

CURRICULUM VITAE**BRENDA M. OGLE****IDENTIFYING INFORMATION****Academic Rank**

Professor of Biomedical Engineering
 Graduate Faculty Appointment in Programs
 Biomedical Engineering
 Molecular, Cellular, Developmental Biology and Genetics
 Stem Cell Biology
 Stem Cell Institute Leadership Team

Education

Degree	Institution	Date Degree Granted
B.A. Mathematics and Natural Science	College of St. Benedict/St. John's Univ.	1994
M.S. Biomedical Engineering, Minor, Mechanical Engineering	University of Minnesota-Twin Cities	1998
Ph.D. Biomechanics and Tissue Engineering/ Biomedical Engineering Advisor, Daniel L. Mooradian, Ph.D.	University of Minnesota-Twin Cities	2000

Positions/Employment

University of Minnesota, Twin Cities Campus Professor	2018-present
University of Minnesota, Twin Cities Campus Associate Professor	2013-2018
University of Wisconsin-Madison Associate Professor, Biomedical Engineering	2012-2013
University of Wisconsin-Madison Assistant Professor, Biomedical Engineering Affiliate Faculty: Materials Science Program, Laboratory for Cell and Molecular Biology	2006-2012

Mayo Clinical College of Medicine 2004-2006
Assistant Professor, Physiology and Biomedical Engineering (non-tenure track)

Postdoctoral appointments
Mayo Clinic College of Medicine 2000-2004
Surgery, Transplantation Biology
Advisor, Jeffrey L. Platt, National Academy of Science, Member

Graduate appointments 1996-2000
University of Minnesota-Twin Cities
Biomedical Engineering
Advisor, Daniel Mooradian

Research Intern
Medtronic, Inc., Promeon Division 1999-2000

Current Membership in Professional Organizations

Biomedical Engineering Society 1996 to present
Biomedical Engineering Society, Board of Directors 2016 to present
Society for Biomaterials 1997 to present
Phi Kappa Phi, Engineering Honor Society 1997 to present
Tissue Engineering and Regenerative Medicine International Society 2004 to present
American Society for Engineering Education 2006 to present
American Heart Association 2008 to present
International Society for Stem Cell Research 2010 to present

HONORS AND AWARDS FOR RESEARCH/CREATIVE WORK, TEACHING, PUBLIC ENGAGEMENT, AND SERVICE

University of Minnesota

Co-chair elect, Women's Faculty Cabinet, Provost Office 2014-2016
Tony Diggs Award for Excellent Graduate Student Group, Advisor 2015
Regenerative Medicine Minnesota, Inaugural Year Awardee 2015
Biobusiness and Biotechnology
Mullen-Spector-Truax Women's Leadership Award 2016

External Sources

National Institutes of Health Training Fellowship 2001, 2002
Mayo Clinic Digestive Disease
National Institutes of Health Training Fellowship 2003, 2004
Mayo Clinic Nephrology
National Institutes of Health Mentored Career Award 2004
Polygon Outstanding Professor Award 2007
UW-Madison, College of Engineering
Edward P. Mikol Best Paper Award 2008
American Society for Engineering Education
National Science Foundation CAREER Award 2009
Co-founder and scientific advisor 2009

Respicure, Inc. Distinguished Lecturer, Department of Chemical Engineering Michigan Technological University, MI	2011
American Institute for Medical and Biological Engineering Elected Fellow	2017

RESEARCH

Grants and Contracts

External Sources

Received at the University of Minnesota:

Co-Principal Investigator, contact PI Co-PI, Michael McAlpine National Institutes of Health, R01 Extracellular matrix regulation of differentiation via modulation of ILK: application to 3D biorprinting of cardiac tissue	2017-2021
Co-Principal Investigator Co-PI, Jianyi Zhang, contact PI National Institutes of Health, R01 Stem cell therapy for myocardial repair	2016-2020
Co-Investigator PI, Michael McAlpine Regenerative Medicine Minnesota, State of MN 4D printed programmable release capsules for spatial control of differentiation in 3D printed cardiac tissues	2017-2019
Principal Investigator American Heart Association, Grant in Aid Metabolic regulation of differentiation via modulation of REST	2014-2017
Principal Investigator Regenerative Medicine Minnesota, State of MN Design and Delivery of Advanced Therapeutics for the Treatment of Cerebrovascular Disease	2014-2015
Co-Investigator PI, Robert Tranquillo Regenerative Medicine Minnesota, State of MN Endothelialization of Engineered Coronary Artery Bypass Grafts Using Bone Marrow and Adipose-derived Mesenchymal Stem Cells	2014-2016
Principal Investigator National Science Foundation Development-specific changes in ECM topography influence cardiac specification	2013-2014

Received at the University of Minnesota – Student Grants

Molly Kupfer, Ph.D. Student of Brenda Ogle Biotechnology Training Grant, National Institutes of Health Principal Investigator, Wei-Shou Hu	2015-2017
Mikayla Hall, Ph.D. Student of Brenda Ogle Stem Cell Biology Training Grant, National Institutes of Health Principal Investigator, Rita Perlingiero	2018-2021
<i>Received at another institution (University of Wisconsin-Madison):</i>	
Principal Investigator Department of Defense, IDEA Award A Unique Opportunity to Test Whether Cell Fusion is a Mechanism of Breast Cancer Metastasis	2011-2014
Principal Investigator CAREER Award National Science Foundation Dissecting the biological impact of stem cell fusion: a unified plan for stem cell discovery via accessible engineering	2009-2014
Principal Investigator Innovative Research Grant (IRG) American Heart Association Multiphoton excitation photochemistry for 3D cardiac tissue engineering	2010-2012
Principal Investigator National Institutes of Health Challenge Grant: Intrinsic fluorescence to guide characterization and purification of stem cells	2010-2012
Principal Investigator National Institutes of Health, R21 Directed cell fusion for the treatment of myocardial infarction	2009-2011
Principal Investigator Translational Research Partnership Wallace H. Coulter Foundation Multiphoton flow cytometry to guide clinical cellular transplantation	2010-2011
Principal Investigator Translational Research Partnership Wallace H. Coulter Foundation Design of a sorting feature for multiphoton flow cytometry	2009-2010
Principal Investigator Graduate College Fall Research Competition University of Wisconsin-Madison Development of a novel multiphoton flow cytometry platform	2009-2010

Principal Investigator 2008-2009
 Translational Research Partnership
 Wallace H. Coulter Foundation
 Design of a sorting feature for multiphoton flow cytometry

Co-Investigator 2008-2009
 Innovation and Economic Development Grant
 University of Wisconsin-Madison
 Mechanical and optical optimization of multiphoton flow cytometry

Principal Investigator 2008
 Capital Equipment
 NPE Systems
 Flow Cytometry System

Principal Investigator 2008-2009
 Graduate College Fall Research Competition
 University of Wisconsin-Madison
 Development of a novel multiphoton flow cytometry system

Principal Investigator 2007-2008
 Translational Research Partnership
 Wallace H. Coulter Foundation
 Multiphoton flow cytometry to improve islet cell transplantation

Quyen Tran, Ph.D. Student of Brenda Ogle 2010-2014
 Graduate Research Fellow, National Science Foundation

Brian Freeman, Ph.D. Student of Brenda Ogle 2010-2014
 Graduate Research Fellow, National Science Foundation

Received at another institution (Mayo Clinic College of Medicine):

Principal Investigator 2004-2009
 National Institutes of Health, K25
 T cell compartment dynamics following thymectomy

University Sources

Principal Investigator 2015-2017
 Lillehei Heart Institute
 A unique opportunity to test whether ECM directs cardiac specification
 University of MN

Principal Investigator 2013-2014
 Institute of Engineering and Medicine
 Biorelevant 3D ECM Microenvironment for Stem Cell Differentiation
 and Delivery to the Heart
 University of MN

Publications

Coded author contributions: S = Study conception and design, A = Acquisition of data, I = Interpretation of data, D = Drafting of manuscript, C = Critical revision

Refereed Journal Articles

- J-64. Hu Shiqi, **Ogle BM**, Cheng K. Body Builder: From Synthetic Cells to Engineered Tissues. *Current Opinion in Cell Biology*. 54:37-42. 2018.
<https://www.ncbi.nlm.nih.gov/ezp2.lib.umn.edu/pubmed/29704858>
 D, C
- J-63. McArdle TJ, **Ogle BM**, Noubissi FK. Moving Upwards: A Simple and Flexible In Vitro Three-dimensional Invasion Assay Protocol. *Journal of Visualized Experiments*. 133. 2018.
<https://www.ncbi.nlm.nih.gov/ezp2.lib.umn.edu/pubmed/29578529>
 S, I, D, C
- J-62. Qiu K, Zhao Z, Haghiastiani G, Guo SZ, He M, Su R, Zhu Z, Bhuiyan DB, Marugan P, Park SH, Chu CC, **Ogle BM**, Saltzman DA, Konety BR, Sweet RM, McAlpine MC. Bioprinting: 3D Printed Organ Models with Physical Properties of Tissue and Integrated Sensor. *Advanced Material Technology*. 3(3). Pii: 1700235. 2018.
<https://www.ncbi.nlm.nih.gov/ezp2.lib.umn.edu/pubmed/29608202>
 I, C
- J-61. Tran QA, Ajeti V, Freeman BT, Campagnola PJ, and **Ogle BM**. Developmental pathways pervade stem cell responses to evolving extracellular matrices of 3D bioprinted microenvironment. *Stem Cells International*. 2018:4809673. 2018.
<https://www.ncbi.nlm.nih.gov/ezp2.lib.umn.edu/pubmed/29765414>
 S, I, D, C
- J-60. Gao L, Kupfer M, Jung J, Yang L, Zhang P, Sie Y, Tran Q, Ajeti V, Freeman B, Fast V, Campagnola P, **Ogle BM***, Zhang J*. Myocardial tissue engineering with cell derived from human induced-pluripotent stem cells and a native-like, high-resolution, 3-dimensionally printed scaffold. *Circulation Research*. 116.310277. 2017. *Co-corresponding authors, Cover Art, Editorial by Joseph Wu, MD, PhD, Stanford University; Covered by local media and article in *Newsweek*
<https://www.ncbi.nlm.nih.gov/pubmed/28069694>
 S, I, D, C
- J-59. Borovjagin AV, **Ogle BM**, Berry JL, Zhang J. From microscale devices to 3D printing: advances in fabrication of 3D cardiovascular tissues. *Circulation Research*. 120(1):150-165. 2017.
 D, C
<https://www.ncbi.nlm.nih.gov/pubmed/28057791>
- J-58. McArdle TJ, **Ogle BM**, Noubissi FK. An *in vitro* inverted vertical invasion assay to avoid manipulation of rare or sensitive cell types. *Journal of Cancer*. 7(15):2333-2340. 2016.
 S, I, D, C
<https://www.ncbi.nlm.nih.gov/pubmed/27994672>
- J-57. Noubissi-Kamdem F and **Ogle BM**. Cancer Cell Fusion: Mechanisms Slowly Unravel. *International Journal of Molecular Sciences*. 17(9). Pii:E1587. 2016.
 D, C
<https://www.ncbi.nlm.nih.gov/pubmed/27657058>
- J-56. **Ogle BM**, Bursac N, Domian I, Huang NF, Menasché P, Murry CE, Pruitt B, Radisic M, Wu JC, Wu SM, Zhang J, Zimmermann WH, Vunjak-Novakovic G. Distilling complexity to advance cardiac tissue engineering. *Science Translational Medicine*. 8;8(342):342ps13. 2016.
 D, C
<https://www.ncbi.nlm.nih.gov/pubmed/27280684>

- J-55. Hofbauer P, Jung JP, McArdle T and **Ogle BM**. Simple monolayer differentiation of murine cardiomyocytes via nutrient deprivation-mediated activation of b-catenin. *Stem Cell Reviews and Reports*. 12(6):731-743. 2016.
S, I, D, C
<https://www.ncbi.nlm.nih.gov/pubmed/27539623>
- J-54. Jung JP, Bhuiyan D and Ogle BM. Solid Organ Fabrication: Comparison of Decellularization to 3D Bioprinting. *Biomaterials Research*. 20(1):27. 2016.
D, C
<https://www.ncbi.nlm.nih.gov/pubmed/27583168>
- J-53. Freeman BT and **Ogle BM**. Viral-mediated fusion of mesenchymal stem cells with cells of the infarcted heart hinders healing via decreased vascularization and immune modulation. *Scientific Reports*. 6:20283. 2016.
S, I, D, C
<https://www.ncbi.nlm.nih.gov/pubmed/26846200>
- J-52. Jung JP, Bache-Wiig MK, Provenzano PP and **Ogle BM**. Heterogeneous differentiation of human mesenchymal stem cells in 3D extracellular matrix composites. *Bioresearch Open Access*. 5(1):37-48. 2016.
S, I, D, C
<https://www.ncbi.nlm.nih.gov/pubmed/26862471>
- J-51. Freeman BT, Jung JP and **Ogle BM**. Single-cell RNA-seq reveals activation of unique gene groups as a consequence of stem cell-parenchymal cell fusion. *Scientific Reports*. 6:23270. 2016.
S, I, D, C
<https://www.ncbi.nlm.nih.gov/pubmed/26997336>
- J-50. Jung JP and **Ogle BM**. An integrated statistical model for enhanced murine cardiomyocyte differentiation via optimized engagement of 3D extracellular matrices. *Scientific Reports*. 5:18705. 2015.
S, I, D, C
<https://www.ncbi.nlm.nih.gov/pubmed/26687770>
- J-49. Freeman BT, Jung JP and **Ogle BM**. Single-cell RNA-Seq of bone marrow derived mesenchymal stem cells reveals unique profiles of lineage priming. *PLoS One*. 10(9):e0136199. 2015.
S, I, D, C
<https://www.ncbi.nlm.nih.gov/pubmed/26352588>
- J-48. Kupfer ME and **Ogle BM**. Advanced imaging approaches for regenerative medicine: Emerging technologies for monitoring stem cell fate in vitro and in vivo. *Biotechnology Journal*. 10(10):1515-28. 2015.
D, C
<https://www.ncbi.nlm.nih.gov/pubmed/26228468>
- J-47. Noubissi F, Harkness TE, Alexander CM and **Ogle BM**. Apoptosis-induced cancer cell fusion: a mechanism of breast cancer metastasis. *FASEB Journal*. 29(9):4036-45. 2015.
S, I, D, C
<https://www.ncbi.nlm.nih.gov/pubmed/26085132>
- J-46. Thimm TN, Squirrell JM, Liu Y, Eliceiri KW, Lyons GE and **Ogle BM**. Endogenous optical signals reveal changes of elastin and collagen organization during differentiation of mouse embryonic stem cells. *Tissue Engineering Pt.C*. 21(10):995-1004. 2015.
S, I, D, C
<https://www.ncbi.nlm.nih.gov/pubmed/25923353>
- J-45. Freeman BT and **Ogle BM**. Tracking fusion of human mesenchymal stem cells following transplantation to the heart. *Stem Cells Translational Medicine*. 4(6):685-94. 2015.
S, I, D, C
<https://www.ncbi.nlm.nih.gov/pubmed/25848121>

- J-44. Buschke DG, Squirrell JM, Vivekanandan A, Rueden CT, Eliceiri KW, **Ogle BM**. Noninvasive sorting of stem cell aggregates based on intrinsic markers. *Cytometry A*. 85(4):353-8. 2014.
S, I, D, C
<https://www.ncbi.nlm.nih.gov/pubmed/24443408>
- J-43. Schmuck E, Mulligan JD, Ertel RL, Kouris NA, **Ogle BM**, Raval AN, Saupe K. Cardiac fibroblast-derived 3D extracellular matrix seeded with mesenchymal stem cells as a novel device to transfer cells to the ischemic myocardium. *Cardiovascular Engineering and Technology*. 5(1):119-131. 2014.
I, C
<https://www.ncbi.nlm.nih.gov/pubmed/24683428>
- J-42. Ajeti V, Lien CH, Chen SJ, Su PJ, Squirrell JM, Molinarolo KH, Lyons GE, Eliceiri KW, **Ogle BM**, Campagnola PJ. Image-inspired 3D multiphoton excited fabrication of extracellular matrix structures by modulated raster scanning. *Optics Express*. 21(21):25346-55. 2013.
S, I, D, C
<https://www.ncbi.nlm.nih.gov/pubmed/24150376>
- J-41. Martin MC, Dabat-Blondeau C, Unger M, Deslmair J, Parkinson DY, Bechtel HA, Illman B, Castro JM, Keiluweit M, Buschke DM, **Ogle BM**, Nass MJ, Hirschmugl CJ. 3D spectral imaging with synchrotron Fourier transform infrared spectro-microtomography. *Nature Methods*. 10(9):861-4. 2013.
I, C
<https://www.ncbi.nlm.nih.gov/pubmed/23913258>
- J-40. Jung JP, Sprangers AJ, Byce JR, Su J, Squirrell JM, Messersmith PB, Eliceiri KW and Ogle BM. ECM-incorporated hydrogels crosslinked via native chemical ligation to engineer stem cell microenvironments. *Biomacromolecules*. 14(9):3102-11. 2013.
S, I, D, C
<https://www.ncbi.nlm.nih.gov/pubmed/23875943>
- J-39. Harkness T, Weaver BA, Alexander CM, **Ogle BM**. Cell fusion in tumor development: accelerated genetic evolution. *Critical Reviews in Oncology*. 18(1-2):19-42. 2013.
S, D, C
<https://www.ncbi.nlm.nih.gov/pubmed/23237551>
- J-38. Buschke DG, Vivekanandan A, Squirrell JM, Rueden CT, Eliceiri KW and **Ogle BM**. Large particle multiphoton flow cytometry to purify intact embryoid bodies exhibiting enhanced potential for cardiomyocyte differentiation. *Integrative Biology*. 5:993-1003. 2013.
S, I, D, C
<https://www.ncbi.nlm.nih.gov/pubmed/23759950>
- J-37. **Ogle BM**, Palecek SP. Stem cell engineering – discovery, diagnostics and therapies. *Biotechnology Journal*. 8(4):390-1. 2013.
D, C
<https://www.ncbi.nlm.nih.gov/pubmed/23554245>
- J-36. Hanson K, Jung J, Tran Q, Hsu SP, Iida R, Eliceiri K, Squirrell J, Lyons G and **Ogle BM**. Spatial and temporal analysis of extracellular matrix proteins in the developing murine heart: a blueprint for regeneration. *Tissue Engineering*. 19(9-10):1132-1143. 2013.
S, I, D, C
<https://www.ncbi.nlm.nih.gov/pubmed/23273220>
- J-35. Tran QA, Su PJ, Fong JJ, Eliceiri KW, **Ogle BM**, Campagnola PJ. Mesenchymal stem cell interactions with 3D ECM modules fabricated via multiphoton excited photochemistry. *Biomacromolecules* 13(9):2917-2925. 2012.
S, I, D, C
<https://www.ncbi.nlm.nih.gov/pubmed/22876971>

- J-34. Squirrell JM, Buschke DG, Lyons G, Kamp TJ, Eliceiri KW and **Ogle BM**. Endogenous fluorescence signatures in living pluripotent stem cells change with loss of potency. *PLoS ONE* 7(8):e43708. 2012.
S, I, D, C
<https://www.ncbi.nlm.nih.gov/pubmed/22952742>
- J-33. Kouris NA, Schaefer JA, Hatta M, Kawaoka Y, Kamp TJ and **Ogle BM**. Directed fusion of mesenchymal stem cells with cardiomyocytes via VSV-G facilitates stem cell programming. *Stem Cells International* AI 414038. 2012.
S, I, D, C
<https://www.ncbi.nlm.nih.gov/pubmed/22701126>
- J-32. Buschke DG, Resto P, Schumacher N, Cox B, Tallavajhula A, Vivekanandan A, Eliceiri KW, Williams J and **Ogle BM**. Microfluidic sorting of microtissues. *Biomicrofluidics* 6(1):14116-1411611. 2012.
S, I, D, C
<https://www.ncbi.nlm.nih.gov/pubmed/22505992>
- J-31. Buschke DG, Squirrell JM, Fong J, Eliceiri KW and **Ogle BM**. Cell death, noninvasively assessed by intrinsic fluorescence intensity of NADH, is a predictive indicator of functional differentiation of embryonic stem cells. *Biology of the Cell* 104:352-364. 2012.
S, I, D, C
<https://www.ncbi.nlm.nih.gov/pubmed/22304470>
- J-30. Jung, J, Squirrell JM, Lyons G, Eliceiri KW and **Ogle BM**. Imaging cardiac extracellular matrices: a blueprint for regeneration. *Trends in Biotechnology* 30(4):233-40. 2012.
D, C
<https://www.ncbi.nlm.nih.gov/pubmed/22209562>
- J-29. King WJ, Kouris NA, Choi S, **Ogle BM** and Murphy WL. Environmental factors influencing non-viral transfection of human mesenchymal stem cells for tissue engineering applications. *Cell and Tissue Research* 347(3):689-99. 2012.
I, C
<https://www.ncbi.nlm.nih.gov/pubmed/22277991>
- J-28. Sprangers AJ, Freeman B, Kouris KA and **Ogle BM**. A cre-loxP recombination approach for the detection of cell fusion in vivo. *Journal of Visualized Experiments* 4(59):e3581. 2012.
S, D, C
<https://www.ncbi.nlm.nih.gov/pubmed/22230968>
- J-27. Hirschmugl C, Nasse MJ, Bellehumuer B, Ratti S, Olivieri C, Buschke DG, Squirrell JM, Eliceiri K, **Ogle BM**, Schmidt Patterson C, Giordano M. Opportunities for multi-beam synchrotron-based mid-infrared imaging at IRENI. *Vibrational Spectroscopy*. 60:10-15. 2012.
I, C
<http://www.sciencedirect.com/science/article/pii/S0924203111001846?via%3Dihub>
- J-26. Sprangers AJ, Freeman B, and **Ogle BM**. Electroporation can efficiently transfect hESC-derived mesenchymal stem cells without inducing differentiation. *Open Stem Cell Journal* 3:62-66. 2011.
S, I, D, C
<https://benthamopen.com/ABSTRACT/TOS CJ-3-62>
- J-25. Kouris, NA, Squirrell, JM, Jung, JP, Pehlke, CA, Hacker, T, Eliceiri, KW, and **Ogle BM**. A non-denatured, non-crosslinked collagen matrix to deliver stem cells to the heart. *Regenerative Medicine* 6(5):569-582. 2011.
S, I, D, C
<https://www.ncbi.nlm.nih.gov/pubmed/21916593>
- J-24. Hudulla G, Kouris NA, Koepsel J, **Ogle BM** and Murphy WL. Harnessing endogenous growth factor activity modulates stem cell behavior. *Integrative Biology* 3(8):832-42. 2011.
I, C
<https://www.ncbi.nlm.nih.gov/pubmed/21720642>

- J-23. McConnico A, Butters K, Lien K, Knudsen BE, Wu X, Platt JL and **Ogle BM**. In utero cell transfer between porcine littermates. *Reproduction, Fertility and Development* 23:297-302. 2010.
S, A, I, D, C
<https://www.ncbi.nlm.nih.gov/pubmed/21211462>
- J-22. Lin HP, Vincenz C, Kerppola T and **Ogle BM**. Bimolecular complementation analysis of eukaryotic fusion products. *Biology of the Cell* 102:525-537. 2010.
S, I, D, C
<https://www.ncbi.nlm.nih.gov/pubmed/20590528>
- J-21. Buschke DG, Ansari H, Smith M, Lyons, G, Kamp TJ, Eliceiri K and **Ogle BM**. Multiphoton flow cytometry to assess intrinsic and extrinsic fluorescence in cellular aggregates: applications to stem cells. *Microscopy and Microanal* 15:238-255. 2010.
S, I, D, C
<https://www.ncbi.nlm.nih.gov/pubmed/20684798>
- J-20. Santiago J, Pogemiller R and **Ogle BM**. Heterogeneous differentiation of human mesenchymal stem cells in response to extended culture in extracellular matrices. *Tissue Engineering* 15(12):3911-3922. 2009.
S, I, D, C
<https://www.ncbi.nlm.nih.gov/pubmed/19911955>
- J-19. **Ogle BM**, Knudsen BE, Nishitai R, Ogata K and Platt JL. Toward development and production of human T cells in swine for potential use in adoptive T cell immunotherapy. *Tissue Engineering* 15(5):1031-40. 2008.
S, A, I, D, C
<https://www.ncbi.nlm.nih.gov/pubmed/18826341>
- J-18. McNeill EM and **Ogle BM**. Active learning through teaching in an extracellular matrix engineering course for biomedical engineering graduate students. *Proceedings of the 2008 ASEE North Midwest Sectional Conference* 2008. **Best Paper, E. Mikol Award**
S, I, D, C
<https://www.yumpu.com/en/document/view/27897668/active-learning-through-teaching-in-an-extracellular-matrix->
- J-17. João C, **Ogle BM** and Geyer S. Immunoglobulin promotes the diversity and function of T cells. *European Journal of Immunology* 36(7):1718-28. 2006.
A, I, C
<https://www.ncbi.nlm.nih.gov/pubmed/16791877>
- J-16. Cascalho M, Ogle BM and Platt JL. The future of organ transplantation. *Annals of Transplantation*. 11(2):44-7. 2006
D, C
<https://www.ncbi.nlm.nih.gov/pubmed/17494288>
- J-15. **Ogle BM**, West LJ, Driscoll DJ, Strome SE, Razonable RR, Paya CV, Cascalho M and Platt JL. Effacing of the T cell compartment by cardiac transplantation in infancy. *Journal of Immunology* 176:1962-1967. 2006.
S, A, I, D, C
<https://www.ncbi.nlm.nih.gov/pubmed/16424228>
- J-14. **Ogle BM**, Cascalho M and Platt JL. Biologic implications of cell fusion. *Nature Reviews Molecular Cell Biology* 6(7):567-575. 2005.
S, D, C
<https://www.ncbi.nlm.nih.gov/pubmed/15957005>
- J-13. Cascalho M, **Ogle BM** and Platt JL. Xenotransplantation and the future of renal replacement. *Journal of Urology*. 173(4):1431. 2005.
D, C
<https://www.ncbi.nlm.nih.gov/pubmed/15758823>

- J-12. **Ogle BM** and Platt JL. The biology of cell fusion. *American Scientist* 92(5):420-427. 2004 (no longer available online)
S, D, C
- J-11. Cascalho M, **Ogle BM** and Platt JL. Xenotransplantation and the future of renal replacement. *Journal of the American Society of Nephrology* 15:1106-1112. 2004.
D, C
<https://www.ncbi.nlm.nih.gov/pubmed/15100350>
- J-10. João CM, **Ogle BM**, Gay-Rubenstein C, Platt JL and Cascalho M. B cell-dependent TCR diversification. *Journal of Immunology* 172(8):4709-4716. 2004.
A, I, C
<https://www.ncbi.nlm.nih.gov/pubmed/15067046>
- J-9. **Ogle BM**, Cascalho M and Platt JL. Fusion of approaches to the treatment of organ failure. *American Journal of Transplantation* 4(6):74-77. 2004.
D, C
<https://experts.umich.edu/en/publications/fusion-of-approaches-to-the-treatment-of-organ-failure>
- J-8. **Ogle BM**, Butters KB, Plummer TB, Ring KR, Knudsen B, Litzow MR, Cascalho M and Platt JL. Spontaneous fusion of cells between species yields transdifferentiation and retroviral transfer in vivo. *FASEB Journal* 18:548-550. 2004.
S, A, I, D, C
<https://www.ncbi.nlm.nih.gov/pubmed/14715691>
- J-7. **Ogle BM**, Cascalho M, João CM, Taylor W, West LJ and Platt JL. Direct measurement of lymphocyte receptor diversity. *Nucleic Acids Research* 31(22):e139. 2003.
S, A, I, D, C
<https://www.ncbi.nlm.nih.gov/pubmed/14602932>
- J-6. **Ogle BM** and Platt JL. Approaches to the replacement of the function of failing organs. *Current Opinion in Organ Transplantation* 7(1):28-34. 2002.
D, C
http://journals.lww.com/co-transplantation/Abstract/2002/03000/Approaches_to_the_replacement_of_the_function_of.7.aspx
- J-5. **Ogle BM** and Platt JL. Genetic therapies in xenotransplantation. *Expert Opinion on Biological Therapy* 2(3):299-310. 2002.
D, C
<https://www.ncbi.nlm.nih.gov/pubmed/11890869>
- J-4. Maio RMFM, **Ogle BM** and Platt JL. Ways to replace the function of failing organs. *Organs and Tissues* 5:11-15. 2002.
D, C
- J-3. **Ogle BM** and Mooradian DL. Manipulation of remodeling pathways to enhance the mechanical properties of a tissue engineered blood vessel. *Journal of Biomechanical Engineering* 124:724-733. 2000.
S, A, I, D, C
<https://www.ncbi.nlm.nih.gov/pubmed/12596641>
- J-2. **Ogle BM** and Mooradian DL. The role of vascular smooth muscle cell integrins in the compaction and mechanical strengthening of a tissue engineered blood vessel. *Tissue Engineering* 5(4):387-402. 1999.
S, A, I, D, C
<https://www.ncbi.nlm.nih.gov/pubmed/10477859>
- J-1. **Ogle BM**, Gairola P and Mooradian DL. Tissue Engineering: An emerging field at the interface between engineering, biology, and medicine. *Minnesota Academy of Science* 62(2):47-57. 1998.
D, C
http://mnmas.org/sites/default/files/1998V63N2_Ogle.pdf

Refereed Conference Proceedings

- P-1. Cascalho M, Ogle BM and Platt JL. New approaches to replacing failing organs. *Transplant Proceedings*. 36(6):1629. 2004.
D, C
<https://www.ncbi.nlm.nih.gov/pubmed/15350435>

Non-refereed Journal Articles, Essays, or Book Chapters

- BC-9. Jung JP and **Ogle BM**. Stem Cell Niche. In *Encyclopedia of Stem Cell Research*. Ed. Bouhassira E and Golson JG. 2015. Accepted, not yet in press.
- BC-8. Tran Q, Bache-Wiig M and **Ogle BM**. Matrix Biology: ECM turnover and temporal fluctuation. In *Mimicking the Extracellular Matrix: Connecting Biomaterials with Matrix Biology*. Ed. Murphy WL and Hudalla G. ISBN 978-1-84973-833-0. 2015.
- BC-7. Buschke DG, Eliceiri K and **Ogle BM**. “Screening Approaches for Stem Cells” in *Stem Cell-Based Tissue Repair*, Royal Society of Chemistry. pp. 45-80. 2010.
- BC-6. Lin H and **Ogle BM**, “Nuclear reprogramming” in *Encyclopedia for Stem Cell Research*. Sage Publications, CA. pp. 369-399. 2008.
- BC-5. Cascalho M., **Ogle BM** and Platt JL. “New approaches to organ transplantation” in *Living Donor Organ Transplantation*. ed, Gruessner R. McGraw-Hill Professional, NY. pp. 692-704. 2007.
- BC-4. **Ogle BM**, Platt JL. “Transgenic and gene-targeted organs” in *Encyclopedia of Biomaterials and Biomedical Engineering*. eds, Wnek G and Bowlin G. Marcel Dekker, Inc. NY. pp. 2906-2915. 2008.
- BC-3. **Ogle BM** and Platt JL. “Xenotransplantation” in *Encyclopedia of Biomedical Engineering*. eds, Akay, M. John Wiley & Sons, Inc. NJ. pp. 1120-1132. 2006.
- BC-2. Cascalho M, **Ogle BM** and Platt JL. “Emerging Strategies in Kidney Transplantation” in *Chronic Kidney Disease, Dialysis & Transplantation*. eds, Pereira BJG, Sayegh MH, Blake PG. Elsevier Saunders, Philadelphia, PA. pp. 750-758. 2005.
- BC-1. **Ogle BM** and Platt JL. “Xenografts” in *Encyclopedia of Biomaterials and Biomedical Engineering*. eds, Wnek G and Bowlin G. Marcel Dekker, Inc. NY. pp. 1780-1789. 2004.

Presentations**Invited Presentations at Professional Meetings, Conferences, Universities and Industries, etc.**

- I-40. **Ogle BM**. Distilling complexity to advance cardiac tissue engineering. *Boston Scientific Global Event*. Boston Scientific, Minneapolis, MN. June **2017**
- I-39. **Ogle BM**. What is a Biomedical Engineer? *Give a Girl a Lab Coat*. Annpower Vital Voices, (formed by Hilary Clinton and Madeline Albright) Minneapolis, MN. June **2017**
- I-38. **Ogle BM**. Extracellular matrix proteins to guide cardiovascular tissue engineering. *Aegean Conference on Tissue Engineering*. (*Organizer*) Herkalion, Greece. June **2017**
- I-37. **Ogle BM**. Stem cell, differentiation and the local milieu. *Advancing Regenerative Medicine Workshop*. St. Mary’s University, Winona, MN. May **2017**
- I-36. **Ogle BM**. Putting an end to transplantation? Translating the promise if stem cell therapy into practice. *International Society for Heart and Lung Transplantation*. (*Plenary*) San Diego, CA.

April 2017

- I-35. **Ogle BM.** Cardiovascular tissue engineering: near commercial application or not? *Cardiac Rhythm Management Team*. Medtronic Inc. January 2017
- I-34. **Ogle BM.** What is a Biomedical Engineer? *Give a Girl a Lab Coat*. Annpower Vital Voices (formed by Hilary Clinton and Madeline Albright), Minneapolis, MN. June 2016
- I-33. **Ogle BM.** Cardiovascular tissue engineering and the role of extracellular matrices. *Cell and Molecular Biology Seminar Series*. St. John's University, Collegeville, MN. April 2016
- I-32. **Ogle BM.** Cell fusion and myocardial repair. *Cardiovascular Tissue Engineering Workshop and Symposium*. Supported by NIH, Progenitor Cell Biology Consortium, held at University of Alabama, Birmingham, AL. March 2016
- I-31. **Ogle BM.** 3D Printing Complex Tissues and Organs: Progress for the Heart. *Regenerative Medicine Workshop. (Keynote)* Hilton Head, NC. March 2016
- I-30. **Ogle BM.** Scaffold design for tissue engineering using hiPSC. *Scaffold Working Group. (Organizer)* Supported by NIH, Progenitor Cell Biology Consortium, held at Stanford University, Palo Alto, CA. May 2015
- I-29. **Ogle BM.** Two platform technologies to study cardiac specification in 3D, ECM-based microtissues. *Progenitor Cell Biology Consortium Annual Meeting*, Stanford University, Palo Alto, CA. September 2014
- I-28. **Ogle BM.** CAREER: Dissecting the role of cell fusion in cardiac regeneration. A panel for NSF CAREER applicants. *Biomedical Engineering Society Annual Meeting*. San Antonio, TX. October 2014
- I-27. **Ogle BM.** Biorelevant 3D ECM microenvironments for stem cell differentiation and delivery. *World Congress of Biomechanics*. Boston, MA. July 2014
- I-26. **Ogle BM.** Innovation, environments and investigations to understand stem cell behavior: toward clinical application. *8th Annual Wisconsin Stem Cell Symposium*. Madison, WI. May 2013
- I-25. **Ogle BM.** Biorelevant, ECM-based tissues to study cardiac damage and repair. *American Society for Matrix Biology, New Technologies*, San Diego, CA, 2012
- I-24. **Ogle BM.** Purification and analysis of stem cells via Multiphoton Flow Cytometry. *BME Seminar Series*. Purdue University. West Lafayette, IN. 2012
- I-23. **Ogle BM.** Advances in biotechnology. *Biotechnology Training Program Series*, Northwestern University, Chicago, IL. 2012
- I-22. **Ogle BM.** Noninvasive characterization and purification of stem cells. *BME Seminar Series*, University of Minnesota-Twin Cities, Minneapolis, MN. 2012
- I-21. **Ogle BM.** Multiphoton flow cytometry to guide cellular transplantation for cardiovascular disease. *BME/Physiology Seminar Series*, Mayo Clinic College of Medicine, Rochester, MN. 2012
- I-20. **Ogle BM.** Intrinsic fluorescence to guide characterization and purification of stem cells. *ME Seminar Series*, University of Minnesota-Twin Cities, Minneapolis, MN. 2011
- I-19. **Ogle BM.** Non-invasive analysis and purification of stem cell aggregates. *CE Seminar Series (Distinguished Lecturer)*, Michigan Technological University, Houghton, MI. 2011
- I-18. **Ogle BM.** Multiphoton flow cytometry for non-invasive, enhanced-throughput, analysis of 3D microtissues. *International Society for Advancement of Cytometry (Frontier Speaker)*, Baltimore,

MD. 2011

- I-17. **Ogle BM.** Intrinsic fluorescence to guide characterization and purification of stem cells. *BME Seminar Series*, University of Michigan-Ann Arbor, MI. **2010**
- I-16. **Ogle BM.** Intrinsic fluorescence to guide characterization and purification of stem cells. *Special Seminar*, University of Vermont-Burlington, VT. **2010**
- I-15. **Ogle BM.** A strategy for generating antigen-specific T cells for immunotherapy. *Tissue Engineering and Regenerative Medicine International Society*, San Diego, CA. **2008**
- I-14. **Ogle BM.** Advanced technologies for tracking cell fusion in the heart. *Center for Biochemical and Biophysical Studies Friday Noon Seminar*, Northern Illinois University, IL. **2008**
- I-13. **Ogle BM.** The impact of cell fusion in the heart. *1st annual Wisconsin Stem Cell Technology Symposium (Organizer)*, Madison, WI. **2008**
- I-12. **Ogle BM.** Panel: Emerging technologies for stem cell biology. *World Stem Cell Summit (Organizer)*, Madison, WI. **2008**
- I-11. **Ogle BM.** Chromosomal rearrangement with cell fusion. *Wisconsin Stem Cell and Regenerative Medicine Symposium*, Madison, WI. **2007**
- I-10. **Ogle BM.** Toward development of human T cells from stem cells in swine. *American Chemical Society Conference*, San Francisco, CA. **2006**
- I-9. **Ogle BM.** Impact of spontaneous fusion on health and disease. *Biomedical Engineering Seminar*, University of California-Davis, CA. **2006**
- I-8. **Ogle BM.** Impact of spontaneous fusion on health and disease. *Biomedical Engineering Seminar*, University of Ohio-Athens, OH. **2006**
- I-7. **Ogle BM.** Impact of spontaneous fusion on health and disease. *Biomedical Engineering Seminar*, University of Washington-Pullman, WA. **2006**
- I-6. **Ogle BM.** Impact of spontaneous fusion on health and disease. *Biomedical Engineering Seminar*, The Cleveland Clinic, Cleveland, OH. **2006**
- I-5. **Ogle BM.** Impact of spontaneous fusion on health and disease. *Biomedical Engineering Seminar*, Purdue University, West Lafayette, IN. **2006**
- I-4. **Ogle BM.** Impact of spontaneous fusion on health and disease. *Biomedical Engineering Seminar*, University of Wisconsin-Madison, WI. **2006**
- I-3. **Ogle BM.** Impact of spontaneous fusion on health and disease. *Biomedical Engineering Seminar*, University of Illinois-Urbana-Champaign, IN. **2006**
- I-2. **Ogle BM.** Rebuilding the T cell compartment. *Fourth European-American School in Forensic Genetics and Mayo Clinic Course in Advanced Molecular and Cellular Medicine*, Dubrovnik, Croatia. **2005**.
- I-1. **Ogle BM.** Cell fusion in health and disease. *Nephrology Grand Rounds*, Mayo Clinic, Rochester, MN, **2004**.

Invited Seminars in University of Wisconsin Departments/Programs (While UW-Madison Faculty)

- UW-8. **Ogle BM.** Cell fusion and breast cancer metastasis. *Bring your own biology, Cell Signaling Group*, University of Wisconsin-Madison, WI. **2012**

- UW-7. **Ogle BM.** Biomolecular fluorescence complementation to study cell fusion. *Undergraduate Stem Cell Society Seminar*, University of Wisconsin-Madison, WI. **2009**
- UW-6. **Ogle BM.** Stem cells and bioengineering. *WiCell Summer Science Camp*, Madison, WI. **2008**
- UW-5. **Ogle BM.** Stem cells and the heart. *Wisconsin Engineers Day Colloquium*, Madison, WI. **2008**
- UW-4. **Ogle BM.** Cardiac regeneration. *The Society of Women Engineers Summer Camp*, University of Wisconsin-Madison, WI. **2007**
- UW-3. **Ogle BM.** Cell fusion and the heart. *Cardiovascular Research Center Seminar*, University of Wisconsin-Madison, WI. **2007**
- UW-2. **Ogle BM.** Development of human T cells in a surrogate host. *Material Science Program Seminar*, University of Wisconsin-Madison, WI. **2006**
- UW-1. **Ogle BM.** Development of human T cells in a surrogate host. *Anatomy Seminar*, University of Wisconsin-Madison, WI. **2006**.

Invited Seminars in University of Minnesota Departments/Programs (While UMN-Twin Cities Faculty)

- MN-8. **Ogle BM.** 3D Printing for Cardiac Tissue Engineering. *Stem Cell Institute Seminar Series*. UMN-Stem Cell Institute, Minneapolis, MN. **2017**
- MN-7. **Ogle BM.** The unaimed arrow never misses its target. *CSE Lunch/Networking Event for Graduate and Postdoctoral Women in the College of Science and Engineering*. UMN, Minneapolis, MN. **2015**.
- MN-6. **Ogle BM.** Cardiac tissue, stem cells and extracellular matrix. *Cardiopalooza*. UMN, Minneapolis, MN. **2014**.
- MN-5. **Ogle BM.** Development-specific changes in extracellular matrix content and distribution influence cardiac specification. *MinnCResT Symposium*. UMN, Minneapolis, MN. **2014**.
- MN-4. **Ogle BM.** Bioinspired 3D microenvironments utilizing whole molecule ECM for stem cell analyses. *Biomaterial Session: Design of Medical Devices Conference*. UMN, Minneapolis, MN. **2014**.
- MN-3. **Ogle BM.** PEG-ECM composites to study stem cell microenvironments. *Medical Applications of Polymers Workshop*. UMN, Minneapolis, MN. **2013**.
- MN-2. **Ogle BM.** Biorelevant 3D scaffolds to study stem cell behavior. *Stem Cell Institute Seminar Series*. UMN-Stem Cell Institute, Minneapolis, MN. **2013**.
- MN-1. **Ogle BM.** System Regeneration Laboratory: Biorelevant environments and Advanced imaging to study and stimulate stem cell behavior. *Engineering - Stem Cell Institute Symposium*. UMN-Stem Cell Institute, Minneapolis, MN. **2013**.

Contributed Papers Presented at Professional Meetings, Conferences, etc.

- CP-46. Tran, Q, Campagnola PJ and **Ogle BM.** Developmental Pathways Pervade Stem Cell Responses to Evolving Extracellular Matrices. *Biomedical Engineering Society Annual Meeting*. Phoenix, AR 2017. (poster)
- CP-45. Romans S, Lin WH and **Ogle BM.** A unique opportunity to test whether cardiomyocyte dysfunction contributes to sudden unexplained death in epilepsy. *Cariopalooza*. Minneapolis, MN 2017. (poster)

- CP-44. Bhuiyan DB, Qui K, McAlpine M and **Ogle BM**. 3D bioprinting of perfusable intact heart. *Society for Biomaterials*. Minneapolis, MN. 2017. (podium)
- CP-43. Jung JP, Hofbauer P, **Ogle BM**. Murine cardiomyocyte differentiation via nutrient deprivation-mediated activation of beta-catenin. *Biomedical Engineering Society*. Minneapolis, MN. 2016. (podium)
- CP-42. Kupfer M, Gao L, Jung JP, Zhang P, Yang L, Tran Q, Ajeti V, Campagnola P, Zhang J and **Ogle BM**. Fabrication of human cardiac tissue using 3D printing of high resolution, ECM-inspired scaffolds. *Biomedical Engineering Society*. Minneapolis, MN. 2016. (podium)
- CP-41. Jung JP, Lin WH, Tolar J, **Ogle BM**. Hydrogel platform for modeling the dermoepidermal junction in vitro. *Biomedical Engineering Society*. Minneapolis, MN. 2016. (podium)
- CP-40. Jung JP, **Ogle BM**. Enhancing Cardiac Differentiation via Statistically Optimized Engagement of 3D Extracellular Matrix. *Biomedical Engineering Society*. Tampa, FL. 2015. (podium)
- CP-39. Freeman BT, Jung JP and **Ogle BM**. Single-cell RNAseq reveals rapid transcriptional diversification following stem cell-parenchymal cell fusion. Hilton Head, GA. 2015. (podium)
- CP-38. Jung JP, **Ogle BM**. Biorelevant 3D models of the cardiac space for functional differentiation of cardiomyocytes. *Biomedical Engineering Society*. San Antonio, TX. 2014. (poster)
- CP-37. **Ogle BM**. Two platform technologies to study cardiac specification in three dimensional, ECM-based microtissues. *Progenitor Cell Biology Consortium*. Palo Alto, CA. 2014 (poster)
- CP-36. Jung JP, **Ogle BM**. “Cardiac Tissue-Inspired Extracellular Matrix (ECM)-based Scaffolds” *Cardiopaloosa*. Minneapolis, MN. 2014. (poster)
- CP-35. Freeman BT, **Ogle BM**. “The role of stem cell fusion in (re)programming somatic cells in vitro: implications for cardiac regeneration” *Cardiopaloosa*. Minneapolis, MN. 2014. (poster)
- CP-34. Freeman BT, Kouris NA and **Ogle BM**. “Tracking fusion of human mesenchymal stem cells following transplantation to the heart” *Wisconsin Stem Cell Symposium*. Madison, WI. 2014. (poster)
- CP-33. **Ogle BM**. “Multiphoton-based fabrication of 3D ECM scaffolds via modulated raster scanning” *Society for Biological Engineering*. Coronado, CA. 2014. (podium)
- CP-32. Tran Q, Su PJ, Campagnola PJ and **Ogle BM**. “Construction of whole ECM protein, 3D microenvironments to study stem cell behavior” *Biomedical Engineering Society*, Atlanta, GA. 2012. (podium)
- CP-31. Buschke DG, Eliceiri KW and **Ogle BM**. “Purification of Microtissues using Multiphoton-based Fluorescence-activated Sorting” *International Society for Advanced Cytometry*, Leipzig, Germany. 2012. (podium).
- CP-30. Buschke DG, Squirrell JM, Eliceiri KW and **Ogle BM**. “Characterization and purification of large particles” *CYTO 2011, International Society for Advanced Cytometry*, Baltimore, MD. 2011. (podium)
- CP-29. Squirrell JM, Kouris NA, Buschke DG, Eliceiri KW and **Ogle BM**. “Large particle multiphoton flow cytometry and a collagen I/III composite: Technologies to improve stem cell selection and delivery” *University of Vermont Stem Cell Conference*, Burlington, VT. 2011. (poster)
- CP-28. Buschke DG, Squirrell JM, Eliceiri KW and **Ogle BM**. “Sorting strategies for large particle flow cytometry” *Twentieth Cytometry Development Workshop - Technologies for Cell Analysis*, Pacific Grove, CA. 2010. (podium)

- CP-27. Buschke DG, Squirrell JM, Eliceiri KW and **Ogle BM**. “Multiphoton flow cytometry for the characterization and purification of large cellular aggregates” *Twentieth Cytometry Development Workshop - Techs for Cell Analysis*, Pacific Grove, CA. 2010. (podium)
- CP-26. Kouris NA, Squirrell JM and **Ogle BM**. “Collagen types I/III composite for stem cell delivery to myocardial infarction site” *Tissue Engineering and Regenerative Medicine International Society Annual Meeting*, Orlando, FL. 2010. (poster)
- CP-25. Buschke DG, Squirrell JM, Eliceiri KW and **Ogle BM**. “Multiphoton flow cytometry for the characterization and purification of large cellular aggregates” *Biomedical Engineering Society Annual Meeting*, Austin, TX. 2010. (poster)
- CP-24. Kouris NA, Squirrell JM and **Ogle BM**. “Pure, non-denatured collagen matrix: a cell delivery model for myocardial repair” *Biomedical Engineering Society Annual Meeting*, Austin, TX. 2010. (podium)
- CP-23. Freeman B and **Ogle BM**. “Viral fusogens to promote stem cell reprogramming via fusion” *Biomedical Engineering Society Annual Meeting*, Austin, TX. 2010. (podium)
- CP-22. Tran Q and **Ogle BM**. “Spontaneous fusion of mesenchymal stem cells with endothelial cells” *Biomedical Engineering Society Annual Meeting*, Austin, TX. 2010. (poster)
- CP-21. Kouris NA, Squirrell J and **Ogle BM**. “Collagen types I/III composite for stem cell delivery to myocardial infarction site” *Tissue Engineering and Regenerative Medicine International Society Annual Meeting*, Orlando, FL. 2010 (poster)
- CP-20. Kouris NA and **Ogle BM**. “Programming of mesenchymal stem cells via cell fusion” *Int Society for Stem Cell Research 8th Annual Meeting*, San Francisco, CA. 2010. (poster)
- CP-19. Squirrell JM, Buschke DG, Mael A, Eliceiri KW, Lyons GE, Shevde R, Kamp TJ and Ogle BM, “Intrinsic fluorescence: non-invasive signatures of embryonic stem cells and cardiomyocytes” *Weinstein Cardiovascular Development Conference*, Amsterdam, The Netherlands. 2010 (poster)
- CP-18. Buschke DG, Squirrell JM, Eliceiri KW and **Ogle BM**. “Multiphoton flow cytometry for high-throughput analysis of intrinsic biomarkers to guide cellular transplantation for cardiac disease” *American Heart Association*, Miami, FL. 2009. (poster)
- CP-17. Santiago JA and **Ogle BM**. “Implications of ECM-guided differentiation for cardiac tissue engineering” *Biomedical Engineering Society*, Pittsburg, PA. 2009. (podium)
- CP-16. Buschke DG, Squirrell JM, Eliceiri KW and **Ogle BM**. “Multiphoton flow cytometry to purify multicellular entities” *Biomedical Engineer Society*, Pittsburg, PA. 2009. (poster)
- CP-15. Lin H and **Ogle BM**. “Detecting and tracking cell-cell fusion via bimolecular fluorescence complementation” *Keystone Symposia*, Vancouver, BC. 2009. (poster)
- CP-14. Lin H and **Ogle BM**. “Detecting and tracking cell-cell fusion using bimolecular fluorescence complementation” *Gordon Research Conference*, New London, NH. 2009. (poster)
- CP-13. **Ogle BM**. “A strategy for generating antigen-specific T cells for immunotherapy.” *Tissue Engineering and Regenerative Medicine International Society*, San Diego, CA. 2008. (podium)
- CP-12. **Ogle BM**. “Multiphoton Flow Cytometry to Guide Cellular Transplantation for Cardiovascular Disease” *International Society for Cardiovascular Biology*, Bordeaux, France. 2008. (podium)
- CP-11. Lin H, **Ogle BM** and Kerppola T. “Bimolecular fluorescence complementation for the detection and tracking of cell-cell fusion” *Gordon Research Conference*, New London, NH. 2008. (poster)
- CP-10. Santiago JA and **Ogle BM**. “Heterogeneous Differentiation of Human MSCs in Response to

- Extended Culture in Extracellular Matrices” *Society for Biomaterials World Congress*, Amsterdam, Netherlands. 2008. (poster)
- CP-9. Kouris NA and **Ogle BM**. “Viral fusion proteins for the enhancement of cardiac fusion” *International Society for Stem Cell Research*, Cairns, Australia. 2007. (poster)
- CP-8. **Ogle BM** and Platt JL. “Rebuilding the T cell compartment” *Fourth European-American School in Forensic Genetics and Mayo Clinic Course in Advanced Molecular and Cellular Medicine*, Dubrovnik, Croatia. 2005. (podium)
- CP-7. **Ogle BM** and Platt JL. “Impact of spontaneous fusion of cells on bioartificial organ design” *Society for Biomaterials Annual Meeting*, Philadelphia, PA. 2004. (poster)
- CP-6. **Ogle BM**. “Cell fusion in health and disease” *Nephrology Grand Rounds*, Rochester, MN. 2004. (podium)
- CP-5. **Ogle BM** and Platt JL. “T cell development in swine” *The Fourth Annual Conference on Regenerative Medicine*, Washington, DC. 2003. (poster)
- CP-4. **Ogle BM** and Mooradian DL. “Manipulation of mechanical properties of physiologic matrices” *Sixth World Biomaterials Congress*, Kamuela, HI. 2000. (podium)
- CP-3. **Ogle BM** and Mooradian DL. “Role of cell-surface chondroitin sulfate proteoglycans in the compaction and strengthening of a tissue engineered blood vessel” *Society for Biomaterials Annual Meeting*, Providence, RI. 1999. (podium)
- CP-2. **Ogle BM** and Mooradian DL. “Manipulation of remodeling pathways to enhance the mechanical strength of a tissue engineered blood vessel” *Society for Biomaterials Annual Meeting*, Providence, RI. 1999. (podium)
- CP-1. **Ogle BM** and Mooradian DL. “The role of integrins in vascular smooth muscle cell-mediated compaction and remodeling of a bioartificial artery” *The Xth International Vascular Biology Meeting*, Queensland, Australia. 1998. (podium)