

Biomedical Engineering

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In our lab we study a variety of biomechanics problems at macro and micro levels. Three of our current efforts include: an experimental investigation on DNA-Polyacrylamide hybrid materials related to the development of active biological materials: and Computational and Experimental study on Biomechanics of Shoulder joints during wheelchair propulsion.

Recent Papers:

1. Langrana, NA, Kale, SP, Edwards, WT, Lee, CK, and Kopacz, KJ, Measurement and analyses of the effects of adjacent endplate curvatures on vertebral stresses? The Spine Journal, 6:267-78, 2006.
2. Jiang, X, Georges, PC, Li, B, Du, Y, Kutzing, M, Previtera, ML, Langrana, NA, and Firestein, BL, Cell Growth in Response to Mechanical Stiffness is Affected by Neuron-Astroglia Interactions? The Open Neuroscience Journal, Vol. 1, pp 7-14, 2007.
3. Li, L, Sharma, N, Chippada, U, Jiang, X, Schloss, R, Yarmush, ML, and Langrana, NA, Functional Modulation of ES Derived Hepatocyte Lineage Cells via Substrate Compliance Alteration? Annals of Biomedical Engineering, Annals of Biomedical Engineering, Vol. 36, pp865-876, 2008.



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