

JENNIFER A. MURPHY

EDUCATION

- **University of Wisconsin Hospital & Clinics, Madison, Wisconsin**
Plastic Surgery Residency, June 2002-June 2008
- **University of Texas Medical Branch at Galveston, Galveston, Texas**
M.D., May 2002
- **Rice University, Houston, Texas**
M.S. Mechanical Engineering, May 1991
- **Lamar University, Beaumont, Texas**
B.S. Mechanical Engineering, May 1988

EXPERIENCE

- **Assistant Professor, Oregon Health and Sciences University (OHSU), September 2008 – Present.**
- **Plastic Surgery Residency, University of Wisconsin Hospital & Clinics (UWHC), 2002 – 2008.**
- **Research with Garet Lahvis, PhD. and Lynn Allen-Hoffmann, PhD., UWHC, 2005 – 2006:** 1. Research to determine the role of angiogenesis in CNS plasticity for mice with the fragile X gene mutation, 2. Research studying blood vessel growth in pro-angiogenic cultured skin substitutes.
- **Medical School, University of Texas, Galveston, Galveston, Texas, 1998 –2002.**
- **Research with Joseph B. Zwischenberger, M.D., UTMB, Division of Cardiothoracic Surgery, Galveston, Texas, 1998 – 2002:** Research utilizing large animal models to optimize extracorporeal carbon dioxide removal for patients with smoke/burn induced ARDS. Responsibilities included assisting in operations, critical care management of sheep with ARDS, data collection, and manuscript writing.
- **Consultant (1996 – 1997), Program Manager (1994 – 1996), Project Engineer (1990 – 1994), Space Industries, League City, Texas:** Responsibilities included design, fabrication, and testing of flight hardware, budgeting, scheduling, strategic planning, proposal writing, marketing, flight operations support, astronaut crew training, and management of 10-person team.
- **Graduate Student and Teaching Assistant, Rice University, Houston, Texas, 1988 –1990:** Conducted research to determine the thermal properties of high temperature liquid metals and taught civil engineering lab to undergraduates.
- **Summer Intern, Compaq Computer Corporation, Houston, Texas, 1987 – 1989(summers):** Tested and helped design prototype desktop computers analyzing cost feasibility, tooling, and overall mechanical reliability.
- **Lab and Teaching Assistant, Lamar University, Beaumont, Texas, 1988:** Operated and maintained lathes and milling machines in addition to instructing students.

PUBLICATIONS

- Murphy JA, Hanson SE, Gentry L, Mount DL. Distraction Osteogenesis for Post-Traumatic Segmental Mandibular Defects. In Progress.
- Murphy JA, Straseski JA, Pirnstill SC, Schaeve KK, Comer A, Allen-Hoffmann BL. A Genetically Engineered Pro-Angiogenic Human Skin Substitute Increases Vascularity in Grafted Wounds. In Progress.
- Ahmad J, Murphy JA, Gutowski KA. Humoral Hypercalcemia of Malignancy Complicating a Chronic Pressure Sore – A Unique Sequela of Marjolin’s Ulcer. In Progress.
- Weigel TL, Murphy J, Kabbani L, Ibele A, Chen H. Radioguided Thoracoscopic Mediastinal Parathyroidectomy with Intraoperative Parathyroid Hormone Testing. Ann Thorac Surg. 2005 Oct;80(4):1262-5.
- Murphy JA, Savage CM, Alpard SK, Deyo DJ, Jayroe JB, Zwischenberger JB. Low-Dose versus High-Dose Heparinization During Arteriovenous Carbon Dioxide Removal. Perfusion. 2001 Nov;16(6):460-8.

- Jayroe JB, Alpard SK, Wang D, Deyo D, Murphy JA, Zwischenberger JB. Hemodynamic Stability During Arteriovenous Carbon Dioxide Removal for Adult Respiratory Distress Syndrome: A Prospective Randomized Outcomes Study in Adult Sheep, *ASAIO* 2001; 47(3):211-214.
- Murphy JA, Bayazitoglu Y. "Laser Flash Thermal Diffusivity Determination Procedure for High Temperature Liquid Metals", *Numerical Heat Transfer* 1992; 22(1):109-120.

TEACHING

- Invited Instructor, OHSU M1 Anatomy lab - anterolateral abdominal wall, 9/23/08
- Invited Instructor, OHSU M1 Anatomy lab - forearm/hand extensor tendons, 9/11/08

POSTERS/PRESENTATIONS

- Murphy JA. "Nasal Reconstruction", Oral Presentation, OHSU Plastic Surgery Grand Rounds, Portland, OR, December 1, 2008.
- Murphy JA. "Scalp Reconstruction", Oral Presentation, OHSU Plastic Surgery Grand Rounds, Portland, OR, October 27, 2008.
- Murphy JA, Straseski JA, Comer A, Allen-Hoffmann BL. "A Genetically Engineered Pro-Angiogenic Human Skin Substitute Increases Vascularity in Grafted Wounds", Oral Presentation, ASPS Senior Residents Conference, Washington DC, January 2008.
- Murphy JA, Straseski JA, Comer A, Allen-Hoffmann BL. "A Genetically Engineered Pro-Angiogenic Human Skin Substitute Increases Vascularity in Grafted Wounds", Oral Presentation, Plastic Surgery Research Council 52nd Annual Meeting, Stanford, CA, June 2007.
- Straseski JA, Murphy JA, Akhtar N, Comer A, Auerbach R, Allen-Hoffmann BL. "Pro-Angiogenic Properties of Genetically Engineered Human Keratinocytes", Oral Presentation, Plastic Surgery Research Council 52nd Annual Meeting, Stanford, CA, June 2007.
- Murphy JA, Straseski JA, Comer A, Allen-Hoffmann BL. "A Genetically Engineered Pro-Angiogenic Human Skin Substitute Increases Vascularity in Grafted Wounds", Oral Presentation, Wisconsin Society of Plastic Surgeons Annual Meeting, Milwaukee, WI, March 2007.
- Murphy JA, Straseski JA, Akhtar N, Allen-Hoffmann BL. "A Method to Quantify the Angiogenic Properties of Genetically Engineered Human Keratinocytes", Oral Presentation, Midwestern Association of Plastic Surgeons 44th Annual Meeting, Oakbrook, IL, April 29, 2006.
- Straseski J, Comer A, Nasim A, Murphy J, Pirmstill S, Allen-Hoffmann L. "Characterization of Human Keratinocytes Possessing Non-viral, Constitutive Expression of VEGF-165 for use in Therapeutic Skin Grafting", Poster Presentation, Society for Investigative Dermatology (SID) 2006 Annual Meeting, Philadelphia, PA, May 3, 2006.
- Murphy JA, Moreno KI, Lahvis GP. "The Relationship between Capillary Density and Cellular Activity in a Mouse Model of Fragile X Syndrome", Oral Presentation, UW Department of Surgery 4th Friday Research Seminar, Madison, WI, October 21, 2005, UW Plastic Surgery Grand Rounds, Madison, WI, September 30, 2005.
- Murphy JA. "Nasal Reconstruction", Oral Presentation, UW Plastic Surgery Grand Rounds, Madison, WI, September 23, 2005.
- Murphy JA. "Immediate Breast Reconstruction: Indications and Contraindications", Oral Presentation, UW Breast Cancer Tumor Board, Madison, WI, May 2, 2005.
- Murphy JA, Hanson SE, Mount DL, Gentry L. "Distraction Osteogenesis for Post-Traumatic Segmental Mandibular Defects", Oral Presentation, Midwestern Association of Plastic Surgeons 43rd Annual Meeting, Chicago, IL, May 2005.
- Weigel TL, Murphy J, Kabbani L, Ibele A, Chen H. "Radioguided Thoracoscopic Mediastinal Parathyroidectomy with Intraoperative Parathyroid Hormone (IPTH) Monitoring", Poster Presentation, Society of Thoracic Surgeons 41st Annual Meeting, Tampa, FL, January 24, 2005.
- Walden JL, Murphy J, Champion AF, Phillips LG. "Autologous Tissue Breast Reconstruction in the Obese: A Twelve Year Review of Our Experience in a South Texas Patient Population", Oral Presentation, American Society of Plastic Surgeons, San Antonio, TX, 2002.
- Murphy JA. "Intrinsic Muscle Tightness in Rheumatoid Arthritis", Oral Presentation, UTMB Hand Conference, Galveston, TX, July 2001.

- Murphy JA, “Low Versus High-Dose Heparinization during Arteriovenous Carbon Dioxide Removal in an Ovine Model of ARDS”, Oral Presentation, National Student Research Forum, Galveston TX, April 2000, Poster Session, UTMB Student Research Poster Session, June 1999.

HONORS & AWARDS

Residency: 2nd Place – Midwestern Association of Plastic Surgeons, Basic Science Presentation, 2006
 Research Fellowship, 2005 – 2006
 Transplant Surgery Intern of the Year Runner-up, 2002

Medical School: Graduate with Honors, 2002
 Herman A. Barnett Memorial Award in Surgery/Anesthesia, 2002
 Member AOA, 2001 – 2002
 National Student Research Forum, Surgery Award, 2000
 Association of Women Surgeons, Student Liaison 2001 – 2002
 Honors Coursework: Gross Anatomy & Radiology, GI/Digestion/Nutrition, Practice of Medicine (2 terms), Medical Jurisprudence, Obstetrics & Gynecology, Otolaryngology, Pediatrics, Neurology, Dermatology

Graduate: Rice University Fellow, 1988 – 1990

Undergraduate: Magna Cum Laude Graduate, 1988
 Tau Beta Pi National Engineering Honor Society, 1987 – 1988
 Pi Tau Sigma National Honorary Mechanical Engineering Fraternity 1986 – 1988,
 President 1987 - 1988
 American Society of Mechanical Engineers, 1986 – 1988, Program Chairman 1987 – 1988
 American Society of Heating Refrigeration and Air Conditioning Engineers,
 President, Scholarship 1987
 Full Athletic Scholarship in Basketball, 1983 – 1987
 First-Team Academic All-American in Basketball, 1985

OTHER ORGANIZATIONS & ACTIVITIES

Current: Oregon Society of Plastic Surgeons, November 2008 - present

Residency: American Society of Plastic Surgeons, 2004 – 2008
 Co-ed intramural soccer, 2005

Medical School: Alliance of Internal Medicine, 1998 – 2002
 American Medical Association, 1998 – 2002
 Intramural Basketball, 1999

Post-Graduate: Volunteer, Hermann Hospital/University of Texas Houston Medical School, Division of Cardiology, Houston, Texas, 1997 – 1998
 Volunteer, Habitat for Humanity, Houston, Texas, 1995
 Volunteer, Houston Food Bank, Houston, Texas, 1994 – 1998

Graduate: Rice University Cycling Team, 1989 – 1990

Undergraduate: Lamar University Cross Country Track Team 1987 – 1988

INTERESTS

Enjoy basketball, snow skiing, hiking, and almost all sports except running, travel, music, drawing/painting & sculpting clay