI

11:44 am 113. Type-1 Interferons Impair The Immunoregulatory Activity Of IL-10: Understanding The Mechanisms Of Abrogation Of Transplant Tolerance
Marcos Iglesias, DVM, PhD, Maria Chicco, MD, Darrel Bibicheff, BS, Gerald Brandacher, MD, Giorgio Raimondi, PhD
Johns Hopkins University, Baltimore, MD

11:52 am 114. Targeting Wnt Signaling to Reduce Capsular Fibrosis
Britta A. Kuehlmann, MD, PhD, Clark Andrew Bonham, Geoffrey C. Gurtner, MD, FACS
Stanford University School of Medicine, Palo Alto, CA

10:30 am-12:00 pm CONCURRENT SESSION 7: CLINICAL

10:30 am 115. Surgical Lymphedema Treatment Increases Quality of Life
Halley Darrach, BS, George Kokosis, MD, Hannah M. Carl, BS, Kelly Bridgham, BS, Michelle Seu, BS, Gurjot Walia, BS, Justin M. Sacks, MD, MBA
Johns Hopkins School of Medicine, Baltimore, MD

10:38 am 116. Hearing Hypernasality: A Novel Assessment of Cleft Speech Using Online Crowdsourcing
Anne M. Sesceleifer, BS, Janna Webber, CCC-SLP, Caitlin A. Francoisse, MD, Jeffrey D. Rector, PhD, Alexander Y. Lin, MD, FACS
Saint Louis University School of Medicine, St. Louis, MO

10:46 am 117. Long Term Patient Reported Outcomes Following Post-mastectomy Breast Reconstruction: An 8-year Examination Of 3,268 Patients
Jonas Nelson, MD1, Thais Polanco, MD1, Meghana Shamsunder, MPH1, Aadit Patel, MD1, Nikhil Sobti, MS1, Colleen McCarthy, MD1, Evan Matros, MD MMSc MPH1, Joseph Dayan, MD1, Joseph Disa, MD1, Peter Cordeiro, MD1, Andrea Pusic, MD2, Babak Mehrara, MD1, Robert Allen, Jr., MD1
1Memorial Sloan Kettering Cancer Center, New York, NY, 2Brigham and Women’s Hospital, Boston, MA

10:54 am 118. The Impact of Post-Operative Prophylactic Antibiotics in Immediate 2-Stage Prepectoral Breast Reconstruction
Michael Holland, Rachel Lentz, MD, Clara Gomez-Sanchez, MD, Jami Rothman, MD, Jasmine Wong, MD, Rita Mukhtar, MD, Hani Sbitany, MD
University of California, San Francisco, San Francisco, CA

11:04 am 119. The Impact of Radiotherpay on Long-Term Satisfaction and Health Related Quality of
Life in Postmastectomy Breast Reconstruction - An analysis of 3,265 Patients
Jonas Nelson, MD1, Thais Polanco, MD1, Meghana Shamsunder, MPH1, Aadit Patel, MD1, Nikhil Sobti, MS1, Colleen McCarthy, MD1, Evan Matros, MD MMSc MPH1, Joseph Dayan, MD1, Joseph Disa, MD1, Peter Cordeiro, MD1, Andrea Pusic, MD2, Babak Mehrara, MD1, Robert Allen, Jr., MD1
1Memorial Sloan Kettering Cancer Center, New York, NY, 2Brigham and Women’s Hospital, Boston, MA

11:12 am 120. Smooth Versus Textured Tissue Expanders in Breast Reconstruction Reduced Early Post-operative Complications
Ruth Tevlin, MB BAO BCh, MRCS, MD, Mimi R. Borrelli, MBBS, Amee Azad, BA, Victoria Posternak, RN, Derrick C. Wan, MD, Dung Nguyen, Pharm.D, MD, Rahim Nazerali, MD
Stanford University, Stanford, CA

11:20 am 121. Socioeconomic Factors Affect The Treatment Of Mandibular Fractures (307)
Thomas Q. Xu, MD, Taylor J. Jaraczewski, MS, Aaron L. Wiegmann, MD, Ethan M. Ritz, MS, Todd Beck, MS, Carlos A. Q. Santos, MD, MPH, Christina Tragos, MD, Amir H. Dorafshar, MBChB
Rush University Medical Center, Chicago, IL

11:28 am 122. Depression and Anti-depressant Therapy Effects on Quality of Life and Patient Satisfaction Outcome Measures in Breast Cancer Using the BREAST-Q
Kevin M. Klifto, PharmD, Pathik Aravind, Michele A. Manahan, MD, Kristen P. Broderick, MD, Damon S. Cooney, MD, PhD, Carisa M. Cooney, MPH, Gedge D. Rosson, MD
The Johns Hopkins University, Baltimore, MD

11:36 am 123. How Patient Decision Making Characteristics Affect Satisfaction in Facial Plastic Surgery: A Prospective Pilot Study
Jeremie D. Oliver, MD, MS Candidate1, Deanna C. Menapace, MD1, Jeffrey P. Staab, MD, MS1, Oren Freidman, MD2, Chelsey Recker, PA-C1, Grant S. Hamilton, III, MD1
1Mayo Clinic, Rochester, MN, 2University of Pennsylvania, Philadelphia, PA

11:44 am 124. The Effect of Intraoperative Temperature on Microvascular Thrombosis
John T. Smetona, MD1, Kyle Gabrick, MD1, Jacob Dinis, BS2, Fouad Chouiari, BS1, Michael Alperovich, MD1, Marc Walker, MD1, Henry Hsia, MD1, J Grant Thomson, MD1
1Yale New Haven Hospital, New Haven, CT, 2Quinnipiac University Frank H Netter School of Medicine, North Haven, CT

11:52 am 125. The Effect of Timing of Perioperative Anticoagulation on the Outcome of Microsurgical Breast Reconstruction: A Retrospective Review and Comparison of Two Protocols
Paschalia M. Mountziaris, MD/PhD1, Bahia Wahba, BS1, Brittany Nguyen, MD1, Joseph A. Ricci, MD1, Kristen M. Rezak, MD2, Ashit Patel, MBChB1
1Albany Medical Center, Albany, NY, 2Duke University Medical Center, Durham, NC

12:00 pm-2:00 pm LUNCH POSTER SESSION

1:00 pm-2:30 pm CONCURRENT SESSION 8: BASIC/TRANSLATIONAL SCIENCE

1:00 pm 126. Dynamic Nrf2 Expression In CutaneousWounds Regulates Skin Regeneration
Alvaro P. Villarreal-Ponce, PhD1, Joshua A. David, BS2, Melat Worku-Tiruneh, BS2, Salma A. Abdou, BA1, Darren L. Sultan1, Jennifer Kwong, BA1, Joseph Kuhn, MD1, Piu S. Rabbani, PhD1, Daniel J. Gerasini, MD1
1NYU Langone Health, New York, NY, 2Rutgers Robert Wood Johnson School of Medicine, New
1:08 pm 127. Fracture Patterns Predictive Of Traumatic Optic Neuropathy
Adekunle Elegbede, MD, PhD1, Camille Bulte, BS2, Macey Yates, BS2, Sashank Reddy, MD, PhD1, Ryan Dunlow, BS2, LediBabari Ngaage, BS3, Yvonnie Rasko, MD3, Fan Liang, MD4, Arthur Nam4, Paul Manson, MD1, Michael Grant4
1Johns Hopkins Hospital, Baltimore, MD, 2University of Maryland School of Medicine, Baltimore, MD, 3University of Maryland Medical Center, Baltimore, MD, 4R Adams Cowley Shock Trauma Center, Baltimore, MD

1:16 pm 128. Potential Virulence of MRSA and Enterococcus in Patients Undergoing Free Tissue Transfer for Chronic, Non-healing Lower Extremity Wounds
Vikas Kotha, BS, Elliot Walters, MD, Elizabeth Zolper, BS, Emilie Fortman, BS, Christopher Attinger, MD, Karen Evans, MD
Georgetown University, Washington, DC

1:24 pm 129. Molecular and Genetic Characterization of Functional Schwann-Cell Like Cells (iMDSCs) Transformed from Muscle Derived Stem Cells
Pooja S. Yesantherao, MS, Helen Xun, BS, Leila Musavi, BS, Howard Wang, MD, Amy Quan, MD, Markus Tammia, PhD, Ayse Cetinkaya-Fisgin, PhD, Ahmet Hoke, MD, PhD, Gerald Brandacher, MD, W P Andrew Lee, MD, Joseph Lopez, MD
Johns Hopkins Medicine, Baltimore, MD

1:32 pm 130. Emotional Evaluation of Outcomes in Facial Reanimation Surgery Using Artificial Intelligence
Thanapoom Boonipat, MD1, Malke Assad, MD1, Jason Lin, BS1, Mitchell Stotland, MD2, Samir Mardini, MD1
1Mayo Clinic, Rochester, MN, 2Sidra Medical, Doha, Qatar

1:40 pm 131. Topical Focal Adhesion Kinase Inhibitor Promotes Skin Regeneration and Scar Prevention in a Preclinical Porcine Model
Sun Hyung Kwon, PhD, Britta Kuehlmann, MD, Teruyuki Dohi, MD, Artem A. Trotsyuk, BS, Michael S. Hu, MD, Geoffrey C. Gurtner, MD
Stanford University, Stanford, CA

1:48 pm 132. Does Migraine Surgery Affect Medication Use?
Ricardo Ortiz, BSc, Lisa Gfrerer, MD PhD, Marek A. Hansdorfer, MD, Kassandra Nealon, BSc, William G. Austen, Jr., MD
Massachusetts General Hospital, Boston, MA

1:56 pm 133. Implant Fibrosis is Caused by a Unique Subgroup of Collagen Producing Macrophages
Britta A. Kuehlmann, MD, PhD1, Clark Andrew Bonham1, Lukas Prantl, MD, PhD2, Geoffrey C. Gurtner, MD, FACS1
1Stanford University School of Medicine, Palo Alto, CA, 2University Hospital Regensburg and Caritas Hospital St. Josef, Regensburg, Germany

2:04 pm 134. Flow-Through Omental Flap for Vascularized Lymph Node Transplant in Lymphatic Reconstruction
Miguel G. Bravo, MD, Anna R. Johnson, MPH, John F. Critchlow, MD, Bernard T. Lee, MD MBA MPH, Dhruv Singhal, MD
Beth Israel Deaconess Medical Center, Boston, MA

2:12 pm 135. Anti α-Gal Nanoparticles Ameliorate Radiation-Induced Wound Healing Impairment
2:20 pm  136. Denervation Induced Degradation of Motor Endplates can be Delayed Using Local Supplementation of Agrin at the Time of Injury
Winnie Palispis, MD1, Henry Hoang, BS1, Jennifer Uong, BS1, Justin P. Chan, BA1, James Clune, MD2, Ranjan Gupta, MD1
1University of California, Irvine, Irvine, CA, 2Yale University, New Haven, CT

1:00 pm-2:30 pm  CONCURRENT SESSION 8: CLINICAL

1:00 pm  137. Clinical Outcomes in Prepectoral Stage 1 Breast Reconstruction
Shanique Martin1, Elizabeth Turner2, Brian Thornton2, Rahim Nazerali3
1Stanford University, Palo Alto, CA, 2ThorntonMD, Louisville, KY, 3Division of Plastic and Reconstructive Surgery, Stanford Hospital and Clinics, Palo Alto, CA

1:08 pm  138. Breast Skin Reinnervation following Mastectomy
Amelia Van Handel, Thomas Tung
Washington University, Saint Louis, MO

1:16 pm  139. Prognostic Factors In Determining The Recurrence Of Desmoplastic Melanoma
Sarah Persing, MD, Raysa Cabrejo, BA, Anjela Galan, MD, Stephan Ariyan, MD, James Clune, MD
Yale School of Medicine, New Haven, CT

1:24 pm  140. Discrepancies In Opioid Prescription And Utilization Following Breast Reduction
Nick Wingate, MD, Mark Balenciuk, MD, Alap Patel, BA, Jose Guilherme Christiano, MD
University of Rochester Medical Center, Rochester, NY

1:32 pm  141. Outcomes Associated with Free and Local Flap Reconstruction for Lower Extremity Open Fractures: 2010 - 2016 Nationwide Readmissions Database
Niv Milbar, BA1, Kelly Bridgham, BS1, Said C. Azoury, MD2, Joseph K. Canner, MHS1, Elliott R. Haut, MD, PhD, FACS1, Justin M. Sacks, MD, MBA, FACS1
1The Johns Hopkins University School of Medicine, Baltimore, MD, 2The University of Pennsylvania, Philadelphia, PA

1:40 pm  142. Prevalence of Psychosocial and Body Image Distress Among Transmen Seeking Gender Mastectomies
Michael J. Kirsch, BS1, Megan Lane, MD1, Emily C. Sluiter1, Graham C. Ives, MD2, Jennifer B. Hamill, MPH1, Juan Orozco1, Kaitlyn Hines1, Jasmine Penny1, Robert H. Gilman, MD1, William M. Kuzon, MD1, Paul S. Cederna, MD1, Edwin G. Wilkins, MD1
1University of Michigan, Ann Arbor, MI, 2University of Southern California, Los Angeles, CA

1:48 pm  143. Sentinel Lymph Node Biopsy in Perineal Melanoma: A Surveillance Epidemiology and End Results Program (S.E.E.R.) Study
Ronak A. Patel, BS1, Priyanka D. Patel, BS2, Mimi R. Borrelli, MBBS MSc1, Derrick C. Wan, MD1
1Stanford University, Stanford, CA, 2University of Illinois at Chicago, Chicago, IL

1:56 pm  144. Intraoperative Liposomal Bupivacaine for Donor Site Iliac Crest Bone Harvest in Alveolar Bone Grafting
Ronak A. Patel, BS, Eric M. Jablonka, MD, Mimi R. Borrelli, MBBS MSc, Rohit K. Khosla, MD, Hermann Peter Lorenz, MD, Arash Momeni, MD, Derrick C. Wan, MD
145. Postsurgical Complications Associated with Tissue-Expander Placement into the Previously Irradiated Breast
Shanique Martin1, Lawrence Cai2, Adeyemi Ogunleye2, Rahim Nazerali2, Gordon Lee2, Gordon Lee2
1Stanford University School of Medicine, Palo Alto, CA, 2Division of Plastic and Reconstructive Surgery, Stanford Hospital and Clinics, Palo Alto, CA

146. Preoperative CTA Efficiently Facilitates Perforator Decision-Making in DIEP Flap Breast Reconstruction: a Blinded Prospective Study
Danielle O. Dumestre, MD FRCSC, Sumeet Teotia, MD, Avinash Jayaraman, BA, Austin Hembt, MD, Nicholas Haddock, MD
UT Southwestern, Dallas, TX

147. TBD

COFFEE WITH EXHIBITORS

QUICK SHOTS

QS1. Can You Trust What You Watch? An Assessment of the Quality of Information About Aesthetic Surgery on YouTube
Megan Gray1, Amanda Gemmiti2, Ashar Ata1, Brandon Jun1, Phillip Johnson1, Joseph Ricci1, Ashit Patel1
1Albany Medical Center, Albany, NY, 2SUNY Upstate Medical, Syracuse, NY

QS2. Influence of Race, Income, Insurance and Education in Rate of Breast Reconstruction: an NCDB 2004-15 Analysis
David J. Restrepo, MD1, Daniel Boczar, MD1, Andrea Sisti, MD1, Maria T. Huayllani, MD1, Jeremie D. Oliver, MD2, Emmanuel Gabriel, MD, PhD1, Sarah McLaughlin, MD1, Brian Rinker, MD1, Antonio J. Forte, Md, PhD1
1Mayo Clinic, Florida, Jacksonville, FL, 2Mayo Clinic School of Medicine, Rochester, MN

QS3. The Use Of Non-invasive Devices To Objectively Measure Changes In Human Facial Skin After Facial Rejuvenation Treatment
Karen B. Lu, BA, Mikaela Kislevitz, BSN, RN, John Hoopman, CMLSO, Yucel Akgul, MD, PhD, Fritz Barton, Jr., MD, Jeffrey M. Kenkel, MD
University of Texas Southwestern Medical Center, Dallas, TX

QS4. Outcomes in Breast Reconstruction: Does Race Play a Role? An Analysis of 51,362 Patients from the ACS-NSQIP
Louise L. Blankenstein, MD, Sebastian Sparenberg, MD, Dustin T. Crystal, BS, Ahmed MS Ibrahim, MD, PhD, Bernard T. Lee, MD, MBA, MPH, Samuel J. Lin, MD, MBA, FACS
Beth Israel Deaconess Medical Center, Boston, MA

QS5. Adding Depth to Cephalometric Analysis: Comparing 2D and 3D Angular Cephalometric Measurements
Diana S. Jodeh, MD1, Lauren V. Kuykendall, MD2, Jonathan M. Ford, PhD2, Stephen Ruso, DDS,MS1, Summer J. Decker, PhD2, S. Alex Rottgers, MD1
1Johns Hopkins All Children's Hospital, St.Petersburg, FL, 2University of South Florida, Morsani College of Medicine, Tampa, FL

QS6. Nationwide Patterns of Injury and Management of Pediatric Facial Trauma
from 2007 to 2015
Selim G. Gebran, MD1, Philip J. Wasicek, MD2, Adekunle Elegbede, MD, PhD3, Ledibabari M. Ngaage, MB BChir4, Yuanyuan Liang, PhD5, Marcus Ottochian, MD, PhD6, Jonathan J. Morrison, PhD, MBBS5, Michael P. Grant, MD, PhD1, Yvonne M. Rasko, MD4, Fan Liang, MD1, Arthur J. Nam, MD1
1Division of Plastic and Reconstructive Surgery, R Adams Cowley Shock Trauma Center, Baltimore, MD, 2Department of General Surgery, University of Maryland School of Medicine, Baltimore, MD, 3Department of Plastic and Reconstructive Surgery, The Johns Hopkins University, Baltimore, MD, 4Division of Plastic and Reconstructive Surgery, University of Maryland School of Medicine, Baltimore, MD, 5Department of Epidemiology and Public Health, University of Maryland School of Medicine, Baltimore, MD, 6Program in Trauma, R Adams Cowley Shock Trauma Center, University of Maryland School of Medicine, Baltimore, MD

3:18 pm  QS7. Minimally Processed Adipose-Derived Stem Cells Increase Union Rates, Vascularity, and Cellularity During Fracture Repair of the Irradiated Murine Mandible
Kevin M. Urlaub, BS, Kavitha Ranganathan, MD, Jeremy V. Lynn, BS, Alexandra O. Luby, BS, Noah S. Nelson, MPH, Alexis Donneys, MD, MS, Steven R. Buchman, MD
University of Michigan, Ann Arbor, MI

3:21 pm  QS8. Separating Craniopagus Twins: A 4 Stage Approach Using 3D Imaging Technology
Jillian E. Schreiber, MD1, Hayeem Rudy, BS2, James T. Goodrich, MD, PhD1, Oren M. Tepper, MD1
1Montefiore Medical Center, Albert Einstein College of Medicine, New York, NY, 2Albert Einstein College of Medicine, New York, NY

3:24 pm  QS9. Convolutional Neural Network Models for Automatic Pre-Operative Severity Assessment in Unilateral Cleft Lip
Meghan McCullough, MD, MS1, Steven Ly, PhD1, Alex Campbell, MD, MS2, Caroline Yao, MD, MS3, Mark Urata, MD, DDS1, Stefan Scherer, Phd1, William P. Magee, III, MD, DDS1
1University of Southern California, Los Angeles, CA, 2Operation Smile, Virginia Beach, VA, 3Harvard University, Cambridge, MA

3:27 pm  QS10. Cleft Surgery Knowledge and Skills Acquisition by Plastic Surgery Residents: A Simulation-Based Prospective Randomized Blinded Trial
Rami S. Kantar, MD, Allyson R. Alfonso, BS, BA, Elie P. Ramly, MD, Marina Gonchar, DMD, MS, Samantha G. Malia, BA, Oriana Cohen, MD, J. Rodrigo Diaz-Siso, MD, Bradley S. Eihsemann, MD, Pierre B. Saadeh, MD, Roberto L. Flores, MD
Hansjörg Wyss Department of Plastic Surgery, New York, NY

3:30 pm  QS11. Fat Grafting Reverses Radiation-induced Skin Fibrosis And Groin Contracture
Mimi R. Borrelli, MD, Ronak A. Patel, Jan Sokol, Dre Irizarry, Dung Nguyen, MD, Arash Momeni, MD, Michael T. Longaker, MD, MA, Derrick C. Wan
Stanford, Palo Alto, CA

3:33 pm  QS12. Deferoxamine Diminishes Breast Cancer Proliferation and Enhances Irradiated Breast Reconstruction: An Antitumorigenic Mechanism Defined
Jeremy V. Lynn, BS, Kevin M. Urlaub, BS, Kavitha Ranganathan, MD, Alexis Donneys, MD, MS, Noah S. Nelson, MPH, Alexandra O. Luby, MS, Chitra Subramanian, PhD, MBA, Mark S. Cohen, MD, FACS, Steven R. Buchman, MD
3:36 pm  QS13. Safety and Financial Outcomes of Breast Reduction Mammaplasty as an Inpatient or Outpatient Procedure: A Propensity-Score Matched Analysis of 18,780 Cases
Nicholas A. Calotta, MD1, David Merola, PharmD2, Devin O'Brien-Coon, MD, MSE1  
1Johns Hopkins University School of Medicine, Baltimore, MD, 2Harvard T.H. Chan School of Public Health, Boston, MA

Destie Provenzano, MS1, Akash Chandawarkar, MD2, Edward Caterson, MD PhD3  
1Georgetown University, District of Columbia, DC, 2Johns Hopkins University, Baltimore, MD, 3Brigham and Women’s Hospital, Boston, MA

3:42 pm  QS15. Systematic Review and Guidelines for Perioperative Management of Pediatric Free Tissue Transfer Patients
Paschalia M. Mountziaris, MD/PhD1, Craig T. Fournier, MD1, Joseph A. Ricci, MD1, Courtney A. Carpenter, MD1, Kristen M. Rezak, MD2, Ashit Patel, MBChB1  
1Albany Medical Center, Albany, NY, 2Duke University Medical Center, Durham, NC

3:45 pm  QS16. Comparison of Outcomes Between Muscle and Fasciocutaneous Free Flaps in Foot and Ankle Reconstruction
Z-Hye Lee, MD, Lavinia Anzai, MD, John T. Stranix, MD, Vishal Thanik, MD, Jamie P. Levine, MD, Pierre B. Saadeh  
NYU Langone Medical Center, New York, NY

3:48 pm  QS17. Analyzing Tropism Between Adipose Derived Stem Cells and Breast Cancer Cells of Different Malignancies
Matthias A. Sauter1, Elizabeth A. Brett, MSc1, Christina M. Müller, BSc2, Hans-Günther Machens, Professor1, Dominik Duscher, Doctor1  
1Technical University Munich, Munich, Germany, 2Ludwig Maximilian University of Munich, Munich, Germany

3:51 pm  QS18. Neural Signal Transduction with the Muscle Cuff Regenerative Peripheral Nerve Interface
Carrie A. Kubiak, MD, Daniel C. Ursu, PhD, Jana D. Moon, B.S., Theodore A. Kung, MD, Paul S. Cederna, MD, Stephen W. P. Kemp, PhD  
University of Michigan, Ann Arbor, MI

Karim A. Sarhane, MD, MSc1, Heather Shappell, PhD1, Benjamin Slavin, BS1, Nicholas von Quinneau, MD1, Philip Hanwright, MD1, Gregory H. Borschel, MD2, Sami H. Tuffaha, MD1  
1Johns Hopkins University, Baltimore, MD, 2University of Toronto, The Hospital for Sick Children, Toronto, ON, Canada

3:57 pm  QS20. HIF-1α Deletion Modulates the Ratio of Treg/Th17 cells in CD4 T Cells and Improves Vascularized Composite Allotransplantation Survival under Costimulatory Blockade
Cheng-Hung Lin1, Madonna R Anggelia1,2, Huang-Yu Yang3, Yi-Ching Ko3, Nicholas Do1, Gerald Brandacher4, WP Andrew Lee4  
1Center for Vascularized Composite Allotransplantation, Department of Plastic and Reconstructive Surgery, Chang Gung Memorial Hospital, Chang Gung Medical College
4:00 pm  QS21. Leadership In Plastic Surgery  
Carolyn P. Murphy, BA, Alexander G. Stavros, BA, Francesco M. Egro, MD, MSc, MRSC, Brandon T. Smith, MS, Vu Nguyen, MD  
University of Pittsburgh, Pittsburgh, PA

4:03 pm  QS22. A Novel And Unexpected Role Of Donor T Cells In The Efficacy Of Tolerogenic Therapies For Transplant Rejection  
Marcos Iglesias Lozano, DVM, PhD, Darrel Bibicheff, BS, Maria Chicco, MD, Gerald Brandacher, MD, Giorgio Raimondi, PhD  
Johns Hopkins University, Baltimore, MD

4:06 pm  QS23. Persistent Disparities in Breast Cancer Surgical Outcomes among Hispanic and African American Patients  
Elbert J. Mets, BA, Fouad K. Chouairi, BS, Kyle S. Gabrick, MD, Tomer Avraham, MD, Michael Alperovich, MD, MSc  
Yale School of Medicine, New Haven, CT

4:09 pm  QS24. Preoperative Opioids and Panniculectomy Outcomes  
Michael A. Cheah, MD1,2, Robert Lesko, BS1, Samuel Sarmiento, MD, MBA, MPH1, Carisa M. Cooney, MPH1, Damon S. Cooney, MD, PHD1  
1Johns Hopkins University School of Medicine, Baltimore, MD, 2INOVA Fairfax Medical Campus, Falls Church, VA

4:12 pm  QS25. The Impact of Ptosis, Breast Size, and Surgical History on Complications in Autologous Breast Reconstruction  
Jeffrey N. Li, BS, BBA, Avinash P. Jayaraman, BA, Connie Ma, BA, Catherine E. Sobieski, MS, Austin A. Hembl, MD, Sumeet S. Teotia, MD, Nicholas T. Haddock, MD  
UT Southwestern Medical Center, Dallas, TX

4:15 pm  QS26. NSQIP for Monitoring Outcomes after Implant-Based Breast Reconstruction: is it Enough?  
Joseph Banuelos, MD, Sharon A. Nehring, RN, BSN, Amjed Abu-ghname, MD, Editt Nikoyan, MS, Jorys Martinez-Jorge, MD, Oscar J. Manrique, MD, Minh-Doan Nguyen, MD, Steven L. Moran, MD, James W. Jakub, MD, Tina J. Hieken, MD, Basel Sharaf, MD, DDS  
Mayo Clinic, Rochester, MN

Jeremy D. Oliver, MD, MS Candidate1, Annica C. Eells, MD Candidate2, Daniel Boczar, MD3, Andrea Sisti, MD3, David J. Restrepo, MD3, Maria T. Huayllani, MD3, Brian D. Rinker, MD3, Antonio Jorge Forte, MD, MS PhD3  
1Mayo Clinic, Rochester, MN, 2Mayo Clinic, Scottsdale, AZ, 3Mayo Clinic, Jacksonville, FL

4:21 pm  QS28. Tracking Outcomes in Breast Reduction: An Analysis of 5,917 Patients Using the TOPS Database  
Jeffrey M. Smith, MD, Stefanos Boukovalas, MD, John Hamati, B.S., Pablo Padilla, MD,
Clark Andersen, M.S., Julie E. Park, MD, Linda G. Phillips, MD
*UTMB, Galveston, TX*

4:24 pm **QS29. Quantitative Spine Benefits Post Breast Reduction**
Constantine Papanastasiou, Maryse Fortin, PhD, Jean Ouellet, MD, FRCSC, Lucie Lessard, MD, FRCSC, FRCSC, FACS
*McGill University, Montreal, QC, Canada*

4:27 pm **QS30. Prophylactic Multidisciplinary Treatment to Reduce the Risk of Lymphedema after Axillary Lymph Node Dissection**
Julia A. Cook, MD1, Sarah E. Sasor, MD2, Scott N. Loewenstein, MD1, Will DeBrock, BS1, Mary Lester, MD1, Juan Socas, MD1, Carla S. Fisher, MD1, Aladdin H. Hassanein, MD, MMSc1
1*Indiana University, Indianapolis, IN, 2University of Michigan, Ann Arbor, MI*

4:30 pm **QS31. Patient Preferences for Chaperone Use During Plastic Surgery Physical Examinations**
Nicholas G. Cuccolo, BS1, Dustin T. Crystal, BS1, Alisa O. Girard, BA, MA1, Milind Kachare, MD1, Kathy A. Zhang, BS1, Daphney Noel, BA1, Melat W. Tiruneh, BA, MBS1, Mary Cathryn Earnhardt, BA1, Bernard T. Lee, MD, MPH, MBA2, Jeremy Sinkin, MD1, Richard Agag, MD1
1*Rutgers Robert Wood Johnson Medical School, Piscataway, NJ, 2Beth Israel Deaconess Medical Center/Harvard Medical School, Boston, MA*

4:33 pm **QS32. The Incidence of PTSD and Depression in Adults with Operatively Treated Traumatic Brachial Plexus Palsy**
Michael S. Gart, MD1, Risa T. Reid, MD2, Sarah N. Pierre, MD3, Patrick Brannan, MD4, Bryan Loeffler, MD1, Glenn Gaston, MD1
1*OrthoCarolina Hand Center, Charlotte, NC, 2Carolina Medical Center, Charlotte, NC, 3Brooke Army Medical Center, San Antonio, TX, 4Elgin Air Force Base, Elgin AFB, FL*

4:36 pm **QS33. Clostridium Difficile Associated Infection in the Plastic Surgery Population: Lessons Learned from the ACS NSQIP Database**
Efstathios Karamanos, MD1, Howard Wang, MD1, Scott J. Farber, MD1, David Sahar, MD2, Amita Shah, MD, PhD1
1*University of Texas in San Antonio, San Antonio, TX, 2University of California, Davis, Sacramento, CA*

4:39 pm **QS34. The Effect of Quality Improvement Interventions in the Prevention of Pressure Injuries in Critically Ill Patients**
Jillian M. McLaughlin, MD, Samee A. Hameed, BS, Jacquelynn P. Tran, MD, Dell E. Roach, MSN RN CNML CNS, Victor Z. Zhu, MD, Blake B. Sparks, MD, Jared L. Potts, MD, Ludwik K. Branski, MD, Douglas S. Tyler, MD, FACS, Aristides P. Koutrouvelis, MD, Linda G. Phillips, MD, FACS
*University of Texas Medical Branch, Galveston, TX*

4:42 pm **QS35. Clinical and Radiological Safety of Retained Implantable Doppler Devices After Free Flaps**
Lucas Kreutz-Rodrigues, MD, Matthew A. Frick, MD, Krzysztof R. Gorny, PhD, Brian T. Carlsten, MD, Samir Mardini, MD., Karim Bakri, MBBS
*Mayo Clinic, Rochester, MN*

4:45 pm **QS36. A Vascularized, Three-dimensional Biomimetic Platform for Patient-Specific, ex-vivo studies of Breast Cancer Invasion and Metastasis**
4:48 pm   QS37. Induction Of Delayed Immune Tolerance After Reconstructive Transplantation By Combining Donor Bone Marrow Transplantation And High-dose Cyclophosphamide Treatment
Yinan Guo1, Franka Messner, MD1, Byoung Chol Oh, D.V.M. ; Ph.D1, Georg J. Furtmüller, MD1, W.P. Andrew Lee, MD1, Damon S. Cooney, MD ; Ph.D1, Leo Luznik, MD2, Gerald Brandacher, MD1
1Department of Plastic and Reconstructive Surgery, Vascularized Composite Allotransplantation Laboratory, Johns Hopkins University School of Medicine, Baltimore, MD, 2Division of Hematologic Malignancies, Sidney Kimmel Comprehensive Cancer Center, Johns Hopkins University, Baltimore, MD

4:51 pm   QS38. Effect of Compound 21, a Selective Angiotensin II Type 2 Receptor Agonist, in an Abdominal Adhesion Murine Model
Colton Boudreau, MSc1, Courtney Jones, BSc1, Alison Gareau, PhD2, Terry Levatte, BSc1, Stephanie Legere, MSc1, Michael Bezuhly, MD, MSc, SM, FRCSC, FAAP1
1Dalhousie University, Halifax, NS, Canada, 2Calgary Lab Services, Calgary, AB, Canada

4:54 pm   QS39. Fibroblasts Show Attenuated Wound Healing in the Setting of Dermal Melanoma
Oscar L. da Silva, Deshka S. Foster, MD, MA, Shamik Mascharak, BS, Alan T. Nguyen, Ashley L. Titan, MD, Ankit Salhotra, R Ellen Jones, MD, R Chase Ransom, BS, Jeffrey A. Norton, MD, Michael T. Longaker, MD, MBA
Stanford University, Stanford, CA

4:57 pm   QS40. A Novel Bioactive Suture That Accelerates Wound Tensile Strength Re-establishment And Enhances Wound Healing
Yulong Zhang1, Pin Ha1, Torie Tsuei2, Jean Woo Mok3, Lauren Irwin2, Xiaoxiao Pang1, Shivani Subhedar2, Yegean Amin2, Hsin Chuan Pan1, Emily A. Berthiaume4, John Ingrao2, Ben Wu1,2, Zhong Zheng1, Kang Ting1.5, Chia Soo5
1UCLA dentistry school, Los angeles, CA, 2UCLA Bioengineering, Los angeles, CA, 3UCLA Institute for Society and Genetics, Los angeles, CA, 4UCLA David Geffen School of Medicine, Los angeles, CA, 5UCLA, Orthopaedic Hospital Department of Orthopaedic Surgery, Los angeles, CA

5:00 pm-6:00 pm   MENTORSHIP PANEL

5:00 pm   The Importance of the Mentor-Mentee Relationship; It’s A Two-Way Street
Arin Greene, MD; Mentor of the Year – Arun Gosain, MD; Mentee – Ron Yu

5:30 pm   RECEPTION

6:00 pm-7:30 pm   WOMEN IN PLASTIC SURGERY LECTURE

6:00 pm   LECTURE

6:30 pm   RECEPTION
7:30 pm-9:30 pm  PSF/PSRC RECEPTION AT HOTEL
             Pisces Room

10:00 pm  FELL'S POINT / EDGAR ALLEN POE TOUR

SUNDAY, MAY 5, 2019

7:00 am-8:00 am  PSF BREAKFAST
8:00 am-12:00pm  PSF WORKSHOP
12:00 pm-12:15 pm  PSRC AWARDS
12:15 pm-12:30 pm  PSRC/PSF CONCLUDING REMARKS
BEST EPSRC PAPERS

The Role of Lymph Nodes' Transfer and Lymphangiogenesis In Vascularized Composite Allotransplantation
Ioana Lese(Bern/CH) (ioana.lese@insel.ch)

Prophylactic Regenerative Peripheral Nerve Interface (RPNIs) to Prevent Postoperative Pain
Theodore Kung (Ann Arbor/US) (thekung@med.umich.edu)

Adipose Matrix Derived Hydrogels Incubated With Release Paracrine Factors By Adipose Derived Stromal Cells-
A Novel Allogenic Treatment For Wound Healing
Joris A. van Dongen (Groningen/NL) (j.a.van.dongen@umcg.nl)

BEST AAPSRC PAPERS (TBA – Michael Findlay)

562 total
Access to 35
Clin trials 24
Craniof 78
Dev Bio 11
Fat Stem 20
Improve H 10
Micro 47
Nerve 44
Other basic 38
Patient cent 136
Pat Saftey 36
Tiss Eng 18
VCA 20
Wound 44