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PETER MCFETRIDGE, PH.D.



Peter McFetridge, Ph.D.

Associate Professor

Primary Faculty

Topics: Naturally inspired biomaterials for biologically functional implants and organ regeneration

Email: pmcfetridge@bme.ufl.edu

Address: 1275 Center Drive, Biomedical Sciences Building J391, Gainesville, FL 32611

Office Phone: (352) 273-9325

Office Fax: (352) 273-9221

Education:

B.Sc., Applied Biological Sciences, University of Bath, UK, 1998

Ph.D., Chemical Engineering, University of Bath, UK, 2002

Research Summary

Dr. McFetridge's groups primary research objective is to engineer viable 'living' tissue and organs for the repair and regeneration of diseased tissues. His groups research encompasses angiogenesis and arterial regeneration, articular cartilage development as well as effects on primary and stem cell phenotype driven by mechanical and nutrient variation in the ECM microenvironment.

Selected Publications

Salma Amensag*, Peter S. McFetridge. [Tuning Scaffold Mechanics by Laminating Native Extracellular Matrix Membranes and Effects on Early Cellular Remodeling](#). Journal of Biomedical Materials Research A (Accepted May 2nd 2013)

Marc Moore*, Peter S. McFetridge. [Directed Oxygen Gradients Initiate a Robust Early Remodeling Response in Engineered Vascular Grafts](#). Tissue Engineering A. In Press, accepted March 26th 2013

Cassandra Juran*, Franklin Dolwick***, Peter S. McFetridge. [Shear Mechanics of the TMJ Disc: Relationship to Common Clinical Observations](#). Journal of Dental Research. February 92 (2) 2013. 193 - 198

Joe Uzarski*, Edward W. Scott, Peter S. McFetridge. [Adaptation of Endothelial Cells to Physiologically-Modeled, Variable Shear Stress](#). PLoS ONE 8(2): e57004. doi:10.1371/journal.pone.0057004. February 14th 2103.

Zehra Tosun* and Peter S. McFetridge. [Improved recellularization of ex vivo vascular scaffolds using directed transport gradients](#). Biotechnology and Bioengineering. 110, Issue 7, pages 2035– 2045, July 2013

J. Crayton Pruitt Family
Department of Biomedical Engineering
University of Florida
1275 Center Drive
Biomedical Sciences Building JG-56
P.O. Box 116131
Gainesville, FL 32611-6131
P. 352-273-9222 | F. 352-273-9221

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