

2018 first-author publications by Brown BME PhD students (updated 12/4/2018):

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Cui FR, Ip BC, Morgan JR, Tripathi A. [Hydrodynamics of the Bio-Gripper: A Fluid-Driven "Claw Machine" for Soft Microtissue Translocation](#). *SLAS Technol*. 2018 Jun 1:2472630318775079.

Dempsey ME, **Marble HD**, Shen TL, Fawzi NL, Darling EM. [Synthesis and Characterization of a Magnetically Active ¹⁹F Molecular Beacon](#). *Bioconjugate chemistry*. 2018; 29(2):335-342.

Godfrin MP, Sihlabela M, Bose A, Tripathi A. [Behavior of Marine Bacteria in Clean Environment and Oil Spill Conditions](#). *Langmuir*. 2018 Jul 31;34(30):9047-9053.

González-Cruz RD, Sadick JS, Fonseca VC, Darling EM. [Nuclear Lamin Protein C Is Linked to Lineage-Specific, Whole-Cell Mechanical Properties](#). *Cellular and molecular bioengineering*. 2018; 11(2):131-142.

González-Cruz RD, Dahl KN, Darling EM. [The Emerging Role of Lamin C as an Important LMNA Isoform in Mechanophenotype](#). *Frontiers Cell Devel Biol*. 2018;6:151.

Kaiser NJ, Munarin F, Coulombe KLK. [Custom Engineered Tissue Culture Molds from Laser-etched Masters](#). *J Vis Exp*. 2018 May 21;(135).

Kant RJ and Coulombe KLK. [Integrated Approaches to Spatiotemporally Directing Angiogenesis in Host and Engineered Tissues](#). *Acta Biomater*. 2018; 69, 42-62.

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Scimone MT, Cramer Iii HC, Bar-Kochba E, Amezcua R, Estrada JB, Franck C. [Modular approach for resolving and mapping complex neural and other cellular structures and their associated deformation fields in three dimensions](#). *Nat Protoc*. 2018 Dec;13(12):3042-3064.

Shah MK, **Leary EA**, **Darling EM**. [Integration of hyper-compliant microparticles into a 3D melanoma tumor model](#). *J Biomech*. 2018; pii: S0021-9290(18)30792-9.

Shukla S, Shukla A. ["Tunable Antibiotic Delivery from Gellan Hydrogels"](#), *Journal of Materials Chemistry B*, DOI: 10.1039/C8TB00980E.

Snider A, Nilsson M, Dupal M, Toloue M, Tripathi A. [A Microfluidics Workflow for Sample Preparation for Next-Generation DNA Sequencing](#). *SLAS Technol.* 2018 Aug 24:2472630318796133.

Stefan S, Jeong KS, Polucha C, Tapinos N, Toms SA, Lee J. [Determination of confocal profile and curved focal plane for OCT mapping of the attenuation coefficient](#). *Biomed Opt Express.* 2018 Oct 1;9(10):5084-5099.

Sutermaster BA, Darling EM. Considerations for high-yield, high-throughput cell enrichment: fluorescence versus magnetic sorting. *Sci Rep* (Accepted)

Wilks BT, Evans EB, Nakhla MN, Morgan JR. [Directing fibroblast self-assembly to fabricate highly-aligned, collagen-rich matrices](#). *Acta Biomater.* 2018 Sep 26.