Title	Journal	Link	Publication date	References	Top Paper
Ultrasound-Assisted Blood–Brain Barrier Opening Monitoring by Photoacoustic and Fluorescence Imaging Using Indocyanine Green	Ultrasound in Medicine and Biology	https://doi.org/10.1016/j.ultrasmedbio.2025.02.016	2025	Thomas, Ador, Mylène, Fournié, Sébastien, Rigollet, Claire, Counil, Vasile, Stupar, Emmanuel L., Barbier, Chantal, Pichon, Anthony, Delalande	Yes
3D doppler ultrasound imaging of cerebral blood flow for assessment of neonatal hypoxic-ischemic brain injury in mice	PLoS ONE	https://doi.org/10.1371/journal.pone.0285434	2023	Guofang, Shen, Kayla, Sanchez, Shirley, Hu, Zhen, Zhao, Lubo, Zhang, Qingyi, Ma	Yes
In vivo imaging in experimental spinal cord injury – Techniques and trends	Brain and Spine	https://doi.org/10.1016/j.bas.2021.100859	2022	Vanessa, Hubertus, Lea, Meyer, Laurens, Roolfs, Lilly, Waldmann, Melina, Nieminen-Kelhä, Michael G., Fehlings, Peter, Vajkoczy	Yes
Early cerebrovascular and long-term neurological modifications ensue following juvenile mild traumatic brain injury in male mice	Neurobiology of Disease	https://doi.org/10.1016/j.nbd.2020.104952	2020	Aleksandra, Ichkova, Beatriz, Rodriguez-Grande, Emma, Zub, Amel, Saudi, Marie-Line, Fournier, Justine, Aussudre, Pierre, Sicard, André, Obenaus, Nicola, Marchi, Jerome, Badaut	Yes
Transcranial Photoacoustic Detection of Blood-Brain Barrier Disruption Following Focused Ultrasound-Mediated Nanoparticle Delivery	Molecular Imaging and Biology	http://link.springer.com/10.1007/s11307-019-01397-4	2020	Johann, Le Floc'h, Hoang D., Lu, Tristan L., Lim, Christine, Démoré, Robert K., Prud'homme, Kullervo, Hynynen, F. Stuart, Foster	Yes
Multimodal and multiscale optical imaging of nanomedicine delivery across the blood-brain barrier upon sonopermeation	Theranostics	http://www.thno.org/v10p1948.htm	2020	Jan-Niklas, May, Susanne K., Golombek, Maike, Baues, Anshuman, Dasgupta, Natascha, Drude, Anne, Rix, Dirk, Rommel, Saskia, von Stillfried, Lia, Appold, Robert, Pola, Michal, Pechar, Louis, van Bloois, Gert, Storm, Alexander J. C., Kuehne, Felix, Gremse, Benjamin, Theek, Fabian, Kiessling, Twan, Lammers	Yes
Exploration of melanoma metastases in mice brains using endogenous contrast photoacoustic imaging	International Journal of Pharmaceutics	http://dx.doi.org/10.1016/j.ijpharm.2017.08.104	2017	Jonathan, Lavaud, Maxime, Henry, Jean Luc, Coll, Veronique, Josserand	Yes
Very High Resolution Ultrasound Imaging for Real-Time Quantitative Visualization of Vascular Disruption after Spinal Cord Injury	Journal of Neurotrauma	http://online.liebertpub.com/doi/abs/10.1089/neu.2013.3319	2014	Marc, Soubeyrand, Anna, Badner, Reaz, Vawda, Young Sun, Chung, Michael G., Fehlings	Yes
Growth of PIK3CA-driven cerebral cavernous malformations does not require microbiome stimulation	JCI Insight	https://doi.org/10.1172/JCI.INSIGHT.208733	2026	Lun, Li, Rhonda, Lightle, Bader, Ali, Georgeio, Sader, Robert, Shenkar, Sean, Polster, Douglas A., Marchuk, Jan Karl, Burkhardt, Issam A., Awad, Mark L., Kahn	No
Induction of subtle blood-brain barrier dysfunction using preclinical diagnostic ultrasound combined with microbubbles	Fluids and Barriers of the CNS	https://doi.org/10.1186/s12987-026-00820-7	2026	Shakira A., van der Panne, Isabella Z., Koster, Anita E., Grootemaat, Nicole N., van der Wel, Mario G., Ries, Helga E., de Vries, Louise, van der Weerd, Gustav J., Strijkers, Erik N.T.P., Bakker	No
Hyperlipidemia induces hippocampal inflammation and loss of vascularity and can be rescued by silencing RIPK1	Scientific Reports	https://doi.org/10.1038/s41598-026-54533-w	2026	Jonathan, Salazar-Leon, Moises, Freitas-Andrade, Violeta, Guadarrama-Perez, Serena, Solari, Abagael, Hudak, Cameron, Stotts, Nancy, Simon, Michèle, Geoffrion, Sue, Murray, Ruth, Slack, Baptiste, Lacoste, Katey J, Rayner	No
Rejuvenation of corticospinal neurons enhances rehabilitation-associated corticospinal tract axon sprouting and functional recovery post photothrombotic ischemic stroke in mice	Genes & Diseases	https://doi.org/10.1016/j.gendis.2025.102000	2025	Bin, Sun, Li, Sun, Lixiang, Zhang, Xinyu, Xue, Qiuyan, Tian, Lei, Wu, Mei, Li, Jian, Huang, Hong, Ni, Lixiao, Xu, Chenxi, Feng, Jing, Ren, Hongliang, Huo, Xia, Zhang, Xing, Feng, Wenhao, Zhou, Wanliang, Guo, Yaobo, Liu, Rong, Ju, Zhenlang, Lin, Xiaofeng, Yang, Xin, Ding	No

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Intrathecal Delivery of Macromolecules to the Spinal Cord Enabled by Laser-Activated Perfluorocarbon Nanodroplets	ACS Nano Medicine	https://pubs.acs.org/doi/10.1021/acsnanomed.5c00207	2026	Robert J., Nikolai, Anthony, Donsante, Jason J., Lamanna, Melissa, Cadena, Anamik, Jhunjhunwala, David, Qin, Elena V., Vassilieva, Arya T., Oak, Shreya, Vavilala, Matthew, Byrne, Nicholas M., Boulis, Stanislav Y., Emelianov	No
Stent treatment improves cerebral microcirculatory disorder and blood–brain barrier function in internal carotid artery stenosis via intercellular adhesion molecule 1 modulation	Journal of Cell Communication and Signaling	https://doi.org/10.1002/ccs3.70058	2025	Kuo, Li, Chuansuo, Zhang, Li xuan, Wang, Xiaoxuan, Wang, Ruyue, Wang	No
Sono-mechanical nanostructures-enabled sustained precise ultrasound brain stimulation	Nature Communications	https://www.nature.com/articles/s41467-026-69710-8	2026	Xuandi, Hou, Jianing, Jing, Zhuohan, Shi, Yizhou, Jiang, Lei, Sun	No
Running exercise mitigates amyloidosis in 5xFAD mice by improving the structure and function of the meningeal lymphatic system	Acta Neuropathologica Communications	https://doi.org/10.1186/s40478-025-02218-2	2026	Onanong, Mee-inta, Yu-Yi, Chiang, Shen-Feng, Tsai, Tzu-Mo, Yang, Zi-Wei, Zhao, Tzu-Feng, Wang, Hsin-Yi, Wu, Chien-Wei, Hsiung, Pao-Chi, Liao, Hsueh-Te, Lee, Chih-Chung, Huang, Ping-Ching, Wu, Yu-Min, Kuo	No
The “route cause” of methotrexate-induced brain structure changes in a juvenile mouse model: Comparison of systemic and CNS-targeted chemotherapy	NeuroToxicology	https://doi.org/10.1016/j.neuro.2025.103363	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
Neutrophil extracellular traps induce endothelial damage and exacerbate vasospasm in traumatic brain injury	Theranostics	https://www.thno.org/v15p9221.htm	2025	Jinchao, Wang, Lei, Li, Jianye, Xu, Dilmurat, Gheyret, Kaiji, Li, Xu, Zhang, Haoran, Jia, Ye, Tian, Xiao, Liu, Shenghui, Li, Guili, Yang, Yalong, Gao, Ruilong, Peng, Huajie, Liu, Bin, Liu, Jianfeng, Zhuang, Cong, Wang, Xin, Chen, Yafan, Liu, Bo, Chen, Chuan, Huang, Yuhan, Li, Xin, Chen, Jianning, Zhang, Shu, Zhang	No
Cerebral organoids display dynamic clonal growth and tunable tissue replenishment	Nature Cell Biology	https://doi.org/10.1038/s41556-024-01412-z	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
Ex vivo method for rapid quantification of post traumatic brain injury lesion volumes using ultrasound	Journal of Neuroscience Methods	https://doi.org/10.1016/j.jneumeth.2024.110140	2024	Isaac H., Clark, Dilmareth, Natera, Andrew W., Grande, Walter C., Low	No
Reduced fetal cerebral blood flow predicts perinatal mortality in a mouse model of prenatal alcohol and cannabinoid exposure	BMC Pregnancy and Childbirth	https://doi.org/10.1186/s12884-024-06436-9	2024	Siara Kate, Rouzer, Anirudh, Sreeram, Rajesh C., Miranda	No
Ultra-photostable small-molecule dyes facilitate near-infrared biophotonics	Nature Communications	https://doi.org/10.1038/s41467-024-46853-0	2024	Kui, Yan, Zhubin, Hu, Peng, Yu, Zuyang, He, Ying, Chen, Jiajian, Chen, Haitao, Sun, Shangfeng, Wang, Fan, Zhang	No
Targeted opening of the blood-brain barrier using VCAM-1 functionalised microbubbles and “whole brain” ultrasound	Theranostics	https://doi.org/10.7150/thno.93172	2024	Vanessa A., Johanssen, Jia Ling, Ruan, Oliver, Vince, Alec, Thomas, Sarah, Peeters, Manuel Sarmiento, Soto, Jessica, Buck, Michael, Gray, Eleanor, Stride, Nicola R., Sibson	No
Impaired memory in Sprague-Dawley rats exposed to complex groundwater mixtures of contaminants is associated with reduced cranial blood flow and hippocampal neurotoxicity	NeuroToxicology	https://doi.org/10.1016/j.neuro.2024.07.005	2024	B., Boamah, C., Morse, S., Siciliano, N., Hogan, M., Hecker, M., Hanson, P., Campbell, R., Peters, A. N., Al-Dissi, T. D., Olver, L., Weber	No

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Choroid plexus extracellular vesicle transport of blood-borne insulin-like growth factor 1 to the hippocampus of the immature brain	PNAS Nexus	https://doi.org/10.1093/pnasnexus/pgae496	2024	Niklas, Ortenlöf, Suvi, Vallius, Helena, Karlsson, Claes, Ekström, Amanda, Kristiansson, Bo, Holmqvist, Stanislava, Pankratova, Norman, Barton, David, Ley, Magnus, Gram	No
Glioblastoma targeting by water-soluble hypericin derivate HHL-PVP and photodynamic tumour killing	Biomedicine and Pharmacotherapy	https://doi.org/10.1016/j.biopha.2025.118041	2025	Djenana, Vejzovic, Andreas, Kubin, Karoline, Fechter, Christina, Karner, Jaana, Hartmann, Thomas, Ackerbauer, Branislav, Radović, Gerald, Ritter, Muammer, Üçal, Stefan, Ropele, Kariem Mahdy, Ali, Mario, Mischkulnig, Marlene, Leoni, Bernadette, Liegl-Atzwanger, Lionel, Wightman, Beate, Rinner	No
Mitochondria dysfunction, a potential cytoprotection target against ischemia-reperfusion injury in a mouse stroke model	Neurotherapeutics	https://doi.org/10.1016/j.neurot.2025.e00549	2025	Elodie, Ong, Paul, Clottes, Christelle, Leon, Hala, Guedouari, Noelle, Gallo-Bona, Megane, Lo Grasso, Lucas, Motter, Radu, Bolbos, Michel, Ovize, Norbert, Nighogossian, Marlene, Wiart, Melanie, Paillard	No
Sex differences in middle cerebral artery reactivity and hemodynamics independent from changes in systemic arterial stiffness in Sprague–Dawley rats	Physiological Reports	https://doi.org/10.14814/phy2.70250	2025	Jonathan W., Ray, Xuming, Sun, Nildris, Cruz-Diaz, Victor M., Pulgar, Liliya M., Yamaleyeva	No
Laser-activated perfluorocarbon nanodroplets for intracerebral delivery and imaging via blood–brain barrier opening and contrast-enhanced imaging	Journal of Nanobiotechnology	https://doi.org/10.1186/s12951-024-02601-6	2024	Kristina A., Hallam, Robert J., Nikolai, Anamik, Jhunjhunwala, Stanislav Y., Emelianov	No
Computational Super-Resolution for Ultrasound Localization Microscopy through Solving an Inverse Problem	IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control	https://gitlab.irit.fr/minds/these-vassili-	2025	Vassili, Pustovalov, Duong-Hung, Pham, Corentin, Alix, Jean-Pierre, Remeniéras, Denis, Kouamé	No
Micro-ultrasound based characterization of cerebrovasculature following focal ischemic stroke and upon short-term rehabilitation	Journal of Cerebral Blood Flow and Metabolism	https://doi.org/10.1177/0271678X231215004	2024	Johnson, Yu, Illsung L., Joo, Paolo, Bazzigaluppi, Margaret M., Koletar, Emmanuel, Cherin, Andrew G., Stanisz, James W.C., Graham, Christine, Demore, Bojana, Stefanovic	No
Evaluation of recombinant human IGF-1/IGFBP-3 on intraventricular hemorrhage prevention and survival in the preterm rabbit pup model	Scientific Reports	https://doi.org/10.1038/s41598-023-46611-0	2023	Claes, Ekström, Niklas, Ortenlöf, Amanda, Kristiansson, Bo, Holmqvist, Åsa, Jungner, Suvi, Vallius, Xiaoyang, Wang, Ann, Hellström, Norman, Barton, Galen, Carey, David, Ley, Magnus, Gram	No
Corticospinal-specific Shh overexpression in combination with rehabilitation promotes CST axonal sprouting and skilled motor functional recovery after ischemic stroke	Molecular Neurobiology	https://doi.org/10.1007/s12035-023-03642-y	2024	Biwu, Wu, Lei, Yang, Caihua, Xi, Haijun, Yao, Long, Chen, Fengqi, Fan, Gang, Wu, Zhouying, Du, Jin, Hu, Shukun, Hu	No
Transplantation of active nucleus pulposus cells with a keep-charging hydrogel microsphere system to rescue intervertebral disc degeneration	Journal of Nanobiotechnology	https://doi.org/10.1186/s12951-023-02226-1	2023	Yingchuang, Tang, Kai, Zhang, Hongyou, Zhou, Chenchen, Zhang, Zixiang, Liu, Hao, Chen, Hanwen, Li, Kangwu, Chen	No
Human Spinal Oligodendrogenic Neural Progenitor Cells Enhance Pathophysiological Outcomes and Functional Recovery in a Clinically Relevant Cervical Spinal Cord Injury Rat Model	Stem cells translational medicine	https://doi.org/10.1093/stcltm/szad044	2023	Katarzyna, Pieczonka, Hiroaki, Nakashima, Narihito, Nagoshi, Kazuya, Yokota, James, Hong, Anna, Badner, Jonathon C.T., Chio, Shinsuke, Shibata, Mohamad, Khazaei, Michael G., Fehlings	No
Neurovascular hypoxia trajectories assessed by photoacoustic imaging in a murine model of cardiac arrest and resuscitation	IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control	https://doi.org/10.1109/TUFFC.2023.3265800	2023	John P., Salvas, Katherine A., Leyba, Luke E., Schepers, Nitchawat, Paiyabhroma, Craig J., Goergen, Pierre, Sicard	No

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16p11.2 haploinsufficiency reduces mitochondrial biogenesis in brain endothelial cells and alters brain metabolism in adult mice	Cell Reports	https://doi.org/10.1016/j.celrep.2023.112485	2023	Alexandria, Béland-Millar, Alexia, Kirby, Yen, Truong, Julie, Ouellette, Sozerko, Yandiev, Khalil, Bouyakdan, Chantal, Pileggi, Shama, Naz, Melissa, Yin, Micaël, Carrier, Pavel, Kotchetkov, Marie Kim, St-Pierre, Marie Ève, Tremblay, Julien, Courchet, Mary Ellen, Harper, Thierry, Alquier, Claude, Messier, Adam J., Shuhendler, Baptiste, Lacoste	No
Neurovascular hypoxia trajectories assessed by photoacoustic imaging in a murine model of cardiac arrest and resuscitation	IEEE Trans Ultrason Ferroelectr Freq Control	https://doi.org/10.1109/TUFFC.2023.3265800	2023	John P, Salvas, Katherine A, Leyba, Luke E, Schepers, Nitchawat, Paiyabhroma, Craig J, Goergen, Pierre, Sicard	No
Severe intraventricular hemorrhage causes long-lasting structural damage in a preterm rabbit pup model	Pediatric Research	https://doi.org/10.1038/s41390-022-02075-y	2022	Olga, Romantsik, Emily, Ross-Munro, Susanne, Grönlund, Bo, Holmqvist, Anders, Brinte, Erik, Gerdtsson, Suvi, Vallius, Matteo, Bruschettini, Xiaoyang, Wang, Bobbi, Fleiss, David, Ley	No
MnCO3@BSA-ICG nanoparticles as a magnetic resonance/photoacoustic dual-modal contrast agent for functional imaging of acute ischemic stroke	Biochemical and Biophysical Research Communications	https://doi.org/10.1016/j.bbrc.2022.04.143	2022	Guangrong, Song, Baorui, Zhang, Linyan, Song, Wenzhe, Li, Chuxuan, Liu, Leshan, Chen, Aihua, Liu	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
Hyperbaric Oxygen Therapy Associated with Ventricular–Subcutaneous Shunt Promotes Neuroprotection in Young Hydrocephalic Rats	Neuroscience	https://doi.org/10.1016/j.neuroscience.2022.02.006	2022	Stephanya Covas, da Silva, Pâmella, da Silva Beggiora, Carlos Henrique Rocha, Catalão, Maurício, Dutra, Ivair, Matias Júnior, Marcelo Volpon, Santos, Hélio Rubens, Machado, Luiza, da Silva Lopes	No
Ultrasound-triggered microbubble destruction enhances the radiosensitivity of glioblastoma by inhibiting PGRMC1-mediated autophagy in vitro and in vivo	Military Medical Research	https://doi.org/10.1186/s40779-022-00369-0	2022	Ying, He, Xun Hu, Dong, Qiong, Zhu, Ya Li, Xu, Ming Liang, Chen, Zheng, Liu	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
Brain Delivery of Curcumin Through Low-Intensity Ultrasound-Induced Blood – Brain Barrier Opening via Lipid-PLGA Nanobubbles	International journal of nanomedicine		2021	Yiran, Yan, Yan, Chen, Zhongxun, Liu, Feiyan, Cai, Wanting, Niu, Liming, Song	No
fractionated radiotherapy for high-grade gliomas		https://doi.org/10.1002/jnr.24929		Guido, Frosina, Vincenzo, Fontana, Daniela, Verzola, Alessandra, Rosa, Gabriele, Gaggero, Giacomo, Garibotto, Stefano, Vagge, Simona, Pigozzi, Antonio, Daga	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

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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/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, Russel J, Schachar, Shinya, Ito, Johann, Hitzler, Brian J, Nieman	No
Xenon Nanobubbles for the Image-Guided Preemptive Treatment of Acute Ischemic Stroke via Neuroprotection and Microcirculatory Restoration	ACS Applied Materials and Interfaces	https://doi.org/10.1021/acsami.1c06014	2021	Juan, Jin, Mei, Li, Jing, Li, Bin, Li, Lei, Duan, Fang, Yang, Ning, Gu	No
A novel neuroinflammation-responsive hydrogel based on mimicking naked mole rat brain microenvironment retards neurovascular dysfunction and cognitive decline in Alzheimer's disease	Chemical Engineering Journal	https://doi.org/10.1016/j.cej.2021.133090	2021	Yufang, Zhao, Shupei, Qiao, Bosong, Zhang, Yue, Cao, Hui, Tian, Runze, Liu, Liuke, Sun, Cao, Wang, Liang, Li, Ruiqi, Wang, Yue, Chen, Xiaolu, Hou, Yongming, Li, Jin, Zhou, Liyi, Li, Weiming, Tian	No
Early Detection and Reversal of Cell Apoptosis Induced by Focused Ultrasound-Mediated Blood-Brain Barrier Opening	ACS Nano	https://doi.org/10.1021/acsnano.1c04029	2021	Jieqiong, Wang, Liting, Xie, Yu, Shi, Lijuan, Ao, Feiyan, Cai, Fei, Yan	No
Post-event application of neurotropin protects against ischemic insult toward better outcomes in a murine model of subarachnoid hemorrhage	Biomedicines	https://doi.org/10.3390/biomedicines9060664	2021	Tatsushi, Mutoh, Shuzo, Yamamoto, Takahiro, Moriya	No
Experimental Myocardial Infarction Elicits Time-Dependent Patterns of Vascular Hypoxia in Peripheral Organs and in the Brain	Frontiers in Cardiovascular Medicine	https://www.frontiersin.org/articles/10.3389/fcvm.2020.615507/full	2021	Hélène, David, Aurore, Ughetto, Philippe, Gaudard, Maëlle, Plawecki, Nitchawat, Paiyabhroma, Emma, Zub, Pascal, Colson, Sylvain, Richard, Nicola, Marchi, Pierre, Sicard	No
Brain-targeted hypoxia-inducible factor stabilization reduces neonatal hypoxic-ischemic brain injury	Neurobiology of Disease	https://doi.org/10.1016/j.nbd.2020.105200	2021	Chia-Yi, Kuan, Hong-Ru, Chen, Ning, Gao, Yi-Min, Kuo, Ching-Wen, Chen, Dianer, Yang, Melissa M., Kinkaid, Erding, Hu, Yu-Yo, Sun	No
Harnessing the Secretome of Mesenchymal Stromal Cells for Traumatic Spinal Cord Injury: Multi-cell Comparison and Assessment of In Vivo Efficacy	Stem Cells and Development	https://doi.org/10.1089/scd.2020.0079	2020	Reaz, Vawda, Anna, Badner, James, Hong, Mirriam, Mikhail, Rachel, Dragas, Kristiana, Xhima, Alejandro, Jose, Michael G, Fehlings	No
Ultrasound with microbubbles improves memory, ameliorates pathology and modulates hippocampal proteomic changes in a triple transgenic mouse model of Alzheimer's disease	Theranostics	https://www.thno.org/v10p11794.htm	2020	Yuanyuan, Shen, Lingchen, Hua, Chih-kuang, Yeh, Liming, Shen, Ming, Ying, Zaijun, Zhang, Gongping, Liu, Shupeng, Li, Siping, Chen, Xin, Chen, Xifei, Yang	No
Engineering of SPECT/Photoacoustic Imaging/Antioxidative Stress Triple-Function Nanoprobe for Advanced Mesenchymal Stem Cell Therapy of Cerebral Ischemia	ACS Applied Materials & Interfaces	https://pubs.acs.org/doi/10.1021/acsami.0c10500	2020	Minghua, Yao, Xiaojing, Shi, Changjing, Zuo, Ming, Ma, Lu, Zhang, Hongbo, Zhang, Xin, Li, Guo-Yuan, Yang, Yaohui, Tang, Rong, Wu	No
In vivo photoacoustic guidance of stem cell injection and delivery for regenerative spinal cord therapies	Neurophotonics	https://doi.org/10.1117/1.nph.7.3.030501	2020	Kelsey P., Kubelick, Stanislav Y., Emelianov	No
Vascular contributions to 16p11.2 deletion autism syndrome modeled in mice	Nature Neuroscience	http://dx.doi.org/10.1038/s41593-020-0663-1	2020	Julie, Ouellette, Xavier, Toussay, Cesar H., Comin, Luciano da F., Costa, Mirabelle, Ho, María, Lacalle-Aurioles, Moises, Freitas-Andrade, Qing Yan, Liu, Sonia, Leclerc, Youlian, Pan, Ziying, Liu, Jean-François, Thibodeau, Melissa, Yin, Micael, Carrier, Cameron J., Morse, Peter Van, Dyken, Christopher J., Bergin, Sylvain, Baillet, Christopher R., Kennedy, Marie-Ève, Tremblay, Yannick D., Benoit, William L., Stanford, Dylan, Burger, Duncan J., Stewart, Baptiste, Lacoste	No

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Real-Time Noninvasive Bioluminescence, Ultrasound and Photoacoustic Imaging in NFκB-RE-Luc Transgenic Mice Reveal Glia Maturation Factor-Mediated Immediate and Sustained Spatio-Temporal Activation of NFκB Signaling Post-Traumatic Brain Injury in a Gender-	Cellular and Molecular Neurobiology	https://doi.org/10.1007/s10571-020-00937-9	2020	Sudhanshu P., Raikwar, Ramasamy, Thangavel, Mohammad Ejaz, Ahmed, Govindhasamy Pushpavathi, Selvakumar, Duraisamy, Kempuraj, Kristopher, Wu, Osaid, Khan, Kieran, Bazley, Bret, Bussinger, Klaudia, Kukulka, Smita, Zaheer, Shankar S., Iyer, Raghav, Govindarajan, Casey, Burton, Donald, James, Asgar, Zaheer	No
Cell Fate Potential of NG2 Progenitors	Scientific Reports	https://doi.org/10.1038/s41598-020-66753-9	2020	Rebeca, Sánchez-González, Ana, Bribián, Laura, López-Mascaraque	No
Activatable Small-Molecule Photoacoustic Probes that Cross the Blood–Brain Barrier for Visualization of Copper(II) in Mice with Alzheimer's Disease	Angewandte Chemie International Edition	https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.201904047	2019	Shichao, Wang, Zonghai, Sheng, Zhenguo, Yang, Dehong, Hu, Xiaojing, Long, Gang, Feng, Yubin, Liu, Zhen, Yuan, Jingjing, Zhang, Hairong, Zheng, Xuanjun, Zhang	No
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
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
Nanostructural Control Enables Optimized Photoacoustic–Fluorescence–Magnetic Resonance Multimodal Imaging and Photothermal Therapy of Brain Tumor	Advanced Functional Materials	https://onlinelibrary.wiley.com/doi/abs/10.1002/adfm.201907077	2020	Yukun, Duan, Dehong, Hu, Bing, Guo, Qi, Shi, Min, Wu, Shidang, Xu, Kenry, Xin, Liu, Jianwen, Jiang, Zonghai, Sheng, Hairong, Zheng, Bin, Liu	No
Non-invasive ultrasound detection of cerebrovascular changes in a mouse model of TBI	Journal of Neurotrauma	https://www.liebertpub.com/doi/10.1089/neu.2019.6872	2020	Joe, Steinman, Lindsay S., Cahill, Greg, Stortz, Christopher K., Macgowan, Bojana, Stefanovic, John G., Sled	No
Prussian blue nanocubes as a multimodal contrast agent for image-guided stem cell therapy of the spinal cord	Photoacoustics	https://doi.org/10.1016/j.pacs.2020.100166	2020	Kelsey P., Kubelick, Stanislav Y., Emelianov	No
In vivo photoacoustic imaging dynamically monitors the structural and functional changes of ischemic stroke at a very early stage	Theranostics	http://www.thno.org/v10p0816.htm	2020	Jing, Lv, Shi, Li, Jinde, Zhang, Fei, Duan, Zhiyou, Wu, Ronghe, Chen, Maomao, Chen, Shanshan, Huang, Haosong, Ma, Liming, Nie	No
Solid stress in brain tumours causes neuronal loss and neurological dysfunction and can be reversed by lithium	Nature Biomedical Engineering	http://dx.doi.org/10.1038/s41551-018-0334-7	2019	Giorgio, Seano, Hadi T., Nia, Kyrre E., Emblem, Meenal, Datta, Jun, Ren, Shanmugarajan, Krishnan, Jonas, Kloepper, Marco C., Pinho, William W., Ho, Mitrajit, Ghosh, Vasileios, Askoxylakis, Gino B., Ferraro, Lars, Riedemann, Elizabeth R., Gerstner, Tracy T., Batchelor, Patrick Y., Wen, Nancy U., Lin, Alan J., Grodzinsky, Dai, Fukumura, Peigen, Huang, James W., Baish, Timothy P., Padera, Lance L., Munn, Rakesh K., Jain	No
Early Intravenous Infusion of Mesenchymal Stromal Cells Exerts a Tissue Source Age-Dependent Beneficial Effect on Neurovascular Integrity and Neurobehavioral Recovery After Traumatic Cervical Spinal Cord Injury	STEM CELLS Translational Medicine	https://onlinelibrary.wiley.com/doi/abs/10.1002/sctm.18-0192	2019	Reaz, Vawda, Anna, Badner, James, Hong, Mirriam, Mikhail, Alam, Lakhani, Rachel, Dragas, Kristiana, Xhima, Tanya, Barretto, Clifford L., Librach, Michael G., Fehlings	No
Endogenous Interleukin-10 Deficiency Exacerbates Vascular Pathology in Traumatic Cervical Spinal Cord Injury	Journal of Neurotrauma	https://www.liebertpub.com/doi/10.1089/neu.2018.6081	2019	Anna, Badner, Pia M., Vidal, James, Hong, Justin, Hacker, Michael G, Fehlings	No

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Photoacoustic imaging of gold nanorods in the brain delivered via microbubble-assisted focused ultrasound: a tool for in vivo molecular neuroimaging	Laser Physics Letters	http://iopscience.iop.org/1612-202X/16/2/025603	2019	Robin K, Hartman, Kristina A, Hallam, Eleanor M, Donnelly, Stanislav Y, Emelianov	No
Sonodynamic Therapy on Intracranial Glioblastoma Xenografts Using Sinoporphyrin Sodium Delivered by Ultrasound with Microbubbles	Annals of Biomedical Engineering	http://link.springer.com/10.1007/s10439-018-02141-9	2018	Zhaoke, Pi, Yongpeng, Huang, Yuanyuan, Shen, Xiaojun, Zeng, Yaxin, Hu, Tie, Chen, Chenyang, Li, Hao, Yu, Siping, Chen, Xin, Chen	No
Central action of rapamycin on early ischemic injury and related cardiac depression following experimental subarachnoid hemorrhage	Brain Research Bulletin	https://doi.org/10.1016/j.brainresbull.2018.11.015	2019	Shuzo, Yamamoto, Tatsushi, Mutoh, Kazumasu, Sasaki, Tomoko, Mutoh, Yasuyuki, Taki	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
Platelet bio-nanobubbles as microvascular recanalization nanoformulation for acute ischemic stroke lesion theranostics	Theranostics	http://www.thno.org/v08p4870.htm	2018	Mingxi, Li, Yang, Liu, Jinpeng, Chen, Taotao, Liu, Zhuxiao, Gu, Jianqiong, Zhang, Xiaochun, Gu, Gaojun, Teng, Fang, Yang, Ning, Gu	No
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Laser-activated perfluorocarbon nanodroplets: a new tool for blood brain barrier opening	Biomedical Optics Express	https://www.osapublishing.org/abstract.cfm?URI=boe-9-9-4527	2018	Kristina A., Hallam, Eleanor M., Donnelly, Andrei B., Karpiouk, Robin K., Hartman, Stanislav Y., Emelianov	No
Preclinical Efficacy of Ado-trastuzumab Emtansine in the Brain Microenvironment	JNCI: Journal of the National Cancer Institute	https://academic.oup.com/jnci/article-lookup/doi/10.1093/jnci/djv313	2016	Vasileios, Askoxylakis, Gino B., Ferraro, David P., Kodack, Mark, Badeaux, Ram C., Shankaraiah, Giorgio, Seano, Jonas, Kloepper, Trupti, Vardam, John D., Martin, Kamila, Naxerova, Divya, Bezwada, Xiaolong, Qi, Martin K., Selig, Elena, Brachtel, Dan G., Duda, Peigen, Huang, Dai, Fukumura, Jeffrey A., Engelman, Rakesh K., Jain	No
A cerebellar window for intravital imaging of normal and disease states in mice	Nature Protocols	http://www.nature.com/doifinder/10.1038/nprot.2017.101	2017	Vasileios, Askoxylakis, Mark, Badeaux, Sylvie, Roberge, Ana, Batista, Ned, Kirkpatrick, Matija, Snuderl, Zohreh, Amoozgar, Giorgio, Seano, Gino B, Ferraro, Sampurna, Chatterjee, Lei, Xu, Dai, Fukumura, Dan G, Duda, Rakesh K, Jain	No
MicroRNA-378 enhances radiation response in ectopic and orthotopic implantation models of glioblastoma	Journal of Neuro-Oncology	http://link.springer.com/10.1007/s11060-017-2646-y	2018	Wende, Li, Yujiao, Liu, Weining, Yang, Xiaoxing, Han, Sen, Li, Hao, Liu, Leo E., Gerweck, Dai, Fukumura, Jay S., Loeffler, Burton B., Yang, Rakesh K., Jain, Peigen, Huang	No
Splenic involvement in umbilical cord matrix-derived mesenchymal stromal cell-mediated effects following traumatic spinal cord injury	Journal of Neuroinflammation	https://jneuroinflammation.biomedcentral.com/articles/10.1186/s12974-018-1243-0	2018	Anna, Badner, Justin, Hacker, James, Hong, Mirriam, Mikhail, Reaz, Vawda, Michael G, Fehlings	No

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Quantifying solid stress and elastic energy from excised or in situ tumors	Nature Protocols	http://www.nature.com/doifinder/10.1038/nprot.2018.020	2018	Hadi T, Nia, Meenal, Datta, Giorgio, Seano, Peigen, Huang, Lance L, Munn, Rakesh K, Jain	No
Highly Crystalline Multicolor Carbon Nanodots for Dual-Modal Imaging-Guided Photothermal Therapy of Glioma	ACS Applied Materials and Interfaces	https://doi.org/10.1021/acsami.7b19716	2018	Min, Qian, Yilin, Du, Shanshan, Wang, Chengyi, Li, Huiling, Jiang, Wei, Shi, Jian, Chen, Yi, Wang, Ernst, Wagner, Rongqin, Huang	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
Magnetic resonance and photoacoustic imaging of brain tumor mediated by mesenchymal stem cell labeled with multifunctional nanoparticle introduced via carotid artery injection	Nanotechnology	http://stacks.iop.org/0957-4484/29/i=16/a=165101?key=crossref.f2a10bd65d76d36a1...	2018	Yang, Qiao, Joy, Gumin, Christopher J, MacLellan, Feng, Gao, Richard, Bouchard, Frederick F, Lang, R Jason, Stafford, Marites P, Melancon	No
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Cerebellar Exposure to Cell-Free Hemoglobin Following Preterm Intraventricular Hemorrhage: Causal in Cerebellar Damage?	Translational Stroke Research	https://doi.org/10.1007/s12975-017-0539-1	2017	Alex Adusei, Agyemang, Kristbjörg, Sveinsdóttir, Suvi, Vallius, Snjolaug, Sveinsdóttir, Matteo, Bruschettini, Olga, Romantsik, Ann, Hellström, Lois E.H., Smith, Lennart, Ohlsson, Bo, Holmqvist, Magnus, Gram, David, Ley	No
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Photoacoustic Imaging of Human Mesenchymal Stem Cells Labeled with Prussian Blue-Poly(L-lysine) Nanocomplexes	ACS Nano	http://pubs.acs.org/doi/abs/10.1021/acsnano.7b03519	2017	Taeho, Kim, Jeanne E, Lemaster, Fang, Chen, Jin, Li, Jesse V, Jokerst	No

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Stellate cells drive maturation of the entorhinal-hippocampal circuit	Science	http://www.sciencemag.org/lookup/doi/10.1126/science.aai8178	2017	Flavio, Donato, R. Irene, Jacobsen, May-Britt, Moser, Edvard I., Moser	No
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Use of high-frequency ultrasound to study the prenatal development of cranial neural tube defects and hydrocephalus in Gldc -deficient mice	Prenatal Diagnosis	http://www.ncbi.nlm.nih.gov/pubmed/28056489%0Ahttp://doi.wiley.com/10.1002/pd.5...	2017	Maria C., Autuori, Yun J., Pai, Daniel J., Stuckey, Dawn, Savery, Anna M., Marconi, Valentina, Massa, Mark F., Lythgoe, Andrew J., Copp, Anna L., David, Nicholas D.E., Greene	No
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A Spinal Cord Window Chamber Model for In Vivo Longitudinal Multimodal Optical and Acoustic Imaging in a Murine Model	PLoS ONE	http://dx.plos.org/10.1371/journal.pone.0058081	2013	Sarah a., Figley, Yonghong, Chen, Azusa, Maeda, Leigh, Conroy, Jesse D., McMullen, Jason I., Silver, Shawn, Stapleton, Alex, Vitkin, Patricia, Lindsay, Kelly, Burrell, Gelareh, Zadeh, Michael G., Fehlings, Ralph S., DaCosta	No
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Functional and anatomical evidence of cerebral tissue hypoxia in young sickle cell anemia mice	Journal of Cerebral Blood Flow & Metabolism	http://jcb.sagepub.com/lookup/doi/10.1177/0271678X16649194	2016	L. S., Cahill, L. M., Gazdzinski, A. K., Tsui, Y.-Q., Zhou, S., Portnoy, E., Liu, C. D., Mazer, G. M., Hare, A., Kassner, J. G., Sled	No
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