

Jenna Rickus
Professor, Agricultural & Biological Engineering; Vice Provost for Teaching and Learning
PhD 2003, University of California, Los Angeles
MS XXXX, Virginia Polytechnic Institute and State University
BS XXXX, Purdue University

Recent Papers

M Betz, E Gundlach, E Hillery, J Rickus, MD Ward. 2020. The next wave: We will all be data scientists. *Statistical Analysis and Data Mining: The ASA Data Science Journal* 13:544-547. https://doi.org/10.1002/sam.11476

E Hillery, MD Ward, J Rickus, A Younts, P Smith, E Adams. 2019. Undergraduate Data Science and Diversity at Purdue University. Proceedings of the Practice and Experience in Advanced Research Computing on Rise of the Machines (learning). Article #88. Pages 1-6. https://doi.org/10.1145/3332186.3332202.

LN Kahyaoglu, JL Rickus. 2018. Robust covalent coupling scheme for the development of fret aptasensor based on amino-silane-modified graphene oxide. Langmuir 34 (48), 14586-14596.

SV Sridharan, JF Rivera, JK Nolan, MA Alam, JL Rickus, DB Janes. 2018. On-chip microelectrode array and in situ transient calibration for measurement of transient concentration gradients near surfaces of 2D cell cultures. Sensors and Actuators B: Chemical 260, 519-528.

RM Herrera-Perez, SL Voytik-Harbin, JN Sarkaria, KE Pollok, ML Fishel, JL Rickus. 2018. Presence of stromal cells in a bioengineered tumor microenvironment alters glioblastoma migration and response to STAT3 inhibition. PLoS One 13 (3), e0194183.

JF Rivera, SV Sridharan, JK Nolan, SA Miloro, MA Alam, JL Rickus, DB Janes. 2018. Real-time characterization of uptake kinetics of glioblastoma vs. astrocytes in 2D cell culture using microelectrode array. Analyst 143 (20), 4954-4966.

LN Kahyaoglu, R Madangopal, JH Park, JL Rickus. 2017. Integration of a genetically encoded calcium molecular sensor into photopolymerizable hydrogels for micro-optrode-based sensing. ACS applied materials & interfaces 9 (37), 31557-31567.

KF Atherton, S Miloro, J Rickus. 2017. Establishing a Lung Model for Evaluation of Engineered Lung Microbiome Therapies. Purdue University Summer Undergraduate Research Fellowships (SURF).

J Park, ML Salmi, WWAW Salim, A Rademacher, B Wickizer, A Schooley, J Benton, A Cantero, PF Argote, M Ren, M Zhang, DM Porterfield, AJ Ricco, SJ Roux, JL Rickus. 2017. An autonomous lab on a chip for space flight calibration of gravity-induced transcellular calcium polarization in single-cell fern spores. Lab on a Chip 17 (6), 1095-1103.

Recent Patents

R Madangopal, JL Rickus. 2019. Sensors and methods of manufacture thereof. US Patent 10,480,091.

R Madangopal, JL Rickus. 2019. Sensors and methods of manufacture thereof. US Patent 10,287,699.

JL Rickus, SL Harbin, JL Kahn. 2018. Cell-collagensilica composites and methods of making and using the same. US Patent App. 15/568,262.

DB Jaroch, JL Rickus. 2017. Cell-mediated silica solgel encapsulation of living cells and tissues. US Patent 9,677,065.

J Rothe, O Frey, R Madangopal, J Rickus, A Hierlemann. 2016. Robust functionalization of large microelectrode arrays by using pulsed potentiostatic deposition. Sensors 17 (1), 22.

M Herrera-Perez, M Fishel, S Harbin, J Rickus. Astrocytes and endothelial colony forming cells (ECFCs) influence the migration and drug response of glioblastoma cells in a 3D culture model. Cancer Research 76 (14_Supplement), 613-613.