

Publications 2020-2021

Erik Anderson

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Thomas Burke

- Sengal, A., Velazquez, J., Hahne, M. V., **Burke, T.**, Abhyankar, H., Reyes, R., Olea, W., Scull, B. P., Eckstein, O. S., Bigenwald, C., *et al.* (2020). Overcoming T cell exhaustion in LCH: PD-1 blockade and targeted MAPK inhibition are synergistic in a mouse model of LCH. *Blood*, blood.2020005867. Advance online publication. <https://doi.org/10.1182/blood.2020005867>

Hannah Campbell

- Campbell, H. M.**, Quick, A. P., Abu-Taha, I., Chiang, D. Y., Kramm, C. F., Word, T. A., Brandenburg, S., Hulsurkar, M., Alsina, K. M., Liu, H. B., *et al.* (2020). Loss of SPEG Inhibitory Phosphorylation of Ryanodine Receptor Type-2 Promotes Atrial Fibrillation. *Circulation*, 142(12), 1159–1172. <https://doi.org/10.1161/CIRCULATIONAHA.120.045791>
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Kali Deans

- Cooley, M. M., Thomas, D., **Deans, K.**, Peng, Y., Lugea, A., Pandol, S. J., Puglielli, L., & Groblewski, G. E. (2021). Deficient Endoplasmic Reticulum Acetyl-CoA Import in Pancreatic Acinar Cells Leads to Chronic Pancreatitis. *Cellular and Molecular Gastroenterology and Hepatology*, 11(3), 725–738. <https://doi.org/10.1016/j.jcmgh.2020.10.008>

Mark Durham

- Lavery, L. A., Ure, K., Wan, Y. W., Luo, C., Trostle, A. J., Wang, W., Jin, H., Lopez, J., Lucero, J., **Durham, M. A.**, *et al.* (2020). Losing Dnmt3a dependent methylation in inhibitory neurons impairs neural function by a mechanism impacting Rett syndrome. *eLife*, 9, e52981. <https://doi.org/10.7554/eLife.52981>

Marcus Florez

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Thomas Gebert

- Chang-Graham, A. L., Perry, J. L., Engevik, M. A., Engevik, K. A., Scribano, F. J., **Gebert, J. T.**, Danhof, H. A., Nelson, J. C., Kellen, J. S., Strtak, A. C., *et al.* (2020). Rotavirus induces intercellular calcium waves through ADP signaling. *Science (New York, N.Y.)*, 370(6519), eabc3621. <https://doi.org/10.1126/science.abc3621>

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Jason George

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- Chakraborty, P., **George, J. T.**, Woodward, W. A., Levine, H., & Jolly, M. K. (2021). Gene expression profiles of inflammatory breast cancer reveal high heterogeneity across the epithelial-hybrid-mesenchymal spectrum. *Translational Oncology*, 14(4), 101026. <https://doi.org/10.1016/j.tranon.2021.101026>
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Katie Hogan

- Bittner, S. M., Pearce, H. A., **Hogan, K. J.**, Smoak, M. M., Guo, J. L., Melchiorri, A. J., Scott, D. W., & Mikos, A. G. (2021). Swelling Behaviors of 3D Printed Hydrogel and Hydrogel-Microcarrier Composite Scaffolds. *Tissue Engineering. Part A*, 10.1089/ten.TEA.2020.0377. Advance online publication. <https://doi.org/10.1089/ten.TEA.2020.0377>
- Hogan KJ**, Mikos AG. (2020). Biodegradable thermoresponsive polymers: Applications in drug delivery and tissue engineering. *Polymer*. 211, 123063. <https://doi.org/10.1016/j.polymer.2020.123063>
- Farr, A. C., **Hogan, K. J.**, & Mikos, A. G. (2020). Nanomaterial Additives for Fabrication of Stimuli-Responsive Skeletal Muscle Tissue Engineering Constructs. *Advanced Healthcare Materials*, e2000730. Advance online publication. <https://doi.org/10.1002/adhm.202000730>

Patrick Hunt

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Katya Kabotyanski

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Publications 2020-2021

Zachary Kadow

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Gerry Koons

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- Diaz-Gomez, L., Elizondo, M. E., **Koons, G. L.**, Diba, M., Chim, L. K., Cosgriff-Hernandez, E., Melchiorri, A. J., & Mikos, A. G. (2020). Fiber engraving for bioink bioprinting within 3D printed tissue engineering scaffolds. *Bioprinting*, 18, e00076. <https://doi.org/10.1016/j.bprint.2020.e00076>
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Peter Kundert

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Michael Lam

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Alexander Lu

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Christina Magyar

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Yajur Makur

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Grant Mangleburg

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Publications 2020-2021

Malcolm MacDonald

Gopakumar, S., Gadgil, N., **McDonald, M. F.**, Gadot, R., & Ropper, A. E. (2020). Neurenteric Cyst: Case Report and Operative Video. *Cureus*, 12(6), e8714. <https://doi.org/10.7759/cureus.8714>

Vicki Mercado

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Oliver Moore

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Kristen Panthagani

Oluyomi, A. O., **Panthagani, K.**, Sotelo, J., Gu, X., Armstrong, G., Luo, D. N., Hoffman, K. L., Rohlman, D., Tidwell, L., Hamilton, W. J., *et al.* (2021). Houston hurricane Harvey health (Houston-3H) study: assessment of allergic symptoms and stress after hurricane Harvey flooding. *Environmental Health: a Global Access Science Source*, 20(1), 9. <https://doi.org/10.1186/s12940-021-00694-2>

Rowland Pettit

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Valencia Potter

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Juan Carlos Ramirez

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Caroline Sands

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Riyad Seervai

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Publications 2020-2021

Muhammad Shamim

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Kavya Singampalli

Singampalli, K. L., Balaji, S., Wang, X., Parikh, U. M., Kaul, A., Gilley, J., Birla, R. K., Bollyky, P. L., & Keswani, S. G. (2020). The Role of an IL-10/Hyaluronan Axis in Dermal Wound Healing. *Frontiers in Cell and Developmental Biology*, 8, 636. <https://doi.org/10.3389/fcell.2020.00636>

Corey St. Romain

Stephens, G. S., Fu, C. H., **St Romain, C. P.**, Zheng, Y., Botterill, J. J., Scharfman, H. E., Liu, Y., & Chin, J. (2020). Genes Bound by Δ FosB in Different Conditions With Recurrent Seizures Regulate Similar Neuronal Functions. *Frontiers in Neuroscience*, 14, 472. <https://doi.org/10.3389/fnins.2020.00472>

Christopher Sylvester

Wilson, R. L., **Sylvester, C. B.**, Wiltz, D. C., Kumar, A., Malik, T. H., Morrisett, J. D., & Grande-Allen, K. J. (2020). The Ryanodine Receptor Contributes to the Lysophosphatidylcholine-Induced Mineralization in Valvular Interstitial Cells. *Cardiovascular Engineering and Technology*, 11(3), 316–327. <https://doi.org/10.1007/s13239-020-00463-1>

Sylvester, C. B., Pugazenthi, A., Grande-Allen, K. J., & Ghanta, R. K. (2021). Cell-Laden Bioactive Poly(ethylene glycol) Hydrogels for Studying Mesenchymal Stem Cell Behavior in Myocardial Infarct-Stiffness Microenvironments. *Cardiovascular Engineering and Technology*, 10.1007/s13239-020-00515-6. Advance online publication. <https://doi.org/10.1007/s13239-020-00515-6>

Eric Wang

Lurz, K.-K., Bashiri, M., Willeke, K., Jagadish, A. K., **Wang, E.**, Walker, E. Y., Cadena, S. A., Muhammad, T., Cobos, E., Tolia, A. S., *et al.* (2020). Generalization in data-driven models of primary visual cortex. *BioRxiv*, 2020.10.05.326256. <https://doi.org/10.1101/2020.10.05.326256>

Jarey Wang

Bowling, E. A., **Wang, J. H.**, Gong, F., Wu, W., Neill, N. J., Kim, I. S., Tyagi, S., Orellana, M., Kurley, S. J., Dominguez-Vidaña, R., *et al.* (2021). Spliceosome-targeted therapies trigger an antiviral immune response in triple-negative breast cancer. *Cell*, 184(2), 384–403.e21. <https://doi.org/10.1016/j.cell.2020.12.031>

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Julia Wang

Martelli, F., Zhongyuan, Z., **Wang, J.**, Wong, C. O., Karagas, N. E., Roessner, U., Rupasinghe, T., Venkatachalam, K., Perry, T., Bellen, H. J., *et al.* (2020). Low doses of the neonicotinoid insecticide imidacloprid induce ROS triggering neurological and metabolic impairments in *Drosophila*. *Proceedings of the National Academy of Sciences of the United States of America*, 117(41), 25840–25850. <https://doi.org/10.1073/pnas.2011828117>

Cheng, Y., Pitoniak, A., **Wang, J.**, & Bohmann, D. (2021). Preserving transcriptional stress responses as an anti-aging strategy. *Aging Cell*, 20(2), e13297. <https://doi.org/10.1111/accel.13297>

lysine)-loaded hydrogels. *Journal of controlled release : official journal of the Controlled Release Society*, 328, 710–721. <https://doi.org/10.1016/j.jconrel.2020.09.048>

Kim YS, Chien AJ, Guo JL, *et al.* Chondrogenesis of cocultures of mesenchymal stem cells and articular chondrocytes in poly(l-lysine)-loaded hydrogels. *Journal of Controlled Release*. 2020;328:710-721. doi:10.1016/j.jconrel.2020.09.048

Publications 2020-2021

Emma Watson

- Watson, E.**, Smith, B. T., Smoak, M. M., Tataru, A. M., Shah, S. R., Pearce, H. A., Hogan, K. J., Shum, J., Melville, J. C., Hanna, I. A., *et al.* (2020). Localized mandibular infection affects remote in vivo bioreactor bone generation. *Biomaterials*, 256, 120185. <https://doi.org/10.1016/j.biomaterials.2020.120185>
- Watson, E.**, Tataru, A. M., van den Beucken, J., Jansen, J. A., Wong, M. E., & Mikos, A. G. (2020). An Ovine Model of In Vivo Bioreactor-Based Bone Generation. *Tissue Engineering. Part C, Methods*, 26(7), 384–396. <https://doi.org/10.1089/ten.TEC.2020.0125>
- Guo, J. L., Li, A., Kim, Y. S., Xie, V. Y., Smith, B. T., **Watson, E.**, Bao, G., & Mikos, A. G. (2020). Click functionalized, tissue-specific hydrogels for osteochondral tissue engineering. *Journal of Biomedical Materials Research. Part A*, 108(3), 684–693. <https://doi.org/10.1002/jbm.a.36848>
- Kim, Y. S., Chien, A. J., Guo, J. L., Smith, B. T., **Watson, E.**, Pearce, H. A., Koons, G. L., Navara, A. M., Lam, J., Scott, D. W., *et al.* (2020). Chondrogenesis of cocultures of mesenchymal stem cells and articular chondrocytes in poly(l-lysine)-loaded hydrogels. *Journal of Controlled Release: Official Journal of the Controlled Release Society*, 328, 710–721. <https://doi.org/10.1016/j.jconrel.2020.09.048>

Timothy Wu

- Mangleburg, C. G., **Wu, T.**, Yalamanchili, H. K., Guo, C., Hsieh, Y. C., Duong, D. M., Dammer, E. B., De Jager, P. L., Seyfried, N. T., Liu, Z., *et al.* (2020). Integrated analysis of the aging brain transcriptome and proteome in tauopathy. *Molecular Neurodegeneration*, 15(1), 56. <https://doi.org/10.1186/s13024-020-00405-4>

William Wu

- Bowling, E. A., Wang, J. H., Gong, F., **Wu, W.**, Neill, N. J., Kim, I. S., Tyagi, S., Orellana, M., Kurley, S. J., Dominguez-Vidaña, R., *et al.* (2021). Spliceosome-targeted therapies trigger an antiviral immune response in triple-negative breast cancer. *Cell*, 184(2), 384–403.e21. <https://doi.org/10.1016/j.cell.2020.12.031>

Outstanding Physician Scientist Award

Richard R. Dickason, Jr., M.D., Ph.D. Scholar Endowment

2020:	Eric Molina, M.D., Ph.D.	2010:	James Kretlow, M.D., Ph.D.
2019:	Derrick Chu, M.D., Ph.D.	2009:	Dona Murphey, M.D., Ph.D.
2018:	Winnie Zou, M.D., Ph.D.	2008:	David Weksberg, M.D., Ph.D.
2017:	Alexander Tataara, M.D., Ph.D.	2007:	Michiya Nishino, M.D., Ph.D.
2016:	Tiffany Ya-Ting Hsu, M.D., Ph.D.	2006:	Sara Copeland Shalin, M.D., Ph.D.
2015:	David Yi-Eng Chiang, M.D., Ph.D.	2005:	Brenda Bohnsack, M.D., Ph.D.
2014:	Philip Michael Boone, M.D., Ph.D.	2004:	Michael Tetzlaff, M.D., Ph.D.
2013:	Christopher McGraw, M.D., Ph.D.	2003:	Gautam Bhave, M.D., Ph.D.
2012:	Daniel Gould, M.D., Ph.D.	2002:	Thomas E. Lloyd, M.D., Ph.D.
2011:	Geoff Preidis, M.D., Ph.D.	2001:	Richard D. King, M.D., Ph.D.

Richard R. Dickason, Jr., M.D., Ph.D. matriculated at Baylor College of Medicine in 1991 in the M.D./ Ph.D. Program after having graduated summa cum laude from the University of Notre Dame. Rich was an exceptional graduate student whose scientific inquisitiveness was complemented by a genuine commitment to apply basic research to clinical medicine. He completed a highly creative and challenging thesis project with publications in numerous outstanding journals. Rich's written dissertation received the Sigma Xi Excellence Award for the best dissertation in biological sciences. His research also resulted in 2 patents and several industry licensure agreements. During his training at Baylor, Rich was selected for a fellowship in Japan and received several national awards for research excellence.

Having completed his medical school training with a contagious enthusiasm for the pursuit of knowledge, Rich was awarded his Ph.D. in 1996 and his M.D. in 1998. His thirst for knowledge was always coupled with compassion for patients and a commitment to the delivery of outstanding clinical care. Rich's excellence in medical school was evidenced by his election to AOA, the medical school honor society. He entered the Baylor College of Medicine Integrated Plastic Surgery

Residency Program, and at the time of his death at the age of 31 in 2001 was in his third year of training in this program.

In addition to being an excellent Physician Scientist, Rich was a wonderful father and husband. He and his wife, Nancy, married while they were both in medical school at Baylor. They have two sons, Richard III and William Chandler.

Many faculty members and Baylor College of Medicine classmates have come forward to assist in the effort to establish an endowed fund in memory of Rich. His contagious smile, his compassion, and his love of knowledge endeared him to all of us. We are honored to work with Rich's friends, colleagues, and family to recognize his outstanding achievements.

For the twentieth presentation of the Outstanding Physician Scientist Award, the committee selected Eric Molina, M.D., Ph.D. as the recipient. Eric's name has been added to the commemorative plaque hanging in the MSTP office of all Outstanding Physician Scientist Awards granted over the years. Eric will receive a statue and a cash award for his outstanding contributions to our program.