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Education

PH.D. MECHANICAL ENGINEERING, JUNE 2002
Stanford University, Stanford, CA

M.S.E. BIOMECHANICAL ENGINEERING, DECEMBER 1997
Stanford University, Stanford, CA

B.S. MECHANICAL ENGINEERING, JUNE 1995
University of California, Davis, CA

University Leadership and Service

Provost and Vice President for Academic Affairs, Southern Methodist University, 2020 – present
Vice Chancellor for Strategic Partnerships, University of Missouri, 2018 – 2020
Dean and Ketcham Professor of the College of Engineering, University of Missouri, 2017 – 2020
Dean, College of Engineering, University of Missouri, 2015 – 2020
UM System Review Committee for Excellence in Research and Creative Works, University of Missouri System, Columbia, 2018 – 2020
Council of Leaders, University of Missouri System, Columbia, 2018 – 2020
MU Engagement Council, University of Missouri, Columbia, 2018 – 2020
Translational Precision Medicine Complex (TPMC, now called NextGen Precision Health Institute) Academic and Research Programming Group, University of Missouri System and University of Missouri, Columbia, 2018 – 2020
Coordinator, Precision Medicine Summit, University of Missouri System, Columbia, 2018
University of Missouri System Taskforce for Innovation, Entrepreneurship, Technology Commercialization and Industry Partnership, 2017 – 2020
Board of Directors, Missouri Innovation Center, 2016 – 2020
Co-Chair, University of Missouri, Chancellor Search Committee, 2017
Associate Chair/Department Head, UNC/NCSU Joint Department of Biomedical Engineering, 2013 – 2015
Biomedical Engineering Department Lead, NCSU Building Future Faculty Program, 2013 – 2015
Strategic Science Task Force, North Carolina State University, 2011 - 2012
Chair, Graduation Committee, UNC/NCSU Joint Department of Biomedical Engineering, 2006 – 2015
Chair, Biomaterials Graduate Curriculum Committee, UNC/NCSU Joint Dept. of Biomedical Engineering and NCSU Dept. of Materials Science & Engineering, 2009 – 2011
Core Leader, Translational Regenerative Medicine core, Center for Comparative Medicine and Translational Research, North Carolina State University, 2014 – 2015
Strategic Planning Committee, UNC/NCSU Joint Department of Biomedical Engineering, 2013 – 2015
Internal University Program Reviewer, Department of Physiology, North Carolina State University, 2014 – 2015
Chair, Biomaterials and Tissue Engineering Curriculum Committee, UNC/NCSU Joint Department of Biomedical Engineering, 2004 – 2005
Co-Chair, NCSU Regenerative Medicine Interest Group, 2012 – 2015
College Leadership Survey Committee, North Carolina State University, 2011 – 2012
Faculty Workload Committee, UNC/NCSU Joint Department of Biomedical Engineering, 2005 – 2007
Executive Committee, Center for Comparative Medicine and Translational Research, North Carolina State University, 2011 – 2015

Co-PI and Search Committee, Translational Regenerative Medicine Cluster Hire, North Carolina State University Colleges of Engineering, Textiles, and Veterinary Medicine, 2012 – 2013
 College of Engineering Faculty Development Committee, North Carolina State University, 2008 – 2011
 Research Advisory Board, Department of Orthopaedics, UNC-Chapel Hill, NC, 2009 – 2015
 Chair Search Committee, UNC/NCSU Joint Department of Biomedical Engineering, 2007 – 2009
 Research Committee, UNC/NCSU Joint Department of Biomedical Engineering, 2007 – 2011
 Search Committee, Rehabilitation Engineering Center Director, North Carolina State University, 2009
 Advisory Committee, Tissue Mechanics Laboratory, North Carolina State University, 2003 – 2015
 Faculty Search Committees (multiple), North Carolina State University and University of North Carolina at Chapel Hill, 2004 – 2015
 Selected Participant, Bridges Academic Leadership Program, 2011
 Selected Participant, NSF Advance Leadership Workshop, 2011
 Executive Committee, Sigma Xi, 2010 – present
 Departmental Representative, Biotechnology Program, UNC/NCSU Joint Department of Biomedical Engineering, 2005 – 2015
 Course and Curriculum Committee, UNC/NCSU Joint Department of Biomedical Engineering, 2003 – 2005
 Graduate Admissions Committee, UNC/NCSU Joint Department of Biomedical Engineering, 2004 – 2009

Board Membership, Committee and Symposia Contributions

Board of Directors, Applied Optoelectronics, Inc., 2020 - present
 Member, Global Engineering Deans Council, 2019 – 2020
 Member, American Society for Engineering Education Task Force on Graduate Education, 2019 – present
 Advisory Council, Education Counsel Societies Consortium on Sexual Harassment in STEMM, American Association for the Advancement of Science, 2019 – present
 Director, Deans Council Executive Board, American Society for Engineering Education, 2019 – 2020
 Ex-officio Member, Engineering Deans Council Public Policy Committee, American Society for Engineering Education, 2019 – present
 Advisory Board, AAU Strategy for Sexual Harassment and Gender Discrimination, 2019 – 2020
 Nominations Committee, American Institute for Medical and Biological Engineering (AIMBE), 2018 – present
 Executive Council, Tissue Engineering and Regenerative Medicine International Society – Americas (TERMIS-AM), 2017 – present
 Strategic Initiatives Committee, Orthopaedic Research Society, 2016 – 2017
 Chair, Biomedical Engineering Society (BMES) Cellular and Molecular Bioengineering Special Interest Group Council, 2016
 Chair Elect, Biomedical Engineering Society (BMES) Cellular and Molecular Bioengineering Special Interest Group Council, 2015
 Member-at-Large and Orthopaedic Research Society Board Member, Orthopaedic Research Society, 2015 – 2017
 Internal Advisory Committee of NASA Specialized Center of Research (NSCOR) at Wake Forest University, 2015 – present
 Governing Council, BMES Special Interest Group in Cell and Molecular Bioengineering (CMBE, previously SPRBM), 2011 – present
 Endorsement Committee, Tissue Engineering and Regenerative Medicine International Society (TERMIS), 2011 – 2017
 Executive Committee, Sigma Xi Scientific Research Society, 2010 – present
 Steering Committee, North Carolina Tissue Engineering and Regenerative Medicine Society (NCTERMS), 2007 – 2015
 Solids Technical Committee, American Society of Mechanical Engineers Bioengineering Division, 2007 – present
 Session Chair and Moderator, multiple sessions at Annual Meetings of the Biomedical Engineering Society, Orthopaedic Research Society, Tissue Engineering and Regenerative Medicine International Society, BMES-Cellular and Molecular Bioengineering Conference, North Carolina Tissue Engineering and

Regenerative Medicine Society, Hilton Head Regenerative Medicine Conference, ASME Summer Bioengineering Conference, Nanofibers for the 3rd Millennium, Institute of Biological Engineering *et al.*, 2007 – present

Reviewer and Judge, multiple abstracts at Annual Meetings of the Biomedical Engineering Society, Orthopaedic Research Society, Tissue Engineering and Regenerative Medicine International Society, BMES-Cellular and Molecular Bioengineering Conference, North Carolina Tissue Engineering and Regenerative Medicine Society, ASME Summer Bioengineering Conference, *et al.*, 2007 – present

Session Chair, 2017 BMES-Cellular and Molecular Bioengineering (CMBE) Conference: *Stem Cell Engineering and MechanoMicroenvironment for Regenerative Medicine*

Conference Chair, 2015 BMES-Cellular and Molecular Bioengineering (CMBE) Conference: *From Womb to Tomb: Mechanobiology of Generation, Regeneration, and Degeneration*

Chair, Nanotechnology and Tissue Engineering: Hope or Hype? New Horizon Workshop, 2014 Annual Meeting of the Orthopaedic Research Society

Conference Co-Chair, 2014 BMES-Cellular and Molecular Bioengineering (CMBE) Conference

Track Chair, Biomedical Engineering, ASME ESDA 2014 Biennial Conference

Program Committee and Session Chair, 2014 Swine in Biomedical Research International Conference

Organizing Committee and Poster Chair, 2nd International Tissue Science & Regenerative Medicine Conference, Raleigh NC, 2013

Program Committee, Nanofibers for the 3rd Millennium: A Summit of the World's Leaders in Nanofibers, 2010

Discussion Leader, Musculoskeletal Biology & Bioengineering Gordon Research Conference, 2010

Local Planning Committee, Annual Meeting of the Institute of Biological Engineering, 2008

Conference Chair, 10th Annual North Carolina Tissue Engineering and Regenerative Medicine Conference, 2008

Chair, *Tissue Engineering Parts A, B, and C* Young Investigator Council, 2013 – present

Editorial Board, *Current Stem Cell Reports*, 2015 – present

Editorial Board, *Scientific Reports*, Nature Publishing Group, 2014 – present

Editorial Board, *Biomedical Materials*, 2014 – present

Editorial Board, *Tissue Engineering Parts A, B, and C*, 2012 – 2019

Editorial Board, *Open Orthopaedics Journal*, 2011 – present

Professional Experience

2020 – PROVOST AND VICE PRESIDENT FOR ACADEMIC AFFAIRS, Southern Methodist University, Dallas, TX

2018 – 20 VICE CHANCELLOR FOR STRATEGIC PARTNERSHIPS, University of Missouri, Columbia, MO

2017 – 20 DEAN AND KETCHAM PROFESSOR OF THE COLLEGE OF ENGINEERING, University of Missouri, Columbia, MO

2015 – 20 DEAN AND PROFESSOR OF BIOENGINEERING, University of Missouri, Columbia, MO

2015 – 20 ADJUNCT PROFESSOR, Joint Department of Biomedical Engineering at UNC-Chapel Hill and NC State University; Department of Materials Science and Engineering, NC State University, Raleigh, NC

2015 FOUNDER, PrecisiBand, Raleigh, NC.

2003 – 15 DIRECTOR, Cell Mechanics Laboratory, Joint Department of Biomedical Engineering at UNC-Chapel Hill and NC State University, Raleigh, NC

2014 – 15 ADJUNCT PROFESSOR, Departments of Biotechnology, Physiology, and Fiber and Polymer Science, North Carolina State University, Raleigh, NC; Department of Orthopaedics and Curriculum in Oral Biology, UNC-Chapel Hill, Chapel Hill, NC

2014 – 15 PROFESSOR, Joint Department of Biomedical Engineering at UNC-Chapel Hill and NC State University; Department of Materials Science and Engineering, NC State University, Raleigh, NC

2013 – 15 ASSOCIATE CHAIR, Joint Department of Biomedical Engineering at UNC-Chapel Hill and NC State University, Raleigh, NC

2010 – 14 ASSOCIATE PROFESSOR, Department of Materials Science and Engineering, North Carolina State University, Raleigh, NC

- 2009 – 14 ASSOCIATE PROFESSOR, Joint Department of Biomedical Engineering at UNC-Chapel Hill and NC State University, Raleigh, NC
- 2009 – 14 ADJUNCT ASSOCIATE PROFESSOR, Departments of Biotechnology, Physiology, and Fiber and Polymer Science, North Carolina State University, Raleigh, NC; Department of Orthopaedics and Curriculum in Oral Biology, UNC-Chapel Hill, Chapel Hill, NC
- 2006 – 09 ADJUNCT ASSISTANT PROFESSOR, Fiber and Polymer Science, College of Textiles, North Carolina State University, Raleigh, NC
- 2005 – 09 ADJUNCT ASSISTANT PROFESSOR, Orthopaedics Department, UNC-Chapel Hill, Chapel Hill, NC
- 2003 – 09 ASSISTANT PROFESSOR, Joint Department of Biomedical Engineering at UNC-Chapel Hill and NC State University, Raleigh, NC
- 2002 – 03 ACTING ASSISTANT PROFESSOR, Department of Mechanical Engineering, Stanford University, Stanford, CA
- 1997 – 02 RESEARCH ASSISTANT AND PH.D. CANDIDATE, Biomechanical Engineering Division, Department of Mechanical Engineering, Stanford University, Stanford, CA
- 1996 – 00 BIOMEDICAL ENGINEER, Rehabilitation Research and Development Center, Veterans Administration Health Care System, Palo Alto, CA
- 1995 – 97 RESEARCH ASSISTANT AND M.S. CANDIDATE, Biomechanical Engineering Division, Department of Mechanical Engineering, Stanford University, Stanford, CA

Invited Lectures

1. **Loboa EG.** Invited speaker for ‘Universities of the Future: Building Institutional Resilience, Social Responsibility and Community Impact’ (July 2021). International Institute for Higher Education Research & Capacity Building (IIHed) of O.P. Jindal Global University (JGU). India.
2. **Loboa EG.** Q&A with Bioengineering Student Society - Lyle School of Engineering (Nov 2020) Southern Methodist University. Dallas, TX.
3. **Loboa EG.** A Conversation with Provost Loboa (Oct 2020). SMU Faculty Club. Southern Methodist University. Dallas, TX.
4. **Loboa EG.** Road to R-1 (Oct 2020). Economics Department Meeting. Southern Methodist University. Dallas, TX.
5. **Loboa EG.** Panelist for ‘Time to Lead: Women in STEM Forge the Way’ (Oct 2020). WittKieffer.
6. **Loboa EG.** Symposium on Engineering Teaching Excellence (Dec 2019). College of Engineering Dean’s Council for Teaching Excellence. University of Missouri. Columbia, MO.
7. **Loboa EG.** Importance of Tirelessly Supporting Innovation at Universities (Nov 2019). Women in Innovation and Technology Luncheon. Washington University. St. Louis, MO.
8. **Loboa EG.** Moderator, Working with Men to Change Perceptions and Break Down Barriers (Nov 2019). The Global Women in STEM Leadership Summit. Atlanta, GA.
9. **Loboa EG.** What’s Your Superpower (Nov 2019). The Global Women in STEM Leadership Summit. Atlanta, GA.
10. **Loboa EG.** Presenter and Panelist, Making Missouri a Center of Excellence for Workforce and Economic Development (Sep 2019). Governor’s Conference on Economic Development. St. Charles, MO.
11. **Loboa EG.** Engineering Biomedical Innovations for Cardiovascular Medicine (May 2019). Division of Cardiovascular Medicine Grand Rounds. University of Missouri. Columbia, MO
12. **Loboa EG.** Overview (Planning Process, TPMC Operational Plans and Expectations, Innovation Space and Corporate Relationships) (Feb 2019). Bringing the Vision to Life: Precision Medicine Initiative Progress Update. University of Missouri System. Columbia, MO.

13. **Loboa EG.** Panelist, Women in Science and Entrepreneurship (W.I.S.E.) KC Panel (Jan 2019). Women in Science & Entrepreneurship Networking Breakfast. BioNexus KC. Kansas City, MO.
14. **Loboa EG.** Critical Issue: Transformation at the University of Missouri System (Nov 2018). University of Missouri System. St. Louis, MO.
15. **Loboa EG.** Translational Precision Medicine Complex (TPMC) (Oct 2018). Missouri Community College Association's 15th Annual Luncheon. University of Missouri System. Columbia, MO.
16. **Loboa EG.** What your resume says about you (Sep 2018). Mizzou Fall 2018 College of Engineering Career Fair. University of Missouri. Columbia, MO.
17. **Loboa EG.** Tissue Engineering and Regenerative Medicine in the Age of Multi-Drug Resistant Bacteria (July 2018). 13th Annual International Conference on Tissue Engineering and Regenerative Medicine. Paris, France.
18. **Loboa EG.** Translational Precision Medicine Complex (TPMC) (June 2018). University of Missouri Precision Medicine Summit. University of Missouri System. Columbia, MO.
19. **Loboa EG.** Functional Tissue Engineering with Fat...and MRSA (Feb 2018). Department of Biological Sciences Seminar Series. Missouri S&T. Rolla, MO.
20. **Loboa EG.** Keynote Speaker, American Council of Engineering Companies of Missouri, Inc. (ACECMO) Winter Meeting (Feb 2018). Columbia, MO.
21. **Loboa EG.** 2017 Tissue Engineering and TERMIS Americas Workshop: How to Interview Well and Negotiate a Good Position (Dec 2017). 2017 TERMIS-Americas Annual Conference and Exhibition. Charlotte, NC.
22. **Loboa EG.** Panelist, The Coming-of-Age Story of Cell Therapy; Is the Field Mature Enough for Prime Time? (Dec 2017) 2017 TERMIS-Americas Annual Conference and Exhibition. Charlotte, NC.
23. **Loboa EG.** Keynote Speaker, The Importance of Women in STEM (Oct 2017). 2017 Women in Science and Entrepreneurship Conference. Kansas City, MO.
24. **Loboa EG.** Regenerative Medicine and MRSA – We Cannot Solve Our Problems with the Same Thinking We Used When We Created Them (Sep 2017). University of Missouri–Columbia's Medical Pharmacology and Physiology Seminar Speaker Series. University of Missouri. Columbia, MO.
25. **Loboa EG.** Reaching Your Highest Peak (Aug 2017). National Society of Black Engineers' Region V Regional Leadership Conference. University of Missouri. Columbia, MO.
26. **Loboa EG.** Keynote Speaker, Biomedical Innovations at MU Engineering: Translating Medical Problems to Product Solutions (Aug 2017). Mizzou Tech Roadshow & Mixer. Office of Technology Management and Industry Relations of the University of Missouri-Columbia. St. Louis, MO.
27. **Loboa EG.** Panelist, Talent Management Panel (June 2017). 2017 10th Annual Shared Assessments Summit. Arlington, VA.
28. **Loboa EG.** Regenerative Medicine vs. MRSA – Battling with Biomaterials (May 2017). University of Rochester's Biomedical Engineering Seminar Series. University of Rochester. Rochester, NY.
29. **Loboa EG.** Regenerative Medicine in the Age of Multi-Drug Resistant Bacteria (Apr 2017). University of Arkansas Biomedical Engineering Seminar Speaker Series. University of Arkansas. Fayetteville, AR.
30. **Loboa EG.** Regenerative Medicine, Mechanobiology and MRSA (Apr 2017). University of Iowa's Chemical and Biochemical Engineering Graduate Student Seminar Series. University of Iowa. Iowa City, IA.
31. **Loboa EG.** Guest Speaker, Regenerative Medicine and Wound Healing; Tissue Engineering & Biomaterials (Mar 2017). Saint Teresa's Academy. Kansas City, MO.
32. **Loboa EG.** A Tissue Engineered Life: From UCD to ASC then MIZ (Feb 2017). UC Davis College of Engineering Showcase. University of California at Davis. Davis, CA.

33. **Loboa EG.** Functional Tissue Engineering in the Age of Multi-Drug Resistant Bacteria (Dec 2016). 2016 American College of Veterinary Pathologists (ACVP) and American Society for Veterinary Clinical Pathology (ASVCP) Concurrent Annual Meeting. New Orleans, LA.
34. **Loboa EG.** Keynote Speaker, 2016 Women in Business Awards Luncheon (Oct 2016). Columbia Daily Tribune Women in Business Awards. Columbia, MO.
35. **Loboa EG.** Tissue Engineering with Multi-Drug Resistant Bacteria in the Way (Sep 2016). Saturday Morning Science. University of Missouri. Columbia, MO.
36. **Loboa EG.** What Does Your CV/Resume Say About You (Mar 2016)? Women's Leadership Forum and New Investigator Mentoring Committee Professional Advancement Session. 2016 Annual Meeting of the Orthopaedic Research Society. Orlando, FL.
37. **Loboa EG.** Translating Textiles to Tissues: Tissue Engineering using Industry Standard Manufacturing Approaches (Jan 2016). 2016 Biomedical Engineering Society (BMES) Cellular and Molecular Bioengineering Conference. New Orleans, LA.
38. **Loboa EG.** Our Fat Future: Translating Adipose Stem Cell Therapy (Dec 2015). 11th Annual World Stem Cell Summit. Atlanta, GA.
39. **Loboa EG.** Our Fat Future: Understanding and Translating hASC for Clinical Applications (Nov 2015). International Federation of Adipose Therapeutics Symposium. New Orleans, LA.
40. **Loboa EG.** Biomimetic Material Approaches to Tissue Engineering, Regenerative Medicine, and Wound Healing (Oct 2015). AIP-AVS Industrial Physics Forum. San Jose, CA.
41. **Loboa EG.** Regenerative Medicine in Biomedical Engineering (Aug 2015). School of Medicine Annual Research Retreat. UNC-Chapel Hill. Chapel Hill, NC.
42. **Loboa EG.** Advances in Wound Care (July 2015). Johnson & Johnson. Skillman, NJ.
43. **Loboa EG.** North Carolina – the State of BME – Keynote Speaker, 2015 Life Sciences Awards (June 2015). IEEE Engineering in Medicine and Biology Society. North Carolina Biotechnology Center. Research Triangle Park. Raleigh, NC
44. **Loboa EG.** Translating Textiles to Tissues (June 2015). Techtexil North America Symposium and Exhibition. Houston, Texas.
45. **Loboa EG.** The Future of Engineering (May 2015). University of Missouri. Columbia, MO.
46. **Loboa EG.** Fantastic Fat – A Bright Future for Tissue Engineering (Apr 2015). College of Veterinary Medicine. North Carolina State University. Raleigh, NC.
47. **Loboa EG.** Addressing Infection While Engineering Biomimetic Tissues (Mar 2015). 249th American Chemical Society (ACS) National Meeting and Exposition. Denver, Colorado.
48. **Loboa EG.** Engineering Innovation: Biomimetic Approaches to Wound Care and Regenerative Medicine (Feb 2015). North Carolina State University. Raleigh, NC.
49. **Loboa EG.** Functional Applications of Electrospun Nanofibers in Tissue Engineering, Regenerative Medicine, and Wound Healing (Feb 2015). RISE Conference. Miami, Florida.
50. **Loboa EG.** Engineering Innovation – New Approaches to Wound Care (Jan 2015). Eastman Chemical Company. Kingsport, Tennessee.
51. **Loboa EG.** Regenerating and Engineering Tissues with Bacteria in the Way (Nov 2014). School of Dentistry. UNC-Chapel Hill. Chapel Hill, NC.
52. **Loboa EG.** My Life in Tissue Engineering, Regenerative Medicine, and Wound Healing: Professional and Personal Adventures (Nov 2014). Bioengineering Graduate Student Society Selected Speaker. University of Maryland. College Park, MD.
53. **Loboa EG.** Tissue Engineering in the Age of Multi-Drug Resistant Bacteria (Oct 2014). 12th NJ Symposium on Biomaterials Science. New Brunswick, NJ.

54. **Lobao EG.** Biomimicry and Mechanobiology in Wound Healing and Regenerative Medicine (July 2014). Stanford University. Stanford, CA.
55. **Lobao EG.** Biomimetic Forces and Fibers for Wound Healing and Regenerative Medicine Applications (July 2014). Santa Clara University. Santa Clara, CA.
56. **Lobao EG.** Mechanobiology and its Effect on the Development of Osteochondral Tissue for Regenerative Medicine (July 2014). Swine in Biomedical Research International Conference. Raleigh, NC.
57. **Lobao EG.** Partnerships of Necessity: Regenerative Medicine, Tissue Engineering, and Wound Healing (May 2014). Regenerative Medicine Foundation 2014 Conference. San Francisco, CA.
58. **Lobao EG.** Nanofibrous Platforms for Wound Healing and Tissue Engineering Applications (Apr 2014). 2014 Annual Meeting of the American Association of Textile Chemists and Colorists (AATCC). Asheville, NC.
59. **Lobao EG.** Biomimetic Materials and Mechanics to Regulate Stem Cell Fate (Apr 2014). UNC Stem Cell Symposium. UNC-Chapel Hill. Chapel Hill, NC.
60. **Lobao EG.** Nanofibrous Scaffolds for Tissue Engineering and Drug Delivery: Advancements and Challenges (Mar 2014). New Horizon Workshop. Annual Meeting of the Orthopaedic Research Society. New Orleans, LA.
61. **Lobao EG.** Biomimetic Smart Bandages for Wound Healing and Tissue Engineering Applications (Jan 2014). Engineer's Council Seminar. Raleigh, NC.
62. **Lobao EG.** Matrices and Mechanics to Direct hASC Fate (Nov 2013). 2013 SESAPS Conference. Bowling Green, KY.
63. **Lobao EG.** BME, Mechanobiology, Biomimicry, Wound Healing, and Regenerative Medicine (Oct 2013). Joint UNC-NCSU Regenerative Medicine Symposium. Raleigh, NC.
64. **Lobao EG.** Biomimetic Forces and Fibers for Osteochondral Tissue Engineering using Human Adipose-Derived Stem Cells (Oct 2013). 2013 North Carolina Cartilage-Arthritis Research Alliance (NC-CARA) Meeting. Winston-Salem, NC.
65. **Lobao EG.** Biomimetic Smart Bandages for Wound Healing and Tissue Engineering Applications (Aug 2013). Johnson & Johnson. Philadelphia, PA.
66. **Lobao EG.** Biomimetic Forces and Fibers to Regulate Human Stem Cell Fate for Functional Tissue Engineering and Regenerative Medicine Applications (Aug 2013). 2nd International Conference on Tissue Science & Regenerative Medicine. Raleigh, NC.
67. **Lobao EG.** Fabulous Fat! Tissue Engineering using Stem Cells from Love Handles (Aug 2013). National Science Foundation Summer Undergraduate Research Symposium. Raleigh, NC.
68. **Lobao EG.** Biomimetic Forces and Fibers for Wound Healing and Tissue Engineering Applications (June 2013). University of Nebraska Medical Center. Nebraska Regenerative Medicine Project. Omaha, NE.
69. **Lobao EG.** Biomimetic Forces and Fibers: Improving Success in Functional Tissue Engineering, Regenerative Medicine, and Wound Healing (Apr 2013). University of Texas. Dallas, TX.
70. **Lobao EG.** From College to Grad School to Professorship and Motherhood. A Guide (Sort of...) (Apr 2013). The Hockaday School. Dallas, TX.
71. **Lobao EG.** Functional Tissue Engineering: Converting Fat to Bone and Cartilage (Mar 2013). Texas Tech University. Lubbock, TX.
72. **Lobao EG.** How to Make Bone and Cartilage: Start with Fat (Feb 2013). Scholars Forum. North Carolina State University. Raleigh, NC.
73. **Lobao EG.** Biomimetic Approaches for Functional Tissue Engineering Using Human Stem Cells (Nov 2012). Texas A&M University. College Station, TX.

74. **Loboa EG.** Biomimetic Materials and Mechanobiology: Tissue Engineering using Human Adipose-Derived Stem Cells (Oct 2012). Johns Hopkins University. Baltimore, MD.
75. **Loboa EG.** Regenerative Medicine: Can Fat Derived Stem Cells Rebuild Bone and Muscle (Oct 2012). New Horizons in Science Conference. Raleigh, NC.
76. **Loboa EG.** Bioactive Scaffolds to Control Human Stem Cell Fate (Oct 2012). 11th NJ Symposium on Biomaterials Science. New Brunswick, NJ. Podium Presentation (Plenary Session).
77. **Loboa EG.** Biomimetic Stimuli to Regulate Stem Cell Fate (Sep 2012). European Materials Research Society 2012 Meeting. Warsaw, Poland.
78. **Loboa EG.** Tissue Engineering Using Stem Cells (Aug 2012). Gordon Research Conference on Musculoskeletal Biology and Bioengineering. Proctor Academy. Andover, NH.
79. **Loboa EG.** The Use of Electrospun Nonwoven Fibers/Fabrics for Tissue Engineering, Wound Healing, and Regenerative Medicine Applications (June 2012). Cotton, Incorporated. Cary, NC.
80. **Loboa EG.** Osteochondral Tissue Engineering using Human Adipose-Derived Stem Cells and Biomimetic Stimuli (May 2012). Tulane University. New Orleans, LA.
81. **Loboa EG.** Higher Education Perspective on the Common Good (Apr 2012). North Carolina State Board of Education. Raleigh, NC.
82. **Loboa EG.** Biomimetic Materials for Functional Tissue Engineering using Human Adipose-Derived Stem Cells (Apr 2012). Duke University. Durham, NC.
83. **Loboa EG.** Functional Musculoskeletal Tissue Engineering. (Apr 2012). Keynote Speaker, MARC Seminar. Delaware State University. Dover, DE.
84. **Loboa EG.** Functional Tissue Engineering and Regenerative Medicine using Stem Cells from Human Fat (Apr 2012). Park Scholars Seminar. NC State University. Raleigh, NC.
85. **Loboa EG.** Today's Stem Cell Discoveries (Apr 2012). "Salons 2012" – series of six presentations hosted by private citizens in Research Triangle Park. Cary, NC.
86. **Loboa EG.** Functional Tissue Engineering using Human Adipose-Derived Stem Cells and Biomimetic Stimuli (Feb 2012). Rehabilitation Engineering Center Seminar. UNC-Chapel Hill & NC State University. Raleigh, NC.
87. **Loboa EG.** Functional Bone Tissue Engineering Using Human Adipose-Derived Stem Cells and Biomimetic Physical Stimuli (Jan 2012). 2nd BMES-SPRBM Conference on Cellular and Molecular Bioengineering (30th SPRBM Scientific Conference). San Juan, Puerto Rico.
88. **Loboa EG.** Biomaterials, Biomechanics, and Biomimcry – Keys to Success in Regenerative Medicine (Dec 2011). Orthopaedic Grand Rounds. UNC-Chapel Hill. Chapel Hill, NC.
89. **Loboa EG.** Material Stimuli to Regulate Stem Cell Fate (Nov 2011). Materials Research Society. Raleigh, NC.
90. **Loboa EG.** Biomimetic In Vitro Technologies for Functional Bone Tissue Engineering (Nov 2011). North Carolina Tissue Engineering and Regenerative Medicine Society Conference. Winston-Salem, NC.
91. **Loboa EG.** Advances in Biomedical Engineering – Bone (Oct 2011). HESI/CAAT Workshop on Testicular Toxicology In Vitro Models. Baltimore, MD.
92. **Loboa EG.** Functional Osteochondral Tissue Engineering using Human Adipose-Derived Stem Cells (Oct 2011). Comparative Biomedical Sciences Seminar. College of Veterinary Medicine. North Carolina State University. Raleigh, NC.
93. **Loboa EG.** The Use of Electrospun Nonwoven Fibers/Fabrics for Human Cell and Tissue Growth (Oct 2011). INDA Association of the Nonwoven Fabrics Industry RISE Conference. Raleigh, NC.
94. **Loboa EG.** Nanofibrous and Nanocomposite Nonwovens for Bone Tissue Engineering Applications Using Human Stem Cells (Sep 2011). NETInc Innovative Nonwovens Conference. Atlanta, GA.

95. **Loboa EG.** Mechanobiological Approach to Osteochondral Defect Repair Using Human Adipose Derived Stem Cells (Sep 2011). Rheumatology Grand Rounds. University of North Carolina. Chapel Hill, NC.
96. **Loboa EG.** Nanofibrous and Nanocomposite Materials and Human Adipose-Derived Stem Cells: Functional Bone Tissue Engineering Applications (Aug 2011). Nanofibers for the 3rd Millennium Conference. Raleigh, NC.
97. **Loboa EG.** Biomimetic Material and Mechanical Stimuli to Regulate Stem Cell Fate (May 2011). The 2011 Cell-Based Therapies and Tissue Engineering (CTTE) Short Course. Cleveland, OH.
98. **Loboa EG.** Functional Bone Tissue Engineering using Human Adipose-Derived Stem Cells and Biomimetic Physical Stimuli (Mar 2011). 15th Annual Hilton Head Workshop. Regenerative Medicine Innovations for Clinical Applications. Hilton Head Island, SC.
99. **Loboa EG.** Nanofibrous and Nanocomposite Materials for Functional Bone Tissue Engineering (Sep 2010). Nanofibers for the 3rd Millennium: A Summit of the World's Leaders in Nanofibers, 2010. Raleigh, NC.
100. **Loboa EG.** Mechanical and Material Stimuli for Functional Bone Tissue Engineering Using Human Adipose-Derived Stem Cells (Aug 2010). Musculoskeletal Biology & Bioengineering Gordon Research Conference. Andover, NH.
101. **Loboa EG.** Functional Bone Tissue Engineering using Human Adipose-Derived Stem Cells (Oct 2010). Building Bone-A-Fide Networks: Evaluating Musculoskeletal Health Promotion in North Carolina. Raleigh, NC.
102. **Loboa EG.** Stem Cells and Polymeric Biomaterials for Patient Specific Tissue Engineering (May 2010). Triangle Soft Matter Workshop. Duke University. Durham, NC.
103. **Loboa EG.** Stem Cells and Biotextiles for Patient-Specific Tissue Engineering (Apr 2010). Biotextiles, Biomaterials, and Biomanufacturing Seminar. North Carolina State University. Raleigh, NC.
104. **Loboa EG.** Mechanobiology, Nanomaterials, and Stem Cells: an Engineer's Approach to Regenerative Medicine (Apr 2010). National Science Foundation. Arlington, VA.
105. **Loboa EG.** Nanomaterials and Stem Cells (Mar 2010). Nanotech Integration Forum. North Carolina State University. Raleigh, NC.
106. **Loboa EG.** Control of Stem Cell Fate via Mechanical Stimulation (Mar 2010). UNC-Chapel Hill. Chapel Hill, NC.
107. **Loboa EG.** Control of Stem Cell Fate via Mechanical Stimulation (Jan 2010). Imperial College. London, UK.
108. **Loboa EG.** Mechanical and Material Approaches to Control Stem Cell Fate (Oct 2009). Materials Science and Engineering Department Seminar Series. NC State University. Raleigh, NC.
109. **Loboa EG.** Functional Tissue Engineering and Regenerative Medicine of Musculoskeletal Tissues (Aug 2009). National Veterinary Scholars Symposium. Raleigh, NC.
110. **Loboa EG.** Stem Cells & Tissue Engineering (Mar 2009). ONE HEALTH Intellectual Exchange Group. North Carolina Biotechnology Center. Research Triangle Park. Raleigh, NC.
111. **Loboa EG,** Pfeiler TW, Sumanasinghe RD, Hanson AD. Cyclic Tensile Strain Induces Osteogenesis in hMSCs and hASCs (Mar 2009). 2009 Hilton Head Workshop. Regenerative Medicine: Advancing to Next Generation Therapies. Hilton Head Island, SC.
112. **Loboa EG.** Stem Cells and Functional Tissue Engineering (Nov 2008). Durham Technical Community College. Durham, NC.
113. **Loboa EG.** Functional Tissue Engineering Methodologies for Adult Stem Cells (Nov 2008). Wake Forest Institute for Regenerative Medicine. Wake Forest University. Winston-Salem, NC.
114. **Loboa EG.** Mechanobiology of Adult Stem Cells: Orthopaedic Applications (Nov 2008). Orthopaedic Grand Rounds. Department of Orthopaedic Surgery. UNC-Chapel Hill. Chapel Hill, NC.

115. **Lobao EG.** Mechanical Loads and Stem Cell Differentiation (May 2008). Carolina Workshop on Force Measurement and Manipulation in Biological Microscopy. UNC-Chapel Hill. Chapel Hill, NC.
116. **Lobao EG.** Approaches for Investigating Mechanobiology of Adult Stem Cells (Mar 2008). Duke University. Durham, NC.
117. **Lobao EG.** Fantastic Fat – Functional Tissue Engineering with Human Adipose-Derived Stem Cells (Mar 2008). North Carolina State University. Raleigh, NC.
118. **Lobao EG.** Nano – Biomedical Engineering and Mechanobiology (Feb 2008). NC State Nanotechnology Integration Forum. Raleigh, NC.
119. **Lobao EG.** Mechanobiology and Functional Tissue Engineering with Adult Stem Cells (Nov 2007). NC State Zoology Department Seminar Series. Raleigh, NC.
120. **Lobao EG.** Mechanical Loads and Stem Cell Differentiation (May 2007). Workshop on Force Measurement and Manipulation in Biological Microscopy. Computer Integrated Systems for Microscopy and Manipulation. NIH NIBIB Biotechnology Resource Center. UNC-Chapel Hill. Chapel Hill, NC.
121. **Lobao EG.** Stem Cells: An Introduction and Brief History (Apr 2007). Stem Cells: Diffusing the Rhetoric Symposium. NCCU School of Law, Biotechnology & Pharmaceutical Law Institute. Durham, NC.
122. **Lobao EG.** Stem Cells: What’s All the Hubbub (Mar 2007)? “In The Know” Lecture Series. Monteith Research Center. NCSU. Raleigh, NC.
123. **Lobao EG.** Mechanobiology of Human Mesenchymal Stem Cells (June 2006). ABC Fellows. Department of Orthopaedics. UNC-Chapel Hill. Chapel Hill, NC.
124. **Lobao EG.** Ongoing Activities in the Cell Mechanics Laboratory (Aug 2005). Johnson & Johnson. Raleigh, NC.
125. **Lobao EG.** Functional Tissue Engineering (May 2005). Alfred Mann Foundation. Raleigh, NC.
126. **Lobao EG.** Mechanobiology of Human Mesenchymal Stem Cells (Mar 2005). Becton Dickinson. Raleigh, NC.
127. **Lobao EG.** Mesenchymal Tissue and Mesenchymal Stem Cell Differentiation: Functional Tissue Engineering using Mechanobiology (Sep 2004). North Carolina Tissue Engineering Interest Group (NCTEIG) meeting. Raleigh, NC.
128. **Lobao EG.** Trying to Have It All: Academia, Family, and the Pursuit of Happiness (Aug 2004). Mechanical Engineering Women’s Group. Stanford University. Stanford, CA.
129. **Lobao EG,** Wren TAL, Carter DR. Mechanobiology of Soft Skeletal Tissue Regeneration (July 2004). Society for Industrial and Applied Mathematics (SIAM) Conference on the Life Sciences. Portland, OR.
130. **Lobao EG.** Mechanobiology of Mesenchymal Tissue and Mesenchymal Stem Cell Differentiation (Feb 2004). Orthopaedic Grand Rounds. UNC-Chapel Hill. Chapel Hill, NC.
131. **Lobao EG.** New Developments in Distraction Osteogenesis (2001). Surgical Grand Rounds. Stanford University. Stanford, CA.

Popular Press (Last five years only.)

1. *FOX3 KDFW* (Aug 10, 2020). “SMU planning to welcome students back in two weeks.”
2. *Inside Columbia’s CEO* (Winter 2019). “Looking Ahead – Business Developments and Concerns for 2020.”
3. *Virgin Hyperloop One (VHO)* (Dec 2019). “Missouri Roadshow Recap.”
4. *The Maneater* (Dec 2019). “MU makes three-year commitment to Aspire to diversify STEM faculty, teaching.”
5. *KOPN 89.5 FM: Mid-MO Freedom Forum* (Nov 2019). (Audio) “Hyperloop Transportation System.”
6. *YouTube* (Oct 2019). “Hyperloop Press Conference at Mizzou.”
7. *Missourian* (Oct 2019). “Couple gives \$1.7 million, split between engineering and veterinary programs.”

8. *Mizzou News – University of Missouri* (Oct 2019). [“Mizzou alumnus honors family with \\$1.7 million in recent gifts.”](#)
9. *Columbia Daily Tribune* (Oct 2019). [“MU alum donates \\$6M for new institute.”](#)
10. *Missourian* (Oct 2019). [“MU receives \\$6 million for NextGen building construction.”](#)
11. *Mizzou News – University of Missouri* (Oct 2019). [“Mizzou alumnus gives \\$6 million gift to precision health institute.”](#)
12. *The Maneater* (Oct 2019). [“Hyperloop visits campus, brings bright future to Missouri transportation.”](#)
13. *Fox2Now* (Oct 2019). [“Hyperloop test pod on display at Mizzou.”](#)
14. *Columbia Daily Tribune* (Oct 2019). [“Virgin touts hyperloop technology in visit to MU.”](#)
15. *KFRU News Talk 98.9FM/1400AM* (Oct 2019). [“Hyperloop One.”](#)
16. *KOMU 8 (NBC)* (Oct 2019). [“Virgin Hyperloop One officials and test pod set for appearance in Columbia.”](#)
17. *GlobeNewswire* (Sep 2019). [“Five New Stops Added to Virgin Hyperloop One U.S. Roadshow.”](#)
18. *The Maneater* (Sep 2019). [“Camp COE enables students to have reliable support system for their time at MU.”](#)
19. *KFRU News Talk 98.9FM/1400AM* (Aug 2019). [“Sunday Morning Roundtable: NextGen Precision Health Institute.”](#)
20. *St. Louis Post-Dispatch* (July 2019). [“University of Missouri and Siemens pair up to bolster research, train biomedical engineers.”](#)
21. *KOMU 8 (NBC) News at Noon* (July 2019). [“UM System: New alliance to bring opportunities to Missouri.”](#)
22. *Missourian* (July 2019). [“UM System, MU Health Care, creates \\$133 million partnership with Siemens.”](#)
23. *Eagle 93.9: Hot Talk of Mid-Missouri* (June 2019). (Audio) [“Elizabeth Loba on New Mizzou Health Institute.”](#)
24. *Missourinet* (June 2019). [“University of Missouri System building “NextGen” research hub to accelerate disease treatment, cures.”](#)
25. *Mizzou News – University of Missouri* (June 2019). [“NextGen Precision Health: University of Missouri celebrates official launch of new health research center.”](#)
26. *University of Missouri System – Precision Health Initiative* (June 2019). [“Launch and Groundbreaking.”](#)
27. *American Society for Engineering Education (ASEE)* (June 2019). [“The College of Engineering at the University of Missouri.”](#)
28. *Missouri Flagship Council Weekly Update* (May 2019). [“Elizabeth G. Loba, Vice Chancellor for Strategic Partnerships and Dean of the College of Engineering.”](#) (Feature)
29. *Congressional Record – Extensions of Remarks* (Apr 2019). [“Extensions of Remarks: Honoring the 148 Inventors Inducted as the 2018 Fellows of the National Academy of Inventors.”](#)
30. *All Together, Society of Women Engineers* (Apr 2019). [“Podcast: Elizabeth Loba, Mizzou’s First Female Dean of Engineering.”](#)
31. *YouTube* (Apr 2019). [“Women in Engineering: Elizabeth Loba.”](#)
32. *All Together, Society of Women Engineers* (Apr 2019). [“Five Fearless Women Engineers on Fighting Impostor Syndrome.”](#)
33. *Eagle 93.9: Hot Talk of Mid-Missouri* (Feb 2019). (Audio) [“MU Engineering Dean Elizabeth Loba on TPMC.”](#)
34. *Inside UM System* (Feb 2019). [“Bringing the Vision to Life: Precision Medicine Initiative Progress Update.”](#)
35. *Columbia Daily Tribune* (Feb 2019). [“University of Missouri targets July start for research center work.”](#)
36. *KOMU 8 (NBC) News at Four* (Feb 2019). [“UM unveils design for new quarter-billion dollar medical complex.”](#)
37. *BioNexus KC* (Jan 2019). [“Sponsorship Crucial for Next Generation of Women in STEM.”](#)
38. *Columbia Daily Tribune* (Dec 2018). [“Loba and Stacey named NAI Fellows.”](#)
39. *National Academy of Inventors* (Dec 2018). [“National Academy of Inventors Announces 2018 Fellows.”](#)
40. *Missourian* (Nov 2018). [“UM wants to chart a new course in research. So it’s building a ‘game changer.’”](#)
41. *YouTube* (Nov 2018). [“Translational Precision Medicine Complex.”](#)
42. *COMO Magazine* (Oct 2018). [“Local Perspective: Precision Medicine at MU – An Economic Driver for Columbia.”](#) (Feature)
43. *Missourian* (Oct 2018). [“‘It takes a community’: Women in engineering rally to extinguish burnout.”](#)

44. *YouTube* (Oct 2018). "[Mizzou: Engineering Our Future.](#)"
45. *Hannibal Courier Post* (Sep 2018). "[MU College of Engineering, Raytheon partnering on National Defense Fellowship Program.](#)"
46. *Mizzou: Our Time to Podcast* (Sep 2018). [Translational Precision Medicine Complex.](#)
47. *KMIZ (ABC17) News at Nine* (Sep 2018). "[New research facility gets \\$228 million price tag.](#)"
48. *KOMU 8 (NBC) News at Seven* (Sep 2018). "[New \\$220 million MU Research building set to be built by 2021.](#)"
49. *Zimmer Radio Group* (Sep 2018). "[Dean Lobo's pre-game interview with Brad Tregnago about the Translational Precision Medicine Complex \(TPMC\).](#)"
50. *KOMU.com* (Aug 2018). "[MU Engineering, CAFNR merge to create new research opportunities.](#)"
51. *AIMBE* (Aug 2018). "[Dean Lobo named vice chancellor for strategic partnerships.](#)"
52. *AARP Bulletin* (June 2018). "Printers will make body parts from your stem cells."
53. *Missourian* (June 2018). "[New complex will offer UM System faculty opportunities to collaborate on research.](#)"
54. *The Maneater* (Nov 2017). "[Board of Curators approves preliminary plans for capital projects.](#)"
55. *The Maneater* (Nov 2017). "[MU College of Engineering student chosen as first recipient of EWF fellowship.](#)"
56. *Tiger Radio Network* (Nov 2017). "[Dean Lobo's pre-game interview with Brad Tregnago.](#)"
57. *KOMU.com* (Nov 2017). "[Board of Curators' highest priority project is new MU medical complex.](#)"
58. *Executive Women's Forum* (Oct 2017). [Video footage of Dean Elizabeth Lobo announcing the University of Missouri as the first and only university in the country to partner with the Executive Women's Forum to offer a Ph.D. fellowship.](#)
59. *Kansas City Business Journal* (Oct 2017). "[We need to do everything in our power to keep women in tech.](#)"
60. *COMO Magazine* (July 2017). "[Elizabeth Lobo, Dean, MU School of Engineering.](#)" (Feature)
61. *Warm 106.9* (Mar 2017). "Professor Elizabeth Lobo, Dean of the College of Engineering at the University of Missouri." (Interview)
62. *KOMU (NBC) News at Ten* (Mar 2017). "[MU researcher finds silver can combat deadly staph infection.](#)"
63. *Futurity.org* (Feb 2017). "[Silver scaffolds grow bone while blocking MRSA.](#)"
64. *Mizzou News – University of Missouri* (Feb 2017). "[Silver Ion-Coated Medical Devices Could Fight MRSA While Creating New Bone.](#)"
65. *13KRCG* (Dec 2016). "[University of Missouri names panel in search for chancellor.](#)"
66. *Medical News Today* (Oct 2016). "[Watching stem cells change provides clues to fighting osteoporosis in older women.](#)"
67. *Futurity.org* (Oct 2016). "[Team watches as fat cells become bone tissue.](#)"
68. *United Press International* (Oct 2016). "[Stem cell transformation provides insight into osteoporosis.](#)"
69. *Mizzou News – University of Missouri* (Oct 2016). "[Watching Stem Cells Change Provides Clues to Fighting Osteoporosis in Older Women.](#)"
70. *Columbia Daily Tribune* (Oct 2016). "[First female MU Engineering Dean to speak at Women in Business event.](#)"
71. *Bioengineer.org* (Sep 2016). "[Methods used to create textiles also could help manufacture human tissues.](#)"
72. *Orthopedics this Week* (Apr 2016). "[Found! More cost-effective method of tissue engineering.](#)"
73. *Journal of Emergency Medical Services* (Apr 2016). "[Methods used to create textiles also could help manufacture human tissues.](#)"
74. *Futurity.org* (Apr 2016). "[Methods used to create textiles also could help manufacture human tissues.](#)"
75. *Smithsonian Magazine* (Apr 2016). "[Taking a cue from textile-making to engineer human tissue.](#)"
76. *Textile World* (Apr 2016). "[Methods used to create textiles also could help manufacture human tissues.](#)"
77. *EurekAlert* (Apr 2016). "[Methods used to create textiles also could help manufacture human tissues.](#)"
78. *NewsWise* (Apr 2016). "[Methods used to create textiles also could help manufacture human tissues.](#)"
79. *BioSpace* (Apr 2016). "[Methods used to create textiles also could help manufacture human tissues.](#)"
80. *KurzweilAI* (Apr 2016). "[Methods used to create textiles also could help manufacture human tissues.](#)"
81. *KurzweilAI Facebook* (Apr 2016). "Methods used to create textiles also could help manufacture human tissues."

82. *Medical News Today* (Apr 2016). "Methods used to create textiles also could help manufacture human tissues."
83. *Nanowerk News* (Apr 2016). "Methods used to create textiles also could help manufacture human tissues."
84. *National Science Foundation* (Apr 2016). "Methods used to create textiles also could help manufacture human tissues."
85. *ScienceNewsLine* (Apr 2016). "Methods used to create textiles also could help manufacture human tissues."
86. *Society of Women Engineers (SWE)*. Apr 2016. "Methods used to create textiles also could help manufacture human tissues."
87. *SpaceDaily* (Apr 2016). "Methods used to create textiles also could help manufacture human tissues."
88. *Stem Cell and Regenerative Science Portal* (Apr 2016). "Methods used to create textiles also could help manufacture human tissues."
89. *Stem Cell and Regenerative Science Facebook* (Apr 2016). "Methods used to create textiles also could help manufacture human tissues."
90. *eScienceNews* (Apr 2016). "Methods used to create textiles also could help manufacture human tissues."
91. *Phys.org* (Apr 2016). "Methods used to create textiles also could help manufacture human tissues."
92. *Phys.org Facebook* (Apr 2016). "Methods used to create textiles also could help manufacture human tissues."
93. *ScienceDaily* (Apr 2016). "Methods used to create textiles also could help manufacture human tissues."
94. *United Press International* (Apr 2016). "Textile manufacturing methods could help create human tissue."
95. *Mizzou News – University of Missouri* (Apr 2016). "Methods Used to Create Textiles Also Could Help Manufacture Human Tissues."
96. *Medical Physics Web* (Mar 2016). "Methods used to create textiles also could help manufacture human tissues."
97. *Columbia Daily Tribune* (Dec 2016). "Interview with Dean Loba."
98. *AIMBE* (Jan 2016). "Elizabeth G. Loba, Ph.D. To be Inducted into Medical and Biological Engineering Elite."
99. *COMO Magazine* (Nov 2015). "November: Movers and Shakers."
100. *The Maneater* (Sep 2015). "New Dean Loba hopes to continue trend of growth for MU College of Engineering."
101. *Missourian* (Aug 2015). "MU names Elizabeth Loba dean of College of Engineering."
102. *Mizzou News – University of Missouri* (Aug 2015). "North Carolina State University Biomedical Engineer Named College of Engineering Dean."

Academic Mentoring and Promotion of Diversity and Inclusion

- Speaker, Mizzou Pursuit of Excellence Banquet, Hosted by the Diversity and Outreach Initiatives Office of the University of Missouri College of Engineering and the University of Missouri Center for Academic Success and Excellence, Columbia, MO, 2019
- Speaker, Diverse Engineering Professionals Conference, Columbia, MO, 2019
- MU College of Engineering recognized by ASEE Diversity Recognition Program with Bronze award (highest level awarded in 2019). Article at: ASEE recognizes Mizzou Engineering for commitment to diversity, inclusion.
- Speaker, Camp COE for first-year engineering students, Columbia, MO, 2019
- Speaker, Engineering Graduate Student Orientation, Columbia, MO, 2019
- Speaker, Engineering Success Bridge Program, Columbia, MO, 2019
- Speaker, College of Engineering Summer Camp of International Students, Hosted by the University of Missouri International Center and College of Engineering International Programs, Columbia, MO, 2019
- Speaker, STEMette Camp, Columbia, MO, 2019
- Speaker, Daughter Engineering Day, Columbia, MO, 2019
- Speaker, Develop[HER,] "Discussing Women in STEM," Columbia, MO, 2019
- Presenter, MU College of Engineering Research Day, Columbia, MO, 2019

- Speaker, National Academy of Inventors (NAI) 8th Annual Meeting and Induction Ceremony: Connecting the Innovation Community, “Global innovation: creating a conference to promote diversity in STEM,” Houston, TX, 2019
- Speaker, Engineering Career Day: Employer Engagement and Professional Development with Information Technology, Computer Science and Computer Engineering Students, Columbia, MO, 2019
- Speaker, 2019 Mizzou Women’s Leadership Conference, “Women in Engineering,” Columbia, MO, 2019
- Speaker, MU Engineering High School Day, Columbia, MO, 2019
- Speaker, 42nd Annual Big XII Conference on Black Student Government, Hosted by the MU Legion of Black Collegians, Columbia, MO, 2019
- Panelist, University of Missouri Women in Engineering Week, “Preparing STEM 4 Women Session,” Columbia, MO 2019
- Panelist, Women in Science and Entrepreneurship (W.I.S.E.) KC Panel, Kansas City, MO, 2019
- Speaker, Mizzou Pursuit of Excellence Banquet, Hosted by the Diversity and Outreach Initiatives Office of the University of Missouri College of Engineering and the University of Missouri Center for Academic Success and Excellence, Columbia, MO, 2018
- Speaker, National Association of Engineering Student Councils Central Region Conference, Columbia, MO, 2018
- Keynote Speaker, Society of Women Engineers, Columbia, MO, 2018
- Panelist, University of Missouri Women in Engineering Week, “How to Avoid Burnout,” Columbia, MO, 2018
- Panelist, Women in Engineering Path to Success: Lunch and Panel Discussion, Columbia, MO, 2018
- Speaker, Daughter Engineering Day, Columbia, MO, 2018
- Keynote Speaker, Mizzou Non-Traditional Career Exploration Event for Middle and High School Students, Hosted by 4-H and the MU College of Education’s Heart of Missouri Regional Professional Development Center, Columbia, MO, 2018
- Speaker, University of Missouri Fall 2018 College of Engineering Career Fair, “What Your Resume Says About You,” Columbia, MO, 2018
- Keynote Speaker, MU College of Engineering Success Bridge Program, Columbia, MO, 2018
- Speaker, MU College of Engineering Summer Welcome, Columbia, MO, 2018
- Speaker, MU College of Engineering Research Day, Columbia, MO, 2018
- Speaker, MU Engineering Freshman Interest Groups, Columbia, MO, 2018
- Speaker, MU Engineering High School Day, Columbia, MO, 2018
- Keynote Speaker, Mizzou Pursuit of Excellence Banquet, Hosted by the Diversity and Outreach Initiatives Office of the University of Missouri College of Engineering and the University of Missouri Center for Academic Success and Excellence, Columbia, MO, 2017
- Mentor, Meet-the-Mentor Luncheon, 2017 TERMIS-Americas Annual Conference and Exhibition, Charlotte, NC, 2017
- Speaker, MU Chapter of the Society of Women Engineers, University of Missouri, Columbia, MO, 2017
- Roundtable Participant, National Strategies for Recruitment and Retention of Hispanics in Academia, 2017 Society of Hispanic Professional Engineers National Conference, Kansas City, MO, 2017
- Panelist, Collaborative Action at MU, Griffiths Leadership Society for Women, University of Missouri, Columbia, MO, 2017
- Speaker, Saint Teresa’s Academy Open House Visit to MU College of Engineering, University of Missouri, Columbia, MO, 2017
- Keynote Speaker, The Importance of Women in STEM, 2017 Women in Science and Entrepreneurship, Kansas City, MO, 2017
- Panelist, Challenges and Opportunities for Women in STEM Field, 2017 Women in Science and Entrepreneurship, Kansas City, MO, 2017
- Speaker, Diverse Engineering Professionals Conference, Columbia, MO, 2017
- Speaker, Mizzou Engineering Student Council High School Day, Columbia, MO, 2017
- Panelist, Opportunities for Women in STEM: Leadership & Mentorship, 2017 Women in Science and Entrepreneurship and the Missouri Cures Education Foundation, St. Louis, MO, 2017

- Panelist, State of Engineering Education in Missouri, Missouri Society of Professional Engineers (MSPE) 2017 Annual Convention, Camdenton, MO, 2017
- Speaker, Reaching Your Highest Peak, National Society of Black Engineers' Region V Regional Leadership Conference, Hosted by the University of Missouri College of Engineering, Columbia, MO 2017
- Panelist, National Society of Black Engineers' Engineering Dean's and MEP Strategic Retention Forum, National Society of Black Engineers 43rd Annual Convention, Kansas City, MO, 2017
- Roundtable Participant, National Society of Black Engineers' Engineering Deans and MEP Strategic Retention Roundtable, National Society of Black Engineers 43rd Annual Convention, Kansas City, MO, 2017
- Keynote Speaker, Regenerative Medicine and Wound Healing Tissue Engineering & Biomaterials, Saint Teresa's Academy, Kansas City, MO, 2017
- Panelist, Hidden Figures Screening Panel Discussion of Women and Minority Women in STEM Fields, University of Missouri, Columbia, MO, 2017
- Keynote Speaker, A Tissue Engineered Life: From UCD to ASC then MIZ, University of California at Davis, Davis, CA, 2017
- Roundtable Participant, Advancing Women in Cybersecurity in Computer Science, 4th Annual Women of Influence Roundtable, Executive Women's Forum National Conference, Scottsdale, AZ, 2016
- Panelist, Women in Science and Entrepreneurship (WISE) Opportunities and Entrepreneurship Panel Discussion, Missouri Cures Education Foundation, Columbia, MO, 2016
- Speaker, What Does Your CV/Resume Say About You? Women's Leadership Forum and New Investigator Mentoring Committee Professional Advancement Session, Annual Meeting of the Orthopaedic Research Society, Orlando, FL, 2016
- Speaker, Women's Leadership Forum and New Investigator Mentoring Committee Professional Advancement Session, Orthopaedic Research Society Annual Meeting, Orlando, FL, 2016
- Panelist, Women in Engineering, Women & Minority Engineering Programs Faculty Panel, North Carolina State University, Raleigh, NC, 2015
- Mentor, multiple junior faculty in Biomedical Engineering and College of Veterinary Medicine, University of North Carolina Chapel Hill and North Carolina State University, Chapel Hill, NC and Raleigh, NC, 2012 – 2015
- Mentor, Abrams Scholars, North Carolina State University, Raleigh, NC, 2011 – 2015
- Chapter Advisor, Tau Beta Pi National Engineering Honor Society, North Carolina State University, Raleigh, NC, 2009 – 2015
- Mentor, Initiative for Maximizing Student Diversity (IMSD) scholars, North Carolina State University, Raleigh, NC, 2007 – 2015
- Mentor, Alliances for Graduate Education and the Professoriate (AGEP) scholars, North Carolina State University, Raleigh, NC, 2005 – 2015
- Mentor, Women in Science and Engineering (WISE) scholars, North Carolina State University, Raleigh, NC, 2005 – 2015
- Mentor, Park Scholars, North Carolina State University, Raleigh, NC, 2005 – 2015
- Mentor, Reaching Incoming Students Enrichment (RISE) scholars, North Carolina State University, Raleigh, NC, 2004 – 2015
- Mentor, Howard Hughes Medical Institute Summer Research Intern (HHMI SRI) scholars, North Carolina State University, Raleigh, NC, 2004 – 2015
- Invited Panelist, Careers in Academia, Duke University, Durham, NC, 2012
- Presenter, Annual Escape Summer Camp for Incoming Female Students in Engineering, North Carolina State University, Raleigh, NC, 2008 – 2011
- Mentor, Stanford Association for Women in Science, Stanford University, Stanford, CA, 1999 – 2002
- Presenter, California Forum for Diversity in Graduate Education introducing underrepresented college students to graduate programs in science and engineering, Stanford University, Stanford, CA, 2000
- Presenter, Partners in Science College Initiative (PISCI) introducing high school students to the pursuit of studies in science, Stanford University, Stanford, CA, 2000
- Panelist, Mentoring Workshop, graduate women mentoring undergraduate women on obtaining success in graduate school, Stanford University, Stanford, CA, 2000

Presenter, Expanding Your Horizons (EYH) Workshop introducing junior high school girls to science and engineering, Stanford University, Stanford, CA, 1999 – 2000
 TransAccess (San Jose, CA) mentor to women with disabilities, Stanford University, Stanford, CA, 1999 – 2000

Campus and Community Involvement and Engagement

Member, Missouri Blue Ribbon Panel on Hyperloop, State of Missouri, 2019 – 2020
 Advisory Board, *Columbia Business Times*, 2019 – 2020
 Board of Directors, Heart of Missouri United Way, 2018 – 2020
 Presenter, 8th Annual Coulter Program Awards and Mixer hosted by the Patient-Centered Care Learning Center, Columbia, MO, 2019
 Presenter, Missouri's Special Blue Ribbon Panel on Hyperloop, Columbia, MO, 2019
 Panelist, *Inside Columbia's CEO Magazine* Roundtable Luncheon, Zimmer Radio and Marketing Group, Columbia, MO, 2019
 Presenter, College of Engineering Annual Scholarship Dinner, University of Missouri, 2019
 Presenter, "Lunch with the Dean," Annual Summit Conference hosted by the Office of Extension and Engagement, University of Missouri System, Columbia, MO, 2019
 Presenter, MoExcels Proposal Presentation, "Imaging the Future: Clinical Service Engineering for Missouri," Missouri Coordinating Board for Higher Education (CBHE), University of Missouri, Columbia, MO, 2019
 Judge, 2019 Homecoming Parade, University of Missouri, Columbia, MO, 2019

Presenter, Virgin Hyperloop One Pod co-hosted by the College of Engineering and the Office of Research and Economic Development, University of Missouri, Columbia, MO, 2019
 Presenter, Merit Badge Day for the Great Rivers Council of the Boy Scouts of America, University of Missouri Columbia, MO, 2019
 Presenter, "NextGen Precision Health Initiative," Columbia Chamber of Commerce, Columbia, MO, 2019
 Co-Presenter, "NextGen Precision Health Initiative," Missouri 100 Meeting, Columbia, MO, 2019
 Presenter, "NextGen Precision Health Initiative," MU Retirees Association Meeting, Columbia, MO, 2019
 Presenter, "NextGen Precision Health Initiative," Central Bank of Boone County Young Executives Lunch, Columbia, MO, 2019
 Presenter, U.S. High Performance Research Reactor Meeting, Hosted by the College of Engineering, MU Research Reactor and the National Nuclear Security Administration's Office of Material Management and Minimization, University of Missouri, Columbia, MO, 2019
 Presenter, Groundbreaking Ceremony of the NextGen Precision Health Institute, Translational Precision Medicine Complex (TPMC), University of Missouri System, Columbia, MO, 2019
 Presenter, Caris Life Science Visit, University of Missouri, Columbia, MO, 2019
 Presenter, AmeriMech Symposium: Non-reciprocal and Topological Wave Phenomena in Solids and Fluids, University of Missouri, Columbia, MO, 2019
 Commencement Speaker, May Commencement Address, Mizzou Online, University of Missouri, Columbia, MO, 2019
 Presenter, Precision Health Initiative Reception, University of Missouri System, Columbia, MO, 2019
 Presenter, ThermAvant Technologies Grand Opening, Columbia, MO, 2019
 Presenter, Mizzou Jefferson Club Dinner, Columbia, MO 2019
 Presenter, Mizzou Shamrock Society Brunch, Columbia, MO, 2019
 Presenter, Precision Medicine Initiative Update, University of Missouri-Kansas City, Kansas City, MO, 2019
 Keynote Speaker, Tau Sigma Transfer Student Honor Society Induction, University of Missouri, Columbia, MO, 2019
 Presenter, "College of Engineering and the University of Missouri System's Precision Medicine Initiative," Houston Texas Tigers Chapter, Mizzou Alumni Association, Houston, TX, 2019
 Panelist, Leadership Columbia Development and Industry Day, Columbia Chamber of Commerce, Columbia, MO, 2019

- Presenter, Translational Precision Medicine Complex (TPMC), Truman Memorial VA Medical Center, Columbia, MO, 2019
- Presenter, “Precision Medicine at MU: An Economic Driver for Columbia,” Sunrise Southwest Rotary, Columbia, MO, 2019
- Presenter, “Translating Precision Medicine: Transforming the future of healthcare,” MU School of Medicine Research Council, University of Missouri, Columbia, MO, 2019
- Showcase Exhibitor, TPMC-PMI UM System, 2019 UM System Legislative Showcase Exhibits: Workforce Development, Jefferson, MO, 2019
- Presenter, “Bringing the Vision to Life: Precision Medicine Initiative Progress Update,” University of Missouri System, Columbia, MO, 2019
- Keynote Speaker, Translational Precision Medicine Complex (TPMC), Regional Economic Development, Inc. (REDI) Board of Directors Meeting, Columbia, MO, 2018
- Keynote Speaker, Translational Precision Medicine Complex (TPMC), Commerce Bank Regional Advisory Board, Columbia, MO, 2018
- Presenter, Non-Traditional Career Exploration Day, sponsored by MU Extension, hosted by the College of Engineering, University of Missouri, Columbia, MO, 2018
- Presenter, Translational Precision Medicine Complex (TPMC), MU Staff Advisory Council, University of Missouri, Columbia, MO, 2018
- Presenter, Translational Precision Medicine Complex (TPMC), Advancement Divisional Meeting, University of Missouri, Columbia, MO, 2018
- Presenter, Translational Precision Medicine Complex (TPMC), Missouri 100 Reception and Meeting, University of Missouri, Columbia, MO, 2018
- Presenter, College of Engineering Annual Scholarship Dinner, University of Missouri, Columbia, MO, 2018
- Speaker Virgin Hyperloop One Project with Black & Veatch and Virgin Hyperloop One, University of Missouri, Columbia, MO, 2018
- Beyond Campus, M-I-Z in K.C. Alumni Event co-hosted by the College of Engineering and College of Arts & Sciences, University of Missouri, Columbia, MO, 2018
- Honorary Co-Chair, 19th Annual Tiger Ball, Kansas City Chapter of the Mizzou Alumni Association and University of Missouri, Columbia, MO, 2018
- Presenter, Mizzou Shamrock Society Brunch, Columbia, MO, 2018
- Judge, Reynolds Journalism Institute Student Competition, University of Missouri, Columbia, MO, 2018
- Keynote Speaker, Tau Sigma Transfer Student Honor Society Induction, University of Missouri, Columbia, MO, 2018
- Presenter, Merit Badge University for the Great Rivers Council of the Boy Scouts of America, University of Missouri, Columbia, MO, 2017
- Presenter, College of Engineering Annual Scholarship Dinner, University of Missouri, Columbia, MO, 2016

Honors and Awards

- Fellow, American Association for the Advancement of Science, 2021: Selected for “transformative academic leadership, promotion of diversity and inclusion in STEM fields, and impactful research in biomedical engineering, particularly for contributions in regenerative medicine and tissue engineering.”
- Fellow, American Society of Mechanical Engineers, 2021: Selected for “exceptional engineering achievements and contributions to the engineering profession and to ASME.”
- Fellow, National Academy of Inventors, 2019: Selected for demonstrating “highly prolific spirits of innovation in creating or facilitating outstanding inventions that have made a tangible impact on the quality of life, economic development and welfare of society.”

Lloyd and Margaret Ketcham Research Professorship, 2017

Insight into Diversity Giving Back Award, 2017

UC Davis Distinguished Engineering Alumni Award, 2016

Fellow, American Institute for Medical and Biological Engineering (AIMBE), 2016: Selected for “outstanding contributions to functional tissue engineering, regenerative medicine and wound healing as well as academic leadership and mentoring in engineering.”

Fellow, Biomedical Engineering Society (BMES), 2016: Selected for “exceptional achievements and contributions to the field of Biomedical Engineering, and for Inspired Leadership within the Biomedical Engineering Society.”

Fellow, ELATE (Executive Leadership in Academic Technology and Engineering), 2015

North Carolina State University Faculty Scholar Award, 2012

North Carolina State University Chancellor’s Innovation Award, 2011

Stanford University Distinguished Alumni Scholar Award, 2010

UK-US Stem Cell Collaboration Development Award, 2009

Sigma Xi Faculty Research Award, 2009

Ralph E. Powe Junior Faculty Award, 2005

Selected Participant, Science and Engineering Education Scholars Program (19 participants accepted nationwide): 7th Annual Conference on developing and implementing more effective teaching methodologies for undergraduate science and engineering, 2002

Selected Delegate, Rotary International Group Study Exchange Trip to India (declined), 2001

Jeffrey K. Lyons Award for Outstanding Service to the Stanford Community, 2000

Stanford Graduate Service Recognition Award, 2000

UC Davis Outstanding Senior of the Year, 1994 – 1995

President’s Undergraduate Fellowship, 1994 – 1995

Tau Beta Pi National Engineering Honor Society, 1994 – present

Golden Key National Honor Society, 1993 – present

Phi Kappa Phi National Honor Society, 1993 – present

Peer-Reviewed Journal Articles (*Last author position is corresponding author unless otherwise noted.*)

1. Nordberg RC, Huebner P, Schuchard KG, Mellor LF, Shirwaiker, RA, **Loboa, EG**, Spang, JT. The evaluation of a multiphasic 3D-bioplotted scaffold seeded with adipose-derived stem cells to repair osteochondral defects in a porcine model. *Journal of Biomedical Materials Research: Part B – Applied Biomaterials*. 2021 Jun 10. doi: 10.1002/jbm.b.34886. Online ahead of print. PMID: 34114736.

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Book Chapters

1. Nordberg RC, Bodle JC, **Loboa EG**. Mechanical stimulation of adipose-derived stem cells for functional tissue engineering of the musculoskeletal system via cyclic hydrostatic pressure, simulated microgravity, and cyclic tensile strain. In: *Adipose-Derived Stem Cells: Methods in Molecular Biology, vol 1773*. Bruce A. Bunnell and Jeffrey M. Gimble, Chapter 18, pp. 215-230. Humana Press, New York, NY (2018). https://doi.org/10.1007/978-1-4939-7799-4_18. Invited submission.
2. Charoenpanich A, Bodle J, **Loboa EG**. The role of cyclic tensile strain on osteogenesis and angiogenesis in human mesenchymal stem cells. In: *The Biology and Therapeutic Application of Mesenchymal Cells*, ed. M. Kerry Atkinson, pp. 208-221. John Wiley Publishers (2016). Invited submission.
3. Wall ME, Dymant NA, Bodle J, Volmer J, **Loboa EG**, Cederlund A, Fox AM, Banes AJ. Cell signaling in tenocytes: response to load and ligands in health and disease. *Metabolic Influences on Risk for Tendon Disorders (Part of the Advances in Experimental Medicine and Biology – Volume 920)*, ed. Cham Springer, pp. 79-95. Springer International Publishing, Switzerland (2016). <https://doi.org/10.1007/978-3-319-33943-6>. Epub 2016 Aug 18.

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6. Bernacki SH, Wall ME, **Loboa EG**. Isolation of human mesenchymal stem cells from bone and adipose tissue. In: *Stem Cell Culture (Methods in Cell Biology*, Volume 86), pp. 257-278 (2008). Invited submission.
7. van Aalst JA, Kollapa KK, **Loboa EG**, Sadove AM. Alveolar bone grafting. In: *Current Reconstructive Surgery*, ed. Joseph Serletti, Joseph Losee, (2007).
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9. Carter DR, **Loboa Polefka EG**, and Beaupré GS. Mechanical influences on skeletal regeneration and bone resorption. In: *Bone Engineering*, ed. JE Davies, pp. 358-368. University of Toronto, Toronto, Canada (2000).
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Submitted Articles in Review/Revision

1. Nordberg RC, Magalhaes RS, Cervelló I, Williams JK, Loboa EG, Atala A. A biomechanical assessment of tissue-engineered polymer newo-uteri after orthotopic implantation. *Tissue Engineering*. (in review)

Refereed Conference Proceedings

1. Mellor LF, Nordberg RC, Huebner P, Mohiti-Asli M, Taylor MA, Efirid W, Oxford JT, Spang J, Shirwaiker RA, **Loboa EG** (Aug 2018). Investigation of multi-phasic 3D-bioplotting scaffolds for site-specific chondrogenic and osteogenic differentiation of human adipose derived stem cells for osteochondral tissue engineering application. Musculoskeletal Biology and Bioengineering Gordon Research Seminar (GRS) Frontiers of Science at Proctor Academy: Insight into Musculoskeletal Tissue Interfaces in Homeostasis and Disease. Andover, NH.
2. Bago JR, Pegna GJ, Okolie O, Mohiti-Asli M, **Loboa EG**, Hingtgen SD, Moore K, Ainslie K (Oct 2017). Biocompatible electrospun nanofibrous scaffolds enhance tumoricidal stem cell therapy in surgical model of glioblastoma resection and recurrence. 2017 Biomedical Engineering Society (BMES) Annual Meeting. Phoenix, AZ.
3. Nordberg R, Wang H, Wu Q, **Loboa EG** (Sep 2017). Corin is a key regulator of endochondral ossification and bone development via modulation of VEGF-A expression. American Society for Bone and Mineral Research (ASBMR) 2017 Annual Meeting. Denver, CO. Podium Presentation.
4. Huebner P, Spang JT, **Loboa EG**, Shirwaiker RA (May 2017). Optimizing the macro-scale geometry of 3D biofabricated osteochondral scaffolds to match the implantation characteristics of native tissue autografts. Institute of Industrial & Systems Engineers Annual Conference and Expo 2017. Pittsburgh, PA.

5. Nordberg RC, Mellor LF, Huebner P, Sonnenberg S, Taylor MA, Efirid W, Spang J, Shirwaiker RA, **Loboa EG** (Mar 2017). A novel 3D-bioploted osteochondral scaffold for site specific human adipose stem cell differentiation. Orthopaedic Research Society (ORS) 2017 Annual Meeting. San Diego, CA.
6. Nordberg RC, Bodle JC, **Loboa EG** (Dec 2016). Primary cilia and canonical Wnt-signaling crosstalk to modulate osteogenic differentiation in human adipose stem cells in 3D loading conditions. 2016 TERMIS Americas Annual Conference and Exhibition. San Diego, CA. Podium Presentation.
7. Mohiti-Asli M, Pourdeyhimi B, **Loboa EG** (Apr 2016). In vivo evaluation of silver ion releasing scaffolds for treatment of infected wounds using a porcine model. 28th Annual Meeting of the Wound Healing Society. Atlanta, GA. Podium Presentation.
8. Mellor LF, Trevisan B, Taylor MA, Karus AR, Donahue H, Oxford JT, **Loboa EG** (Feb 2016). Sclerostin inhibition in hindlimb unloading model: good news for bone, bad news for cartilage. 2016 NASA Human Research Program IWS Meeting. Houston, TX. Podium Presentation.
9. Mohiti-Asli M, Molina C, Pourdeyhimi B, **Loboa EG** (Nov 2015). Silver releasing scaffolds for treatment/prevention of osteomyelitis. 2015 Annual Meeting of the North Carolina Tissue Engineering and Regenerative Medicine Society. Winston-Salem, NC. Podium Presentation.
10. Steward A, Cole J, Ligler F, **Loboa EG** (Nov 2015). Cyclic tensile strain and co-culture of human MSCs with HUVECs synergistically enhance osteogenesis. 2015 Annual Meeting of the North Carolina Tissue Engineering and Regenerative Medicine Society. Winston-Salem, NC. Podium Presentation.
11. Mohiti-Asli M, Risselada M, Jacob M, Pourdeyhimi B, **Loboa EG** (Nov 2015). In vivo evaluation of silver ion releasing scaffolds for treatment of infected wounds using a porcine model. 2015 Annual Meeting of the North Carolina Tissue Engineering and Regenerative Medicine Society. Winston-Salem, NC.
12. Shaobo C, Behnam P, **Loboa EG** (Nov 2015). Additives doped PLA spunblown nonwovens for bacterial adhesion reduction and biomedical implantation. 2015 Annual Meeting of the North Carolina Tissue Engineering and Regenerative Medicine Society. Winston-Salem, NC.
13. Bodle JC, Hamouda MH, **Loboa EG** (Oct 2015). Lineage specific chemo – and mechanosensitivity of primary cilia in adipose-derived stem cells. 2015 Annual Meeting of the Biomedical Engineering Society. Tampa, FL. Podium Presentation.
14. Nordberg R, Charoenpanich A, **Loboa EG** (Oct 2015). Corin is a key regulator of osteogenesis in mesenchymal stem cells via angiogenic mechanisms. 2015 Annual Meeting of the Biomedical Engineering Society. Tampa, FL.
15. **Loboa EG** (Sep 2015). Effects of Donor Age and Menopausal Status on Proliferation and Osteogenic Differentiation of Human Adipose Derived and Bone Marrow Derived Mesenchymal Stem Cells. 2015 4th TERMIS World Congress. Boston, MA.
16. Mellor LF, Mehendale SV, Sonnenberg S, Taylor MA, Heubner P, Guilak F, Shirwaiker RA, **Loboa EG** (Sep 2015). Using human adipose derived stem cells and optimized 3D bioprinted scaffolds for osteochondral tissue engineering. 2015 4th TERMIS World Congress. Boston, MA.
17. Nordberg RC, Matthew FW, Zhang J, Starly B, **Loboa EG** (Sep 2015). Age-dependent regulation of hASC osteogenesis quantified via electrical cell-substrate impedance spectroscopy. 2015 4th TERMIS World Congress. Boston, MA.

18. Sonnenberg S, Taylor MA, Mellor L, Mehendale S, Shirwaiker R, **Loboa EG** (Apr 2015). Hybrid scaffold-reinforced extracellular matrix hydrogels for cartilage tissue engineering. 2015 Annual Meeting of the Society for Biomaterials. Charlotte, NC.
19. Mohiti-Asli M, Molina C, Rietzler K, Pourdeyhimi B, **Loboa EG** (Apr 2015). Highly elastic nanofibrous scaffolds for skin tissue engineering applications. 2015 Annual Meeting of the Society for Biomaterials. Charlotte, NC.
20. Mellor LF, Mehendale S, Mohiti-Asli M, Taylor MA, Pedersen C, Shirwaiker RA, **Loboa EG** (Mar 2015). Evaluation of micro and nano-scale scaffold architectures for osteochondral tissue engineering. 2015 Annual Meeting of the Orthopaedic Research Society. Las Vegas, NV.
21. Mellor LF, Taylor MA, Baker T, Hiremath M, Oxford JT, **Loboa EG** (Jan 2015). Crosstalk between subchondral bone and articular cartilage in reduced gravity may contribute to catastrophic joint damage. NASA HRP (Human Research Project) 2015 Annual Meeting. Galveston, TX.
22. Nordberg R, Mellor L, Orndorff D, **Loboa EG** (Jan 2015). LRP receptors in canonical Wnt signaling are responsive to microgravity and regulate cartilage homeostasis. NASA HRP (Human Research Project) 2015 Annual Meeting. Galveston, TX.
23. Nordberg R, Mellor L, Orndorff D, **Loboa EG** (Jan 2015). The roles of LRP4/5/6 in the regulation of cartilage homeostasis in unloading conditions – elucidating cartilage degeneration in disuse osteoarthritis. Biomedical Engineering Society: Cellular and Molecular Bioengineering 2015 Annual Meeting. St. Thomas, USVI.
24. Mellor LF, Taylor MA, Baker T, Hiremath M, Oxford JT, **Loboa EG** (Jan 2015). Mechanotransduction of articular cartilage and subchondral bone in unloading conditions. Biomedical Engineering Society: Cellular and Molecular Bioengineering 2015 Annual Meeting. St. Thomas, USVI. Podium Presentation.
25. Sonnenberg, S, Mellor L, Taylor, MA, **Loboa EG** (Jan 2015). Thermo-responsive, injectable extracellular matrix scaffold for cartilage regeneration. Biomedical Engineering Society: Cellular and Molecular Bioengineering 2015 Annual Meeting. St. Thomas, USVI.
26. Mohiti-Asli M, Murphy S, Saha S, Pourdeyhimi B, Atala A, **Loboa EG** (Jan 2015). Commercial translation of novel biomaterials: development of analgesic, anti-inflammatory bandages and evaluation of industry standard scale-up. Biomedical Engineering Society: Cellular and Molecular Bioengineering 2015 Annual Meeting. St. Thomas, USVI. Podium Presentation.
27. Tuin SA, Pourdeyhimi B, **Loboa EG** (Jan 2015). From textiles to tissues: economical, scalable, textile industry standard nonwovens for tissue engineering applications. Biomedical Engineering Society: Cellular and Molecular Bioengineering 2015 Annual Meeting. St. Thomas, USVI. Podium Presentation.
28. Cai S, Bodle J, Mathieu PS, Hamouda M, McCarty G, **Loboa EG** (Jan 2015). Are primary cilia sensors of electric field stimulation? Biomedical Engineering Society: Cellular and Molecular Bioengineering 2015 Annual Meeting. St. Thomas, USVI.
29. Mohiti-Asli M, Saha S, Pourdeyhimi B, **Loboa EG** (Dec 2014). High throughput electrospinning of anti-inflammatory nanofibers for wound healing applications. 2014 Annual Meeting of the Tissue Engineering and Regenerative Medicine International Society (TERMIS). Washington, DC.
30. Cai S, Sheshadri P, Shirwaiker RA, **Loboa EG** (Dec 2014). Novel three dimensional polycaprolactone/hydroxyapatite scaffold with a shifted structure for bone tissue engineering applications.

- 2014 Annual Meeting of the Tissue Engineering and Regenerative Medicine International Society (TERMIS). Washington, DC.
31. Mellor LF, Williams J, Guilak F, Koh S, Piedrahita J, **Loboa EG** (Dec 2014). Effects of extracellular calcium in human and porcine adipose derived stem cell differentiation. 2014 Annual Meeting of the Tissue Engineering and Regenerative Medicine International Society (TERMIS). Washington, DC.
 32. Tuin SA, Pourdeyhimi B, **Loboa EG** (Oct 2014). Economical, scalable, textile industry standard nonwoven manufacturing for tissue engineering. Proceedings of the 16th Annual North Carolina Tissue Engineering and Regenerative Medicine Society Conference. Durham, NC. Podium Presentation.
 33. Mellor L, Williams J, Guilak F, Koh S, Piedrahita J, **Loboa EG** (Sep 2014). Effects of extracellular calcium in human and porcine adipose derived stem cell differentiation for osteochondral tissue engineering. 2014 Annual Meeting of the American Society of Bone and Mineral Research. Houston, TX.
 34. Mellor L, Baker TL, Hiremath JM, Oxford JRT, **Loboa EG** (Sep 2014). The effects of reduced gravity on subchondral bone and articular cartilage: are they good neighbors? 2014 Annual Meeting of the American Society of Bone and Mineral Research. Houston, TX.
 35. Mellor LF, Baker T, Hiremath M, **Loboa EG**, Oxford JT (Apr 2014). Effects of spaceflight on subchondral bone and articular cartilage health: are they good neighbors? World Congress on Osteoporosis, Osteoarthritis and Musculoskeletal Diseases. Seville, Spain.
 36. Bodle JC, Tuin S, Charoenpanich A, McCullen S, Marvel S, **Loboa EG** (Mar 2014). Functional tissue engineering: mechanobiology of adipose derived stem cells. 18th Annual Regenerative Medicine Workshop. Hilton Head Island, SC. Podium Presentation.
 37. Mellor L, Catlin L, Baker T, Hiremath M, **Loboa EG**, Oxford JT (Feb 2014). Sclerostin is up-regulated in articular chondrocytes exposed to simulated microgravity. 2014 NASA Human Research Program Investigators' Workshop. Houston, TX.
 38. Mohiti-Asli M, Pourdeyhimi B, **Loboa EG** (Nov 2013). Skin tissue engineering for the infected wound site: evaluations of PLA nanofibers and novel approach for silver ion release in a co-culture system of keratinocytes and Staphylococcus aureus. TERMIS 2013 Annual Meeting. Atlanta, GA.
 39. Teeter SD, Charoenpanich A, **Loboa EG** (Nov 2013). PDLIM4 and Corin are key regulators of hMSC osteogenesis and terminal differentiation in hypoxic conditions. TERMIS 2013 Annual Meeting. Atlanta, GA.
 40. Tuin SA, Cunningham DJ, Pfeiler TW, Bernacki SH, Pourdeyhimi B, **Loboa EG** (Nov 2013). 3-D computational modeling of fluid flow over winged fibers: winged fibers enhance shear stress and Runx2 expression in hASC. Proceedings of the 2013 Annual Joint Meeting of the Materials Research Society and Materials Information Society. Raleigh, NC.
 41. Mellor L, Catlin L, Baker T, Hiremath M, **Loboa EG**, Oxford JT (Oct 2013). Sclerostin is up-regulated in articular chondrocytes exposed to simulated microgravity. American Society of Bone and Mineral Research 2013 Annual Meeting. Baltimore, MD.
 42. Mohiti-Asli M, Murphy S, Saha S, Pourdeyhimi B, Atala A, **Loboa EG** (Oct 2013). Anti-inflammatory nanofibers for wound healing applications. 2013 North Carolina Tissue Engineering and Regenerative Medicine Society Conference. Winston-Salem, NC. Podium Presentation.
 43. Cai S, Asli M, Yang Y, **Loboa EG** (Oct 2013). Pure (100%) soyprotein electrospun fibers for wound healing applications. 2013 North Carolina Tissue Engineering and Regenerative Medicine Society Conference. Winston-Salem, NC.

44. Bodle J, Williams R, Atchison L, Bernacki S, **Loboa EG** (Oct 2013). The combined effects of simulated microgravity and radiation on cartilage health. 2013 NC Cartilage-Arthritis Research Alliance (NC-CARA) Meeting. Winston-Salem, NC.
45. Mellor L, Willey J, Hiremath M, **Loboa EG**, Oxford JT (Oct 2013). Effects of extracellular calcium in human and porcine adipose derived stem cell differentiation. 2013 North Carolina Tissue Engineering and Regenerative Medicine Society Conference. Winston-Salem, NC. [Podium Presentation](#).
46. Tuin SA, Cunningham DJ, Pfeiler TW, Bernacki SH, Pourdeyhimi B, **Loboa EG** (Oct 2013). 3-D computational modeling of fluid flow over winged fibers: winged fibers enhance shear stress and Runx2 expression in hASC. 2013 North Carolina Tissue Engineering and Regenerative Medicine Society Conference. Winston-Salem, NC.
47. Mellor L, Williams J, Guilak F, Koh S, Piedrahita J, **Loboa EG** (Oct 2013). Effects of extracellular calcium in human and porcine adipose derived stem cell differentiation. 2013 North Carolina Tissue Engineering and Regenerative Medicine Society Conference. Winston-Salem, NC. [Podium Presentation](#).
48. Tuin S, Miller S, Cunningham D, Pfeiler TW, Bernacki SH, Pourdeyhimi B, **Loboa EG** (Sep 2013). Winged fiber scaffolds enhance hASC proliferation, osteogenesis, and mechanosensitivity. BMES 2013 Annual Meeting. Seattle, WA. [Podium Presentation](#).
49. Bodle JC, Williams R, Veland I, Christensen S, **Loboa EG** (Sep 2013). Primary cilia on the differentiating adipose derived stem cell: investigating regenerative mechanisms on the cell level. BMES 2013 Annual Meeting. Seattle, WA.
50. Mohiti-Asli M, Murphy S, Saha S, Pourdeyhimi B, Atala A, **Loboa EG** (Sep 2013). In vitro and in vivo investigations of poly(L-lactic acid)/ibuprofen nanofibers for skin wound healing applications. BMES 2013 Annual Meeting. Seattle, WA.
51. Mathieu PS, Bodle JC, **Loboa EG** (Sep 2013). Finite element model exploring the role of primary cilia length adaptation on hASC in response to mechanical load. BMES 2013 Annual Meeting. Seattle, WA.
52. Bodle JC, Williams RB, Rubenstein CD, **Loboa EG** (Feb 2013). Adipose stem cell primary cilia exhibit conformational changes in response to chemical and mechanical stimulation. 2013 Annual Meeting of the Nordic Cilia and Centrosome Network. Sigtuna, Sweden. [Podium Presentation](#).
53. Tuin SA, Williams J, Mohiti-Asli M, Dent M, Kannan A, Hluck B, **Loboa EG** (Jan 2013) Osteochondral tissue engineering using human adipose derived stem cells. 2013 Annual Meeting of the Orthopaedic Research Society. San Antonio, TX.
54. Lott LQ, Mohiti-Asli M, **Loboa EG** (Nov 2012). Electrospinning PLA nanofibers containing ibuprofen for wound healing applications. 2012 Annual Biomedical Research Conference for Minority Students (ABRCMS).
55. Mohiti-Asli M, Pourdeyhimi B, **Loboa EG** (Oct 2012). Antimicrobial PLA nanofibers releasing silver ions as a skin substitute for burn wound healing applications. 2012 Annual Meeting of the Biomedical Engineering Society. Atlanta, GA. [Podium Presentation](#).
56. Czernuszewicz T, Charoenpanich A, **Loboa EG**, Gallippi CM (Oct 2012). Nondestructive mechanical testing of human knee meniscus allografts using MSSER ultrasound. 2012 IEEE International Ultrasonics Symposium. Dresden, Germany.
57. Bodle JC, Mathieu PS, Phillips ME, Rubenstein C, Bernacki SH, **Loboa EG** (Oct 2012). Primary cilia on adipose-derived stem cells in 3D culture: what is the structure-function relationship? 2012 Annual Meeting of the Biomedical Engineering Society. Atlanta, GA. [Podium Presentation](#).

58. Bodle JC, Phillips ME, Rubenstein C, **Loboa EG** (Sep 2012). Primary cilia: does cilium architecture predict lineage specification in adipose-derived stem cells. TERMIS World 2012 Conference. Vienna, Austria. [Podium Presentation](#).
59. Charoenpanich A, Wall ME, Tucker CJ, Andrews DMK, Lalush DS, Dirschl DR, **Loboa EG** (Sep 2012). Microarray analysis of human MSC in 3D collagen culture: 10% uniaxial cyclic tensile strain upregulates genes associated with musculoskeletal and cardiovascular development. TERMIS World 2012 Conference. Vienna, Austria.
60. Mohiti-Asli M, Pourdeyhimi B, **Loboa EG** (Sep 2012). Silver releasing nanofibrous skin substitute. 2012 Annual Meeting of the North Carolina Tissue Engineering and Regenerative Medicine Society. Raleigh, NC.
61. Williams RB, Bodle JC, Rubenstein CD, **Loboa EG** (Sep 2012). Adipose stem cell primary cilia exhibit conformational changes in response to chemical and mechanical stimulation. 2012 Annual Meeting of the North Carolina Tissue Engineering and Regenerative Medicine Society. Raleigh, NC.
62. Mathieu PS, Bodle JC, **Loboa EG** (Sep 2012). Computational modeling of primary cilia of various conformation on cells exposed to 3D tensile strain. 2012 Annual Meeting of the North Carolina Tissue Engineering and Regenerative Medicine Society. Raleigh, NC.
63. Charoenpanich A, Wall ME, Tucker CJ, Andrews DMK, Lalush DS, Dirschl DR, **Loboa EG** (Sep 2012). Microarray analysis of human MSC from osteoporotic donors in 3D collagen culture: the effect of 10% uniaxial cyclic tensile strain. 2012 Annual Meeting of the North Carolina Tissue Engineering and Regenerative Medicine Society. Raleigh, NC.
64. Tuin SA, Miller SM, Ganesh V, Cunningham DJ, Pfeiler TW, Bernacki SH, Pourdeyhimi B, **Loboa EG** (Sep 2012). Pulsatile fluid flow increases Runx2 expression in human adipose derived stem cells cultured on novel three-dimensional high surface area poly(L-lactic acid) scaffolds. 2012 Annual Meeting of the North Carolina Tissue Engineering and Regenerative Medicine Society. Raleigh, NC.
65. Charoenpanich A, Wall ME, Tucker CJ, Andrews DMK Lalush DS, Dirschl D, **Loboa EG** (Aug 2012). Microarray analysis of human MSC from osteoporotic donors in 3D collagen culture: 10% uniaxial cyclic tensile strain upregulates genes associated with bone formation and angiogenesis. Gordon Research Conference on Musculoskeletal Biology and Bioengineering. Proctor Academy, Andover, NH.
66. Charoenpanich A, Bodle JC, McCullen SD, **Loboa EG** (Mar 2012). Biomimetic material and mechanical stimuli for functional bone tissue engineering using human adipose-derived stem cells. 2012 Hilton Head Regenerative Medicine Conference. Hilton Head Island, SC. [Podium Presentation](#).
67. Charoenpanich A, Wall ME, Tucker CJ, Andrews D, Lalush DS, **Loboa EG** (Feb 2012). Microarray analysis of human mesenchymal stem cells in 3D collagen culture: 10% uniaxial cyclic tensile strain upregulates genes associated with differentiation of bone cell lines in the absence of soluble osteogenic inductive factors. ORS 2012 Annual Meeting. San Francisco, CA. [Podium Presentation](#).
68. Mohiti-Asli M, Pourdeyhimi B, **Loboa EG** (Feb 2012). Creation of core-sheath PLA nanofibers doped with tricalcium phosphate as a controlled release system for bone tissue engineering applications. ORS 2012 Annual Meeting. San Francisco, CA.
69. Bodle JC, Rubenstein CD, Phillips ME, Charoenpanich A, Bernacki SH, **Loboa EG** (Feb 2012). Primary cilia exhibit 2D and 3D sensitivity to substrate environment: implications for adipose stem cells in musculoskeletal tissue engineering. ORS 2012 Annual Meeting. San Francisco, CA.
70. Charoenpanich A, Bodle JC, McCullen SD, Bernacki SH, **Loboa EG** (Jan 2012). Functional bone tissue engineering using human adipose derived stem cells and biomimetic physical stimuli. 2012 BMES-

SPRBM Conference on Cellular and Molecular Bioengineering. San Juan, Puerto Rico. Podium Presentation.

71. Charoenpanich A, Williams J, Spang J, Bernacki SH, **Loboa EG** (Dec 2011). Proliferation and chondrogenic differentiation of human adipose-derived stem cells in a needle-punched, porous, decellularized human allograft-derived meniscus. The TERMIS North America 2011 Annual Conference & Exposition. Houston, TX.
72. Bodle JC, Williams JM, Phillips ME, SooHoo JR, Sakhare AR, Bernacki SH, **Loboa EG** (Dec 2011). Novel tensile strain bioreactor for analysis of primary cilia-extracellular matrix interactions in adipose-derived stem cells. The TERMIS North America 2011 Annual Conference & Exposition. Houston, TX.
73. Charoenpanich A, Spang J, **Loboa EG** (Nov 2011). Cell seeding, migration, proliferation and alignment of human adipose derived stem cells in a decellularized needle punched porous human allograft meniscus. 2011 Annual Meeting of the North Carolina Tissue Engineering and Regenerative Medicine Society. Winston-Salem, NC. Podium Presentation.
74. Shi H, Charoenpanich A, Pourdeyhimi B, **Loboa EG** (Nov 2011). Human adipose derived stem cell migration and proliferation in stacked, porous, poly(L-lactic acid) scaffolds. 2011 Annual Meeting of the North Carolina Tissue Engineering and Regenerative Medicine Society. Winston-Salem, NC.
75. Williams JM, Kannan A, Dent MR, Estes BT, Moutos FT, Hluck BH, Guilak F, **Loboa EG** (Nov 2011). Elevated extracellular calcium inhibits chondrogenic differentiation of human adipose derived stem cells in pellet culture. 2011 Annual Meeting of the North Carolina Tissue Engineering and Regenerative Medicine Society. Winston-Salem, NC.
76. Rubenstein CD, Bodle JC, Phillips ME, **Loboa EG** (Nov 2011). Human adipose derived stem cells exhibit changes in primary cilia conformation and lineage specification in response to varying substrate stiffness. 2011 Annual Meeting of the North Carolina Tissue Engineering and Regenerative Medicine Society. Winston-Salem, NC.
77. Bodle JC, Rubenstein CD, Phillips ME, Bernacki SH, **Loboa EG** (Nov 2011). Primary cilia dynamically modulate phenotypic specification in adipose-derived stem cells. 2011 Annual Meeting of the North Carolina Tissue Engineering and Regenerative Medicine Society. Winston-Salem, NC.
78. Saha S, Mohiti-Asli M, Gracz H, Pourdeyhimi B, **Loboa EG** (Nov 2011). Ibuprofen loaded PLA scaffolds for wound healing applications. 2011 Annual Meeting of the North Carolina Tissue Engineering and Regenerative Medicine Society. Winston-Salem, NC.
79. Mathieu PM, Cunningham DJ, Pourdeyhimi B, **Loboa EG** (Nov 2011). Finite element analysis of fluid shear stress in spunbond poly(L-lactic acid) (PLA) scaffolds in response to varying fluid flow rates. 2011 Annual Meeting of the North Carolina Tissue Engineering and Regenerative Medicine Society. Winston-Salem, NC.
80. Mohiti-Asli M, Pourdeyhimi B, **Loboa EG** (Nov 2011). Development of antimicrobial electrospun scaffolds for wound healing applications. 2011 Annual Meeting of the North Carolina Tissue Engineering and Regenerative Medicine Society. Winston-Salem, NC.
81. Bodle JC, Phillips ME, Rubenstein C, Charoenpanich A, Bernacki SH, **Loboa EG** (Oct 2011). Primary cilia modulate induction of osteogenic differentiation in adipose derived stem cells. 2011 Annual Meeting of the Biomedical Engineering Society. Hartford, CT. Podium Presentation.
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Patents Issued

1. U.S. Patent No. 9,043,156. Methods, systems and computer readable media for monitored application of mechanical force to samples using acoustic energy and mechanical parameter value extraction using mechanical response models. May 26, 2015.

Patents/Disclosures Filed

1. NCSU Disclosure No. 15069. Biodegradable nanofibers for delivery of stem cells in treatment of glioblastoma. Sept. 5, 2014.
2. NCSU Disclosure No. 15062. Fabrication of 100% pure soy protein nonwovens at large industrial scale by solution blowing technology. Aug. 25, 2014.
3. NCSU Disclosure No. 14246. Manufacture of lightweight, low density hollow mushroom-gilled fibers. Aug. 18, 2014.
4. NCSU Disclosure No. 14233. Multifunctional nanofibrous wound dressings. May 22, 2014.
5. U.S. Patent Application Serial No. 14/437,624. Nonwoven fiber materials. Nov. 21, 2012.
6. U.S. Patent Application Serial No. 12/607,986. Methods, systems and computer readable media for monitored application of mechanical force to samples using acoustic energy and mechanical parameter value extraction using mechanical response models. Oct. 28, 2009.
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Current Research Grants and External Funding

1. NSF/CBET 1702841 Loboa (PI) 09/01/17 – 08/31/21
Collaborative Research: 3D-Biofabrication of hASC-based Biomimetic Osteochondral Tissue and the Role of Extracellular Calcium Receptor.
Role: PI \$396,359 (Loboa Direct and Indirect costs) Total Project = \$600,000
2. Missouri Department of Higher Education Loboa (PI) **07/01/20 – Current
Imaging the Future - Clinical Service Engineering for Missouri
Role: PI \$5,114,444 (Direct & Indirect Costs; Request & Cost Share)
** Recommended to Governor by the Missouri Board of Higher Education for state funding in FY20 and approved and awarded. Funding was withheld until FY22 due to Covid-19 budget cuts. Due to SMU Provost appointment, all funding and research maintained and overseen by MU.

Past Research Grants and External Funding

1. NIH SBIR 1R43OD026279 CryoCrate (PI) 09/01/18 – 08/31/19
In-Situ Cryopreservation without Cryoprotectants
Role: Co-I (Academic PI) \$90,113.00 (Loboa Direct & Indirect costs)
2. UNC GA Research Opportunities Initiative Award Jay/Ligler (PI) 07/01/15 – 06/31/18
Integrating engineering with pharmaceutical sciences to improve the delivery of therapeutic and diagnostic agents
Role: Co-PI on Project 3 \$1,830,000
3. OREF 15-059 Spang (PI) 07/01/15 – 06/30/18

- Development of a functional osteochondral replacement graft: 3D tissue engineering and biomimetic stem cell guidance.
Role: Co-PI \$250,000 (Direct and Indirect costs)
4. NCSU Chancellor's Faculty Excellence Program Ghashghaei (PI) 08/15/15 – 07/31/18
Faculty cluster hire in quantitative and computational developmental biology
Role: College of Engineering Lead (*until took position as MU COE Dean*) \$4-6 million
 5. NWI 14-160 Loba (PI) 01/05/15 – 01/14/18
Structure-Process-Property Relationship of Additive Loaded SpunBlown Nonwovens.
Role: PI \$150,000 (Direct costs)
 6. NIH/NIA 1-F30-AG040868-01 O'Connor (PI) 07/01/11 – 05/31/16
Osmotic Signaling in Chondrocyte Aging & Osteoarthritis
Mentor to MD/PhD candidate Chris O'Connor for graduate research in osteoarthritis.
Role: Co-I and UNC Advisor \$161,689
 7. NIH R37AR049003 Loeser (PI) 04/01/15 – 03/31/16
Integrins and Mechanotransduction in Cartilage
Role: Co-I \$152,000
 8. Dick & Marlene Daugherty Entrepreneurialism Endowment Loba (PI) 04/01/15 – 03/31/16
Precision Diagnostics/PrecisiBand start-up endeavors
Role: Company Founder & PI \$3,500 (Direct costs)
 9. NSF/CBET 1133427 Loba (PI) 01/15/12 – 01/14/16
IDR: Primary Cilia as Sensors of Electric Field during Electrical Stimulation Induced hASC Osteogenesis
Investigation of role of primary cilia as mechanotransduction mechanism of AC electric fields during electric field stimulation of hASC osteogenic differentiation.
Role: PI \$594,210
 10. NSF CMMI/BMMB: Conference Support Award Loba (PI) 01/06/15 – 01/05/16
2015 Cellular and Molecular Bioengineering (CMBE) Conference
The major goal of this project is to provide funding for students, trainees, and young faculty to attend and present work at the 2015 BMES Cell and Molecular Bioengineering Conference.
Role: PI \$15,000 (Direct costs)
 11. NIH/NIBIB/NCI/NICHHD R13 Loba (PI) 01/06/15 – 01/05/16
2015 CMBE Conference: From Womb to Tomb: Mechanobiology of Generation, Regeneration and Degeneration
The major goal of this project is to provide funding for students, trainees, and young faculty to attend and present work at the 2015 BMES Cell and Molecular Bioengineering Conference.
Role: PI \$15,000 (Direct costs)
 12. William R. Kenan Jr. Institute for Engineering, Loba (PI) 01/03/15 – 01/02/16
Technology and Science
The Angiogenic and Osteogenic Effects of Cyclic Tensile Strain on a Co-culture of Adipose-Derived Stem and Endothelial Cells
Investigation of mechanical effects on paracrine signaling between adipose stem cells and endothelial cells for enhanced bone formation

- Role: PI \$15,000 (Direct costs)
13. National Space Biomedical Research Institute Mellor (PI) 12/01/14 – 11/30/15
 Crosstalk between subchondral bone and articular cartilage in reduced gravity may contribute to catastrophic joint damage.
 Role: PI to Liliana Mellor, Research Assistant Professor in my lab \$50,000
 14. University Faculty Scholars Program Loboa 08/15/12 – 10/15/15
 University Faculty Scholar Award
 Recognition of emerging academic leaders. Awarded title from university to include annual supplement of \$10,000/year for 5 years toward supplemental salary or programmatic support.
 Role: Awardee \$50,000 (Direct costs)
 15. NIH CTSA 550KR71418 Loboa (PI) 10/01/14 – 09/31/15
 Biocompatible, Biodegradable Controlled Release Smart Bandages for Regenerating Skin and Healing Infected Wounds
 Investigation of controlled-release degradable bandages for healing infected wounds.
 Role: PI \$50,000 (Direct costs)
 16. 2013-CFG-8008 Loboa (PI) 10/01/13 – 09/31/15
 NC Biotechnology Center/DOW Chemical
 Development and Translation of Controlled Release Smart Bandages for Antimicrobial, Antibacterial, and Anti-Inflammatory Wound Healing Applications
 Role: PI \$120,000 (Direct costs)
 17. William R. Kenan Jr. Institute for Engineering, Technology & Science
 Translational Regenerative Medicine Initiative Piedrahita (PI) 08/16/14 – 08/15/15
 Role: Co-PI \$80,000 (Direct costs)
 18. NSF Graduate Research Diversity Supplement Loboa (PI) 08/15/12 – 08/14/15
 Supplement to NSF/CBET IDR 1133427
 Supplement to current funded NSF grant to broaden participation of underrepresented students in PhD programs in engineering.
 Role: PI \$41,000
 19. NIH CTSA 550KR61325 Loboa (PI) 07/01/14 – 06/30/15
 Fiber-Reinforced Extracellular Matrix Hydrogels for Skeletal Muscle Regeneration
 Investigation of synthetic polymeric fibrous systems for reinforcement of ECM derived hydrogels to regenerate skeletal muscle
 Role: PI \$50,000 (Direct costs)
 20. NWI 11-136 Loboa (PI) 05/16/12 – 05/15/15
 Interconnected Micropores in Hollow Nonwoven Fibers
 Creation and scale up of hollow nonwoven fibers with enhanced diffusion capabilities for tissue engineering and regenerative medicine applications.
 Role: PI \$132,000 (Direct costs)
 21. NSF CBET-1358349: Conference Support Award Mauck (PI) 12/01/13 – 11/30/14
 2014 Cellular and Molecular Bioengineering (CMBE) Conference
 The major goal of this project is to provide funding for students, trainees, and young faculty to attend and present work at the 2014 BMES Cell and Molecular Bioengineering Conference.
 Role: Co-PI \$15,000 (Direct costs)

22. NIH/NIBIB 1R13 EB0818181 Mauck (PI) 09/30/13 – 08/31/14
 2014 Cellular and Molecular Bioengineering (CMBE) Conference
 The major goal of this project is to provide funding for students, trainees, and young faculty to attend and present work at the 2014 BMES Cell and Molecular Bioengineering Conference.
 Role: Co-PI \$10,000 (Direct costs)
23. CCMTR Translational Research Grant Loba (PI) 07/01/13 – 06/30/14
 Improving Osteochondral Tissue Engineering in a Large Animal Model
 Comparing and optimizing osteochondral tissue engineering in a porcine model using adipose derived stem cells and chondrocytes for improved large animal model investigations of human pathologies.
 Role: PI \$15,000 (Direct costs)
24. Orthopaedic Trauma Association Ostrum (PI) 01/01/13 – 12/31/13
 Human Adipose Derived Stem Cells for Nonunion Bone Regeneration.
 Pilot study funds to investigate novel bone regeneration approaches for nonunion in a murine model.
 Role: Co-PI \$25,000
25. NCRC 10-128 Loba (PI) 08/01/10 – 08/31/13
 Controlled Release Systems using Core-Sheath Nanofibers for Wound Healing and Tissue Engineering Applications
 Development and application of core-sheath technologies for controlled release systems.
 Role: PI \$150,000 (Direct costs)
26. NIH/NIBIB 1R03EB008790 Loba (PI) 02/01/10 – 01/31/13
 Tensile Strain-Induced Osteogenesis of Human Mesenchymal Stem Cells in 3D Culture
 Investigation of tensile strain effects on osteogenesis of human adipose derived adult stem cells in 3D collagen culture.
 Role: PI \$144,226
27. Chancellor's Innovation Fund Loba (PI) 07/01/11 – 01/01/13
 Commercial Development of Hollow, Porous, Nonwoven Fibers as Controlled Release Systems for Wound Healing, Tissue Engineering, and Regenerative Medicine Applications
 Role: PI \$85,000 (Direct costs)
28. NIH/NCRR 10KR51023 Loba (PI) 02/01/10 – 01/31/11
 Controlled AC Electric Fields for Osteogenesis of Human Adipose Derived Stem Cells
 Investigation of the role of physiologic AC electric fields on bone formation by hASCs using custom interdigitated electrodes.
 Role: PI \$10,000 (Direct costs)
29. North Carolina Biotechnology Center MRG Loba (PI) 08/01/07 – 07/31/10
 The Role of Palladin in the Mechanobiology of Human Mesenchymal Stem Cells
 Investigation of the role that cytoskeletal protein palladin plays in mechanotransduction of hMSCs during tensile strain induced osteogenic differentiation of hMSCs.
 Role: PI \$275,000 (Direct costs)
30. UK-US Stem Cell Collaboration Development Award Loba (PI) 12/01/09 – 03/15/10
 Travel funds for visit and presentation at Imperial College, London on Loba lab research and to develop collaboration with Prof. Molly Stevens (Materials Dept., Imperial College) regarding stem cell based approaches to functional bone tissue engineering.
 Role: PI £3860 (~\$6,600) (Direct costs)
31. Nonwovens Cooperative Research Center Loba (PI) 08/15/05 – 08/15/09
 Hollow Fiber Nonwoven Structures with Interconnected Pore Configuration

- Studies to determine means to create hollow fibers with interconnected pores for use in tissue engineering applications.
Role: PI \$135,000 (Direct costs)
32. Center for Comparative Medicine and Translational Research Loba (PI) 07/01/08 – 06/31/09
Effects of Electrical Stimulation on Neuronal and Glial Differentiation of Fetal Porcine Neural Stem Cells Seeded in Three-Dimensional Poly-L-Lactic Acid Scaffolds
Investigation of electrical stimulation to control differentiation of neural stem cells.
Role: PI \$25,000 (Direct costs)
33. Veterinary Practice Plan, CVM, NCSU Marcellin (PI) 04/01/08 – 03/31/09
In Vitro Response to TiAl6V4 and EBM made Titanium on Human Adipose Derived Stem Cell Culture
Determination of titanium processing on viability and proliferation of adipose-derived adult stem cells.
Role: Co-PI \$15,000 (Direct costs)
34. National Textile Center Gupta (PI) 05/01/05 – 03/31/09
Electrospun Core-Sheath Fibers for Soft Tissue Engineering
Project to create and utilize novel bi-axial syringe to electrospin scaffolds for tissue engineering cartilage and other soft tissues.
Role: Co-I \$318,488
35. Veterinary Practice Plan, CVM, NCSU Marcellin (PI) 01/01/08 – 12/31/08
In vitro response of human adipose-derived adult stem cells to EBM-made titanium implants
Analyses of titanium processing on viability and proliferation of adipose-derived adult stem cells.
Role: Co-PI \$4,000 (Direct costs)
36. UNC-CH/NCSU BME Research Initiation Project Loba (PI) 09/1/07 – 06/30/08
Functional Bone Tissue Engineering via Electrical Stimulation of Adipose-Derived Human Mesenchymal Stem Cells using Conductive, Electrospun, Nanocomposite Scaffolds
Use of electrospun nanocomposite conductive scaffolds (multi-walled carbon nanotubes embedded within PLA fibers) to investigate electrical stimulation of adipose-derived adult stem cells to initiate osteogenesis.
Role: PI \$50,000 (Direct costs)
37. UNC-CH/NCSU BME Research Initiation Project Banes (PI) 09/01/07 – 06/30/08
Fabrication of a Venous Valve Replacement Device (VVRD)
Development of device to correct venous valvular insufficiencies.
Role: Co-I \$50,000 (Direct costs)
38. NCSU Internal Mini Grant – Wood and Paper Science Lucia (PI) 08/01/06 – 07/31/07
Novel fibrous biomaterial scaffolds for tissue engineering using human adipose-derived adult stem cells
Investigation of cellulose as potential substrate for tissue engineering with human adipose derived adult stem cells.
Role: Co-PI \$15,000 (Direct costs)
39. National Institutes of Health Banes (PI) 11/01/05 – 04/31/07
Bioreactor for Engineered Bioartificial Tissues
Analysis and revamp of Flexcell TissueTrain system with finite element analysis of new anchor designs.
Role: Co-PI \$100,000 (*Phase I STTR: Loba academic lead; Banes (Flexcell) industry lead*)
40. NCSU Multi-Disciplinary FRPD Lucia (PI) 03/01/06 – 2/28/07
Novel Fibrous Biomaterial Scaffolds for Tissue Engineering using Human Adipose-Derived Adult Stem Cells
Investigation of cellulose as potential substrate for tissue engineering with hASCs.
Role: Co-PI \$5,333 (Direct costs)

41. Ralph E. Powe Junior Faculty Award Loboa (PI) 05/01/05 – 04/30/06
Tissue Engineering Bone using Osteoporotic Mesenchymal Stem Cells
Project to promote osteogenesis of mesenchymal stem cells from osteoporotic patients.
Role: PI \$10,000 (Direct costs)
42. North Carolina Biotechnology Center IDG Loboa (PI) 03/01/05 – 02/28/06
Tissue Mechanics Laboratory for Enhancing Biotechnology in North Carolina
Equipment and facilities upgrade grant to obtain and install MTS 858 axial torsional test system for Tissue Mechanics Laboratory at NCSU.
Role: PI \$200,015 (Direct costs)
43. NCSU Multi-Disciplinary FRPD Loboa (PI) 03/01/04 – 02/28/05
Noninvasive Pre-Surgical Planning for Mandibular Reconstruction in a Canine Model using a Computed Tomography-Finite Element Analysis Approach
Project to arrive at a semi-automated means to convert CT image data into functional finite element models for pre-surgical planning prior to initiating mandibular distraction osteogenesis procedures.
Role: PI \$20,000 (Direct costs)

Granting Agency Reviewer

Army Research Office, Multidisciplinary University Research Initiative (ARO-MURI), 2014 - 2020
South Carolina EPSCoR/IDeA, 2013 – 2020
National Institutes of Health (NIH) P41 Site Visit Team, 2012 – 2020
American Institute of Biological Sciences, 2011 – 2020
Orthopaedic Research UK (previously Furlong Foundation), 2011 – 2020
National Science Foundation Engineering Research Center (NSF ERC) Site Visit Teams, 2009 – 2020
Pennsylvania Department of Health, 2009 – 2020
National Institutes of Health (NIH), 2008 – 2020
New York State Stem Cell Science (NYSTEM) and the Empire State Stem Cell Board, 2008 – 2020
Canada Foundation for Innovation, 2006 – 2020
National Science Foundation (NSF), 2005 – 2020

Teaching Experience

PROFESSOR, JOINT DEPARTMENT OF BIOMEDICAL ENGINEERING AT UNC-CHAPEL HILL AND NC STATE UNIVERSITY & MATERIALS SCIENCE & ENGINEERING AT NC STATE UNIVERSITY, RALEIGH, NC

Spr 2015 BME 302 Human Physiology for Engineers II
Spr 2015 BME 802/BMME 890 Coulter Seminar Series

ASSOCIATE PROFESSOR, JOINT DEPARTMENT OF BIOMEDICAL ENGINEERING AT UNC-CHAPEL HILL AND NC STATE UNIVERSITY & MATERIALS SCIENCE & ENGINEERING AT NC STATE UNIVERSITY, RALEIGH, NC

Spr 2014 BME 302 Human Physiology for Engineers II
Spr 2014 BME 802/BMME 890 Coulter Seminar Series
Spr 2013 BME 302 Human Physiology for Engineers II
Spr 2012 BME 302 Human Physiology for Engineers II
Fall 2011 BME/MSE 790 Mechanobiology of Skeletal Regeneration
Spr 2011 BME 302 Human Physiology for Engineers II
Spr 2010 BME 302 Human Physiology for Engineers II

ASSISTANT PROFESSOR, JOINT DEPARTMENT OF BIOMEDICAL ENGINEERING AT UNC-CHAPEL HILL AND NC STATE UNIVERSITY, RALEIGH, NC

Spr 2009 BME 302 Human Physiology for Engineers II
Spr 2008 BME 302 Human Physiology for Engineers II
Spr 2007 BME 302 Human Physiology for Engineers II

Spr 2005 BME 302 Human Physiology for Engineers II
Spr 2004 BAE382 Biomedical Engineering Applications

GUEST LECTURER, UNC-CHAPEL HILL, CHAPEL HILL, NC

2014 MOPH 864: Nanomedicine
2013 MOPH 864: Nanomedicine
2012 MOPH 864: Nanomedicine
2009 BMME 400: Introduction to Biomedical Engineering
2007 Phys 625/Phys 755 Stem Cells and Maturational Lineage Biology Seminar Series
2005-2007 BMME 400: Introduction to Biomedical Engineering
2006 ABC Fellows, Orthopaedic Grand Rounds, June 10, 2006
2005 MTSC 200: Principals of Tissue Engineering
2004, 2005 BMME 100: Introduction to Biomedical Engineering
2004 BME 251: From Genes to Tissues

GUEST LECTURER, NC STATE UNIVERSITY, RALEIGH, NC

2004 Biomathematics Seminar

ACTING ASSISTANT PROFESSOR, STANFORD UNIVERSITY, STANFORD, CA

2002-2003 ME80 Stress, Strain, and Strength

GUEST LECTURER, STANFORD UNIVERSITY, STANFORD, CA

2002 ME288 Bioengineering & Biodesign Seminar
2001 ME281 Orthopaedic and Cardiovascular Bioengineering and Medicine

Students and Post-Doctoral Fellows Supervised**Previous Master's Students – Chair**

1. 2004-07 *Ariel Hanson*, M.S., Joint Dept. of Biomedical Eng., UNC-CH/NCSU
2. 2005-06 *Seth McCullen*, M.S., Joint Dept. of Biomedical Eng., UNC-CH/NCSU
3. 2007-9 *Adisri Charoenpanich*, M.S., Joint Dept. of Biomedical Eng., UNC-CH/NCSU
4. 2006-9 *Skylar Marvel*, M.S., Joint Dept. of Biomedical Eng., UNC-CH/NCSU
5. 2010-12 *John Williams*, M.S., Joint Dept. of Biomedical Eng., UNC-CH/NCSU
6. 2010-14 *Pattie Mathieu*, MS, Joint Dept. of Biomedical Eng., UNC-CH/NCSU

Previous Master's Students – Co-Chair

1. 2005-7 *Jillian Rouse*, M.S., Joint Dept. of Biomedical Eng., UNC-CH/NCSU
2. 2007-10 *Magaly Ramirez*, M.S., Forest Biomaterials, NCSU

Previous Ph.D. Students – Chair

1. 2003-6 *Ruwan Sumanasinghe*, Ph.D., Joint Dept. of Biomedical Eng., UNC-CH/NCSU
2. 2004-9 *T. Wayne Pfeiler*, Ph.D., Joint Dept. of Biomedical Eng., UNC-CH/NCSU
3. 2005-9 *Carla Haslauer*, Ph.D., Joint Dept. of Biomedical Eng., UNC-CH/NCSU
4. 2005-9 *Seth McCullen*, Ph.D., Joint Dept. of Biomedical Eng., UNC-CH/NCSU
5. 2009-13 *Adisri Charoenpanich*, Ph.D., Joint Dept. of Biomedical Eng., UNC-CH/NCSU
6. 2010-13 *Mahsa Mohiti-Asli*, Ph.D., Textile Eng., NCSU
7. 2008-14 *Josephine Bodle*, Ph.D., Joint Dept. of Biomedical Eng., UNC-CH/NCSU
8. 2009-16 *Christopher O'Connor*, Ph.D., Joint Dept. of Biomedical Eng., UNC-CH/NCSU
9. 2011-16 *Stephen Tuin*, Ph.D., Joint Dept. of Biomedical Eng., UNC-CH/NCSU
10. 2013-17 *Rachel Nordberg*, Ph.D., Joint Dept. of Biomedical Eng., UNC-CH/NCSU
11. 2013-18 *Shaobo Cai*, Ph.D., Materials Science & Eng., NCSU

Previous Ph.D. Students – Co-Chair

1. 2002-5 *Gwanseob Shin*, Ph.D., Industrial Eng., NCSU
2. 2004-8 *Nilesh Ingle*, Ph.D., Fiber & Polymer Science, College of Textiles, NCSU and Joint Dept. of Biomed. Eng., UNC-CH/NCSU
3. 2006-10 *Meghan Samberg*, Ph.D., Joint Dept. of Biomedical Eng., UNC-CH/NCSU
4. 2007-11 *Oswaldo Lazoya*, Ph.D., Joint Dept. of Biomedical Eng., UNC-CH/NCSU

Post-doctoral Research Fellows Supervised

1. 2004-6 *Michelle Wall*, Ph.D., Postdoctoral Fellow, Joint Dept. of Biomedical Eng., UNC-CH/NCSU
2. 2008-9 *Xiaodong Cao*, Ph.D., Postdoctoral Fellow, Joint Dept. of Biomedical Eng., UNC-CH/NCSU and Forest Biomaterials, NCSU
3. 2009-10 *Carla Haslauer*, Ph.D., Postdoctoral Fellow, Joint Dept. of Biomedical Eng., UNC-CH/NCSU
4. 2013-16 *Liliana Mellor*, Ph.D., Postdoctoral Fellow, Joint Dept. of Biomedical Eng., UNC-CH/NCSU
5. 2013-16 *Mahsa Mohiti-Asli*, Ph.D., Postdoctoral Fellow, Joint Dept. of Biomedical Eng., UNC-CH/NCSU
6. 2013-15 *Sonya Sonnenberg*, Ph.D., Postdoctoral Fellow, Joint Dept. of Biomedical Eng., UNC-CH/NCSU
7. 2014-16 *Andrew Steward*, Ph.D., Postdoctoral Fellow, Joint Dept. of Biomedical Eng., UNC-CH/NCSU
8. 2015-16 *Josephine Bodle*, Ph.D., Postdoctoral Fellow, Joint Dept. of Biomedical Eng., UNC-CH/NCSU
9. 2017-18 *Rachel Nordberg*, Ph.D., Postdoctoral Fellow, College of Engineering, UM-Columbia
10. 2019 *Rasoul Seyedmahmoud*, Ph.D., Postdoctoral Fellow, College of Engineering, UM-Columbia

Doctoral and Master's Committee Memberships

1. 2003-7 *Ray Yao*, Ph.D. Candidate, Joint Dept. of Biomedical Eng., UNC-CH/NCSU
2. 2003-7 *Ann Marie Fox*, Ph.D. Candidate, Joint Dept. of Biomedical Eng., UNC-CH/NCSU
3. 2005-9 *Ajit Moghe*, Ph.D. Candidate, Fiber and Polymer Science, NCSU

4. 2005-9 *Avanika Mahajan*, Ph.D. Candidate, Animal Science, NCSU
5. 2005-9 *Richard Shoge*, Ph.D. Candidate, Joint Dept. of Biomedical Eng., UNC-CH/NCSU
6. 2006-10 *Ben Moody*, Ph.D. Candidate, Joint Dept. of Biomedical Eng., UNC-CH/NCSU
7. 2006-10 *Jessica Springer*, Ph.D. Candidate, Dept. of Industrial Eng., NCSU
8. 2006-10 *Russ Behler*, Ph.D. Candidate, Joint Dept. of Biomedical Eng., UNC-CH/NCSU
9. 2006-11 *Brandon Conover*, Ph.D. Candidate, Dept. of Electrical and Computer Eng., NCSU
10. 2007-11 *Rachael Turner*, Ph.D. Candidate, Joint Dept. of Biomedical Eng., UNC-CH/NCSU
11. 2007-11 *Fatih Canbolat*, Ph.D. Candidate, Fiber and Polymer Science, NCSU
12. 2008-9 *Maria Ina*, M.S. Candidate, Textile Eng., NCSU
13. 2008-10 *Aaron Richardson*, M.S. Candidate, Joint Dept. of Biomedical Eng., UNC-CH/NCSU
14. 2008-12 *Mallory Scola*, Ph.D. Candidate, Joint Dept. of Biomedical Eng., UNC-CH/NCSU
15. 2008-13 *Joao Ferreira*, Ph.D. Candidate, Dental School, UNC-Chapel Hill
16. 2009-14 *Shoeb Ahmed*, Ph.D. Candidate, Chemical and Biomolecular Eng., NCSU
17. 2009-14 *Ben Roberston*, Ph.D. Candidate, Joint Dept. of Biomedical Eng., UNC-CH/NCSU
18. 2009-14 *Jacob Thomas*, M.S. Candidate, Dept. of Physiology, NCSU
19. 2009-14 *Bruce Wiggan*, Ph.D. Candidate, Joint Dept. of Biomedical Eng., UNC-CH/NCSU
20. 2010-14 *Saurabh Bakshi*, M.S. Candidate, Dept. of Mechanical Eng., NCSU
21. 2010-15 *Ariel Hanson*, Ph.D. Candidate, Joint Dept. of Biomedical Eng., UNC-CH/NCSU
22. 2012-15 *Avinav Nandgaonkar*, Ph.D. Candidate, Fiber and Polymer Science, NCSU
23. 2012-15 *Robert Soto*, Ph.D. Candidate, Chemistry, UNC-Chapel Hill
24. 2012-16 *Astor Liu*, Ph.D. Candidate, Chemical & Biomolecular Eng., NCSU
25. 2012-17 *Asad Ahmad*, Ph.D. Candidate, Joint Dept. of Biomedical Eng., UNC-CH/NCSU
26. 2015-16 *Michael Collier*, Ph.D. Candidate, Pharmaceutical Sciences, UNC-Chapel Hill
27. 2013-18 *Rahim Jindani*, Ph.D. Candidate, Fiber & Polymer Science & Biomedical Eng., NCSU

Undergraduates Supervised in Laboratory Research

1. 2003-6 *Carolyn Yeago*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
2. 2004-5 *Ethan Azargoon*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
3. 2004-5 *Stephanie Coates*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
4. 2004-5 *Penney Martin*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
5. 2004-5 *Amanda Walls*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
6. 2004-5 *Sarah Brumbaugh*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
7. 2004-6 *Katherine Dulaney*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
8. 2004-7 *Jennifer Jassawalla*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
9. 2004-7 *Tabitha Staniszewski*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
10. 2004-7 *Eric Rush*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
11. 2004-7 *Neil Shah*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
12. 2004-7 *Jillian Rouse*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
13. 2004-8 *Allison Finger*, HHMI SRI intern and Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
14. 2005-7 *Catherine Ward*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
15. 2006-8 *Ben Shillinglaw*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
16. 2006-8 *Meghan Vidt*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
17. 2006-7 *Weldon Whitener*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
18. 2006-9 *Jennifer Puetzer*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
19. 2007-9 *Maureen Onorato*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
20. 2007-9 *Adam Young*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
21. 2007-9 *Jen Bland*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
22. 2007-10 *JP McQuilling*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
23. 2008-9 *Ashwin Sakhare*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
24. 2008-10 *Elizabeth Kirk*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.

25. 2008-10 *John Petite*, Candidate for B.S., Dept. of Chemical & Biomolecular Eng., NC State Univ.
26. 2009-11 *Arthi Kannan*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
27. 2009-11 *Morgan Dent*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
28. 2009-12 *Trent Langston*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
29. 2010 *Yang Zhu*, NCSU-ZJU summer research program, Candidate for B.S. Dept. of Polymer Science and Eng., Zhejiang Univ.
30. 2010-11 *Joseph Hardin*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
31. 2010-12 *Candace Rubenstein*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
32. 2010-12 *Daniel Cunningham*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
33. 2010-12 *Shreea Saha*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
34. 2011 *Huayu Shi*, NCSU-ZJU summer research program, Candidate for B.S. Dept. of Polymer Science and Eng., Zhejiang Univ.
35. 2011-12 *Brendan McKelvy*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
36. 2011-12 *Thea Roper*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
37. 2010-12 *Michelle Phillips*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
38. 2010-13 *Ramey Williams*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
39. 2011-13 *Brandon Hluck*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
40. 2012-13 *Lewis Lott*, Candidate for B.S., Dept. of Biomedical Eng., Delaware State Univ.
41. 2012-13 *Lyman Woollens*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
42. 2012-13 *Varun Ganesh*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
43. 2012-13 *Chris Gardner*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
44. 2012-13 *Sean Miller*, Candidate for B.S., Dept. of Biomedical Eng., UNC Chapel Hill
45. 2013-14 *Sean D'Souza*, Candidate for B.S., Biology, NC State Univ.
46. 2012-14 *Chris Phillips*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
47. 2012-15 *Chris Vaughn*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
48. 2012-15 *Sarah Guess*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
49. 2012-15 *Taylor Cook*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
50. 2013-16 *Mehdi Hammouda*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
51. 2013-14 *Samuela Fernandes*, Candidate for B.S., Dept. of Biology, NC State Univ.
52. 2014-16 *Michael Taylor*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
53. 2014-15 *Casey Molina*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
54. 2014-15 *Toluwalope Oyelowo*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
55. 2014-15 *Devin Orndorff*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
56. 2014-15 *Christian Pedersen*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.
57. 2015-16 *Brady Trevisan*, Candidate for B.S., Dept. of Biomedical Eng., NC State Univ.

Service to the Profession: Professional Society Memberships

American Institute for Medical and Biological Engineering, 2015 – present
 American Association for the Advancement of Science, 2015 – present
 London Regenerative Medicine Network, 2010 – present
 Tissue Engineering and Regenerative Medicine International Society, 2010 – present
 Society for Physical Regulation in Biology and Medicine, 2007 – present
 Biomedical Engineering Society, 2004 – present
 Orthopaedic Research Society, 2004 – present
 American Society of Mechanical Engineers, 2004 – present
 Sigma Xi Scientific Research Society, 2004 – present
 American Society for Engineering Education, 2003 – present
 Association for Women in Science, 2002 – present

Service to the Profession: Journal Reviewer

1. *Acta Biomaterialia*
2. *Advanced Biomaterials*
3. *Annals of Biomedical Engineering*
4. *Biomacromolecules*
5. *Biomaterials*
6. *Biomechanics and Modeling in Mechanobiology*
7. *Biomedical Materials*
8. *Biophysical Reviews*
9. *BioResources*
10. *BioTechniques*
11. *Biotechnology and Bioengineering*
12. *BMC Biotechnology*
13. *Bone*
14. *Cartilage*
15. *Cells, Tissues, Organs*
16. *Cellulose*
17. *Journal of Biomaterials Science – Polymer Edition*
18. *Computer Methods in Biomechanics and Biomedical Engineering*
19. *Journal of Biomechanical Engineering*
20. *Journal of Biomechanics*
21. *Journal of Biomedical Materials Research, Part A*
22. *Journal of Biomedical Materials Research, Part B*
23. *Journal of Bone and Joint Surgery*
24. *Journal of Bone and Mineral Research*
25. *Journal of Cellular Biochemistry*
26. *Journal of Dental Research*
27. *Journal of Materials Research*
28. *Journal of Orthopaedic Research*
29. *Journal of Tissue Engineering and Regenerative Medicine*
30. *Medical and Biological Engineering and Computing*
31. *Nature Materials*
32. *PLoS One*
33. *PNAS*
34. *Stem Cells*
35. *Stem Cell Reports*
36. *Stem Cell Research & Therapy*
37. *The Open Orthopaedic Journal*
38. *Tissue Engineering*

References Available Upon Request