

## Julien Roth

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

### Publications

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#### PUBLICATIONS

- **Hybrid Core-Shell Nanofibrous Scaffolds/Stents Deliver Angiotensin II Receptor Blocker to Treat Diabetic Artery Disease** *ACS APPLIED POLYMER MATERIALS*  
Lee, C., Hsieh, M., Roth, J., Fu, X., Lu, C., Hung, K., Kuo, C., Liu, S.  
2022; 4 (6): 4199-4207
- **Tuning Polymer Hydrophilicity to Regulate Gel Mechanics and Encapsulated Cell Morphology.** *Advanced healthcare materials*  
Navarro, R. S., Huang, M. S., Roth, J. G., Hubka, K. M., Long, C. M., Enejder, A., Heilshorn, S. C.  
2022: e2200011
- **Telmisartan Loaded Nanofibers Enhance Re-Endothelialization and Inhibit Neointimal Hyperplasia.** *Pharmaceutics*  
Lee, C., Liu, K., Roth, J. G., Hung, K., Liu, Y., Wang, S., Kuo, C., Liu, S.  
2021; 13 (11)
- **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., Greeley, H. T., Bao, Z., Pasca, S. P., Heilshorn, S. C.  
2021
- **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.  
2021; 31 (7)
- **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., 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., Siprashvili, Z. n., Palmer, T. D., Carette, J. E., Khavari, et al

2018