

2016 Editors' Choice Papers

As part of the Annual Special Issue, the JBME Associate Editors selected the top papers published in the journal during 2016. Those Editors' Choice papers, listed below in chronological order, exemplified both the high quality and the breadth of papers published in the journal. Congratulations to these authors and to all the authors whose work appeared in the JBME over the past year!

Zhang, S., Cao, X., Stablow, A. M., Shenoy, V. B., and Winkelstein, B. A., 2016, "Tissue Strain Reorganizes Collagen With a Switchlike Response That Regulates Neuronal Extracellular Signal-Regulated Kinase Phosphorylation In Vitro: Implications for Ligamentous Injury and Mechanotransduction," *ASME J. Biomech. Eng.*, **138**(2), p. 021013.

Lakes, E. H., Matuska, A. M., McFetridge, P. S., and Allen, K. D., 2016, "Mechanical Integrity of a Decellularized and Laser Drilled Medial Meniscus," *ASME J. Biomech. Eng.*, **138**(3), p. 031006.

Morss Clyne, A., and Billiar, K. L., 2016, "Problem-Based Learning in Biomechanics: Advantages, Challenges, and Implementation Strategies," *ASME J. Biomech. Eng.*, **138**(7), p. 070804.

Bersi, M. E., Bellini, C., Di Achille, P., Humphrey, J. D., Genovese, K., and Avril, S., 2016, "Novel Methodology for Characterizing Regional Variations in the Material Properties of Murine Aortas," *ASME J. Biomech. Eng.*, **138**(7), p. 071005.

Davis, M. L., and Gayzik, F. S., 2016, "An Objective Evaluation of Mass Scaling Techniques Utilizing Computational Human Body Finite Element Models," *ASME J. Biomech. Eng.*, **138**(10), p. 101003.

Aghvami, M., Billiar, K. L., and Sander, E. A., 2016, "Fiber Network Models Predict Enhanced Cell Mechanosensing on Fibrous Gels," *ASME J. Biomech. Eng.*, **138**(10), p. 101006.

Drew, N. K., Johnsen, N. E., Core, J. Q., and Grosberg, A., 2016, "Multiscale Characterization of Engineered Cardiac Tissue Architecture," *ASME J. Biomech. Eng.*, **138**(11), p. 111003.

Hald, E. S., Timm, C. D., and Alford, P. W., 2016, "Amyloid Beta Influences Vascular Smooth Muscle Contractility and Mechanoadaptation," *ASME J. Biomech. Eng.*, **138**(11), p. 111007.

Manolidis, M., Isabey, D., Louis, B., Grotberg, J. B., and Filoche, M., 2016, "A Macroscopic Model for Simulating the Mucociliary Clearance in a Bronchial Bifurcation: The Role of Surface Tension," *ASME J. Biomech. Eng.*, **138**(12), p. 121005.

Faghih, M. M., and Sharp, M. K., 2016, "Extending the Power-Law Hemolysis Model to Complex Flows," *ASME J. Biomech. Eng.*, **138**(12), p. 124504.