

Publications

Highlights

Serrell DB, Oreskovic TL, Slifka AJ, Mahajan RL, and Finch DS, A uniaxial bioMEMS device for quantitative force-displacement measurements, *Biomedical Microdevices* 9: 267 (2007)

Drexler ES, Bischoff JE, McCowan CN, Slifka AJ, Quinn TP, Wright JE, Shandas R, and Ivy DD, Comparison of mechanical behavior among the extrapulmonary arteries from rats, *J. Biomech.* 40: 812 (2007)

Finch DS, Oreskovic T, Ramaudral K, Herrmann C, George S, Mahajan R, Biocompatibility of atomic layer-deposited alumina thin films. *J Biomed Mater Res A.*, published online (2007)

Jeerage K, LaNasa, SM, Lauria D, Bryant, SJ, Slifka AJ, Electrochemical measurements of diffusion through cardiac muscle tissue engineering scaffolds, *Proc. Fall Meeting of Electrochemical Society* (2007)

Publication List

Journal Articles

Jeerage K, LaNasa SM, Hughes HA, Lauria D, Bryant SJ, Slifka AJ, Electrochemical measurement of diffusion in photopolymerized polyethylene glycol (PEG) hydrogels, *J.Phys.Chem. B*, submitted

Serrell DB, Law J, Slifka AJ, Mahajan RL, Finch DS, A uniaxial bioMEMS device for imaging single cell response during quantitative force-displacement measurements, *Biomedical Microdevices*, submitted

Serrell DB, Slifka AJ, Mahajan RL, Finch DS, A novel bio-MEMS device for differentiating phenotype, *Journal of Biomechanics*, submitted

Pakstis L, Zheng A, Vorburger TV, Dunkers JP, Quinn TP, Cicerone MT, Optimization of cellular response on flexible surfaces using chemically bound proteins, *J. Biomedical Materials Applications*, submitted

Drexler ES, Bischoff JE, McCowan CN, Slifka AJ, Quinn TP, Shandas R, Ivy DD, Stiffening of the extrapulmonary arteries in chronic hypoxic pulmonary hypertension, *J Biomedical Engineering*, submitted

Rice MA, Waters KR, Anseth KS, Ultrasound monitoring of cartilaginous matrix evolution in degradable PEG hydrogels, *J.Biomed.Mater.Res.*, submitted

Rice MA, Homier PM, Waters KR, Anseth KS, Effects of directed gel degradation and collagenase digestion on the integration of neocartilage produced in hydrogel carriers, *J. Orthopaed. Res.*, submitted

Serrell DB, Oreskovic TL, Slifka AJ, Mahajan RL, and Finch DS, A uniaxial bioMEMS device for quantitative force-displacement measurements, *Biomedical Microdevices* 9: 267 (2007)

Drexler ES, Bischoff JE, McCowan CN, Slifka AJ, Quinn TP, Wright JE, Shandas R, and Ivy DD, Comparison of mechanical behavior among the extrapulmonary arteries from rats, *J. Biomech.* 40: 812 (2007)

Slifka AJ, Drexler ES, Wright JE, Shandas R, Bubble-test method for synthetic and bovine vascular material, *J. Biomech.* 39: 1939 (2006)

Zhang Y, Dunn ML, Drexler ES, McCowan CN, Slifka AJ, Ivy DD, Shandas R, A microstructural hyperelastic model of pulmonary arteries under normo- and hypertensive conditions, *Ann.Biomed.Eng.* 33: 1042 (2005)

Waters, K, Hoffmeister, BK, Kramers-Kronig analysis of attenuation and dispersion in trabecular bone, *Journal of the Acoustical Society of America* 118: 3912 (2005)

Conference Proceedings

O'Neill BE, Vo H, Angstadt M, Frenkel V, Wood B, Quinn TP, Investigations into the potential contribution of a thermal mechanism for pulsed-high intensity ultrasound mediated delivery, *Proceedings of IEEE International Ultrasonic Symposium* (2007)

Jeerage K, LaNasa, SM, Lauria D, Bryant, SJ, Slifka AJ, Electrochemical measurements of diffusion through cardiac muscle tissue engineering scaffolds, Proc. Fall Meeting of Electrochemical Society (2007)

Anton JM, Hooker SW, Characterization of degradation mechanisms in neural recording electrodes, 2007 Spring MRS Proceedings U: 1009-U05_08-08 (2007)

Hooker SA, Reliability of ultra-thin insulation coatings for long-term electrophysiological recordings, SPIE Vol. 6172, 617218 (2006)

O'Neill BE, Quinn TP, Frenkel VF, Li, KC, A multi-phasic continuum damage mechanics model of mechanically induced increased permeability in tissues, 2005 Fall MRS Proceedings (2006)

Panchawagh HV, Serrell DB, Finch DS, Oreskovic TS, Mahajan RL, A bioMEMS device for in-plane, uni-axial cyclic mechanical stretching of single living cells in vitro, Proceedings of ASME Heat Transfer/Fluid Engineering Conference (2005)

Workshop Reports

Bennett HS, Dienstfrey A, Hudson LT, Oreskovic T, Fuerst T, and Shepherd J, Standards and measurements for assessing bone health, J Clin Densitom 9: 399 (2006)