

Dr Jennifer Paxton

Selected publications

2013

Koburger S.K., Bannerman A., Grover L.M., Mueller F., Bowen J., **Paxton J.Z.** (2013) A novel method for monitoring mineralisation in hydrogels at the engineered hard/soft tissue interface. *Biomaterials Science*, **2**, 41-51

Bannerman A., **Paxton J.Z.**, Grover L.M. (2013) Imaging the hard/soft tissue interface. *Biotechnology Letters*. Epub. PMID:24129952

2012

Paxton J.Z., Baar K., Grover L.M. (2012) Current progress in enthesis repair: strategies for interfacial tissue engineering. *Orthopaedic and Muscular system special issue*. 2012 S1.

Paxton J.Z., Wudebwe U., Wang A., Woods D., Grover L.M. (2012) Monitoring sinew contraction during formation of tissue-engineered fibrin-based ligament constructs. *Tissue Eng Part A* 18(15-16):1596-607

Paxton J.Z., Hagerty P., Andrick J.J., Baar K. (2012) Optimizing an intermittent stretch paradigm using ERK1/2 phosphorylation results in increased collagen synthesis in engineered ligaments. *Tissue Eng Part A* 18(3-4) 277-84.

2011

Mehrban N, **Paxton J.Z.**, Bowen J., Bolarinwa A., Vorndran E., Gbureck U., Grover L.M. (2011) Comparing physicochemical properties of printed and hand cast bioceramics designed for ligament replacement. *Advances in Applied Ceramics* 110 3 162-167.

Jahromi S.H., Grover L.M., **Paxton J.Z.**, Smith A.M. (2011) Degradation of polysaccharide hydrogels seeded with bone marrow stromal cells. *Journal of the Mechanical Behavior of Biomedical Materials* 4(7):1157-66.

2010

Paxton J.Z., Grover L.M. and Baar K.(2010) Engineering an in vitro model of a functional ligament from bone to bone. *Tissue Eng Part A* 16(11):3515-25.

Paxton J.Z., Donnelly K, Keatch RP, Baar K, Grover LM. (2010) Factors affecting the longevity and strength in an in vitro model of the bone-ligament interface. *Ann Biomed Eng.* 38(6):2155-66.

2009

Maher P.S., Keatch R.P., Donnelly K., Mackay R. **Paxton J.Z.** (2009) Construction of 3D Biological Matrices using Rapid Prototyping Technology. *Rapid Prototyping Journal*. 15(3) 204-210.

Paxton J.Z., Donnelly K., Keatch R.P., Baar K. (2009) Engineering the bone-ligament Interface using Polyethylene glycol diacrylate incorporated with hydroxyapatite. *Tissue Eng Part A*.15(6):1201-9.

2007

Khodabukas A.K., **Paxton J.Z.**, Donnelly K., Baar K. (2007) Engineered muscle: a tool for studying muscle physiology and function. *Exerc. Sport Sci.Rev.* 35(4):186-91.

Paxton J.Z. and Baar K. (2007) Tendon Mechanics: the argument heats up. *J. Appl. Physiol.* 103(2) 423-4 .