Title	Journal	Link	Publication date	References	Top Paper
Longitudinal Ultrasound Imaging of an Individual Fetus In Utero Using an Echogenic Marker	Ultrasound in Medicine and Biology		2026	Ruiyan, Tan, Sarah K., Debebe, Owen, Botelho, Cameron, Goddard, Brian J., Nieman, John G., Sled	Yes
Standardisation and future of preclinical echocardiography	Mammalian Genome	https://doi.org/10.1007/s00335-023-09981-4	2023	Caroline E., O'Riordan, Philippe, Trochet, Magdelena, Steiner, Dieter, Fuchs	Yes
Generation of liver metastases in a mouse model using ultrasound-guided intravenous injection	STAR Protocols	https://linkinghub.elsevier.com/retrieve/pii/S2666166723001211	2023	Amanda, Labora, Hailey, Lee, Charlotte, Chan, Erin, Tabornal, Thuc, Le, Khalid, Rashid, Evan, Abt, Takanobu, Yamao, Hanna, Mandl, Amanda, Creech, Alykhan, Premji, Luyi, Li, Jason, Link, Nanping, Wu, Caius, Radu, Timothy, Donahue	Yes
Photoacoustic properties of polypyrrole nanoparticles	Nanomaterials		2021	Peter, Keša, Monika, Paúrová, Michal, Babič, Tomáš, Heizer, Petr, Matouš, Karolína, Turnovcová, Dana, Mareková, Luděk, Šefc, Vít, Herynek	Yes
Accuracy of Ultrasound-Guided versus Landmark-Guided Intra-articular Injection for Rat Knee Joints	Ultrasound in Medicine & Biology	https://linkinghub.elsevier.com/retrieve/pii/S0301562919306684	2019	Amparo, Ruiz, Dalibel, Bravo, Alejandra, Duarte, Ronald S., Adler, José G., Raya	Yes
High-Frequency Ultrasound-Guided Injection for the Generation of a Novel Orthotopic Mouse Model of Human Thyroid Carcinoma	Thyroid	http://online.liebertpub.com/doi/10.1089/thy.2015.0511	2016	Adelaide, Greco, Sandra, Albanese, Luigi, Auletta, Peppino, Mirabelli, Antonella, Zannetti, Crescenzo, D'Alterio, Gennaro, Di Maro, Francesca Maria, Orlandella, Giuliana, Salvatore, Andrea, Soricelli, Marco, Salvatore	Yes
Ultrasound-guided selective occlusion of uteroplacental canal vessels in the mouse alters fetal growth and placental development	American Journal of Physiology-Heart and Circulatory Physiology	https://journals.physiology.org/doi/10.1152/ajpheart.00603.2025	2026	Sarah K., Debebe, Anum, Rahman, Taylor, DeYoung, Lindsay S., Cahill, W. Tony, Parks, Christopher K., Macgowan, John C., Kingdom, John G., Sled	No
Crotonate suppresses breast cancer metastasis and promotes immunotherapy response by inducing ACSS2-mediated EZH2-K348 crotonylation	Sci. Adv	https://www.science.org	2026	Bo, Liu, Xinwei, Duan, Ge, Wang, Youzhi, Tang, Kunhao, Zhou, Jing, Zhang, Yu, Yu, Hongquan, Zhang	No
Minimally Invasive Model of Mitral Regurgitation in Mice	Circulation Research		2025	Jian, Wu, Xuan, Li, Xiang, Li, Robert, Lakin, Jieyun, You, Jianguo, Jia, Le, Kang, Liming, Chen, Chunjie, Yang, Zhenzhong, Zhang, Shijun, Wang, Hui, Gong, Kuan, Cheng, Yeqing, Xie, Shujuan, Li, Huan, Sun, Peter H., Backx, Fenghua, Yang, Yunzeng, Zou	No
The "route cause" of methotrexate-induced brain structure changes in a juvenile mouse model: Comparison of systemic and CNS-targeted chemotherapy	NeuroToxicology		2026	Sun Eui, Choi, Tiffany, Ayoub, Gail, Lee, Anne L., Wheeler, Sharon L., Guger, Rosanna, Weksberg, Shinya, Ito, Russell J., Schachar, Johann, Hitzler, Brian J., Nieman	No
HSF1–DBC1 axis drives prostate cancer progression by activating a metastatic transcriptional program	Experimental and Molecular Medicine		2025	Sue Jin, Moon, Hwa Jin, Kim, Joung Eun, Lim, Sanghoon, Hong, Hong Hee, Won, Byong Chang, Jeong, Jeong Hoon, Kim	No
An Intraperitoneal Injection Technique in Adult Zebrafish that Minimizes Body Damage and Associated Mortality	Journal of Visualized Experiments		2024	Maryam, Moossavi, Hong, Zhang, Jiarong, Li, Feixiang, Yan, Xiaolei, Xu	No
Precision-Targeted Injection Laryngoplasty and Longitudinal Biomaterial Effects Evaluation Using High-resolution Ultrasonography in a Rat Model	Otolaryngology - Head and Neck Surgery (United States)		2024	Wen Hsuan, Tseng, Tzu Yu, Hsiao, Tsung Lin, Yang	No
Cancer stem cells release interleukin-33 within large oncosomes to promote immunosuppressive differentiation of macrophage precursors	Immunity		2024	Hannah L., Erickson, Sachiko, Taniguchi, Anish, Raman, Justin J., Leitenberger, Sanjay V., Malhotra, Naoki, Oshimori	No
An injury-associated lobular microniche is associated with the classical tumor cell phenotype in pancreatic cancer	Nature Communications	https://www.nature.com/articles/s41467-025-63864-7	2025	Sara, Söderqvist, Annika, Viljamaa, Natalie, Geyer, Anna-Lena, Keller, Kseniya, Ruksha, Carina, Strell, Neda, Hekmati, Alexandra, Niculae, Jennie, Engstrand, Ernesto, Sparrelid, Caroline, Salmén, Tânia D. F., Costa, Miao, Zhao, Staffan, Strömblad, Argyro, Zacharouli, Poya, Ghorbani, Sara, Harrizi, Yousra, Hamidi, Olga, Khorosjutina, Stefina, Milanova, Bernhard, Schmierer, Béla, Bozóky, Carlos, Fernández Moro, Marco, Gerling	No
Ectoderm barcoding reveals neural and cochlear compartmentalization	Science	https://www.science.org	2025	Sandra, de Haan, Jingyan, He, Agustin A, Corbat, Lenka, Belicova, Michael, Ratz, Elin, Vinsland, Jonas, Frisén, Matthew W, Kelley, Emma R, Andersson	No
From breast cancer cell homing to the onset of early bone metastasis: The role of bone (re)modeling in early lesion formation	Sci. Adv	https://www.science.org	2024	Sarah A E, Young, Anna-Dorothea, Heller, Daniela S, Garske, Maximilian, Rummler, Victoria, Qian, Agnes, Ellinghaus, Georg N, Duda, Bettina M, Willie, Anika, Grüneboom, Amaia, Cipitria	No
Cerebral organoids display dynamic clonal growth and tunable tissue replenishment	Nature Cell Biology		2024	Dominik, Lindenhofer, Simon, Haendeler, Christopher, Esk, Jamie B., Littleboy, Clarisse, Brunet Avalos, Julia, Naas, Florian G., Pflug, Eline G.P., van de Ven, Daniel, Reumann, Alexandre D., Baffet, Arndt, von Haeseler, Jürgen A., Knoblich	No
CT-Visible Microspheres Enable Whole-Body In Vivo Tracking of Injectable Tissue Engineering Scaffolds	Advanced Healthcare Materials		2024	Annalisa, Bettini, Peter Stephen, Patrick, Richard M., Day, Daniel J., Stuckey	No
Coiled-Coil Protein Hydrogels Engineered with Minimized Fiber Diameters for Sustained Release of Doxorubicin in Triple-Negative Breast Cancer	ACS Biomaterials Science and Engineering		2024	Dustin, Britton, Jakub, Legocki, Deven, Paul, Olga, Katsara, Orlando, Aristizabal, Neelam, Pandya, Orin, Mishkit, Yingxin, Xiao, Matias, Aristizabal, Neha, Rahman, Robert, Schneider, Youssef Z., Wadghiri, Jin Kim, Montclare	No
Identification and characterization of TM4SF1+ tumor self-seeded cells	Cell Reports		2024	Haotian, Yang, Haolu, Wang, Yaowu, He, Yang, Yang, Erik W., Thompson, Di, Xia, Leslie J., Burke, Lu, Cao, John D., Hooper, Michael S., Roberts, Darrell H.G., Crawford, Xiaowen, Liang	No
A P P L I E D S C I E N C E S A N D E N G I N E E R I N G Ultrasensitive and multiplexed tracking of single cells using whole-body PET/CT	Sci. Adv	https://www.science.org	2024	Hieu T M, Nguyen, Neeladrisingha, Das, Matthew, Ricks, Xiaoxu, Zhong, Eri, Takematsu, Yuting, Wang, Carlos, Ruvalcaba, Brahim, Mehadji, Emilie, Roncali, Charles K F, Chan, Guillem, Pratx	No
Minimally invasive soft tissue repair using shrunken scaffolds	Nature Communications		2024	Mingjun, Xie, Shengxi, Jin, Kang, Yu, Hui, Lin, Yong, He	No
A P P L I E D S C I E N C E S A N D E N G I N E E R I N G Dormancy-inducing 3D engineered matrix uncovers mechanosensitive and drug-protective FHL2-p21 signaling axis	Sci. Adv	https://www.science.org	2024	Sadra, Bakhshandeh, Unai, Heras, Hubert M, Taïeb, Adithi R, Varadarajan, Susanna M, Lissek, Sarah M, Hücker, Xin, Lu, Daniela S, Garske, Sarah A, E Young, Andrea, Abaurrea, Maria M, Caffarel, Ana, Riestra, Paloma, Bragado, Jörg, Contzen, Manfred, Gossen, Stefan, Kirsch, Jens, Warfsmann, Kamran, Honarnejad, Christoph A, Klein, Amaia, Cipitria	No

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A PSA SNP associates with cellular function and clinical outcome in men with prostate cancer	Nature Communications		2024	Srilakshmi, Srinivasan, Thomas, Kryza, Nathalie, Bock, Brian W.C., Tse, Kamil A., Sokolowski, Panchadsaram, Janaththani, Achala, Fernando, Leire, Moya, Carson, Stephens, Ying, Dong, Joan, Röhl, Saeid, Alinezhad, Ian, Vela, Joanna L., Perry-Keene, Katie, Buzacott, Robert, Nica, Penny, Wilson, Mohnish, Suri, Lucy, Side, Gad, Rennert, Judith, Offman, Clare, Moynihan, Anita, Mitra, Christos, Mikropoulos, Alan, Millner, Lovise, Maehle, Jan, Lubinski, Geoffrey, Lindeman, Vincent, Khoo, Óskar Þór, Jóhannsson, Freddie C., Hamdy, Christopher, Foster, Alison, Falconer, Jorunn, Eyfjord, Gareth, Evans, Diana, Eccles, David, Dearnaley, Elena, Castro, Chris, Bangma, Audrey, Ardern-Jones, Elizabeth, Page, Elizabeth, Bancroft, Manuela, Gago-Dominguez, Jeremy, Clark, Colin, Cooper, Vincent J., Gnanapragasam, Christopher, Woodhouse, Alan, Thompson, Declan, Cahill, Chris, Ogden, David, Nicol, Naami, Mcaddy, Justyna, Sobczak, Netty, Kinsella, Jane, Melia, Sue, Moss, Lucia, D'Mello, Anne Marie Borges, Da Silva, Antony, Chamberlain, Sibel, Saya, Christos, Mikropolis, Alexander, Dias, Jeff, Bamber, Mathew, Perry, Frank, Chingewundoh, Paul, Cathcart, Nandita, de Souza, Aslam, Sohaib, Jack, Schalken, Paul, Pharoah, Sarah, Lewis, Steve, Hazell, Nick, van As, Paul, Ardern-Jones, Nening, Dennis, Angela, Wood, Syed, Hussain, Joe, Merson, Denzil, James, Diana, Keating, Eva, McGrowder, Matthew, Hogben, Kathryn, Myhill, Sarah, Thomas, Natalie, Taylor, Rose, Hall, Holly Ni, Raghallaigh, Jana, McHugh, Antonis, Antoniou, Pardeep, Kumar, Johanna, Schleutker, Christiane, Maier, Kenneth, Muir, Catherine M., Tangen, Henrik, Gronberg, Nora, Pashayan, Demetrius, Albanes, Alicja, Wolk, Janet L., Stanford, Sonja I., Berndt, Lorelei A., Mucci, Stella, Koutros, Olivier, Cussenot, Karina Dalsgaard, Sorensen, Eli Marie, Grindedal, Ruth C., Travis, Christopher A., Haiman, Robert J., MacInnis, Ana, Vega, Fredrik, Wiklund, David E., Neal, Manolis, Kogevinas, Kathryn L., Penney, Børge G., Nordestgaard, Hermann, Brenner, Esther M., John, Marija, Gamulin, Frank, Claessens, Olle, Melander, Anders, Dahlin, Pär, Stattin, Göran, Hallmans, Christel, Häggström, Robert, Johansson, Elin, Thysell, Ann Charlotte, Rönn, Weiqiang, Li, Nigel, Brown, Goce, Dimeski, Benjamin, Shepherd, Tokhir, Dadaev, Mark N., Brook, Amanda B., Spurdle, Ulf Håkan, Stenman, Hannu, Koistinen, Zsofia, Kote-Jarai, Robert J., Klein, Hans, Lilja, Rupert C., Ecker, Rosalind, Eeles, Markus, Aly, Maria Elena, Martinez, Steven, Joniau, Tomislav, Kulis, Thomas, Schnoeller, Josef, Hoegel, Ben, Schöttker, Bernd, Holleczek, Xin, Gao, Andreas, Røder, Hein V., Stroomberg, Stig E., Bojesen, Meir, Stampfer, Sara, Lindström, Antonio, Alcaraz, Gemma, Castaño-Vinyals, Trinidad, Dierssen-Sotos, Martin, Eklund, Laura, Fachal, Antonio, Gómez-Caamaño, Roger L., Milne, Melissa C., Southey, Xin, Sheng, Loic, Le Marchand, Tim J., Key, Michael, Borre, Laura E.Beane, Freeman, Edward, Giovannucci, Mitchell J., Machiela, Robert N., Hoover, Gerald L., Andriole, Niclas, Håkansson, Anssi, Auvinen, Teuvo L.J., Tammela, Alison M., Dunning, Tobias, Nordström, Ian M., Thompson, Phyllis J., Goodman, Artitaya, Lophatananon, William J., Blot, Peter, Kraft, Stephen N., Thibodeau, Hardev, Pandha, Lisa, Cannon-Albright, Kay Tee, Khaw, Florence, Menegaux, Ron H.N., van Shaik, Jose Esteban, Castelao, Paul A., Townsend, Nawaid, Usmani, Radka, Kaneva, Davor, Lessel, Lisa F., Newcomb, Azad, Razack, Kim, De Ruyck, Susan L., Neuhausen, Manuel R., Teixeira, Jeri, Kim, Sune F., Nielsen, Cezary, Cybulski, Jong Y., Park, Adam S., Kibel, Graham G., Giles, Yong Jie, Lu, Barry S., Rosenstein, Sue Ann, Ingles, Robert J., Hamilton, Jenny L., Donovan, Géraldine, Cancel-Tassin, Catharine M.L., West, Stephanie J., Weinstein, Ying, Wang, Stephen, Chanock, Ali Amin Al, Olama, Sara, Benlloch, Fredrick R., Schumacher, Melissa, Papargiris, Anne Maree, Haynes, Lisa, Butler, Renea, Taylor, Lisa, Horvath, Gail P., Risbridger, Wayne, Tilley, Judith, Clements, Jyotsna, Batra	No
Choroid plexus extracellular vesicle transport of blood-borne insulin-like growth factor 1 to the hippocampus of the immature brain	PNAS Nexus		2024	Niklas, Ortenlöf, Suvi, Vallius, Helena, Karlsson, Claes, Ekström, Amanda, Kristiansson, Bo, Holmqvist, Stanislava, Pankratova, Norman, Barton, David, Ley, Magnus, Gram	No
Identification of Contactin-1 as a Potential Biomarker and Therapeutic Target in Neuroblastoma	Biomedicines		2024	Christa N., Grant, Carson A., Wills, Xiaoming, Liu, Longgui, Chen, Zhenqiu, Liu, Hong Gang, Wang	No
Ultrasound irradiation in the presence of microbubbles may enhance the antitumor effect of chemotherapeutic agents against bladder cancer	Journal of Cancer		2025	Takehiro, Suzuki, Takuma, Sato, Ariunbuyan, Sukhbaatar, Maya, Sakamoto, Shiro, Mori, Tetsuya, Kodama, Akihiro, Ito	No
Protocol for generating brain metastatic tumor cells through repeated intracardiac injections in mice	STAR Protocols		2025	Li, Wang, Xiaoxia, Chen, Chengtao, Dong, Shengqi, Yin, Li, Liang, Aidong, Zhou	No
Ultrasound-guided interstitial photothermal therapy generates improved treatment responses in a 9464D model of neuroblastoma	Bioengineering and Translational Medicine		2025	Grace E., Olsson, Rohan V., Patil, Samantha J., Chin, Katharine N., Rus, Elizabeth E., Sweeney, Karun V., Sharma, Rohan, Fernandes	No
IL-1β stimulates ADAMTS9 expression and contributes to preterm prelabor rupture of membranes	Cell Communication and Signaling		2025	Jiasong, Cao, Yixin, Wang, Qimei, Lin, Shuqi, Wang, Yongmei, Shen, Lei, Zhang, Wen, Li, Ling, Chen, Chunliu, Liu, Shihan, Yao, Ling, Shuai, Xu, Chen, Zongjin, Li, Ying, Chang	No
Cytomegalovirus Worsens Necrotizing Enterocolitis Severity in Mice via Increased Toll-Like Receptor 4 Signaling	CMGH		2025	Daniel, Scheese, Peng, Lu, Hannah, Moore, Koichi, Tsuboi, Cody, Tragesser, Johannes, Duess, Zachariah, Raouf, Maame F., Sampah, Daphne, Klerk, Mahmoud, El Baassiri, Hee seong, Jang, Sierra, Williams-McLeod, Asuka, Ishiyama, Steve N., Steinway, Sanxia, Wang, Menghan, Wang, Thomas, Prindle, William B., Fulton, Chhinder P., Sodhi, David J., Hackam	No
Multimodal Imaging of Brain Metastasis-Derived Extracellular Vesicles Using Superparamagnetic Iron Oxide Nanoparticle Labeling	International Journal of Nanomedicine		2025	Birgitte, Feginn Berle, Sunniva, Juliussen, Áurea, Castilho, Ege, Solel, Halala, Sdik Saed, Oliver, Vanderpoorten, Taral R., Lunavat, Frits, Thorsen, Emma, Rigg	No
GPA33-pretargeted radioimmunotherapy with mono- and bivalent DOTA-based Lu-177-labeled radiohaptens in a mouse orthotopic liver xenograft model of metastatic human colorectal cancer	Theranostics		2025	Alexandre B., Le Roux, Edward K., Fung, Sang Gyu, Lee, Sebastien, Monette, Hong, Xu, Hong Fen, Guo, Guangbin, Yang, Ouathek, Ouerfelli, Achim, Jungbluth, Heiko, Schöder, Steven M., Larson, Nai Kong V., Cheung, Sarah M., Cheal, Darren R., Veach	No
An injectable magnesium-loaded hydrogel releases hydrogen to promote osteoporotic bone repair via ROS scavenging and immunomodulation	Theranostics		2024	Hang, Zhou, Zhongyuan, He, Youde, Cao, Lei, Chu, Bing, Liang, Kexiao, Yu, Zhongliang, Deng	No
Protocol for establishing liver tumors via ultrasound-guided intrahepatic injection prior partial hepatic resection in a mouse model	STAR Protocols		2024	Shadin, Ghabra, Rajiv, Trehan, Francisco, Rodriguez-Matos, Chi, Ma, Tim F., Greten	No
Evaluation of luciferase and prefusion-stabilized F protein from respiratory syncytial virus mRNA/LNPs in pre-clinical models using jet delivery compared to needle and syringe	Vaccine: X		2024	Brian K., Meyer, Debbie, Nahas, Myunggi, An, Andrew, Danziger, Jeffrey, Smith, Manish, Patel, Shu An, Lin, Alexa, Gleason, Kara, Cox, Robert, Capen, John, Howe, Andrew, Bett	No
Exosome-Related FTCD Facilitates M1 Macrophage Polarization and Impacts the Prognosis of Hepatocellular Carcinoma	Biomolecules		2024	Youyi, Liu, Yifei, Tang, Hongliang, Jiang, Xiading, Zhang, Xingyi, Chen, Jingrou, Guo, Cheng, Jin, Minchen, Wu	No

Title	Journal	Link	Publication date	References	Top Paper
Corticospinal-specific Shh overexpression in combination with rehabilitation promotes CST axonal sprouting and skilled motor functional recovery after ischemic stroke	Molecular Neurobiology		2024	Biwu, Wu, Lei, Yang, Caihua, Xi, Haijun, Yao, Long, Chen, Fengqi, Fan, Gang, Wu, Zhouying, Du, Jin, Hu, Shukun, Hu	No
Ultrasound-guided periadventitial administration of rapamycin-fibrin glue attenuates neointimal hyperplasia in the rat carotid artery injury model	European Journal of Pharmaceutical Sciences		2024	Zhentao, Qiao, Fuhang, Wang, Dongjian, Han, Yuansong, Zhuang, Qingjiao, Jiang, Yi, Zhang, Miaomiao, Liu, Quanxu, An, Zhiwei, Wang, Deliang, Shen	No
Blockade of IL-6R prevents preterm birth and adverse neonatal outcomes		www.thelancet.com	2023	Marcelo, Farias-Jofre, Roberto, Romero, Jose, Galaz, Yi, Xu, Derek, Miller, Valeria, Garcia-Flores, Marcia, Arenas-Hernandez, Andrew D, Winters, Bruce A, Berkowitz, Robert H, Podolsky, Yimin, Shen, Tomi, Kanninen, Bogdan, Panaitescu, Catherine R, Glazier, Roger, Pique-Regi, Kevin R, Theis, Nardhy, Gomez-Lopez	No
Targeting the TCA cycle can ameliorate widespread axonal energy deficiency in neuroinflammatory lesions	Nature Metabolism		2023	Yi Heng, Tai, Daniel, Engels, Giuseppe, Locatelli, Ioanna, Emmanouilidis, Caroline, Fecher, Delphine, Theodorou, Stephan A., Müller, Simon, Licht-Mayer, Mario, Kreutzfeldt, Ingrid, Wagner, Natalia Prudente, de Mello, Sofia Natsouko, Gkotzamani, Laura, Trovò, Arek, Kendirli, Almir, Aljović, Michael O., Breckwoldt, Ronald, Naumann, Florence M., Bareyre, Fabiana, Perocchi, Don, Mahad, Doron, Merkler, Stefan F., Lichtenthaler, Martin, Kerschensteiner, Thomas, Misgeld	No
Establishing a mouse model of lung metastases using ultrasound-guided right heart ventricle injection	STAR Protocols		2023	Amanda, Labora, Amanda, Creech, Hailey, Lee, Erin, Tabornal, Caius, Radu, Timothy, Donahue	No
Stimulating Antitumoral Immunity by Percutaneous Cryoablation and Combination Immunoadjuvant Therapy in a Murine Model of Hepatocellular Carcinoma.	Journal of vascular and interventional radiology : JVIR	http://www.ncbi.nlm.nih.gov/pubmed/37178816	2023	Tyler, Mandt, Amandip, Bangar, Consuelo, Sauceda, Manasi, Das, Carolyn, Moderbacher, Mansur, Ghani, Nicholas, Webster, Isabel, Newton	No
Metformin preconditioning protects against myocardial stunning and preserves protein translation in a mouse model of cardiac arrest	Journal of Molecular and Cellular Cardiology Plus	https://linkinghub.elsevier.com/retrieve/pii/S2772976123000041	2023	Cody A., Rutledge, Claudia, Lagranha, Takuto, Chiba, Kevin, Redding, Donna B., Stolz, Eric, Goetzman, Sunder, Sims-Lucas, Brett A., Kaufman	No
Role of Bacterial Surface Components in the Pathogenicity of Proteus mirabilis in a Murine Model of Catheter-Associated Urinary Tract Infection	Pathogens	https://doi.org/10.3390/pathogens	2023	Roman, Herout, Sara, Khoddami, Igor, Moskalev, Alina, Reicherz, Ben H, Chew, Chelsie E, Armbruster, Dirk, Lange	No
Generation of liver metastases in a mouse model using ultrasound-guided intravenous injection	STAR Protocols		2023	Amanda, Labora, Hailey, Lee, Charlotte, Chan, Erin, Tabornal, Thuc, Le, Khalid, Rashid, Evan, Abt, Takanobu, Yamao, Hanna, Mandl, Amanda, Creech, Alykhan, Premji, Luyi, Li, Jason, Link, Nanping, Wu, Caius, Radu, Timothy, Donahue	No
In vivo microCT-based time-lapse morphometry reveals anatomical site-specific differences in bone (re)modeling serving as baseline parameters to detect early pathological events	Bone	https://doi.org/10.1016/j.bone.2022.116432	2022	Sarah A.E., Young, Maximilian, Rummler, Hubert M., Taïeb, Daniela S., Garske, Agnes, Ellinghaus, Georg N., Duda, Bettina M., Willie, Amaia, Cipitria	No
Heterogeneous fates of simultaneously-born neurons in the cortical ventricular zone	Scientific Reports	https://doi.org/10.1038/s41598-022-09740-6	2022	Elia, Magrinelli, Natalia, Baumann, Robin Jan, Wagener, Christelle, Glangetas, Camilla, Bellone, Denis, Jabaudon, Esther, Klingler	No
Unchecked oxidative stress in skeletal muscle prevents outgrowth of disseminated tumour cells	Nature Cell Biology		2022	Sarah B., Crist, Travis, Nemkov, Ruth F., Dumpit, Jinxiang, Dai, Stephen J., Tapscott, Lawrence D., True, Alexander, Swarbrick, Lucas B., Sullivan, Peter S., Nelson, Kirk C., Hansen, Cyrus M., Ghajar	No
The Therapeutic Effect of iMSC-Derived Small Extracellular Vesicles on Tendinopathy Related Pain Through Alleviating Inflammation: An in vivo and in vitro Study	Journal of Inflammation Research		2022	Zhaochen, Zhu, Renzhi, Gao, Teng, Ye, Kai, Feng, Juntao, Zhang, Yu, Chen, Zongping, Xie, Yang, Wang	No
Inhibition of myeloid PD-L1 suppresses osteoclastogenesis and cancer bone metastasis	Cancer Gene Therapy		2022	Hao, Zuo, Yihong, Wan	No
Neural labeling and manipulation by neonatal intraventricular viral injection in mice	STAR Protocols	https://doi.org/10.1016/j.xpro.2021.101081	2022	Mengzhe, Wang, Thomas, Misgeld, Monika S., Brill	No
High-frequency ultrasound-guided intrathecal injections in a young mouse model: Targeting the central nervous system in drug delivery	Journal of Neuroscience Methods	https://doi.org/10.1016/j.jneumeth.2022.109778	2023	Sun Eui, Choi, Anum, Rahman, Tiffany, Ayoub, Owen, Botelho, Gail, Lee, Lisa M., Gazdzinski, Anne L., Wheeler, Rosanna, Weksberg, Sharon L., Guger, Russell J., Schachar, Shinya, Ito, Johann, Hitzler, Brian J., Nieman	No
Intra-tumoral nerve-tracing in a novel syngeneic model of high-grade serous ovarian carcinoma	Cells		2021	Jeffrey L., Barr, Allison, Kruse, Anthony C., Restaino, Natalia, Tulina, Sarah, Stuckelberger, Samuel J., Vermeer, Caitlin S., Williamson, Daniel W., Vermeer, Marianna, Madeo, Jillian, Stamp, Maria, Bell, Mark, Morgan, Ju Yoon, Yoon, Marilyn A., Mitchell, Anna, Budina, Dalia K., Omran, Lauren E., Schwartz, Ronny, Drapkin, Paola D., Vermeer	No
In vivo multimodal imaging of hyaluronan-mediated in fl ammatory response in articular cartilage	Osteorthritis and Cartilage		2022	C, Zhang, M K, Cowman, A, Ruiz, A, Duarte, D, Bravo, E Ramos, Gavil, T, Kirsch, M, Milne, L G, Luyt, J G, Raya	No
A mechanistic basis for the malignant progression of salivary gland tumors	iScience	https://doi.org/10.1016/j.isci.2021.103508	2021	Sachiko, Taniguchi, Yuya, Tanaka, Ajit, Elhance, Naoki, Oshimori	No
Crim1 and Kelch-like 14 exert complementary dual-directional developmental control over segmentally specific corticospinal axon projection targeting	Cell Reports	https://doi.org/10.1016/j.celrep.2021.109842	2021	Vibhu, Sahni, Yasuhiro, Itoh, Sara J., Shnider, Jeffrey D., Macklis	No
High-frequency ultrasound-guided intrathecal injections in a young mouse model: Targeting the central nervous system in drug delivery	Journal of Neuroscience Methods		2023	Sun Eui, Choi, Anum, Rahman, Tiffany, Ayoub, Owen, Botelho, Gail, Lee, Lisa M., Gazdzinski, Anne L, Wheeler, Rosanna, Weksberg, Sharon L, Guger, Russel J, Schachar, Shinya, Ito, Johann, Hitzler, Brian J, Nieman	No
A mouse model of hypoplastic left heart syndrome demonstrating left heart hypoplasia and retrograde aortic arch flow	DMM Disease Models and Mechanisms		2021	Anum, Rahman, Taylor, DeYoung, Lindsay S., Cahill, Yohan, Yee, Sarah K., Debebe, Owen, Botelho, Mike, Seed, Rajiv R., Chaturvedi, John G., Sled	No
Magnetic microspheres can be used for magnetic particle imaging of cancer cells arrested in the mouse brain	Magnetic Resonance in Medicine		2022	Kierstin P., Melo, Ashley V., Makela, Natasha N., Knier, Amanda M., Hamilton, Paula J., Foster	No
The therapeutic effect of second near-infrared absorbing gold nanorods on metastatic lymph nodes via lymphatic delivery system	Pharmaceutics		2021	Adewale O., Oladipo, Thabang C., Lebepe, Vuyelwa, Ncapayi, Ncediwe, Tsolekile, Sundararajan, Parani, Sandile P., Songca, Shiro, Mori, Tetsuya, Kodama, Oluwatobi S., Oluwafemi	No
Dual Ultrasound and Photoacoustic Tracking of Magnetically Driven Micromotors: From In Vitro to In Vivo	Advanced Healthcare Materials		2021	Azaam, Aziz, Joost, Holthof, Sandra, Meyer, Oliver G., Schmidt, Mariana, Medina-Sánchez	No
Photoacoustic image-guided corpus cavernosum intratunical injection of adipose stem cell-derived exosomes loaded polydopamine thermosensitive hydrogel for erectile dysfunction treatment	Bioactive Materials	https://doi.org/10.1016/j.bioactmat.2021.07.024	2021	Li, Liang, Yi, Shen, Zhifeng, Dong, Xin, Gu	No
Selective blood-brain barrier permeabilization of brain metastases by a type 1 receptor-selective tumor necrosis factor mutein	Neuro-Oncology		2021	Mario F, Munoz Pinto, Sandra J, Campbell, Christina, Simoglou Karali, Vanessa A, Johanssen, Claire, Bristow, Vinton W T, Cheng, Niloufar, Zarghami, James R, Larkin, Maria, Pannell, Arron, Hearn, Cherry, Chui, Barbara, Brinquis Nunez, Evert, Bokma, Robert, Holgate, Daniel C, Anthony, Nicola R, Sibson	No
Highly efficient manipulation of nervous system gene expression with NEPTUNE	Cell Reports Methods		2021	Katrin, Mangold, Jan, Mašek, Jingyan, He, Urban, Lendahl, Elaine, Fuchs, Emma R., Andersson	No
Ultrasound enhances the therapeutic potential of mesenchymal stem cells wrapped in greater omentum for aristolochic acid nephropathy	Stem Cell Research and Therapy		2021	Yuanjun, Yang, Xiaodong, Geng, Kun, Chi, Chao, Liu, Ran, Liu, Xiangmei, Chen, Quan, Hong, Guangyan, Cai	No

Title	Journal	Link	Publication date	References	Top Paper
Repeated mutation of a developmental enhancer contributed to human thermoregulatory evolution	Proceedings of the National Academy of Sciences of the United States of America		2021	Daniel, Aldea, Yuji, Atsuta, Blerina, Kokalari, Stephen F., Schaffner, Rexxi D., Prasasya, Adam, Aharoni, Heather L., Dingwall, Bailey, Warder, Yana G., Kamberov	No
Optogenetic stimulation of cholinergic fibers for the modulation of insulin and glycemia	Scientific Reports	https://doi.org/10.1038/s41598-021-83361-3	2021	Arjun K., Fontaine, David G., Ramirez, Samuel F., Littich, Robert A., Piscopio, Vira, Kravets, Wolfgang E., Schleicher, Naoko, Mizoguchi, John H., Caldwell, Richard F. ff., Weir, Richard K. P., Benninger	No
Subcutaneous Injection Performance in Yucatan Miniature Pigs with and without Human Hyaluronidase and Auto-injector Tolerability in Humans	AAPS PharmSciTech		2021	Galen H., Shi, Robert J., Connor, David S., Collins, David W., Kang	No
Metabolomic differences in blastocoel and uterine fluids collected in vivo by ultrasound biomicroscopy on rabbit embryos†	Biology of Reproduction		2021	Sophie, Calderari, Nathalie, Daniel, Eve, Mourier, Christophe, Richard, Michele, Dahirel, Franck, Lager, Carmen, Marchiol, Gilles, Renault, Julie, Gatien, Lydie, Nadal-Desbarats, Pascale, Chavatte-Palmer, Véronique, Duranthon	No
Generation of neighbor-labeling cells to study intercellular interactions in vivo	Nature Protocols		2020	Luigi, Ombrato, Emma, Nolan, Diana, Passaro, Ivana, Kurelac, Victoria L., Bridgeman, Alexander, Waclawiczek, Delfim, Duarte, Cristina, Lo Celso, Dominique, Bonnet, Ilaria, Malanchi	No
In vivo selection of the MDA-MB-231br/eGFP cancer cell line to obtain a clinically relevant rat model for triple negative breast cancer brain metastasis	PLoS ONE	http://dx.doi.org/10.1371/journal.pone.0243156	2020	Valerie, de Meulenaere, Benedicte, Descamps, Olivier, de Wever, Christian, Vanhove, Karel, Deblaere	No
Klk4 induces anti-tumor effects in human xenograft mouse models of orthotopic and metastatic prostate cancer	Cancers		2020	Brian W.C., Tse, Thomas, Kryza, Mei Chun, Yeh, Ying, Dong, Kamil A., Sokolowski, Carina, Walpole, Tobias, Dreyer, Johanna, Felber, Jonathan, Harris, Viktor, Magdolen, Pamela J., Russell, Judith A., Clements	No
Maternal regulation of inflammatory cues is required for induction of preterm birth	JCI insight		2020	Monica, Cappelletti, Jessica R., Doll, Traci E., Stankiewicz, Matthew J., Lawson, Vivien, Sauer, Bingqiang, Wen, Vladimir V., Kalinichenko, Xiaofei, Sun, Tamara, Tilburgs, Senad, Divanovic	No
Bruceantin targets HSP90 to overcome resistance to hormone therapy in castration-resistant prostate cancer	Theranostics		2020	Sue Jin, Moon, Byong Chang, Jeong, Hwa Jin, Kim, Joung Eun, Lim, Hye Jeong, Kim, Ghee Young, Kwon, Joshua A., Jackman, Jeong Hoon, Kim	No
Modulation of SERCA2a expression and function by ultrasound-guided myocardial gene transfection	Experimental and Therapeutic Medicine	http://www.spandidos-publications.com/10.3892/etm.2020.9261	2020	Zhongshan, Gou, Xinxin, Yan, Hongjing, Jia, Kangyun , Sun, Ping, Li, Qian, Zhang, Xuedong, Deng	No
In vivo photoacoustic guidance of stem cell injection and delivery for regenerative spinal cord therapies	Neurophotonics		2020	Kelsey P., Kubelick, Stanislav Y., Emelianov	No
Therapy with Cardiomyocytes Derived from Pluripotent Cells in Chronic Chagasic Cardiomyopathy	Cells		2020	Guilherme Visconde, Brasil, Danúbia, Silva Dos Santos, Elias Ataide, Mendonça, Fernanda Cristina Paccola, Mesquita, Tais Hanae, Kasai-Brunswick, Sandro Torrentes da, Cunha, Cibele Ferreira, Pimentel, Andréia de, Vasconcelos-Dos-Santos, Rosália, Mendez-Otero, Clério Francisco de, Azevedo Filho, Regina Coeli Dos Santos, Goldenberg, Antonio Carlos, Campos de Carvalho	No
The alarmin interleukin-1α causes preterm birth through the NLRP3 inflammasome	Molecular Human Reproduction		2020	K, Motomura, R, Romero, V, Garcia-Flores, Y, Leng, Y, Xu, J, Galaz, R, Slutsky, D, Levenson, N, Gomez-Lopez	No
Cell Fate Potential of NG2 Progenitors	Scientific Reports		2020	Rebeca, Sánchez-González, Ana, Bribián, Laura, López-Mascaraque	No
Selective Translation of Cell Fate Regulators Mediates Tolerance to Broad Oncogenic Stress	Cell Stem Cell	https://doi.org/10.1016/j.stem.2020.05.007	2020	Elise Y, Cai, Megan N, Kufeld, Samantha, Schuster, Sonali, Arora, Madeline, Larkin, Alexandre A, Germanos, Andrew C, Hsieh, Slobodan, Beronja	No
Fluorescent Silica Nanoparticles to Label Metastatic Tumor Cells in Mineralized Bone Microenvironments	Small	https://onlinelibrary.wiley.com/doi/abs/10.1002/smll.202001432	2020	Aaron E., Chiou, Joshua A., Hinckley, Rupal, Khaitan, Neta, Varsano, Jonathan, Wang, Henry F., Malarkey, Christopher J., Hernandez, Rebecca M., Williams, Lara A., Estroff, Steve, Weiner, Lia, Addadi, Ulrich B., Wiesner, Claudia, Fischbach	No
Heterogeneity and chimerism of endothelial cells revealed by single-cell transcriptome in orthotopic liver tumors	Angiogenesis	https://doi.org/10.1007/s10456-020-09727-9	2020	Qi, Zhao, Maria del Pilar, Molina-Portela, Asma, Parveen, Alexander, Adler, Christina, Adler, Hock, E, Wei, Wang, Min, Ni, Yi, Wei, Gurinder, Atwal, Markus, Mohrs, Gavin, Thurston, Alexandra, Eichten	No
Opposing Functions of BRD4 Isoforms in Breast Cancer	Molecular Cell	https://doi.org/10.1016/j.molcel.2020.04.034	2020	Shwu-Yuan, Wu, Chien-Fei, Lee, Hsien-Tsung, Lai, Cheng-Tai, Yu, Ji-Eun, Lee, Hao, Zuo, Sophia Y., Tsai, Ming-Jer, Tsai, Kai, Ge, Yihong, Wan, Cheng-Ming, Chiang	No
The role of a lncRNA (TCONS_00044595) in regulating pineal CLOCK expression after neonatal hypoxia–ischemia brain injury	Biochemical and Biophysical Research Communications	https://doi.org/10.1016/j.bbrc.2020.05.047	2020	Hong, Li, Li-Xiao, Xu, Jian, Yu, Lanlan, Tan, Po, Miao, Xiaofeng, Yang, Qiuyan, Tian, Mei, Li, Chen-Xi, Feng, Yuanyuan, Yang, Ning, Sha, Xing, Feng, Bin, Sun, Min, Gong, Xin, Ding	No
Humanized bone facilitates prostate cancer metastasis and recapitulates therapeutic effects of zoledronic acid in vivo	Bone Research	http://www.nature.com/articles/s41413-019-0072-9	2019	Marietta, Landgraf, Christoph A., Lahr, Alvaro, Sanchez-Herrero, Christoph, Meinert, Ali, Shokoohmand, Pamela M., Pollock, Dietmar W., Hutmacher, Abbas, Shafiee, Jacqui A., McGovern	No
Transient callosal projections of L4 neurons are eliminated for the acquisition of local connectivity	Nature Communications	http://dx.doi.org/10.1038/s41467-019-12495-w	2019	N. S., De León Reyes, S., Mederos, I., Varela, L. A., Weiss, G., Perea, M. J., Galazo, M., Nieto	No
Interaction of tumor cells and astrocytes promotes breast cancer brain metastases through TGF-β2/ANGPTL4 axes	npj Precision Oncology	http://dx.doi.org/10.1038/s41698-019-0094-1	2019	Xianghui, Gong, Zhimin, Hou, Michael P, Endsley, Emily I, Gronseth, Kevin R, Rarick, Julie M, Jorns, Qiuhui, Yang, Zhenggui, Du, Ke, Yan, Michelle L, Bordas, Jill, Gershan, Parashar, Deepak, Anjali, Geethadevi, Pradeep, Chaluvally-Raghavan, Yubo, Fan, David R, Harder, Ramani, Ramchandran, Ling, Wang	No
Identification of novel cerebellar developmental transcriptional regulators with motif activity analysis	BMC Genomics	https://bmcgenomics.biomedcentral.com/articles/10.1186/s12864-019-6063-9	2019	Thomas J., Ha, Peter G. Y., Zhang, Remi, Robert, Joanna, Yeung, Douglas J., Swanson, Anthony, Mathelier, Wyeth W., Wasserman, Sujin, Im, Masayoshi, Itoh, Hideya, Kawaji, Timo, Lassmann, Carsten O., Daub, Erik, Arner, Piero, Carninci, Yoshihide, Hayashizaki, Alistair R. R., Forrest, Daniel, Goldowitz	No
Fetal T Cell Activation in the Amniotic Cavity during Preterm Labor: A Potential Mechanism for a Subset of Idiopathic Preterm Birth	The Journal of Immunology	http://www.jimmunol.org/lookup/doi/10.4049/jimmunol.1900621	2019	Nardhy, Gomez-Lopez, Roberto, Romero, Yi, Xu, Derek, Miller, Marcia, Arenas-Hernandez, Valeria, Garcia-Flores, Bogdan, Panaitescu, Jose, Galaz, Chaur-Dong, Hsu, Robert, Para, Stanley M., Berry	No
Small-Molecule and CRISPR Screening Converge to Reveal Receptor Tyrosine Kinase Dependencies in Pediatric Rhabdoid Tumors	Cell Reports	https://doi.org/10.1016/j.celrep.2019.07.021	2019	Elaine M., Oberlick, Matthew G., Rees, Brinton, Seashore-Ludlow, Francisca, Vazquez, Geoffrey M., Nelson, Neekesh V., Dharia, Barbara A., Weir, Aviad, Tsherniak, Mahmoud, Ghandi, John M., Krill-Burger, Robin M., Meyers, Xiaofeng, Wang, Phil, Montgomery, David E., Root, Jake M., Bieber, Sandi, Radko, Jaime H., Cheah, C. Suk-Yee, Hon, Alykhan F., Shamji, Paul A., Clemons, Peter J., Park, Michael A., Dyer, Todd R., Golub, Kimberly, Stegmaier, William C., Hahn, Elizabeth A., Stewart, Stuart L., Schreiber, Charles W.M., Roberts	No
Inflammatory Activation of Astrocytes Facilitates Melanoma Brain Tropism via the CXCL10-CXCR3 Signaling Axis	Cell Reports	https://doi.org/10.1016/j.celrep.2019.07.033	2019	Hila, Doron, Malak, Amer, Nour, Ershaid, Raquel, Blazquez, Ophir, Shani, Tzlil Gener, Lahav, Noam, Cohen, Omer, Adler, Zahi, Hakim, Sabina, Pozzi, Anna, Scomparin, Jonathan, Cohen, Muhammad, Yassin, Lea, Monteran, Rachel, Grossman, Galia, Tsarfaty, Chen, Luxenburg, Ronit, Satchi-Fainaro, Tobias, Pukrop, Neta, Erez	No
Development of orthotopic tumour models using ultrasound-guided intrahepatic injection	Scientific Reports	http://www.nature.com/articles/s41598-019-46410-6	2019	L. E., McVeigh, I., Wijetunga, N., Ingram, G., Marston, R., Prasad, A. F., Markham, P. L., Coletta	No

Title	Journal	Link	Publication date	References	Top Paper
Assessing therapeutic response non-invasively in a neonatal rat model of acute inflammatory white matter injury using high-field MRI	Brain, Behavior, and Immunity	https://doi.org/10.1016/j.bbi.2019.06.032	2019	Wyston C., Pierre, Luis, Akakpo, Irène, Londono, Philippe, Pouliot, Sylvain, Chemtob, Frédéric, Lesage, Gregory A., Lodygensky	No
Imaging of X-Ray-Excited Emissions from Quantum Dots and Biological Tissue in Whole Mouse	Scientific Reports	http://www.nature.com/articles/s41598-019-55769-5	2019	Sean G., Ryan, Matthew N., Butler, Segun S., Adeyemi, Tammy, Kalber, P. Stephen, Patrick, May, Zaw Thin, Ian F., Harrison, Daniel J., Stuckey, Martin, Pule, Mark F., Lythgoe	No
MR imaging as a precise technique to evaluate skull-base tumor volume: Comparison of CT, MR imaging and FDG PET from murine and clinical data	Journal of Cranio-Maxillofacial Surgery	https://doi.org/10.1016/j.jcms.2019.12.007	2020	Qing-Xiang, Li, Rong, Yang, Yi-Fei, Wang, Hong-Fang, Sun, Hai-Bo, Wang, Hao, Liu, Yu-Xing, Guo, Chuan-Bin, Guo	No
A polymeric paste-drug formulation for intratumoral treatment of prostate cancer	Prostate Cancer and Prostatic Diseases	http://dx.doi.org/10.1038/s41391-019-0190-x	2019	Claudia, Kesch, Veronika, Schmitt, Samir, Bidnur, Marisa, Thi, Eliana, Beraldi, Igor, Moskalev, Virginia, Yago, Mary, Bowden, Hans, Adomat, Ladan, Fazil, John K., Jackson, Martin E., Gleave	No
Alteration of the brain methylation landscape following postnatal inflammatory injury in rat pups	The FASEB Journal	https://onlinelibrary.wiley.com/doi/abs/10.1096/fj.201901461R	2020	Wyston C., Pierre, Lisa-Marie, Legault, Irene, Londono, Serge, McGraw, Gregory A., Lodygensky	No
Physiologic expansion of human heart-derived cells enhances therapeutic repair of injured myocardium	Stem Cell Research & Therapy	https://stemcellres.biomedcentral.com/articles/10.1186/s13287-019-1418-3	2019	Seth, Mount, Pushpinder, Kanda, Sandrine, Parent, Saad, Khan, Connor, Michie, Liliana, Davila, Vincent, Chan, Ross A., Davies, Haissam, Haddad, David, Courtman, Duncan J., Stewart, Darryl R., Davis	No
Stem cell delivery to kidney via minimally invasive ultrasound-guided renal artery injection in mice	Scientific Reports	http://www.nature.com/articles/s41598-020-64417-2	2020	May, Zaw Thin, Olumide, Ogunlade, Joan, Comenge, P Stephen, Patrick, Daniel J, Stuckey, Anna L, David, Mark F, Lythgoe, Paul, Beard, Tammy L, Kalber	No
Differential regulation of breast cancer bone metastasis by PARP1 and PARP2	Nature Communications	http://dx.doi.org/10.1038/s41467-020-15429-z	2020	Hao, Zuo, Dengbao, Yang, Qiwen, Yang, Haidong, Tang, Yang-Xin, Fu, Yihong, Wan	No
Deterministic paracrine repair of injured myocardium using microfluidic-based cocooning of heart explant-derived cells	Biomaterials	https://doi.org/10.1016/j.biomaterials.2020.120010	2020	Pushpinder, Kanda, Ainara, Benavente-Babace, Sandrine, Parent, Michie, Connor, Nicholas, Soucy, Alexander, Steeves, Aizhu, Lu, Nicholas David, Cober, David, Courtman, Fabio, Variola, Emilio I, Alarcon, Wenbin, Liang, Duncan J, Stewart, Michel, Godin, Darryl R, Davis	No
Multipotency of mouse trophoblast stem cells	Stem Cell Research & Therapy	https://stemcellres.biomedcentral.com/articles/10.1186/s13287-020-1567-4	2020	Minmin, Hou, Junwen, Han, Gu, Li, Min-Young, Kwon, Jiani, Jiang, Sirisha, Emani, Elizabeth S., Taglauer, Jin-Ah, Park, Eun-Bee, Choi, Munender, Vodnala, Yick W., Fong, Sitaram M., Emani, Ivan O., Rosas, Mark A., Perrella, Xiaoli, Liu	No
Embryonic Barcoding of Equipotent Mammary Progenitors Functionally Identifies Breast Cancer Drivers	Cell Stem Cell	https://doi.org/10.1016/j.stem.2020.01.009	2020	Zhe, Ying, Slobodan, Beronja	No
Radio-metal cross-linking of alginate hydrogels for non-invasive in vivo imaging	Biomaterials	https://doi.org/10.1016/j.biomaterials.2020.119930	2020	P. Stephen, Patrick, Joseph C., Bear, Heather E., Fitzke, May, Zaw-Thin, Ivan P., Parkin, Mark F., Lythgoe, Tammy L., Kalber, Daniel J., Stuckey	No
Proteomic Profiling of the ECM of Xenograft Breast Cancer Metastases in Different Organs Reveals Distinct Metastatic Niches	Cancer Research	http://cancerres.aacrjournals.org/lookup/doi/10.1158/0008-5472.CAN-19-2961	2020	Jess D., Hebert, Samuel A., Myers, Alexandra, Naba, Genevieve, Abbruzzese, John M., Lamar, Steven A., Carr, Richard O., Hynes	No
Radioembolization of Hepatocellular Carcinoma with Built-In Dosimetry: First in vivo Results with Uniformly-Sized, Biodegradable Microspheres Labeled with 188 Re	Theranostics	http://www.thno.org/v09p0868.htm	2019	José Carlos De La, Vega, Pedro Luis, Esquinas, Cristina, Rodríguez-Rodríguez, Mehrdad, Bokharaei, Igor, Moskalev, David, Liu, Katayoun, Saatchi, Urs O., Häfeli	No
A near-infrared turn-on probe for in vivo chemoselective photoacoustic detection of fluoride ion	Dyes and Pigments	https://doi.org/10.1016/j.dyepig.2019.02.049	2019	Leli, Zeng, Yanyan, Yuan, Chao, Jiang, Jing, Mu, Fan, Li, Yilin, Wan, Han, Xu, Junle, Qu, Peng, Huang, Jing, Lin	No
Targeting the perivascular niche sensitizes disseminated tumour cells to chemotherapy	Nature Cell Biology	http://www.nature.com/articles/s41556-018-0267-0	2019	Patrick, Carlson, Arko, Dasgupta, Candice A., Grzelak, Jeanna, Kim, Alexander, Barrett, Ilsa M., Coleman, Ryann E., Shor, Erica T., Goddard, Jinxiang, Dai, Emma M., Schweitzer, Andrea R., Lim, Sarah B., Crist, David A., Cheresh, Peter S., Nelson, Kirk C., Hansen, Cyrus M., Ghajar	No
Imaging of the Mouse Lymphatic Sinus during Early Stage Lymph Node Metastasis Using Intranodal Lymphangiography with X-ray Micro-computed Tomography	Molecular Imaging and Biology	http://link.springer.com/10.1007/s11307-018-01303-4	2019	Ryo, Iwamura, Maya, Sakamoto, Shiro, Mori, Tetsuya, Kodama	No
Species-dependent extracranial manifestations of a brain seeking breast cancer cell line	PLOS ONE	http://dx.plos.org/10.1371/journal.pone.0208340	2018	Valerie, De Meulenaere, Sara, Neyt, Bert, Vandeghinste, Pieter, Mollet, Olivier, De Wever, Elke, Decrock, Luc, Leybaert, Ingeborg, Goethals, Christian, Vanhove, Benedicte, Descamps, Karel, Deblaere	No
Inflammation-Induced Intra-Amniotic inflammation induces preterm birth by Activating the NLRP3 inflammasome†	Biology of Reproduction	https://academic.oup.com/biolreprod/advance-article/doi/10.1093/biolre/ioy261/5...	2018	Jonathan, Faro, Roberto, Romero, George, Schwenkel, Valeria, Garcia-Flores, Marcia, Arenas-Hernandez, Yaozhu, Leng, Yi, Xu, Derek, Miller, Sonia S, Hassan, Nardhy, Gomez-Lopez	No
Caspase Cleavage of Gelsolin Is an Inductive Cue for Pathologic Cardiac Hypertrophy	Journal of the American Heart Association	https://www.ahajournals.org/doi/10.1161/JAHA.118.010404	2018	Charis, Putinski, Mohammad, Abdul-Ghani, Steve, Brunette, Patrick G., Burgon, Lynn A., Megeney	No
Noninvasive quantification of oxygen saturation in the portal and hepatic veins in healthy mice and those with colorectal liver metastases using QSM MRI	Magnetic Resonance in Medicine	http://doi.wiley.com/10.1002/mrm.27571	2018	Eoin, Finnerty, Rajiv, Ramasawmy, James, O'Callaghan, John J., Connell, Mark, Lythgoe, Karin, Shmueli, David L., Thomas, Simon, Walker-Samuel	No
Persistent reduction in sialylation of cerebral glycoproteins following postnatal inflammatory exposure	Journal of Neuroinflammation	https://jneuroinflammation.biomedcentral.com/articles/10.1186/s12974-018-1367-2	2018	Ekaterina P, Demina, Wyston C, Pierre, Annie L A, Nguyen, Irene, Londono, Bela, Reiz, Chunxia, Zou, Radhika, Chakraberty, Christopher W, Cairo, Alexey V, Pshezhetsky, Gregory A, Lodygensky	No
Repurposing simvastatin as a therapy for preterm labor: evidence from preclinical models	The FASEB Journal	https://www.fasebj.org/doi/10.1096/fj.201801104R	2018	Ashley K, Boyle, Sara F, Rinaldi, Adriano G, Rossi, Philippa T K, Saunders, Jane E, Norman	No
Modulation of neuroinflammation and memory dysfunction using percutaneous vagus nerve stimulation in mice	Brain Stimulation		2018	William J., Huffman, Saraswathi, Subramaniyan, Ramona M., Rodriguiz, William C., Wetsel, Warren M., Grill, Niccolò, Terrando	No
Mesopore-Induced Aggregation of Cobalt Protoporphyrin for Photoacoustic Imaging and Antioxidant Protection of Stem Cells	Advanced Functional Materials		2018	Minghua, Yao, Ming, Ma, Hongbo, Zhang, Yuezhou, Zhang, Gang, Wan, Jie, Shen, Hangrong, Chen, Rong, Wu	No
Free-hand ultrasound guidance permits safe and efficient minimally invasive intrathymic injections in both young and aged mice	Ultrasound in Medicine and Biology		2015	Andrea Z., Tuckett, Johannes L., Zakrzewski, Duan, Li, Marcel R.M., van den Brink, Raymond H., Thornton	No
An alternative method for intrathymic injections in mice	Lab Animal	http://dx.doi.org/10.1038/laban0810-248	2010	Robin, Blair-Handon, Kristen, Mueller, Shelley, Hoogstraten-Miller	No
Selective inhibition of the lactate transporter MCT4 reduces growth of invasive bladder cancer	Molecular Cancer Therapeutics	http://mct.aacrjournals.org/lookup/doi/10.1158/1535-7163.MCT-18-0107	2018	Tilman, Todenhöfer, Roland, Seiler, Craig, Stewart, Igor, Moskalev, Jian, Gao, Simroop, Ladhar, Alireza, Kamyabi, Nader, Al Nakouzi, Tetsutaro, Hayashi, Stephen, Choi, Yuzhuo, Wang, Sebastian, Frees, Mads, Daugaard, Htoo Zarni, Oo, Pascale, Fisel, Matthias, Schwab, Elke, Schaeffeler, James, Douglas, Jörg, Hennenlotter, Jens, Bedke, Ewan A, Gibb, Ladan, Fazli, Arnulf, Stenzl, Peter C, Black	No
Touch and tactile neuropathic pain sensitivity are set by corticospinal projections	Nature	http://www.nature.com/articles/s41586-018-0515-2	2018	Yuanyuan, Liu, Alban, Latremoliere, Xinjian, Li, Zicong, Zhang, Mengying, Chen, Xuhua, Wang, Chao, Fang, Junjie, Zhu, Chloe, Alexandre, Zhongyang, Gao, Bo, Chen, Xin, Ding, Jin-Yong, Zhou, Yiming, Zhang, Chinfei, Chen, Kuan Hong, Wang, Clifford J., Woolf, Zhigang, He	No
Local checkpoint inhibition of CTLA-4 as a monotherapy or in combination with anti-PD1 prevents the growth of murine bladder cancer	European Journal of Immunology		2017	Luuk, van Hooren, Linda C., Sandin, Igor, Moskalev, Peter, Ellmark, Anna, Dimberg, Peter, Black, Thomas H., Ti¿½tterman, Sara M., Mangsbo	No

Title	Journal	Link	Publication date	References	Top Paper
Multimodality cellular and molecular imaging of concomitant tumour enhancement in a syngeneic mouse model of breast cancer metastasis	Scientific Reports	http://www.nature.com/articles/s41598-018-27208-4	2018	Katie M, Parkins, Veronica P, Dubois, Amanda M, Hamilton, Ashley V, Makela, John A, Ronald, Paula J, Foster	No
The oncolytic Adenovirus XVir-N-31 as a novel therapy in muscle-invasive bladder cancer	Human Gene Therapy	http://www.liebertpub.com/doi/10.1089/hum.2018.026	2018	Eva, Lichtenegger, Florestan, Koll, Helena, Haas, Klaus, Mantwill, Klaus-Peter, Janssen, Melanie, Laschinger, Jürgen, Gschwend, Katja, Steiger, Peter, Black, Igor, Moskalev, Roman, Nawroth, Per Sonne, Holm	No
Superselective Drug Delivery Using Doxorubicin-Encapsulated Liposomes and Ultrasound in a Mouse Model of Lung Metastasis Activation	Ultrasound in Medicine and Biology	https://doi.org/10.1016/j.ultrasmedbio.2018.04.003	2018	Tomoki, Ouchi, Ariunbuyan, Sukhbaatar, Sachiko, Horie, Maya, Sakamoto, Kiyoto, Shiga, Shiro, Mori, Tetsuya, Kodama	No
Cranial irradiation increases tumor growth in experimental breast cancer brain metastasis	NMR in Biomedicine		2018	A.M., Hamilton, S.M., Wong, E., Wong, P.J., Foster	No
Repeated administrations of cardiac progenitor cells are superior to a single administration of an equivalent cumulative dose	Journal of the American Heart Association		2018	Xian Liang, Tang, Shunichi, Nakamura, Qianhong, Li, Marcin, Wysoczynski, Anna M., Gumpert, Wen Jian, Wu, Greg, Hunt, Heather, Stowers, Qinghui, Ou, Roberto, Bolli	No
Abstract 3109: Ultrasound-mediated delivery and distribution of polymeric nanoparticles in the normal brain parenchyma and melanoma metastases	Cancer Chemistry	http://cancerres.aacrjournals.org/content/77/13_Supplement/3109%0Ahttp://ovidsp...	2017	Habib, Baghirov, Sofie, Snipstad, Einar, Sulheim, Sigrid, Berg, Rune, Hansen, Frits, Thorsen, Yrr, Mørch, Catharina de Lange, Davies, Andreas, Åslund	No
Caveolin1 Identifies a Specific Subpopulation of Cerebral Cortex Callosal Projection Neurons (CPN) Including Dual Projecting Cortical Callosal/Frontal Projection Neurons (CPN/FPN)	Eneuro	http://eneuro.sfn.org/lookup/doi/10.1523/ENEURO.0234-17.2017	2018	Jessica L., MacDonald, Ryann M., Fame, Eva M., Gillis-Buck, Jeffrey D., Macklis	No
Acquisition of Cholangiocarcinoma Traits during Advanced Hepatocellular Carcinoma Development in Mice	The American Journal of Pathology	http://linkinghub.elsevier.com/retrieve/pii/S0002944017308659	2017	Liyuan, Li, Maoxiang, Qian, I-Hsuan, Chen, David, Finkelstein, Arzu, Onar-Thomas, Melissa, Johnson, Christopher, Calabrese, Armita, Bahrami, Dolores H., López-Terrada, Jun J., Yang, W. Andy, Tao, Liqin, Zhu	No
Mechanical behavior and matrisome gene expression in the aneurysm-prone thoracic aorta of newborn lysyl oxidase knockout mice.	American journal of physiology. Heart and circulatory physiology	http://www.ncbi.nlm.nih.gov/pubmed/28550176%0Ahttp://www.pubmedcentral.nih.gov/...	2017	Marius Catalin, Staiculescu, Jungsil, Kim, Robert P, Mecham, Jessica E, Wagenseil	No
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Echocardiography-Guided Intramyocardial Injection Method in a Murine Model		http://link.springer.com/10.1007/978-1-61779-002-7	2011	Kay, Maeda, Rick, Seymour, Marc, Ruel, Erik J, Suuronen	No
Melanopsin-Containing or Non-Melanopsin-Containing Retinal Ganglion Cells Response to Acute Ocular Hypertension With or Without Brain-Derived Neurotrophic Factor Neuroprotection	Investigative Opthalmology & Visual Science	http://iovs.arvojournals.org/article.aspx?doi=10.1167/iovs.16-20146	2016	Giuseppe, Rovere, Francisco M., Nadal-Nicolás, Jiawei, Wang, Jose M., Bernal-Garro, Nuria, García-Carrillo, María Paz, Villegas-Pérez, Marta, Agudo-Barriuso, Manuel, Vidal-Sanz	No

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Local checkpoint inhibition of CTLA-4 as a monotherapy or in combination with anti-PD1 prevents the growth of murine bladder cancer	European Journal of Immunology	http://doi.wiley.com/10.1002/eji.201646583	2016	Luuk, van Hooren, Linda C, Sandin, Igor, Moskalev, Peter, Ellmark, Anna, Dimberg, Peter, Black, Thomas H, Tötterman, Sara M, Mangsbo	No
Long-Distance Descending Spinal Neurons Ensure Quadrupedal Locomotor Stability	Neuron	http://linkinghub.elsevier.com/retrieve/pii/S0896627316307826	2016	Ludwig, Ruder, Aya, Takeoka, Silvia, Arber	No
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In vivo Ultrasound and Photoacoustic Monitoring of Mesenchymal Stem Cells Labeled with Gold Nanotracers	PLoS ONE	http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=3353925&tool=pmcentre...	2012	Seung Yun, Nam, Laura M, Ricles, Laura J, Suggs, Stanislav Y, Emelianov	No
Contrast Imaging in Mouse Embryos Using High-frequency Ultrasound	Journal of Visualized Experiments	http://www.jove.com/video/52520/contrast-imaging-in-mouse-embryos-using-high-fr...	2015	Janet M., Denbeigh, Brian A., Nixon, Mira C., Puri, F. Stuart, Foster	No
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Amniotic fluid inhibits Toll-like receptor 4 signaling in the fetal and neonatal intestinal epithelium	Proceedings of the National Academy of Sciences	http://www.pnas.org/cgi/doi/10.1073/pnas.1200856109	2012	Misty, Good, Richard H, Siggers, Chhinder P, Sodhi, Amin, Afrazi, Feras, Alkhudari, Charlotte E, Egan, M. D., Neal, I., Yazji, H., Jia, J., Lin, M. F., Branca, C., Ma, T., Prindle, Z., Grant, S., Shah, D., Slagle, J., Paredes, J., Ozolek, G. K., Gittes, D. J., Hackam	No
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