

# David Woodbridge Mathes, MD

17 Foxtail Circle • Cherry Hills Village, CO • 206.724.5215 • [david.mathes@cuanschutz.edu](mailto:david.mathes@cuanschutz.edu)

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## **PERSONAL DATA**

Place of Birth: Charlottesville, VA  
Date of Birth: March 31, 1970  
Citizenship: USA

## **EDUCATION**

1988 – 1992 B.A., European History (High honors in History), Minor Degree in Studio Art,  
*Magna Cum Laude*  
Vanderbilt University, Nashville, TN

1992 – 1996 Doctor of Medicine  
Tulane University Medical School, New Orleans, LA

## **POSTGRADUATE TRAINING**

2004 – 2006 Resident in Plastic and Reconstructive Surgery  
University of Texas, Southwestern Medical Center, Department of Plastic and  
Reconstructive Surgery, Dallas, TX

2003 – 2004 Chief Resident and Clinical Instructor in General Surgery  
New York Presbyterian Hospital, Weill-Cornell Medical Center, Department of  
Surgery, New York, NY

2003 – 2004 Chief Resident and Clinical Instructor in General Surgery  
New York Presbyterian Hospital, Weill-Cornell Medical Center, Department of  
Surgery, New York, NY

2003 – 2004 Chief Resident and Clinical Instructor in General Surgery  
New York Presbyterian Hospital, Weill-Cornell Medical Center, Department of  
Surgery, New York, NY

2001 – 2003 Categorical Surgical Resident  
New York Presbyterian Hospital, Weill-Cornell Medical Center, Department of  
Surgery, New York, NY

1998 – 2001 Research Fellow  
Massachusetts General Hospital, Harvard Medical School, Department of  
Surgery, Boston, MA

1996 – 1998 Categorical Surgical Resident  
New York Presbyterian Hospital, Weill-Cornell Medical Center, Department of  
Surgery, New York, NY

## **FACULTY APPOINTMENTS**

- 2014 – present Chief, Division of Plastic and Reconstructive Surgery  
University of Colorado School of Medicine, Anschutz Medical Campus  
Aurora, CO
- 2014 – present Professor of Surgery  
University of Colorado School of Medicine, Anschutz Medical Campus  
Aurora, CO
- 2021 – 2024 Program Director, Plastic and Reconstructive Surgery Residency  
University of Colorado School of Medicine, Anschutz Medical Campus  
Aurora, CO
- 2011 – 2014 Associate Professor of Surgery  
University of Washington School of Medicine, Seattle, WA
- 2006 – 2011 Assistant Professor of Surgery  
University of Washington School of Medicine, Seattle, WA
- 2006 – present Affiliate Investigator to the Clinical Research Division,  
Fred Hutchinson Cancer Research Center, Seattle, WA

## **HOSPITAL POSITIONS**

- 2014 – present Medical Director, Plastic and Reconstructive Surgery  
University of Colorado Hospital, Aurora, CO
- 2014 – present Chief of Plastic Surgery Service  
Eastern Colorado VA Healthcare System, Denver, CO
- 2014 – present Active privileges at University of Colorado Hospital, Denver's Children's  
Hospital, Denver Health Hospital, and VA Eastern Colorado Healthcare System.
- 2006 – 2014 Chief of Plastic Surgery Service  
VA Puget Sound Healthcare System, Seattle, WA
- 2006 – 2014 Active privileges at University of Washington Medical Center, Harborview  
Medical Center, Seattle Children's Hospital, Seattle Cancer Care Alliance, and  
VA Puget Sound Healthcare System, Seattle, WA

## **HONORS**

- 2023 Teacher of the Year, CU Anschutz Department of Surgery, Denver, CO
- 2019 Young Innovator Award (with Bruce Swearingen), AST's Cutting Edge of  
Transplantation Meeting, Phoenix, AZ
- 2014 Young Innovator Award (with Bruce Swearingen), AST's Cutting Edge of  
Transplantation Meeting, Chandler, AZ
- 2014 Poster of Distinction, 2014 World Transplant Congress, San Francisco

- 2012 2012 Excellence in Research Award for Plastic/Maxillofacial Surgery, The Surgical Forum at the Clinical Congress of American College of Surgeons, Chicago IL (with Jeff Chang)
- 2012 Best Presentation at the 18<sup>th</sup> Annual Research Symposium, University of Washington, Department of Surgery (with Jeff Chang)
- 2006 “Mr. Chips Award” Best Resident Presentation, UT Southwestern Department of Plastic Surgery Annual Alumni Meeting
- 2001 Poster of Distinction (Immunology), Scientific Advisory Committee, XXV Massachusetts General Hospital Research Symposium
- 2000 Bernard G. Sarnat Junior Award in Basic Science, Plastic Surgery Educational Foundation
- 2000 Best Resident Presentation (First Place), American Association of Hand Surgery
- 2000 Joseph E. Murray Award for Best Resident Presentation (First Place), New England Society of Plastic Surgery
- 2000 Travel Award from the Scientific Committee for the XVII International Congress of the Transplantation Society
- 1999 Joseph E. Murray Award for Best Resident Presentation (First Place), New England Society of Plastic Surgery

### **BOARD CERTIFICATION**

- 2017 American Board of Plastic Surgery  
2005 American Board of Surgery

### **CURRENT LICENSES**

- 2014 – present Colorado State, MD 0054039

### **PROFESSIONAL ORGANIZATIONS**

- 2022 The Aesthetics Society, Member  
2021 American Surgical Association, Member  
2016 Mountain West Society of Plastic Surgery, Founding Member  
2015 Fellow of the American Society of Transplantation  
2014 American Board of Plastic Surgery, Board Examiner  
2013 American Association of Plastic Surgeons, Member  
2012 World Society of Reconstructive Microsurgery, Member  
2010 American College of Surgeons, Fellow  
2009 American Society of Plastic Surgeons, Member  
2008 American Society for Reconstructive Microsurgery, Member  
2008 American Society of Reconstructive Transplantation, Founding Member  
2008 American Society of Transplantation, Member  
2008 Association for Academic Surgery, Member

2008 – 2014 Washington Society of Plastic Surgery, Member  
2007 Plastic Surgery Research Council, Member

## **TEACHING RESPONSIBILITIES**

### **University of Colorado Teaching Responsibilities**

2006 – present Core Curriculum Topics & Topic-Oriented Resident Questioning: Instructor, taught twice per year.

2006 – present Professor Rounds & Summer Lecture Series: Faculty-selected based on clinical and/or research interests. Instructor, taught twice per year.

2008 – 2014 Plastic Surgery Resident Flap Course & Surgical Skills Lab: two-day flap dissection workshop. Instructor, taught once per year

2006 – 2014 Mock oral board examinations. Instructor, taught once per year.

2006 – 2014 Medical student suturing workshop. Instructor, taught once per year.

### **Mentees**

#### **Clinical Fellows**

2009-2010 Kah Woon Leo, MD, Singapore General Hospital, Singapore  
Project title: Transverse Upper Gracilis, Indications for use in breast reconstruction

#### **Research Fellows**

Katelyn Blades, MD  
Project Title:

2012-2019 Bruce Swearingen, MD  
Project title: Transient chimerism for the induction of tolerance to vascularized composite allografts.

2010-2012 Jeff Chang, MD, Beth Israel Deaconess Medical Center, Boston, MA  
Project title: Pre-clinical model of composite tissue allotransplantation transplantation

#### **Residents in Plastic Surgery**

2006-2007 Stephen Sullivan, MD  
Project title: Head and Neck Malignant Melanoma: Local Recurrence Rate Following Wide Local Excision and Immediate Reconstruction

2006-2009 Jeffrey Scott, MD  
Project title: Computed tomographic angiography in planning abdomen-based microsurgical breast reconstruction: a comparison with color duplex ultrasound

2006-2010 James Edwards, MD  
Project title: A Feasibility Study Regarding a Functional Periorbital Subunit Flap: Anatomic And Technical Considerations

- 2007-2008 Emilia Ploplys, MD  
Project title: A survey of North American burn and plastic surgeons on their current attitudes toward facial transplantation
- 2007-2010 Rob Schlenker, MD  
Project title: A survey of North American hand surgeons on their current attitudes toward hand transplantation.
- 2007-2011 Chad Wheeler, MD  
Project title: Social Media in Plastic Surgery Practice: Emerging trends in North America
- 2007-2011 Ian Sunderland, MD  
Project title: Anatomic evaluation of the nasolabial blood supply and its impact on facial transplantation
- 2007-2012 Kari Keys, MD  
Project title: Multivariate Predictors of Failure after Flap Coverage of Pressure Ulcers
- 2007-2012 Dan Liu, MD  
Project title: The application of indocyanine green fluorescence angiography in plastic surgery
- 2009-2015 Angelo Lipra, MD  
Project title: Changes in Sternal Reconstruction, the Emergence of Sternal Plating
- 2009-2015 Janelle Sosa, MD  
Project title: Comparison of Outcomes in Immediate Implant-Based Breast Reconstruction Versus Mastectomy Alone
- 2009-2015 Suzette Miranda, MD  
Project title: Outcomes of Ketorolac Usage in Deep Inferior Epigastric Perforator Flap Breast Reconstruction Patients

### **Students**

- 2006-2007 Neal Kumar, BS, University of South Alabama College of Medicine, Mobile, AL.  
Project title: A survey of North American burn and plastic surgeons on their current attitudes toward facial transplantation
- 2008-2009 Lily Daniali, BS, University of Washington, Seattle, WA.  
Project title: Effect of Preoperative Magnetic Resonance Imaging Diagnosis of Osteomyelitis on the Surgical Management and Outcomes of Pressure Ulcers
- 2009-2012 Noland, Marie, BS, University of Alberta, Edmonton, Alberta.  
Project title: A preclinical canine model for composite tissue transplantation.
- 2011-2012 Grace Um, Washington University, St. Louis, MO.  
Project title: Use of Flow coupler in microsurgical breast reconstruction.
- 2012-2013: Robert Fesko, University of Washington, WA.

Project title: Examination of patients undergoing implant breast reconstruction versus mastectomy alone.

- 2013-2014 Andrew Rivara, Stoney Brook University School of Medicine, New York.  
Project title: Chemokine expression in tolerant vascularized composite allograft.
- 2018–2020 Ariel Johnson, Arizona School of Medicine, Aurora, CO.  
Project: Cellular therapy with MSC's transfected with CCL22 to induce recruitment of regulatory T-Lymphocytes and allow for the induction of tolerance to a vascularized composite allograft
- 2020-2022 Jerry Yang, University of Colorado School of Medicine, Aurora, CO.  
Projects: Midline Epigastric Incisions Can be Associated with Higher Umbilical Complications Following DIEP Flap; Importance of Incidental Findings in Preoperative Computed Tomography Angiography for Abdominal-Based Free Flap Reconstruction
- 2022-2023 Kathryn Cataldo, University of Colorado School of Medicine, Aurora, CO.  
Project: Gender dysphoria outcomes following female-to-male chest masculinization surgery
- 2022-2023 Marlie Fisher, University of Colorado School of Medicine, Aurora, CO.  
Project: Venous Thromboembolism after Deep Inferior Epigastric Perforator Flap Breast Reconstruction: Review of Outcomes after a Postoperative Prophylaxis Protocol
- 2022-2023 Aaron Foglio, University of Colorado School of Medicine, Aurora CO.  
Project: Impact of Insurance status on Hospital Length of stay and 30-day outcomes
- 2021-Current Kayvon Jabbari, University of Colorado School of Medicine, Aurora, CO.  
Project: Activity Monitoring in Peri-Operative setting in Breast Surgery Patients
- 2022-Current Brandt Gruizinga, University of Colorado School of Medicine, Aurora, CO.  
Project: Free Flap Chest Wall Reconstruction: Is it Time for A Paradigm Shift in the Reconstructive Ladder
- 2023-Current Caitlin Blades, University of Colorado School of Medicine, Aurora, CO.  
Project: Healthy and Keloid Skin, Novel in Vitro Model of Scars and The Role of Immune Cells in Keloid Pathogenesis

### **National Responsibilities**

Faculty, UT Southwestern Techniques in Flap Dissection Cadaver Workshop. July 15-18, 2008. Dallas, TX.

Faculty, Stephen Mathes Reconstructive Symposium. July 10-11, 2009. Dallas, TX.

- *Fundamentals of Flap Selection—the Mathes principles*

Faculty, UT Southwestern Techniques in Flap Dissection Cadaver Workshop. July 11-12, 2009. Dallas, TX.

- *Sartorius and tensor fascia lata flap*
- *Sacral and trochanteric flap coverage*

Chair, Clinical Update in Reconstructive Transplantation: Where Do We Stand? Boca Raton, FL. Jan 12, 2010.

Faculty, Dallas Rhinoplasty Symposium. Dallas, TX. March 5 – 7th, 2010

- *Faculty for cadaver dissection*

Co-Chair, Stephen Mathes Reconstructive Symposium. Dallas, TX. July 23-24, 2010.

- *Facial reconstruction after Mohs surgery*
- *Non-Abdominal breast reconstruction*

Faculty, UT Southwestern Techniques in Flap Dissection Cadaver Workshop. Dallas, TX. July 25, 2010.

- *Faculty for cadaver dissection*

Faculty, Dallas Rhinoplasty Symposium. Dallas, TX. March 4 – 6th, 2011

- *Faculty for cadaver dissection*

Faculty, American Society of Plastic Surgery Symposium: Challenging Complications In Plastic Surgery—Successful Management Strategies. Washington, DC. Jul 13-14, 2012.

Faculty, American Society of Plastic Surgery Symposium: Management of Complications in Plastic Surgery Symposium. Rosemont, IL. March 28–29, 2014.

Faculty, The 2nd Oldenburg Symposium for Plastic Surgery and Hand Surgery. The European Medical School. Oldenburg, Germany. August 20, 2014

- *Facial Reconstruction with Local Flaps*

Faculty (Keynote Speaker), European Plastic Surgery Research Council 6<sup>th</sup> Annual Meeting. Hamburg, Germany, August 21 – 24, 2014

- *Keynote Lecture: Tolerance to Vascularized Allografts – Is Long term Donor Cell Engraftment Necessary*
- *Chair: Plastic Surgery Research Council Highlight Session*

QMP Reconstructive Surgery Symposium, November 1-3, 2014

- *Faculty for Symposium*
- *Lecture: Local Flap for Facial Reconstruction*

Plastic Surgery Foundation Visiting Professor 2015-2016

QMP Reconstructive Surgery Symposium, November 1-3, 2016

- *Faculty for Symposium*
- *Lecture: Local Flap for Facial Reconstruction*
- *Lecture: Perineal Reconstruction*
- *Lecture: Eyelid Reconstruction*

Mountain West Society of Plastic Surgery

- *Founded the Society and Organized First Meeting 2016*
- *Lecture: The Impact of Technology on Microsurgical Breast Reconstruction, 2017*
- *Program Committee 2017*

QMP Reconstructive Surgery Symposium, November 1-3, 2017

- *Co-Chair for Symposium*

Faculty (Keynote Speaker), European Plastic Surgery Research Council Annual Meeting. Vienna, Austria August 25 – 27, 2022

- *Keynote Lecture: Is there Value in the Use of Pre-Operative and Intra-Operative Imaging in Autologous Breast Reconstruction*
- *Chair: Plastic Surgery Research Council Highlight Session*

Visiting Professor, BG Unfallklinik Frankfurt/Main, Germany. August 29, 2022

- *Keynote Lecture: Microsurgical Chest Wall Reconstruction*

Faculty (Keynote Speaker), European Plastic Surgery Research Council Annual Meeting. Geneva, Switzerland August 24 – 27, 2023

- *Keynote Lecture: Impact of Insurance status on Hospital Length of stay and 30-day outcomes*
- *Venous Thromboembolism after Deep Inferior Epigastric Perforator Flap Breast Reconstruction: Review of Outcomes after a Postoperative Prophylaxis Protocol*
- *Chair: Plastic Surgery Research Council Highlight Session*

Visiting Professor, BG Unfallklinik Frankfurt/Main, Germany. August 27, 2023

- *Keynote Lecture: Collaboration on Research*

Visiting Professor, BG Unfallklinik Frankfurt/Main, Germany. August 27, 2024

- *Keynote Lecture: Is the Reconstructive Ladder Still Relevant?*

## **EDITORIAL RESPONSIBILITIES**

2014-2019 Associate Editor, *Journal of Transplantation*

2010 Editorial Board, *Journal of Reconstructive Microsurgery*

Ad hoc reviewer:

*American Journal of Transplantation*

*Annals of Plastic Surgery*

*Journal of Reconstructive Microsurgery*

*Journal of American College Surgeons*

*Microsurgery*

*Plastic and Reconstructive Surgery*

*Lancet*

*Journal of Surgical Research*

## **SPECIAL NATIONAL RESPONSIBILITIES**

American College of Surgeons, Fellow, 2010

ACS Surgical Forum, Plastic Surgery Section Program Committee 2011-2014

Advisory Council for Plastic and Maxillofacial Surgery 2018 - present

American Society of Plastic Surgeons, Member, 2009

Curriculum Committee Member, 2009 - 2010

Plastic Surgery Foundation Research Education Committee 2013 – 2017

Plastic Surgery Foundation Research Oversight Committee 2013 – 2017, 2019-2020

Plastic Surgery Foundation Basic Science Study Section 2012 – 2020

Co-Chair Plastic Surgery Foundation Basic Science Study Section 2018 – 2019

Chair Plastic Surgery Foundation Basic Science Section 2019 - 2020

Plastic Surgery Foundation Visiting Professor Committee 2017 - 2019

ASPS Bylaws Committee 2017 - 2019



Plastic Surgery News Editorial Board 2017 – 2018  
 Trustee of the American Society of Plastic Surgery 2019 - 2020  
 American Society for Reconstructive Microsurgery, Member, 2008  
     Program Committee, 2010, 2018 - 2019  
     Membership Committee, 2012 - 2014  
     Bylaws Committee, 2013 - 2016  
     Research Committee 2014 – 2015  
     Nominating Committee 2014 – 2015  
     Historian 2017 – 2018  
     Buncke Lectureship Selection Committee 2018 - 2019  
     Visiting Professor Selection Committee 2019 – 2020  
 American Society of Reconstructive Transplantation, Founding Member, 2008  
     Board Member, 2008-2010, Re-appointed 2017-2019  
     Scientific Committee, 2008 – 2019  
     Nominating Committee, 2012  
 American Society of Transplantation, Member, 2008  
     Vascularized Composite Allograft Committee, 2011-2017  
         Vascularized Composite Allograft Committee, Chair 2014 - 2016  
 American Association of Plastic Surgeons, member 2013  
     Academic Scholars Committee, 2012-2013  
     Academic Scholars Committee, Chair, 2013 -2015  
     Technology Committee 2014 – 2015  
     Research and Education Committee 2018 – 2020  
     Membership Committee 2018 – 2019  
     Program Committee 2018 - 2019  
 Association for Academic Surgery, Member, 2008  
 Plastic Surgery Research Council, Member, 2007  
     Scientific Committee, 2007- 2020  
     PSRC Representative to the AAMC, 2010-2012  
     PSRC Representative to the PSF Research Oversight Committee 2013-2017  
     Chair-Elect for the Plastic Surgery Research Council 2013-2015  
     Chair of the Plastic Surgery Research Council 2014-2015  
     Awards Committee 2016-2019  
 Washington Society of Plastic Surgery, Member, 2008 - 2014  
 World Society of Reconstructive Microsurgery, Member 2012  
     Program Committee 2012-2013  
     Program Committee 2014-2015  
     Invited Speaker for 2015 Meeting  
     Invited Speaker for 2017 Meeting  
 Mountain West Society of Plastic Surgery  
     Founder of the Society and Organized Meeting in 2016  
     Program Committee 2016 – present  
     Board of Directors 2016 – present  
 The Aesthetic Society, Member, 2022-present  
     Continuing Medical Education Committee 2023-2025  
     Teaching Course Subcommittee 2022- present

### **SPECIAL LOCAL RESPONSIBILITIES**

2025	Member of Search Committee – Division Chief of Transplantation
2022	Member of Search Committee – Pediatric Plastic Surgery Section Head
2018 – present	Compliance Committee, University of Colorado Hospital

2018 – present Faculty Senate, University of Colorado School of Medicine  
2016 – 2017 Member of Search Committee – Chair of Surgery at Denver Health  
2014 – present AEF Grant Program Scientific Review Board

## **RESEARCH FUNDING**

Department of Defense (8/2021 – 9/2027)

*Advancement of a Tissue Oxygenation Measurement Device and Evaluation of Galectin-3 as Novel Noninvasive Prognostic Biomarkers for Monitoring VCA Rejection*

PI: Christine Huang, PhD

Role: Co-Investigator

Direct Costs: \$1,500,000

The Advanced Research Projects Agency for Health (9/2024-9/2030)

*Total Human Eye-allotransplantation Innovation Advancement*

Multi-PI OTA: Kia Washington, MD; Christine Huang, PHD

Role: Co-Investigator

Direct Costs: \$46,636,026

### **Completed Funding**

Plastic Surgery Foundation: Pilot Research Grant (8/2019 – 8/2020)

*Antioxidant Carbon Nanoparticles for T-cell Modulation in Vascularized Composite Allograft*

Role: Principal Investigator

Direct Costs: \$10,000

AEF Grant Department of Surgery (8/2018 – 08/2020)

*Cellular therapy with MSC's transfected with CCL22 to Induce Recruitment of Regulatory T-Lymphocytes and Allow for the Induction of Tolerance to a Vascularized Composite Allograft*

Role: Principal Investigator

Direct Costs: \$30,000

Veterans Affairs Merit Grant (4/1/2014 – 3/30/2018)

*Tolerance to Composite Tissue Allografts via Hematopoietic Stem Cell Infusion*

Role: Principal Investigator

Direct costs: \$650,000

Indirect costs: \$0

Armed Forces Institute of Regenerative Medicine II (11/1/2013 – 6/30/2018)

*Tolerance to Vascularized Composite Tissue Allografts (VCA) via only Transient Donor*

*Cell Chimerism in a Pre-Clinical Large Animal Model.* Role: Consortium Co-Investigator. Direct costs:

\$647,146. Indirect costs: \$352,695

Plastic Surgery Educational Foundation Research Grant, 1999-2000, \$5,000

*In Utero Induction of Tolerance to Vascularized Musculoskeletal Allografts*

Role: Principal Investigator

American Society of Hand Surgery Research Grant, 1999-2000, \$7,500

*Functional Integration of Vascularized Musculoskeletal Tissue Allografts in Miniature Swine*

Role: Principal Investigator

American Society of Transplant Surgeons, Roche Laboratories, 1999-2000, \$50,000

*Surgical Scientist Research Award and Fellowship*

Role: Principal Investigator

Plastic Surgery Educational Foundation, Basic Research Grant, 2000, \$5,000

*In Utero Induction of Tolerance to Vascularized Xenografts*

Role: Co-Investigator

Plastic Surgery Educational Foundation, Basic Research Grant, 2000, \$5,000

*In Utero Induction of Tolerance to Vascularized Xenografts*

Role: Co-Investigator

Plastic Surgery Educational Foundation & Lifecell Corp, Research Fellowship, 2000-2001, \$30,000

*In Utero Induction of Tolerance to Vascularized Musculoskeletal Allografts*

American Society for Surgery of the Hand, 2001, \$10,000

*Limb Transplantation without Chronic Immunosuppression: Can Mixed Chimerism Induce Tolerance?*

Role: Co-Investigator

American Society for Surgery of the Hand, 2001, \$10,000

*Transplantation of Limb Allografts without Chronic Immunosuppression: Inducing Tolerance to the Cutaneous Tissue*

Role: Co-Investigator

American Association for Hand Surgery, Junior Investigator Research Grant, 2001, \$7,500

*Prevention of Skin Rejection in an Orthotopic Miniature Swine Model*

Role: Principal Investigator

Plastic Surgery Educational Foundation, Basic Research Grant, 2001, \$5,000

*Orthotopic Limb Transplantation in the Miniature Swine*

Role: Co-Investigator

National Endowment for Plastic Surgery, 2008-2009, \$50,000

*Immune Tolerance for Surgical Transplantation of the Hand or Face*

Role: Principal Investigator

Plastic Surgery Educational Foundation, 2008-2009, \$5,000

*Facial Subunits for Composite Tissue Transplantation*

Role: Principal Investigator

American Association of Plastic Surgeons, 2009-2011, \$60,000

*Induction of Tolerance to Composite Tissue Allografts via Mixed Chimerism*

Role: Principal Investigator

Roche Organ Transplantation Research Foundation, 2010-2011, \$91,170

*Pre-clinical models of tolerance to composite tissue allografts via mixed chimerism*

Role: Principal Investigator

National Endowment for Plastic Surgery, 2010-2011, \$50,000

*Simultaneous Stem Cell and Composite Tissue Transplantation*

Role: Principal Investigator

Provost Bridge Funding 2011 – 2012, \$50,000

University of Washington School of Medicine

## **BIBLIOGRAPHY**

### **Manuscripts in Peer-Reviewed Journals**

1. Blades CM, Huang CA, **Mathes DW**. The current state of tolerance induction in vascularized composite allotransplantation. *Curr Opin Organ Transplant*. 2024 Dec 1;29(6):368-375. doi: 10.1097/MOT.0000000000001176. Epub 2024 Sep 20. PMID: 39422587; PMCID: PMC11537808.
2. Christodoulou N, Wolfe B, **Mathes DW**, Malgor RD, Kaoutzanis C. Vacuum-assisted closure therapy for the management of deep sternal wound complications: A systematic review and meta-analysis. *J Plast Reconstr Aesthet Surg*. 2024 Jul;94:251-260. doi: 10.1016/j.bjps.2023.09.049. Epub 2023 Oct 17. PMID: 37951723.
3. Fisher MH, Ohmes LB, Yang JH, Le E, Colakoglu S, French M, Siddikoglu D, Um G, Winocour J, Higdon K, Perdakis G, Inchauste S, Cohen J, Chong T, Kaoutzanis C, **Mathes DW**. Abdominal donor-site complications following autologous breast reconstruction: A multi-institutional multisurgeon study. *J Plast Reconstr Aesthet Surg*. 2024 Mar;90:88-94. doi: 10.1016/j.bjps.2024.01.033. Epub 2024 Feb 1. PMID: 38364673.
4. Ha A, Garoosi K, Hale E, Higuchi T, Winocour J, **Mathes DW**, Kaoutzanis C. Trends in Gender-Affirming Surgeries in the United States from 2010 to 2021. *Indian J Plast Surg*. 2024 Jan 4;57(1):47-53. doi: 10.1055/s-0043-1778096. PMID: 38450014; PMCID: PMC10914541.
5. Ma J, Wang Z, Mintzlaff D, Zhang H, Ramakrishna R, Davila E, Witkowski MT, Lucia MS, Schwartz MS, Pomfret EA, **Mathes DW**, Wang Z. Bivalent CD47 Immunotoxin for Targeted Therapy of T-Cell Acute Lymphoblastic Leukemia. *Blood*. 2024 Nov 19;blood.2024025277. doi: 10.1182/blood.2024025277. Epub ahead of print. PMID: 39561285.
6. Garoosi K, Yoon Y, Hale E, Kahan R, Kalia N, Higuchi T, **Mathes D**, Hudish T, Kaoutzanis C. Association between genital gender-affirming surgery and psychiatric comorbidities in individuals with gender incongruence. *J Sex Med*. 2024 Aug 1;21(8):729-733. doi: 10.1093/jsxmed/qdae077. PMID: 38972664.
7. Wang Z, Ramakrishna R, Wang Y, Qiu Y, Ma J, Mintzlaff D, Zhang H, Li B, Hammell B, Lucia MS, Pomfret E, Su AA, Washington KM, **Mathes DW**, Wang Z. Toxicology, pharmacokinetics, and immunogenicity studies of CCR4-IL2 bispecific immunotoxin in rats and minipigs. *Eur J Pharmacol*. 2024 Apr 5;968:176408. doi: 10.1016/j.ejphar.2024.176408. Epub 2024 Feb 15. PMID: 38367684; PMCID: PMC10939744.
8. McCranie AS, Christodoulou N, Wolfe B, Malgor RD, **Mathes DW**, Winocour J, Yu JW, Kalia N, Kaoutzanis C. The use of flaps for management of deep sternal wound complications: A systematic review and meta-analysis. *J Plast Reconstr Aesthet Surg*. 2024 Apr;91:302-311. doi: 10.1016/j.bjps.2024.02.041. Epub 2024 Feb 13. PMID: 38442510.
9. Tuñaño KR, Yang JH, Fisher MH, Le E, Khatler NJ, Kalia N, Colakoglu S, Cohen JB, Kaoutzanis C, Chong TW, **Mathes DW**. Venous Thromboembolism after DIEP Flap Breast Reconstruction: Review of Outcomes after a Postoperative Prophylaxis Protocol. *Plast Reconstr Surg*. 2024 Jul 1;154(1):13e-20e. doi: 10.1097/PRS.00000000000010949. Epub 2023 Jul 25. PMID: 37506353.
10. Garoosi K, Yoon Y, Winocour J, **Mathes DW**, Kaoutzanis C. The Effects of Body Mass Index on Postoperative Complications in Patients Undergoing Autologous Free Flap Breast Reconstruction. *J Reconstr Microsurg*. 2024 Oct;40(8):601-610. doi: 10.1055/s-0044-1780518. Epub 2024 Feb 23. PMID: 38395056.
11. Godbe KN, Sinik LM, Guest R, Nazir N, Egan K, **Mathes D**, Farmer R, Butterworth J. Application Discrepancies in the 2023-2024 Integrated Plastic Surgery Match. *Ann Plast Surg*. 2024 Dec 1;93(6):701-706. doi: 10.1097/SAP.0000000000004148. PMID: 39526816.
12. Giannas E, Winocour J, Yu J, Kokosis G, **Mathes D**, Kaoutzanis C. The effect of antibiotic beads on periprosthetic infection in implant-based breast reconstruction following mastectomy. *J Plast*

- Reconstr Aesthet Surg. 2024 Sep;96:33-35. doi: 10.1016/j.bjps.2024.07.016. Epub 2024 Jul 11. PMID: 39024678.
13. Low Wang CC, Chong T, Moore G, Echaliier B, Haakonsen N, Carter JE Jr, **Mathes D**, Hsia J, Phan TT, Lim IJ, Freed BM. Results of the Phase 1 Open-Label Safety Study of Umbilical Cord Lining Mesenchymal Stromal/Stem Cells (Corlicyte<sup>®</sup>) to Heal Chronic Diabetic Foot Ulcers. *Biomedicines*. 2024 Jun 20;12(6):1375. doi: 10.3390/biomedicines12061375. PMID: 38927582; PMCID: PMC11201444.
  14. Hammond JB, **Mathes DW**, Winocour J, Kaoutzanis C. Shrinking Waistlines and Shrinking Complications: Can Bariatric Surgery Optimize the Morbidly Obese for Microvascular Breast Reconstruction? *Aesthet Surg J*. 2024 Jun 14;44(7):NP527-NP528. doi: 10.1093/asj/sjae069. PMID: 38526311.
  15. Constantine RS, Foppiani JA, Allenby T, Kokosis G, **Mathes DW**, Winocour J, Kaoutzanis C. Purse-String DIEPplasty: A Technique to Improve Aesthetic Outcome of Autologous Breast Reconstruction. *Aesthetic Plast Surg*. 2024 Jul 11. doi: 10.1007/s00266-024-04228-2. Epub ahead of print. PMID: 38992248.
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## Chapters

1. Lee WPA, Butler PEM, **Mathes DW**. Transplantation in Plastic Surgery. In: Mathes SJ, ed. *Plastic Surgery, 2nd Edition, Volume 1: General Principles*. Saunders/Elsevier: Philadelphia, PA; 2006:269-291.
2. **Mathes DW**, Garcia CA. Cheek Reconstruction. In: Janis JE, ed. *Essentials of Plastic Surgery: A UT Southwestern Medical Center Handbook*. Quality Medical Publishing, Inc: St. Louis, MO; 2007:307-313.
3. **Mathes DW**. Thumb Reconstruction. In: Janis JE, ed. *Essentials of Plastic Surgery: A UT Southwestern Medical Center Handbook*. Quality Medical Publishing, Inc: St. Louis, MO; 2007:610-619.
4. **Mathes DW**. Current Techniques in Medial Thighplasty. In: Shiffman MA, Di Giuseppe A, eds. *Body Contouring: Art, Science, and Clinical Practice*. Springer: New York, NY; 2010:815-826.
5. **Mathes DW**, Butler PEM, Lee WPA. Transplantation in Plastic Surgery. In: Neligan PC, ed. *Plastic Surgery 3rd Edition, Volume 1: Principles*, Elsevier Saunders, London. 2012: 814-840.
6. **Mathes DW**. Chapter 42: Descending Genicular Artery Perforator Flap: Saphenous Flap, Pages 793-802. *Perforator Flaps: Anatomy, Technique, & Clinical Applications*. 2nd Edition, Editors Phillip N. Blondeel, Steven F. Morris, Geoffrey G. Hallock, and Peter C. Neligan. Volume II: Anatomy and Surgical Technique: Lower Extremity; Clinical Applications: Controversies, Quality Medical Publishing, Inc., St. Louis, MO, 2012
7. Said HK, Javid SH, Colohan S, Louie O, **Mathes DW**, Anderson BO, Neligan PC. Breast Reconstruction Following Mastectomy In: Cameron JL, Cameron AM ed. *Current Surgical Therapy, 11<sup>th</sup> edition*. Saunders/Elsevier: Philadelphia, PA, 2013: 621-624
8. **Mathes DW**, B Swearingen. Use of Large Animal and Nonhuman Primate Models for

- Reconstructive Transplantation. In: Gerald Brandacher, Ed, *The Science of Reconstructive Transplantation*, Springer, New York, 2015 (In print)
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  10. Gladden AAH., Chong T, **Mathes DW**. Breast Reconstruction In: McIntyre R, Schulick R, ed. *Surgical Decision Making, 6<sup>th</sup> Edition*. Elsevier: Philadelphia, PA: 2019: 318-320.

**Other Publications (non-referred journals, letters to the editor, etc)**

1. Hettiaratchy S, **Mathes DW**, Petit F, Lee WP. Nerve allografting represents a unique situation. *Plast Reconstr Surg*. 2002 Feb;109(2):825-6.
2. **Mathes DW**. Reply to Letter to the Editor: Knobloch K, Vogt PM. Plastic Surgeons' Tradition in Transplantation Medicine in Light of Composite Tissue Allotransplantation. *J Am Coll Surg*. 2009 Nov;209(5):674-5
3. **Mathes DW**. Discussion: vascular considerations in composite midfacial allotransplantation. *Plast Reconstr Surg*. 2010 Feb;125(2):523-4.

**NATIONAL INVITED LECTURES AND ABSTRACTS**

1. Scientific Meeting of the American Society of Transplant Surgeons. Recipient Bone Marrow Engraftment in Donor Tissue Following Long-Term Tolerance to a Hemopoietic Musculoskeletal Allograft. **Mathes DW**, Bourget JL, Randolph MA, Sachs DH, Lee WPA. Chicago, IL. May 19-21 1999. Poster.
  2. Plastic Surgery Research Council. Lack of Evidence for Bone Marrow Engraftment in Musculoskeletal Allografts in Miniature Swine. Bourget JL, **Mathes DW**, Randolph MA, Sachs DH, Lee WPA. Pittsburgh, PA. May 22-25, 1999.
  3. New England Society of Plastic and Reconstructive Surgeons. Recipient Bone Marrow Engraftment in Donor Tissue Following Long-Term Tolerance To A Hemopoietic Musculoskeletal Allograft. **Mathes DW**, Bourget JL, Randolph MA, Sachs DH, Lee WPA. Newport, RI. Jun 4-6, 1999.
  4. New England Society of Plastic and Reconstructive Surgeons. Instantaneous Monitoring of Tissue Levels of Oxy and Deoxyhemoglobin as a Means for Detecting Musculoskeletal Flap Ischemia. **Mathes DW**, Silverman RP, Randolph MA, Kollias N, Gilles R, May JW Jr. Newport, RI. Jun 4-6, 1999.
  5. Northeastern Society of Plastic Surgeons. In Utero Induction of Transplant Tolerance without Immunosuppression in a Large Animal Model. **Mathes DW**, Rubin JP, Randolph MA, Gazelle GS, Wu A, Sachs DH, Lee WPA. Burlington, VT. Sep 30-Oct 2, 1999.
  6. Northeastern Society of Plastic Surgeons. Instantaneous Monitoring of Tissue Levels of Oxy and Deoxyhemoglobin as a Means for Detecting Musculoskeletal Flap Ischemia. **Mathes DW**, RP Silverman, Randolph MA, Kollias N, Gilles R, May JW Jr. Burlington, VT. Sep 30-Oct 2, 1999.
  7. American College of Surgeons. Instantaneous Monitoring of Tissue Levels of Oxy and Deoxyhemoglobin as a Means for Detecting Musculoskeletal Flap Ischemia. **Mathes DW**, Silverman RP, Randolph MA, Kollias N, Gilles R, May JW Jr. San Francisco, CA. Oct 11-17, 1999.
  8. American Association of Hand Surgery. In Utero Induction of Transplant Tolerance without Immunosuppression. **Mathes DW**, Rubin JP, Randolph MA, Gazelle GS, Wu A, Sachs DH, Lee WPA. Miami, FL. January 5-8, 2000.
  9. New England Society of Plastic and Reconstructive Surgery. Tolerance to Musculoskeletal Allografts with Skin. **Mathes DW**, Bourget JL, Randolph MA, Solari MG, Sachs DH, Lee WPA. Lanconia, NH. Jun 3-4, 2000.
  10. New England Society of Plastic and Reconstructive Surgery. In Utero Induction of Chimerism and Transplantation Tolerance in a Swine Model. **Mathes DW**, Randolph MA, Gazelle GS, Solari MG, Wu A, Sachs DH, Lee WPA. Lanconia, NH. Jun 3-4, 2000.
- XXV Massachusetts General Hospital Research Symposium, Scientific Advisory Committee.

- Intravascular in utero injection of adult bone marrow leads to prolonged kidney allograft survival across a full MHC barrier in a swine model. **Mathes DW**, Yamada K, Randolph MA, Solari MG, Gazelle GS, Wu A, Sachs DH, Lee WPA. Boston, MA. Jan 31, 2001.
11. 2001 Joint Meeting of the American Society of Transplantation and American Society of Transplant Surgeons. Intravascular In Utero Injection of Adult Bone Marrow Leads to Acceptance of Full MHC Mismatched Kidney Allografts. **Mathes DW**, Yamada K, Randolph MA, Solari MG, Wu A, Sachs DH, Lee WPA. Chicago, IL. May 11-16, 2001.
  12. 2001 Joint Meeting of the American Society of Transplantation and American Society of Transplant Surgeons. Split Tolerance Observed in Limb Tissue Allografts in Swine Treated with a 12-day course of Cyclosporine. **Mathes DW**, Randolph MA, Solari MG, Nazzal J, Sachs DH, Lee WPA. Presented as poster and oral presentation. Chicago, IL. May 11-16, 2001.
  13. 87<sup>th</sup> Annual Clinical Congress of the American College of Surgeons, Surgical Forum. Intravascular In Utero Injection of Adult Bone Marrow Leads to Acceptance of Fully Mismatched Composite Tissue Allografts. **Mathes DW**, Randolph MA, Solari MG, Nazzal JA, Svennevik E, Gazelle GS, Sachs DH, Lee WPA. New Orleans, LA. Oct 7-12, 2001.
  14. University of Washington Transplant Division Symposium. Composite Tissue Transplantation: Present Status and Future. **Mathes DW**. Seattle, WA. Sep 3, 2006.
  15. 45<sup>th</sup> Annual Meeting of the Northwest Society of Plastic Surgeons. Survey of The Current State of Upper Extremity Replantation in North America. **Mathes DW**, Hatlef D, Saint-Cyr M. Lana'i Island, HI. Feb 17-21, 2007.
  16. American Association for Hand Surgery Annual Meeting. Survey of The Current State of Upper Extremity Replantation in North America. **Mathes DW**, Hatlef D, Saint-Cyr M. Beverly Hills, CA. Jan 9-12, 2008.
  17. American Society of Reconstructive Microsurgery Annual Meeting, Survey on Current Attitudes Towards Composite Tissue Transplantation in North America Among Burn and Plastic Surgeons, **Mathes DW**, Ploplys E, Beverly Hills, CA. Jan 9-12, 2008.
  18. 46<sup>th</sup> Annual Meeting of the Northwest Society of Plastic Surgeons. A Feasibility Study Regarding Construction of a Composite Eyelid Flap. Edwards J, Neligan PC, **Mathes DW**. Big Island, HI. Feb 2-6, 2008.
  19. 46<sup>th</sup> Annual Meeting of the Northwest Society of Plastic Surgeons. Patient Body Mass Index and Perforator Quality in Abdomen-based Microsurgical Breast Reconstruction, Scott J, Liu D, Keyes K, Isik, F, **Mathes DW**. Big Island, HI. Feb 2-6, 2008.
  20. 2008 Annual Meeting of the Plastic Surgery Research Council. A Survey of North American Hand Surgeons On Their Current Attitudes Towards Hand Allograft Transplantation. Schlenker R, Ploplys E, **Mathes DW**. Springfield, IL. May 28-31, 2008.
  21. 2008 Annual Meeting of the Plastic Surgery Research Council. Pre-Clinical Canine Model for Composite Tissue Transplantation. **Mathes DW**, J Edwards, T Miwongtum, S Graves, R Storb, Springfield, IL. May 28-31 2008.
  22. 2008 Annual Meeting of the Plastic Surgery Research Council. A Feasibility Study Regarding Construction of a Composite Eyelid Flap. Edwards J, Neligan PC, **Mathes DW**. Springfield, IL. May 28-31, 2008.
  23. 2008 Annual Meeting of the Plastic Surgery Research Council. Sexual Function after Vaginal Reconstruction. Scott J, Liu D, **Mathes DW**. Springfield, IL. May 28-31, 2008.
  24. 2008 American Transplant Congress. Awarded Poster of Distinction: Survey on Current Attitudes Towards Composite Tissue Transplantation in North America Among Burn and Plastic Surgeons, **Mathes DW**, Ploplys E. Toronto, Canada. May 31-Jun 4, 2008.
  25. 2009 Annual Meeting of the American Society of Reconstructive Microsurgery. Tolerance to a Composite Tissue Allograft After the Induction of Mixed Chimerism in a Pre-clinical Large Animal Model. **Mathes DW**, Edwards J, Scott J, Miwongtum T, Graves S, Storb R. Maui, HI. Jan 7-13, 2009.
  26. 2009 Annual Meeting of the American Society of Reconstructive Microsurgery. CT Angiography in Planning Abdominal Based Microsurgical Reconstruction: A Comparison to Duplex Ultrasound.

- Scott J, Liu D, Said HK, Neligan PC, **Mathes DW**. Maui, HI. Jan 7-13, 2009.
27. 2009 Annual Meeting of the American Society of Reconstructive Microsurgery. An Innervated Eyelid Flap for Future Allotransplantation: An Anatomic Study. **Mathes DW**, Edwards J, Neligan PC. Maui, HI. Jan 7-13, 2009.
  28. 2009 Combined Meeting of the American Society of Reconstructive Microsurgery and the American Society of Reconstructive Transplantation. Prosthetics vs. Transplantation vs. Tissue Engineering: Strength and Weaknesses and the Center for the Upper Limb Amputee of the Future: The Case for Transplantation. **Mathes DW**. Maui, HI. Jan 7-13, 2009.
  29. 2009 Annual Meeting of the Society of Black Academic Surgeons. **Mathes DW**. Perforator Based Breast Reconstruction. Seattle, WA. April 3, 2009.
  30. Mixed Chimerism Investigators' Meeting, Fred Hutchinson Cancer Research Center. Mathes DW. Tolerance to Composite Tissue Allografts after the Induction of Stable Mixed Chimerism. Seattle, WA. May 7, 2009.
  31. 2009 Annual Meeting of the Plastic Surgery Research Council. Tolerance to Composite Tissue Allografts After The Induction of Mixed Chimerism in a Pre-Clinical Large Animal Model. **Mathes DW**, Edwards JE, Miwongtum T, Graves S, Storb R. Pittsburgh, PA. May 27-30, 2009.
  32. 2009 Annual Meeting of the Plastic Surgery Research Council. Multivariate Predictors of Wound Recurrence after Pressure Ulcer Flap Coverage Keyes K, Daniali L, Warner KJ, **Mathes DW**. Pittsburgh, PA. May 27-30, 2009. Pittsburgh, PA. May 27-30, 2009.
  33. 2009 Annual Meeting of the Plastic Surgery Research Council. Effect of Preoperative Magnetic Resonance Imaging Diagnosis of Osteomyelitis on the Surgical Management and Outcomes of Pressure Ulcers. Daniali LN, Keyes K, Katz D, **Mathes, DW**. Pittsburgh, PA. May 27-30, 2009.
  34. 2009 American Transplant Congress. **Mathes DW**, Edwards JA, Miwongtum T, Graves S, Storb R. Tolerance to a Composite Tissue Allografts after the Induction of Mixed Chimerism in a Pre-Clinical Large Animal Model. Boston, MA. June 1, 2009.
  35. 2009 Harkins Surgical Symposium. **Mathes, DW**. Perforator based breast reconstruction. Seattle, WA. Oct 30, 2009.
  36. 2010 Annual Meeting of the American Society of Reconstructive Microsurgery. Chair and Session Moderator for the joint symposium of the American Society of Reconstructive Microsurgery and the American Society of Reconstructive Transplantation, *Clinical Update in Reconstructive Transplantation: Where Do We Stand*. Boca Raton, FL. January 12, 2010.
  37. 2010 Annual Meeting of the American Society of Reconstructive Microsurgery. Moderator, Basic Science Paper Session E. Boca Raton, FL. January 12, 2010.
  38. 2010 Annual Meeting of the American Society of Reconstructive Microsurgery. The use of Transverse Upper Gracilis (TUG) Flap for Breast Reconstruction. Leo KW, Neligan PC, **Mathes DW**. Boca Raton, FL. January 12, 2010.
  39. 89th Annual Meeting of the American Association of Plastic Surgeons. A Cadaver Study of Facial Composite Tissue Flaps: Anatomic and Technical Considerations for the Transplantation of Distinct Facial Units. Sunderland I, **Mathes DW**. San Antonio, TX. Mar 20-23, 2010.
  40. 2010 Annual Meeting of the Plastic Surgery Research Council. **Mathes DW**, Edwards JA, Miwongtum T, Hwang B, Graves S, Storb R. Tolerance to composite tissue allografts in a clinically relevant large animal model. San Francisco, CA. May 23-26, 2010.
  41. 2010 Annual Meeting of the Plastic Surgery Research Council. Keys KA, Said HK, Louie O, Neligan PC, **Mathes DW**. Clinical utility of CTA in DIEP free flap reconstruction. San Francisco, CA. May 23-26, 2010.
  42. 2010 Annual Meeting of the Plastic Surgery Research Council. Liu DZ, Mathes DW, Isik FF, Sullivan SR. Head and neck malignant melanoma: Local recurrence following wide local excision and immediate reconstruction. San Francisco, CA. May 23-26, 2010.
  43. 2010 Annual Meeting of the Plastic Surgery Research Council. Louie O, Leo K, Neligan PC, Said HK, **Mathes DW**. The use of Alloderm versus Flex HD in implant based breast reconstruction. San Francisco, CA. May 23-26, 2010.
  44. 2010 Annual Meeting of the Plastic Surgery Research Council. Leo K, Neligan PC, Said HK, Louie

- O, **Mathes DW**. Use of computed tomographic angiography for breast reconstruction: Patient body mass index, perforator quality and branching patterns. San Francisco, CA. May 23-26, 2010.
45. 2010 Annual Meeting of the American Society of Plastic Surgery. Clinical Utility of CT Angiography in DIEP Free Flap Reconstruction Keyes, K and **Mathes DW**. Toronto, ON. Oct 4, 2010.
  46. 2010 Annual Meeting of the American Society of Plastic Surgery. **Mathes DW**. Immune Tolerance for Transplantation of the Hand and Face. In: Panel on Foundation for the Future of Plastic Surgery - Cutting-Edge Research at the Frontier of Investigation and Innovation. Toronto, ON. Oct 4, 2010.
  47. 2010 Annual Clinical Congress of the American College of Surgeons. Co-Moderator: Plastic Surgery II. Washington, DC. Oct 7, 2010.
  48. 2011 Annual Meeting of the American Society for Reconstructive Microsurgery. Moderator: Break-Out Session on Face Transplantation. Cancun, Mexico. Jan 15-18, 2011.
  49. 2011 Annual Meeting of the American Society for Reconstructive Microsurgery. **Mathes DW**. Tolerance Induction in Composite Tissue Allotransplantation. Cancun, Mexico. Jan 15-18, 2011.
  50. 2011 Annual Meeting of the American Society for Reconstructive Microsurgery. Chair: American Society of Reconstructive Transplantation Update. Cancun, Mexico. Jan 15-18, 2011.
  51. 2011 Annual Meeting of the American Society for Reconstructive Microsurgery. Research Update from the Bi-Annual Meeting of the American Society of Reconstructive Transplantation Update. Cancun, Mexico. Jan 15-18, 2011.
  52. 2012 Clinical Congress of the American College of Surgeons, Chang J, Hwang B, Butts T, Graves S, Storb R, **Mathes DW**, Involvement of regulatory T-cells in Tolerance Towards Vascularized and Non-vascularized Skin Allograft Transplants. Chicago, IL, September 30 to October 4, 2012
  53. 2012 Clinical Congress of the American College of Surgeons, Chang J, Butts T, Graves S, Storb R, **Mathes DW**, Long-term Tolerance after Transplantation of Mismatched Vascularized Composite Allografts without the Use of Chronic Immunosuppression. Chicago, IL, September 30 to October 4, 2012
  54. 2012 Clinical Congress of the American College of Surgeons, Chang J, Hwang B, Butts T, Graves S, Storb R, **Mathes DW**, Long-term Tolerance Towards Vascularized Composite Allografts is Due to Naturally Derived T-cells. Chicago, IL, September 30 to October 4, 2012
  55. 2012 Annual Meeting of the American Society of Reconstructive Microsurgery, Chang J, Hwang B, Butts T, Graves S, Storb R, **Mathes DW**, T-Regulatory Cells May Mediate Tolerance Towards both Vascularized and Non-vascularized Skin Allograft Transplants. Las Vegas, NV, January 14-1, 2012
  56. 2012 Annual Meeting of the Plastic Surgery Research Council. Chang J, Butts T, Graves SG, Storb R, **Mathes DW**. Transplantation of Vascularized Composite Allografts in a Mismatched Setting Without the Need for Chronic Immunosuppression. Ann Arbor, MI. Jun 14-16, 2012.
  57. 2012 Annual Meeting of the Plastic Surgery Research Council. Chang J, Butts T, Graves SG, Storb R, **Mathes DW**. Involvement of T-regulatory Cells in Tolerance Towards a Vascularized and Non-Vascularized Skin Allograft Transplants. Ann Arbor, MI. Jun 14-16, 2012.
  58. 2012 Annual Meeting of the Plastic Surgery Research Council. Dubbins JA, Feczko R, Calhoun K, Louie O, Neligan PC, Said HK, **Mathes DW**. Comparison of Outcomes in Immediate Implant Based Breast Reconstruction Versus Mastectomy Alone. Ann Arbor, MI. Jun 14-16, 2012.
  59. 2012 American Society of Plastic Surgery Symposium: Challenging Complications In Plastic Surgery—Successful Management Strategies. Device Failure: Replace or Remove? Washington, DC. Jul 13-14, 2012.
  60. 2012 American Society of Plastic Surgery Symposium: Challenging Complications In Plastic Surgery—Successful Management Strategies. The Flap Has Changed: Salvage Maneuvers and Alternative Options. Washington, DC. Jul 13-14, 2012.
  61. 2012 American Society of Plastic Surgery Symposium: Challenging Complications In Plastic Surgery—Successful Management Strategies. Panelist: Implant Based Reconstruction and Breast Augmentation. Washington, DC. Jul 13-14, 2012.
  62. 2012 American Society of Plastic Surgery Symposium: Challenging Complications In Plastic Surgery—Successful Management Strategies. Panelist: Augmentation Mastopexy. Washington, DC.

Jul 13-14, 2012.

63. 2012 American Society of Plastic Surgery Symposium: Challenging Complications In Plastic Surgery—Successful Management Strategies. Panelist: Complications in Breast Reconstruction. Washington, DC. Jul 13-14, 2012.
64. 2012 American Society of Plastic Surgery Symposium: Challenging Complications In Plastic Surgery—Successful Management Strategies. Panelist: Acellular Dermal Matrices—Managing Morbidities and Optimizing Outcomes Washington, DC. Jul 13-14, 2012.
65. 2013 Annual Meeting of the Plastic Surgery Research Council, **Mathes DW**, Furukawa M, Anazi Y, Evaluation of Facial Artery on CT Angiography Using 64 Slice MDCT: Implications for Facial Reconstruction in Plastic Surgery. Los Angeles, CA, May 2-4, 2013
66. 2013 Annual Meeting of the Plastic Surgery Research Council, Chang J, Swearingen B, Hwang, B, Butts T, Graves SG, Storb R, **Mathes DW**. The Use of Mobilized Stem Cells More Reliably Induces Tolerance to Vascularized Composite Allografts in a Mismatched Dogs Compared to Bone Marrow. Los Angeles, CA, May 2-4, 2013
67. 2013 Annual Meeting of the Plastic Surgery Research Council, Swearingen B, Chang J, Hwang, B, Butts T, Graves SG, Storb R, **Mathes DW**. Mismatched VCA Transplantation Without the Need for Donor Cell Chimerism: A Model to Achieve Tolerance While Eliminating Chronic Immunosuppression and the Risks of GVHD. Los Angeles, CA, May 2-4, 2013
68. 2013 Annual Meeting of the Plastic Surgery Research Council, Um G, Chang J, Louie O, Said HK, Colohan S, Neligan P, **Mathes DW**, Review of Outcomes After the Use of the Implantable Cook Doppler Probe Versus The Synovis Flow Coupler. Los Angeles, CA, May 2-4, 2013
69. 2013 World Society for Reconstructive Microsurgery Meeting, Um G, Louie O, Said HK, Neligan PC, **Mathes DW**, Implantable Cook Doppler Vs. Synovis Flow Coupler Use in Perforator-Based Breast Reconstruction for Post-Operative Free Flap Monitoring: Outcomes and Realibility. Chicago IL, July 11-14, 2013
70. 2013 World Society for Reconstructive Microsurgery Meeting, **Mathes DW**, Swearingen B, Chang J, Graves S, Storb R, A Clinically Applicable Tolerance Protocol to Induce Tolerance to Vascularized Composite Allografts Without the Need for Persistent Donor Cell Chimerism. Chicago IL, July 11-14, 2013
71. 2013 Clinical Congress of the American College of Surgeons, Reconstruction of Sternal Wounds with and without Rigid Plate Fixation, Lipira AB, Hayes AG, Said HK, Louie O, Neligan PC, **Mathes DW**, Washington, D.C., October 6 - 9, 2013
72. 2013 Clinical Congress of the American College of Surgeons, Swearingen B, Chang J, Graves S, Butts T, Storb R, **Mathes DW**. A Clinically Applicable Tolerance Protocol to Induce Tolerance to Vascularized Composite Allografts Without the Need for Persistent Donor Cell Chimerism. Washington, D.C., October 6 - 9, 2013
73. 2013 Clinical Congress of the American College of Surgeons, Um G, Louie O, Said HK, Neligan PC, **Mathes DW**, Implantable Cook Doppler Vs. Synovis Flow Coupler Use in Perforator-Based Breast Reconstruction for Post-Operative Free Flap Monitoring: Outcomes and Realibility. Washington, D.C., October 6 - 9, 2013
74. 2014 Cutting Edge of Transplantation Meeting, Swearingen B, Chang J, Hwang, B, Butts T, Graves SG, Storb R, **Mathes DW**. Achieving Tolerance in a Mismatched VCA Transplant While Reducing the Risk of GVHD: The Goal of Transient Chimerism. Chandler, AZ, February 13 – 15, 2014
75. 59<sup>th</sup> Annual Meeting of the Plastic Surgery Research Council, Swearingen B, Chang J, Butts T, Graves S, Storb R, **Mathes DW**. Achieving Tolerance in a Mismatched VCA Transplant While Reducing the Risk of GVHD: Goal of Transient Chimerism New York, NY, March 7-9, 2014
76. 2014 World Transplant Congress, Swearingen B, Chang J, Butts T, Graves S, Storb R, **Mathes DW**. Achieving Tolerance in a Mismatched VCA Transplant While Reducing the Risk of GVHD: Goal of Transient Chimerism (Poster). San Francisco, July 26-31, 2014
77. 2014 World Transplant Congress, Swearingen B, Chang J, Butts T, Graves S, Storb R, **Mathes DW**. Extended Immunosuppression Therapy in Non-Myeloablative Conditioning Regimen: Achieving Tolerance in VCA While Reducing Risk of GVHD (Poster). San Francisco, July 26-31, 2014



78. Swearingen B, Graves S, Storb R, **Mathes DW**. AMD3100 (Plerixafor) As A Single-Dose Stem Cell Mobilizing Agent In Vascularized Composite Tissue Allograft (VCA) Transplantation In A Canine Haploidentical Model" Poster American Society for Reconstructive Transplantation (ASRT) 5th Biennial Meeting, Chicago, IL, November 3-5, 2016
79. Swearingen B, Graves S, Storb R, **Mathes DW**, AMD3100 (Plerixafor) As A Single-Dose Stem Cell Mobilizing Agent In Vascularized Composite Tissue Allograft (VCA) Transplantation In A Canine Haploidentical Model, Joint Meeting American Association of Plastic Surgeons (AAPS) and Plastic Surgery Research Council (PSRC) New York, NY May 19-22, 2016
80. Swearingen B, Graves S, Storb R, **Mathes DW**, AMD3100 (Plerixafor) As A Clinically Relevant Stem Cell Mobilizing Agent In Vascularized Composite Tissue Allograft (VCA) Transplantation" *Poster* The Transplantation Society (TTS) 26<sup>th</sup> International Congress Hong Kong, August 18-23, 2016
81. Swearingen B, Graves S, Storb R, **Mathes DW**, AMD3100: Single-Dose Stem Cell Mobilizing Agent In Vascularized Composite Tissue Allografts In Canine". 12th Annual Academic Surgical Congress (ASC) Las Vegas, NV, February 7-9, 2017
82. Swearingen B, Scott S, Storb R, **Mathes DW**, A Clinically Relevant Protocol for Vascularized Composite Allotransplantation Using A Single Dose of AMD3100 for Stem Cell Mobilization. Poster American Transplant Congress (ATC), Chicago, IL, April 29- May 3, 2017
83. Swearingen B, Scott S, Storb R, **Mathes DW**, A Clinically Relevant Protocol for Vascularized Composite Allotransplantation Using A Single Dose of AMD3100 for Stem Cell Mobilization. Plastic Surgery Research Council (PSRC) 62nd Annual Meeting, Durham, NC May 4-7, 2017
84. Yoeli D, Wang Y, Li B, Huang J, Jain S, Wang Z, Nakra N, Yang JH, Rampalski K, Su A, **Mathes DW**, Washington K, Farkash E, Jani A, Huang C. Machine Perfusion of Vascularized Composite Allografts in Small Animal Model. Accepted for Podium Presentation at The American Society for Reconstructive Transplantation 2021 Meeting. Nov 2021. (\*Planned presentation by Yoeli D)
85. Yang JH, Colakoglu S, French M, Winocour J, Um G, Blumenauer B, Siddikoglu D, Mureau M, Chong TW, Higdon K, Perdakis G, Inchauste S, Kaoutzanis C, **Mathes DW**. Importance of Incidental Findings in Preoperative Computed Tomography Angiography for Abdominal-Based Free Flap Breast Reconstruction: A Multi-Institutional Study. Podium Presentation at PSTM 2021. Oct 2021. (\*Presented by Yang JH)
86. Tuano KR, Yang JH, Le E, Colakoglu S, Cohen JB, Kaoutzanis C, Chong T, **Mathes DW**. Venous Thromboembolism after Deep Inferior Epigastric Perforator Flap Breast Reconstruction: Review of Outcomes after a Postoperative Prophylaxis Protocol. Quickshot Presentation at PSRC 2021. Virtual. Jun 2021. (\*Presented by Tuano KR)
87. Yang JH, Colakoglu S, Mureau AM, Johnson AC, Cohen JB, Chong T, **Mathes DW**, Kaoutzanis C. Subxiphoid and Midline Epigastric Incisions Can be Associated with Higher Umbilical Complications Following DIEP Flap Harvest. Oral Presentation at Mountain West Society of Plastic Surgeons Annual Meeting 2021. Virtual. Mar 2021. (\*Presented by Yang JH)
88. Yang JH, Colakoglu S, French M, Winocour JS, Constantine R, Jackson K, Higdon KK, Perdakis G, Um GT, Inchauste SM, Chong T, Kaoutzanis C, **Mathes DW**. Impact of Incidental Findings on CT Angiography for Pre-Operative Mapping for Abdominal-Based Free Flap Breast Reconstruction: A Multi-Institutional Study. Oral Presentation at Mountain West Society of Plastic Surgeons Annual Meeting 2021. Virtual. Mar 2021. (\*Presented by Constantine R)
89. Johnson AC, Tuano KR, Yang JH, Colakoglu S, Siddikoglu D, Li A, Kaoutzanis C, Cohen JB, Chong T, **Mathes DW**. Impact of Dermal Matrix Brand in Implant-Based Breast Reconstruction Outcomes. Oral Presentation at Mountain West Society of Plastic Surgeons Annual Meeting 2021. Virtual. Mar 2021. (\*Presented by Mundra L)
90. Tuano KR, Yang JH, Le E, Colakoglu S, Cohen JB, Kaoutzanis C, Chong T, **Mathes DW**. Venous Thromboembolism after Deep Inferior Epigastric Perforator Flap Breast Reconstruction: Review of Outcomes after a Postoperative Prophylaxis Protocol. Presentation at Mountain West Society of Plastic Surgeons Annual Meeting 2021. Virtual. Mar 2021. (\*Presented by Tuano KR)

91. French M, Yang JH, Colakoglu S, Winocour J, Um G, Blumenauer B, Siddikoglu D, Mureau M, Chong TW, Higdon K, Perdakis G, Inchauste S, Kaoutzanis C, **Mathes DW**. Importance of Incidental Findings in Preoperative Computed Tomography Angiography for Abdominal-Based Free Flap Breast Reconstruction: A Multi-Institutional Study. Poster Presentation at Annual Department of Surgery Schilling Research Symposium. Seattle, WA. Mar 2021. (\*Presented by French M.)
92. Lee, N, Garoosi, K, Khatter, NJ, Tuano, KR, Le, ELH, Winocour, J, **Mathes, DW**, Iorio, ML, Kaoutzanis, C. Analysis of Complications in Patients with a History of Cannabis Use and Tobacco Use Undergoing Implant-based or Autologous Tissue Breast Reconstruction. *American Society for Reconstructive Microsurgery (ASRM)*. Miami, FL (USA). Jan 2023.
93. Garoosi, K; Kennis, M, Tevis, S, Winocour, J, **Mathes, D**, Kaoutzanis, C. Post-Operative Complications in Coordinated Versus Staged Risk-Reducing Gynecologic and Reconstructive Breast Surgeries. 8th Annual Meeting of the Mountain West Society of Plastic Surgeons (MWSPPS), Crested Butte, CO (USA). Feb 2023.

### **INTERNATIONAL INVITED LECTURES AND ABSTRACTS**

1. XVII International Congress of The Transplantation Society. In utero induction of transplantation tolerance. **Mathes DW**, Yamada K, Randolph MA, Utsugi R, Solari MG, Gazelle GS, Wu A, Sachs DH, Lee WPA. Rome, Italy. Aug 27-Sep 1, 2000.
2. XVII International Congress of The Transplantation Society. Tolerance to vascularized musculoskeletal allograft. **Mathes DW**, Bourget JL, Randolph MA, Solari MG, Wu A, Sachs DH, Lee WPA. Rome, Italy. Aug 27-Sep 1, 2000.
3. 2009 Annual Meeting of the World Society of Reconstructive Microsurgery. Moderator, Transplantation Scientific Session. Okinawa, Japan. June 25-27, 2009.
4. 2009 Annual Meeting of the World Society of Reconstructive Microsurgery. Participant, Transplantation Panel. Topic: Surveys on Current Attitudes Towards Composite Tissue Transplantation (Hand and Face Transplantation). Okinawa, Japan. June 25-27, 2009.
5. 2009 Annual Meeting of the World Society of Reconstructive Microsurgery. Participant, Microsurgical Breast Reconstruction Panel. Topic: CT Angiography in Planning Abdomen-based Microsurgical Breast Reconstruction. Okinawa, Japan. June 25-27, 2009.
6. 2009 Annual Meeting of the World Society of Reconstructive Microsurgery. Tolerance to a composite tissue allograft after the induction of mixed chimerism in a pre-clinical large animal model. **Mathes DW**, Edwards JE, Miwongtum T, Graves S, Storb R. Okinawa, Japan. June 25-27, 2009.
7. 77<sup>th</sup> Congress of Korean Society of Plastic and Reconstructive Surgeons. VCA transplantation and Large Animal Models of Tolerance. Seoul, South Korea. Nov 8-10, 2019.