

Publications 2019-2020

Joshua Adams

- Adams, J. M.**, & Jafar-Nejad, H. (2019). Determining bile duct density in the mouse liver. *Journal of Visualized Experiments*, 146. <https://doi.org/10.3791/5958>
- Adams, J. M.**, Huppert, K. A., Castro, E. C., Lopez, M. F., Niknejad, N., Subramanian, S., Zarrin-Khameh, N., Finegold, M. J., Huppert, S. S., & Jafar-Nejad, H. (2020). Sox9 is a modifier of the liver disease severity in a mouse model of alagille syndrome. *Hepatology*. <https://doi.org/10.1002/hep.30912>
- Adams, J. M.**, & Jafar-Nejad, H. (2019). The roles of notch signaling in liver development and disease. *Biomolecules*, 9(10), 608. <https://doi.org/10.3390/biom9100608>

David Bader

- Vantaku, V., Putluri, V., **Bader, D. A.**, Maity, S., Ma, J., Arnold, J. M., Rajapakshe, K., Donepudi, S. R., von Rundstedt, F. C., Devarakonda, V., *et al.* (2019). Epigenetic loss of AOX1 expression via EZH2 leads to metabolic deregulations and promotes bladder cancer progression. *Oncogene*. <https://doi.org/10.1038/s41388-019-0902-7>
- Lin, C., Salzillo, T. C., **Bader, D. A.**, Wilkenfeld, S. R., Awad, D., Pulliam, T. L., Dutta, P., Pudakalakatti, S., Titus, M., McGuire, S. E., *et al.* (2019). Prostate cancer energetics and biosynthesis. *Advances in Experimental Medicine and Biology*, 1210, 185-237. https://doi.org/10.1007/978-3-030-32656-2_10
- Bader, D. A.**, & McGuire, S. E. (2020). Tumour metabolism and its unique properties in prostate adenocarcinoma. *Nature Reviews Urology*. <https://doi.org/10.1038/s41585-020-0288-x>

Erin Bolte

- Bolte, E. E.**, & Aagaard K. M. (2020). Turning the “phage” on malnutrition and stunting. *Cell Host & Microbe*, 27(2), 159-161. <https://doi.org/10.1016/j.chom.2020.01.020>

Cathy Bradley

- Bradley, C. C.**, Gordon, A. J. E., Halliday, J. A., & Herman, C. (2019). Transcription fidelity: New paradigms in epigenetic inheritance, genome instability and disease. *DNA Repair*, 81, 102652. <https://doi.org/10.1016/j.dnarep.2019.102652>

Tommy Burke

- Lim, K. P. H., Milne, P., Poidinger, M., Duan, K., Lin, H., McGovern, N., Abhyankar, H., Zinn, D., **Burke, T. M.**, Eckstein, O. S., *et al.* (2020). Circulating CD1c+ myeloid dendritic cells are potential precursors to LCH lesion CD1a+CD207+ cells. *Blood Advances*, 4(1), 87–99. <https://doi.org/10.1182/bloodadvances.2019000488>

Hilda Chan

- McKenzie, L. D., LeClair, J. W., Miller, K. N., Strong, A. D., **Chan, H. L.**, Oates, E. L., Ligon K. L., Brennan, C. W., & Chheda, M. G. (2019). CHD4 regulates the DNA damage response and RAD51 expression in glioblastoma. *Scientific Reports*, 9(1), 4444. <https://doi.org/10.1038/s41598-019-40327-w>

Alexandra Chang-Graham

- Chang-Graham, A. L.**, Danhof, H. A., Engevik, M. A., Tomaro-Duchesneau, C., Karandikar, U. C., Estes, M. K., Versalovic, J., Britton, R. A., & Hyser, J. M. (2019). Human intestinal enteroids with inducible Neurogenin-3 expression as a novel model of gut hormone secretion. *Cellular and Molecular Gastroenterology and Hepatology*, 8(2), 209–229. <https://doi.org/10.1016/j.jcmgh.2019.04.010>
- Chang-Graham, A. L.**, Perry, J. L., Strtak, A. C., Ramachandran, N. K., Criglar, J. M., Philip, A. A., Patton, J. T., Estes, M. K., & Hyser, J. M. (2019). Rotavirus calcium dysregulation manifests as dynamic calcium signaling in the cytoplasm and endoplasmic reticulum. *Scientific Reports*, 9(1), 10822. <https://doi.org/10.1038/s41598-019-46856-8>
- Engevik, M. A., Luk, B., **Chang-Graham, A. L.**, Hall, A., Herrmann, B., Ruan, W., Endres, B. T., Shi, Z., Garey, K. W., Hyser, J. M., *et al.* (2019). *Bifidobacterium dentium* fortifies the intestinal mucus layer via autophagy and calcium signaling pathways. *mBio*, 10(3), e01087-19. <https://doi.org/10.1128/mbio.01087-19>
- Strtak, A. C., Perry, J. L., Sharp, M. N., **Chang-Graham, A. L.**, Farkas, T., & Hyser, J. M. (2019). Recovirus NS1-2 has viroporin activity that induces aberrant cellular calcium signaling to facilitate virus replication. *mSphere*, 4(5): e00506-19. <https://doi.org/10.1128/msphere.00506-19>

Selma Elsaraag

- Olson, C. M., Liang, Y., Leggett, A., Park, W. D., Li, L., Mills, C. E., **Elsarrag, S. Z.**, Ficarro, S. B., Zhang, T., Düster, R., *et al.* (2019). Development of a selective CDK7 covalent inhibitor reveals predominant cell-cycle phenotype. *Cell Chemical Biology*, 26(6), 792–803.e10. <https://doi.org/10.1016/j.chembiol.2019.02.012>

Publications 2019-2020

Marcus Florez

Leach, D. G., Newton, J. M., **Florez, M. A.**, Lopez-Silva, T. L., Jones, A. A., Young, S., Sikora, A. G., & Hartgerink, J. D. (2019). Drug-mimicking nanofibrous peptide hydrogel for inhibition of inducible nitric oxide synthase. *ACS Biomaterials Science & Engineering*, 5(12), 6755–6765. <https://doi.org/10.1021/acsbiomaterials.9b01447>

Jason George

Lourenco, A. R., Ban, Y., Crowley, M. J., Lee, S. B., Ramchandani, D., Du, W., Elemento, O., **George, J. T.**, Jolly, M. K., Levine, H., *et al.* (2019). Differential contributions of pre- and post-emt tumor cells in breast cancer metastasis. *Cancer Research*, 80(2), 163–169. <https://doi.org/10.1158/0008-5472.can-19-1427>

George, J. T., & Levine, H. (2019). Sustained coevolution in a stochastic model of cancer–immune interaction. *Cancer Research*, 80(4), 811–819. <https://doi.org/10.1158/0008-5472.can-19-2732>

Kilinc, A. N., Sugiyama, N., Kalathur, R. K. R., Antoniadis, H., Birogul, H., Ishay-Ronen, D., **George, J. T.**, Levine, H., Jolly, M. K., & Christofori, G. (2019). Histone deacetylases, Mbd3/NuRD, and Tet2 hydroxylase are crucial regulators of epithelial–mesenchymal plasticity and tumor metastasis. *Oncogene*, 39(7), 1498–1513. <https://doi.org/10.1038/s41388-019-1081-2>

Thangavel, H., Angelis, C. D., Vasaikar, S., Bhat, R., Jolly, M. K., Nagi, C., Creighton, C. J., Chen, F., Dobrolecki, L. E., **George, J. T.**, *et al.* (2019). A CTC-cluster-specific signature derived from OMICS analysis of patient-derived xenograft tumors predicts outcomes in basal-like breast cancer. *Journal of Clinical Medicine*, 8(11), 1772. <https://doi.org/10.3390/jcm8111772>

Bocci, F., Tripathi, S. C., Vilchez Mercedes, S. A., **George, J. T.**, Casabar, J. P., Wong, P. K., Hanash, S. M., Levine, H., Onuchic, J. N., & Jolly, M. K. (2019). NRF2 activates a partial epithelial–mesenchymal transition and is maximally present in a hybrid epithelial/mesenchymal phenotype. *Integrative Biology*, 11(6), 251–263. <https://doi.org/10.1093/intbio/zyz021>

Jolly, M. K., Ware, K. E., Xu, S., Gilja, S., Shetler, S., Yang, Y., Wang, X., Austin, R. G., Runyambo, D., Hish, A. J., DeWitt, S. B., **George, J. T.**, *et al.* (2019). E-cadherin represses anchorage-independent growth in sarcomas through both signaling and mechanical mechanisms. *Molecular Cancer Research*, 17(6), 1391–1402. <https://doi.org/10.1158/1541-7786.mcr-18-0763>

Li, X., Jolly, M. K., **George, J. T.**, Pienta, K. J., & Levine, H. (2019). Computational modeling of the crosstalk between macrophage polarization and tumor cell plasticity in the tumor microenvironment. *Frontiers in Oncology*, 9, 10. <https://doi.org/10.3389/fonc.2019.00010>

Jia, D., **George, J. T.**, Tripathi, S. C., Lu, M., Hanash, S. M., Jolly, M. K., & Levine, H. (2019). Testing the gene expression classification of the EMT spectrum. *Physical Biology*, 16(2), 025002.

Joanne Hsu

Hsu, J. I., Pflugfelder, S. C., & Kim, S. J. (2019). Ocular complications of atopic dermatitis. *Cutis*, 104(3), 189–193.

Patrick Hunt

Liu, G., Froudarakis, E., Patel, J. M., Kochukov, M. Y., Pekarek, B., **Hunt, P. J.**, Patel, M., Ung, K., Fu, C. H., Jo, J., *et al.* (2019). Target specific functions of EPL interneurons in olfactory circuits. *Nature Communications*, 10(1), 3369. <https://doi.org/10.1038/s41467-019-11354-y>

Guzick, A., **Hunt, P. J.**, Bijanki, K. R., Schneider, S. C., Sheth, S. A., Goodman, W. K., & Storch, E. A. (2019). Improving long term patient outcomes from deep brain stimulation for treatment-refractory obsessive-compulsive disorder. *Expert Review of Neurotherapeutics*, 20(1), 95–107. <https://doi.org/10.1080/14737175.2020.1694409>

Angad Jolly

Jolly, A., Bayram, Y., Turan, S., Aycan, Z., Tos, T., Abali, Z. Y., Bas, F., Darendeliler, F., Colombo, R., Barakat, T. S., *et al.* (2019). Exome sequencing of a primary ovarian insufficiency cohort reveals common molecular etiologies for a spectrum of disease. *Journal of Clinical Endocrinology & Metabolism*, 104(8), 3049–3067. <https://doi.org/10.1210/jc.2019-00248>

Link, N., Chung, H., **Jolly, A.**, Withers, M., Tepe, B., Arenkiel, B. R., Shah, P. S., Krogan, N. J., Aydin, H., Geckinli, B. B., *et al.* (2019). Mutations in ANKLE2, a ZIKA virus target, disrupt an asymmetric cell division pathway in *Drosophila* neuroblasts to cause microcephaly. *Developmental Cell*, 51(6), 713–729. <https://doi.org/10.1016/j.devcel.2019.10.009>

Publications 2019-2020

Zachary Kadow

- Heallen, T. R., **Kadow, Z. A.**, Kim, J. H., Wang, J., & Martin, J. F. (2019). Stimulating cardiogenesis as a treatment for heart failure. *Circulation Research*, 124(11), 1647–1657. <https://doi.org/10.1161/circresaha.118.313573>
- Hill, M. C., **Kadow, Z. A.**, Li, L., Tran, T. T., Wythe, J. D., & Martin, J. F. (2019). A cellular atlas of Pitx2-dependent cardiac development. *Development*, 146(12), dev180398. <https://doi.org/10.1242/dev.180398>
- Heallen, T. R., **Kadow, Z. A.**, Wang, J., & Martin, J. F. (2019). Determinants of cardiac growth and size. *Cold Spring Harbor Perspectives in Biology*, 12(3), a037150. <https://doi.org/10.1101/cshperspect.a037150>
- Zhang, M., Hill, M. C., **Kadow, Z. A.**, Suh, J. H., Tucker, N. R., Hall, A. W., Tran, T. T., Swinton, P. S., Leach, J. P., Margulies, K. B., *et al.* (2019). Long-range Pitx2c enhancer–promoter interactions prevent predisposition to atrial fibrillation. *Proceedings of the National Academy of Sciences*, 116(45), 22692–22698. <https://doi.org/10.1073/pnas.1907418116>

Gerry Koons

- Tatara, A. M., **Koons, G. L.**, Watson, E., Piepergerdes, T. C., Shah, S. R., Smith, B. T., Shum, J., Melville, J. C., Hanna, I. A., Demian, N., *et al.* (2019). Biomaterials-aided mandibular reconstruction using in vivo bioreactors. *Proceedings of the National Academy of Sciences*, 116(14), 6954–6963. <https://doi.org/10.1073/pnas.1819246116>
- Koons, G. L.**, Schenke-Layland, K., & Mikos, A. G. (2019). Why, when, who, what, how, and where for trainees writing literature review articles. *Annals of Biomedical Engineering*, 47(11), 2334–2340. <https://doi.org/10.1007/s10439-019-02290-5>
- Kontoyiannis, P. D., **Koons, G. L.**, Hicklen, R. S., Mikos, A. G., & Kontoyiannis, D. P. (2019). Insect bite–associated invasive fungal infections. *Open Forum Infectious Diseases*, 6(10). <https://doi.org/10.1093/ofid/ofz385>
- Molina, E. R., Chim, L. K., Salazar, M. C., **Koons, G. L.**, Menegaz, B. A., Ruiz-Velasco, A., Lamhamedi-Cherradi, S.-E., Vetter, A. M., Satish, T., Cuglievan, B., *et al.* (2019). 3D tissue-engineered tumor model for Ewing’s sarcoma that incorporates bone-like ECM and mineralization. *ACS Biomaterials Science & Engineering*, 6(1), 539–552. <https://doi.org/10.1021/acsbomaterials.9b01068>
- Wang, S., Yang, Y., **Koons, G. L.**, Mikos, A. G., Qiu, Z., Song, T., Cui, F., & Wang, X. (2020). Tuning pore features of mineralized collagen/PCL scaffolds for cranial bone regeneration in a rat model. *Materials Science and Engineering: C*, 106, 110186. <https://doi.org/10.1016/j.msec.2019.110186>

Peter Kundert

- Kundert, P.**, & Shaulsky, G. (2019). Cellular allorecognition and its roles in Dictyostelium development and social evolution. *International Journal of Developmental Biology*, 63(8–9–10), 383–393. <https://doi.org/10.1387/ijdb.190239gs>

Michael Lam

- Lam, M. T.**, Mace, E. M., & Orange, J. S. (2020). A research-driven approach to the identification of novel natural killer cell deficiencies affecting cytotoxic function. *Blood*, 135(9), 629–637. <https://doi.org/10.1182/blood.2019000925>
- Lam, M. T.**, Coppola, S., Krumbach, O. H. F., Prencipe, G., Insalaco, A., Cifaldi, C., Brigida, I., Zara, E., Scala, S., Di Cesare, S., *et al.* (2019). A novel disorder involving dyshematopoiesis, inflammation, and HLH due to aberrant CDC42 function. *Journal of Experimental Medicine*, 216(12), 2778–2799. <https://doi.org/10.1084/jem.20190147>

Cameron Landers

- Madison, M. C., **Landers, C. T.**, Gu, B. H., Chang, C. Y., Tung, H. Y., You, R., Hong, M. J., Baghaei, N., Song, L. Z., Porter, P., *et al.* (2019). Electronic cigarettes disrupt lung lipid homeostasis and innate immunity independent of nicotine. *Journal of Clinical Investigation*, 129(10), 4290–4304. <https://doi.org/10.1172/jci128531>
- Landers, C. T.**, Tung, H. Y., Knight, J. M., Madison, M. C., Wu, Y., Zeng, Z., Porter, P. C., Rodriguez, A., Flick, M. J., Kheradmand, F., *et al.* (2019). Selective cleavage of fibrinogen by diverse proteinases initiates innate allergic and antifungal immunity through CD11b. *Journal of Biological Chemistry*, 294(22), 8834–8847. <https://doi.org/10.1074/jbc.ra118.00672>
- Gu, B. H., Sprouse, M. L., Madison, M. C., Hong, M. J., Yuan, X., Tung, H. Y., **Landers, C. T.**, Song, L. Z., Corry, D. B., Bettini M., *et al.* (2019). A novel animal model of emphysema induced by anti-elastin autoimmunity. *Journal of Immunology*, 203(2), 349–359. <https://doi.org/10.4049/jimmunol.1900113>

Gary Liu

- Liu, G.**, Froudarakis, E., Patel, J. M., Kochukov, M. Y., Pekarek, B., Hunt, P. J., Patel, M., Ung, K., Fu, C. H., Jo, J., *et al.* (2019). Target specific functions of EPL interneurons in olfactory circuits. *Nature Communications*, 10(1). <https://doi.org/10.1038/s41467-019-11354-y>

Publications 2019-2020

Colleen Longley (Brady)

Chen, W., Cai, Z. L., Chao, E. S., Chen, H., **Longley, C. M.**, Hao, S., Chao, H. T. Kim, J. H., Messier, J. E., Zoghbi, H. Y., *et al.* (2020). *Stxbp1/Munc18-1* haploinsufficiency impairs inhibition and mediates key neurological features of *STXBP1* encephalopathy. *eLife*, 9, e48705. <https://doi.org/10.7554/eLife.48705>

Grant Mangleburg

Al-Ouran, R., Wan, Y. W., **Mangleburg C. G.**, Lee, T. V., Allison, K., Shulman, J. M., & Liu, Z. (2019). A portal to visualize transcriptome profiles in mouse models of neurological disorders. *Genes*, 10(10), 759. <https://doi.org/10.3390/genes10100759>

Jessica Messier

Chen, W., Cai, Z. L., Chao, E. S., Chen, H., Longley, C. M., Hao, S., Chao, H. T. Kim, J. H., **Messier, J. E.**, Zoghbi, H. Y., *et al.* (2020). *Stxbp1/Munc18-1* haploinsufficiency impairs inhibition and mediates key neurological features of *STXBP1* encephalopathy. *eLife*, 9, e48705. <https://doi.org/10.7554/eLife.48705>

Eric Molina

Molina, E. R., Chim, L. K., Salazar, M. C., Koons, G. L., Menegaz, B. A., Ruiz-Velasco, A., Lamhamedi-Cherradi, S.-E., Vetter, A. M., Satish, T., Cuglievan, B., *et al.* (2019). 3D tissue-engineered tumor model for Ewing's sarcoma that incorporates bone-like ECM and mineralization. *ACS Biomaterials Science & Engineering*, 6(1), 539–552. <https://doi.org/10.1021/acsbomaterials.9b01068>

Smith, B. T., Bittner, S. M., Watson, E., Smoak, M. M., Diaz-Gomez, L., **Molina, E. R.**, Kim, Y. S., Hudgins, C. D., Melchiorri, A. J., Scott, D. W., *et al.* (2019). Multimaterial dual gradient three-dimensional printing for osteogenic differentiation and spatial segregation. *Tissue Engineering Part A*. <https://doi.org/10.1089/ten.tea.2019.0204>

Molina, E. R., Chim, L. K., Salazar, M. C., Mehta, S. M., Menegaz, B. A., Lamhamedi-Cherradi, S.-E., Satish, T., Mohiuddin, S., McCall, D., Zaske, A. M., *et al.* (2019). Mechanically tunable coaxial electrospun models of YAP/TAZ mechanoregulation and IGF-1R activation in osteosarcoma. *Acta Biomaterialia*, 100, 38–51. <https://doi.org/10.1016/j.actbio.2019.09.029>

Molina, E. R., Chim, L. K., Barrios, S., Ludwig, J. A., & Mikos, A. G. (2020). Modeling the tumor microenvironment and pathogenic signaling in bone sarcoma. *Tissue Engineering Part B: Reviews*. <https://doi.org/10.1089/ten.teb.2019.0302>

Sonia Parra

Parra, S., Oden, M., Schmeler, K., & Richards-Kortum, R. (2019). Low-cost instructional apparatus to improve training for cervical cancer screening and prevention. *Obstetrics & Gynecology*, 133(3), 559–567. <https://doi.org/10.1097/aog.0000000000003140>

Parra, S. G., Rodriguez, A. M., Cherry, K. D., Schwarz, R. A., Gowen, R. M., Guerra, L. B., Milbourne, A. M., Toscano, P. A., Fisher-Hoch, S. P., Schmeler, K. M., *et al.* (2019). Low-cost, high-resolution imaging for detecting cervical precancer in medically-underserved areas of Texas. *Gynecologic Oncology*, 154(3), 558–564. <https://doi.org/10.1016/j.ygyno.2019.06.024>

Tang, Y., Kortum, A., **Parra, S. G.**, Vohra, I., Milbourne, A., Ramalingam, P., Toscano, P. A., Schmeler, K. M., & Richards-Kortum, R. R. (2019). In vivo imaging of cervical precancer using a low-cost and easy-to-use confocal microendoscope. *Biomedical Optics Express*, 11(1), 269. <https://doi.org/10.1364/boe.381064>

Parra, S., Carranza, E., Coole, J., Hunt, B., Smith, C., Keahey, P., Maza, M., Schmeler, K., & Richards-Kortum, R. (2020). Development of low-cost point-of-care technologies for cervical cancer prevention based on a single-board computer. *IEEE Journal of Translational Engineering in Health and Medicine*, 1, 1. <https://doi.org/10.1109/jtehm.2020.2970694>

Publications 2019-2020

Jay Patel

- Patel, J. M.**, Swanson, J., & Arenkiel, B. (2019). Optogenetic food odor avoidance assay. *Bio-Protocol*, 9(20). <https://doi.org/10.21769/bioprotoc.3406>
- Patel, J. M.**, Swanson, J., Ung, K., Herman, A., Hanson, E., Ortiz-Guzman, J., Selever, J., Tong, Q., & Arenkiel, B. R. (2019). Sensory perception drives food avoidance through excitatory basal forebrain circuits. *eLife*, 8. <https://doi.org/10.7554/elife.44548>
- Fernandez, J., Lee, B., **Patel, J. M.**, Weiss, E., Jiang, J., Dao, H., & Kim, S. J. (2019). Retrospective case series of isotretinoin outcomes for acne in 393 female patients at Baylor College of Medicine during 2012-2016. *Journal of the American Academy of Dermatology*. <https://doi.org/10.1016/j.jaad.2019.06.1293>
- Liu, G., Froudarakis, E., **Patel, J. M.**, Kochukov, M. Y., Pekarek, B., Hunt, P. J., Patel, M., Ung, K., Fu, C. H., Jo, J., *et al.* (2019). Target specific functions of EPL interneurons in olfactory circuits. *Nature Communications*, 10(1), 3369. <https://doi.org/10.1038/s41467-019-11354-y>
- Patel, J. M.**, Boyd, M., & Rizk, C. (2019). Rough, scaly, red plaques (Actinic Keratosis). *Clinical Advisor*, 31-33.

Rowland Pettit

- Nicolescu, R., Agrawal, N. A., **Pettit, R. W.**, & Netscher, D. T. (2020). Recurrent schwannomatosis of the hand. *HAND*. <https://doi.org/10.1177/1558944719895605>
- Gravina, P. R., **Pettit, R. W.**, Davis, M. J., Winocour, S. J., & Selber, J. C. (2019). Evidence for the use of acellular dermal matrix in implant-based breast reconstruction. *Seminars in Plastic Surgery*, 33(4), 229–235. <https://doi.org/10.1055/s-0039-1696986>

Valencia Potter

- Robichaux, M. A., **Potter, V. L.**, Zhang, Z., He, F., Liu, J., Schmid, M. F., & Wensel, T. G. (2019). Defining the layers of a sensory cilium with STORM and cryoelectron nanoscopy. *Proceedings of the National Academy of Sciences*, 116(47), 23562–23572. <https://doi.org/10.1073/pnas.1902003116>

Riyad Seervai

- Seervai, R. N. H.**, Lee, M. E., & Rizk C. (2019). Yellow, brittle toenails in a man (Onychomycosis). *Clinical Advisor*, 23-6.
- Seervai, R. N. H.**, Johnson, E., & Rizk C. (2019). PLEVA versus Pemphigus Vulgaris. *Clinical Advisor*, Accepted.
- Wiggins, C. J., & **Seervai, R. N. H.** (2020). Angiofibroma. *DermNet NZ*, Accepted.

Muhammad Shamim

- Zhang, Y., Zhang, X., Ba, Z., Liang, Z., Dring, E. W., Hu, H., Lou, J., Kyritsis, N., Zurita, J., **Shamim, M. S.**, *et al.* (2019). The fundamental role of chromatin loop extrusion in physiological V(D) J recombination. *Nature*, 573(7775), 600–604. <https://doi.org/10.1038/s41586-019-1547-y>

Brandon Smith

- Lodoso-Torrecilla, I., Grosfeld, E., Marra, A., **Smith, B. T.**, Mikos, A. G., Ulrich, D. J., Jansen, J. A., & van den Beucken, J. J. (2019). Multimodal porogen platforms for calcium phosphate cement degradation. *Journal of Biomedical Materials Research Part A*, 107(8). <https://doi.org/10.1002/jbm.a.36686>
- Guo, J. L., Kim, Y. S., Xie, V. Y., **Smith, B. T.**, Watson, E., Lam, J., Pearce, A., Engel, P. S., & Mikos, A. G. (2019). Modular, tissue-specific, and biodegradable hydrogel cross-linkers for tissue engineering. *Science Advances*, 5(6). <https://doi.org/10.1126/sciadv.aaw7396>
- Bittner, S. M., **Smith, B. T.**, Diaz-Gomez, L., Hudgins, C. D., Melchiorri, A. J., Scott, D. W., Fisher, J. P., & Mikos, A. G. (2019). Fabrication and mechanical characterization of 3D printed vertical uniform and gradient scaffolds for bone and osteochondral tissue engineering. *Acta Biomaterialia*, 90, 37–48. <https://doi.org/10.1016/j.actbio.2019.03.041>
- Tatara, A. M., Koons, G. L., Watson, E., Piepergerdes, T. C., Shah, S. R., **Smith, B. T.**, Shum, J., Melville, J. C., Hanna, I. A., Demian, N., *et al.* (2019). Biomaterials-aided mandibular reconstruction using in vivo bioreactors. *Proceedings of the National Academy of Sciences*, 116(14), 6954–6963. <https://doi.org/10.1073/pnas.1819246116>

Julie Tomolonis

- Park, C. S., Lewis, A. H., Chen, T. J., Bridges, C. S., Shen, Y., Suppipat, K., Puppi, M., **Tomolonis, J. A.**, Pang, P. D., Mistretta, T. A., *et al.* (2019). A KLF4-DYRK2-mediated pathway regulating selfrenewal in CML stem cells. *Blood*, 134(22), 1960–1972. <https://doi.org/10.1182/blood.2018875922>

Publications 2019-2020

Gabriel Vázquez-Vélez

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