

Julien Roth

Ph.D. Student in Stem Cell Biology and Regenerative Medicine, admitted Autumn 2017

Publications

PUBLICATIONS

- **Advancing models of neural development with biomaterials.** *Nature reviews. Neuroscience*
Roth, J. G., Huang, M. S., Li, T. L., Feig, V. R., Jiang, Y., Cui, B., Greely, H. T., Bao, Z., Pasca, S. P., Heilshorn, S. C.
2021
- **Microrheology reveals simultaneous cell-mediated matrix stiffening and fluidization that underlie breast cancer invasion.** *Science advances*
Krajina, B. A., LeSavage, B. L., Roth, J. G., Zhu, A. W., Cai, P. C., Spakowitz, A. J., Heilshorn, S. C.
2021; 7 (8)
- **3D Bioprinting using UNiversal Orthogonal Network (UNION) Bioinks.** *Advanced functional materials*
Hull, S. M., Lindsay, C. D., Brunel, L. G., Shiwerski, D. J., Tashman, J. W., Roth, J. G., Myung, D. n., Feinberg, A. W., Heilshorn, S. C.
2021; 31 (7)
- **3D Bioprinting using UNiversal Orthogonal Network (UNION) Bioinks** *ADVANCED FUNCTIONAL MATERIALS*
Hull, S. M., Lindsay, C. D., Brunel, L. G., Shiwerski, D. J., Tashman, J. W., Roth, J. G., Myung, D., Feinberg, A. W., Heilshorn, S. C.
2020
- **16p11.2 microdeletion imparts transcriptional alterations in human iPSC-derived models of early neural development.** *eLife*
Roth, J. G., Muench, K. L., Asokan, A., Mallett, V. M., Gai, H., Verma, Y., Weber, S., Charlton, C., Fowler, J. L., Loh, K. M., Dolmetsch, R. E., Palmer, T. D.
2020; 9
- **Bioprinting Cell- and Spheroid-Laden Protein-Engineered Hydrogels as Tissue-on-Chip Platforms.** *Frontiers in bioengineering and biotechnology*
Duarte Campos, D. F., Lindsay, C. D., Roth, J. G., LeSavage, B. L., Seymour, A. J., Krajina, B. A., Ribeiro, R. n., Costa, P. F., Blaeser, A. n., Heilshorn, S. C.
2020; 8: 374
- **Bioprinting of stem cell expansion lattices.** *Acta biomaterialia*
Lindsay, C. D., Roth, J. G., LeSavage, B. L., Heilshorn, S. C.
2019
- **RNA-protein interaction detection in living cells.** *Nature methods*
Ramanathan, M. n., Majzoub, K. n., Rao, D. S., Neela, P. H., Zarnegar, B. J., Mondal, S. n., Roth, J. G., Gai, H. n., Kovalski, J. R., Sipsashvili, Z. n., Palmer, T. D., Carette, J. E., Khavari, et al
2018