

Title	Journal	Link	Publication date	References	Top Paper
Tumbling Magnetic Microrobots for Targeted In Vivo Drug Delivery in the GI Tract	Advanced Robotics Research		2025	Aaron C., Davis, Luis Carlos Sanjuan, Acosta, Shubh P., Mehta, Baiyan, Qi, Yang, Yang, Luis, Solorio, Craig J., Goergen, David J., Cappelleri	Yes
Ultrasound and Microbubble-Induced Reduction of Functional Vasculature Depends on the Microbubble, Tumor Type and Time After Treatment	Ultrasound in Medicine and Biology		2025	Sofie, Snipstad, Caroline, Einen, Andrea Berge, Kastellet, Jessica Lage, Fernandez, Melina, Mühlenpfordt, Anna, Kurbatskaya, Charlotte, Årseth, Sigrid, Berg, Astrid, Bjørkøy, Catharina de Lange, Davies	Yes
Left atrial reservoir strain as a predictor of cardiac dysfunction in a murine model of pressure overload	Acta Physiologica		2025	John P., Salvas, Thomas, Moore-Morris, Craig J., Goergen, Pierre, Sicard	Yes
Heterogeneous tumor blood oxygenation dynamics during phototherapy deciphered with real-time label-free photoacoustic imaging	npj Acoustics		2025	Andrew, Langley, Allison, Sweeney, Ronak T., Shethia, Brooke, Bednarke, Faizah, Wulandana, Marvin, Xavierselvan, Srivalleesha, Mallidi	Yes
In-ovo echocardiography for application in cardiovascular research	Basic Research in Cardiology		2023	Niklas, Hegemann, Willem, Bintig, Paul Lennard, Perret, Judith, Rees, Alessandra, Viperino, Britta, Eickholt, Wolfgang M., Kuebler, Michael, Höpfner, Bianca, Nitzsche, Jana, Grune	Yes
3D doppler ultrasound imaging of cerebral blood flow for assessment of neonatal hypoxic-ischemic brain injury in mice	PLoS ONE		2023	Guofang, Shen, Kayla, Sanchez, Shirley, Hu, Zhen, Zhao, Lubo, Zhang, Qingyi, Ma	Yes
Carbon dots-mediated synthesis of gold nanodendrites with extended absorption into NIR-II window for in vivo photothermal therapy	Journal of Nanobiotechnology		2023	Guoyong, Liu, Shuxian, Wang, Shumin, Wang, Rongrong, Wu, Hui, Li, Menglei, Zha, Jibin, Song, Yuxin, Yin, Kai, Li, Jing, Mu, Yu, Shi	Yes
Visual inertial odometry enabled 3D ultrasound and photoacoustic imaging	Biomedical Optics Express	https://opg.optica.org/abstract.cfm?URI=boe-14-6-2756	2023	Deeksha M., Sankepalle, Brian, Anthony, Srivalleesha, Mallidi	Yes
Functional photoacoustic imaging for placental monitoring: A mini review	IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control.		2023	Vinoin Devpaul, Vincely, Carolyn L., Bayer	Yes
Combination Therapy with a Bispecific Antibody Targeting the hERG1/β1 Integrin Complex and Gemcitabine in Pancreatic Ductal Adenocarcinoma.	Cancers	http://www.ncbi.nlm.nih.gov/pubmed/37046674	2023	Tiziano, Lottini, Claudia, Duranti, Jessica, Iorio, Michele, Martinelli, Rossella, Colasurdo, Franco Nicolás, D'Alessandro, Matteo, Buonamici, Stefano, Coppola, Valentina, Devescovi, Vincenzo, La Vaccara, Alessandro, Coppola, Roberto, Coppola, Elena, Lastraioli, Annarosa, Arcangeli	Yes
Imaging Techniques for Aortic Aneurysms and Dissections in Mice: Comparisons of Ex Vivo, In Situ, and Ultrasound Approaches	Biomolecules		2022	Sohei, Ito, Hong S., Lu, Alan, Daugherty, Hisashi, Sawada	Yes
Assessment of Transarterial Chemoembolization Using Super-resolution Ultrasound Imaging and a Rat Model of Hepatocellular Carcinoma	Ultrasound in Medicine & Biology	https://doi.org/10.1016/j.ultrasmedbio.2023.01.021	2023	Katherine G, Brown, Junjie, Li, Ryan, Margolis, Brian, Trinh, John R, Eisenbrey, Kenneth, Hoyt	Yes
Comparative assessment of coronary physiology using transthoracic pulsed-wave Doppler and myocardial contrast echocardiography in rats	European radiology experimental		2023	Sebastian, Billig, Marc, Hein, Mare, Mechelinck, David, Schumacher, Anna B., Roehl, Dieter, Fuchs, Rafael, Kramann, Moritz, Uhlig	Yes
P2Y12 Inhibition in Murine Myocarditis Results in Reduced Platelet Infiltration and Preserved Ejection Fraction	Cells	https://www.mdpi.com/2073-4409/10/12/3414	2021	Sarah, Schmidt, Wilfried, Reichardt, Beat, Kaufmann, Carolin, Wadle, Dominik, von Elverfeldt, Peter, Stachon, Ingo, Hilgendorf, Dennis, Wolf, Timo, Heidt, Daniel, Duerschmied, Karlheinz, Peter, Christoph, Bode, Constantin, von zur Mühlen, Alexander, Maier	Yes

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Right Heart Failure in Mice Upon Pressure Overload Is Promoted by Mitochondrial Oxidative Stress	JACC: Basic to Translational Science	https://www.sciencedirect.com/science/article/pii/S2452302X22000754	2022	Marion, Muller, Cornelius, Bischof, Torben, Kapries, Sophie, Wollnitza, Chiara, Liechty, Simon, Beiben, Torben, Schubert, Dragan, Opacic, Muhammad, Gercek, Vera, Fortmeier, Daniel, Dumitrescu, Uwe, Scholmann, Akylbek, Sydykov, Aleksandar, Petrovic, Leoni, Gnatzy-Feik, Hendrik, Milting, Ralph T., Schermuly, Kai, Friedrichs, Volker, Rudolph, Anna, Klinke	Yes
Early diagnosis of bladder cancer by photoacoustic imaging of tumor-targeted gold nanorods	Photoacoustics	https://www.sciencedirect.com/science/article/pii/S2213597922000659?via%3Dihub	2022	Elsa, Alchera, Matteo, Monieri, Mirko, Maturi, Irene, Locatelli, Erica, Locatelli, Silvia, Tortorella, Angelina, Sacci, Angelo, Corti, Manuela, Nebuloni, Roberta, Luciano, Filippo, Pederzoli, Francesco, Montorsi, Andrea, Salonia, Sandra, Meyer, Jithin, Jose, Pierangela, Giustetto, Mauro Comes, Franchina, Flavio, Curnis, Massimo, Alfano	Yes
Quantification of murine myocardial infarct size using 2-D and 4-D high-frequency ultrasound	American Journal of Physiology-Heart and Circulatory Physiology	https://journals.physiology.org/doi/10.1152/ajpheart.00476.2021	2022	Melissa M., Dann, Sydney Q., Clark, Natasha A., Trzaskalski, Conner C., Earl, Luke E., Schepers, Serena M., Pulente, Ebonee N., Lennord, Karthik, Annamalai, Joseph M., Gruber, Abigail D., Cox, Ilka, Lorenzen-Schmidt, Richard, Seymour, Kyoung-Han, Kim, Craig J., Goergen, Erin E., Mulvihill	Yes
Improving characterization of hypertrophy-induced murine cardiac dysfunction using four-dimensional ultrasound derived strain mapping	American Journal of Physiology-Heart and Circulatory Physiology	https://journals.physiology.org/doi/10.1152/ajpheart.00133.2021	2021	Frederick W., Damen, John P., Salvas, Andrea S., Pereyra, Jessica M., Ellis, Craig J., Goergen	Yes
Fast super-resolution ultrasound microvessel imaging using spatiotemporal data with deep fully convolutional neural network	Physics in Medicine and Biology		2021	U. Wai, Lok, Chengwu, Huang, Ping, Gong, Shanshan, Tang, Lulu, Yang, Wei, Zhang, Yohan, Kim, Panagiotis, Korfiatis, Daniel J., Blezek, Fabrice, Lucien, Rongqin, Zheng, Joshua D., Trzasko, Shigao, Chen	Yes
Machine learning driven contouring of high-frequency four-dimensional cardiac ultrasound data	Applied Sciences (Switzerland)		2021	Frederick W., Damen, David T., Newton, Guang, Lin, Craig J., Goergen	Yes
Morphological, functional, and molecular assessment of breast cancer bone metastases by experimental ultrasound techniques compared with magnetic resonance imaging and histological analysis	Bone	https://www.sciencedirect.com/science/article/pii/S8756328220306098?via%3Dihub#...	2021	Henrik, Heinen, Lisa, Seyler, Vanessa, Popp, Konstantin, Hellwig, Aline, Bozec, Michael, Uder, Stephan, Ellmann, Tobias, Bäuerle	Yes
A Novel Noninvasive Method for Quantitative Detection of Colonic Dysmotility Using Real-Time Ultrasonography	Digestion		2020	Kazuhsa, Kishi, Noriyuki, Kaji, Yoshiharu, Tsuru, Masatoshi, Hori	Yes
Cysteine depletion induces pancreatic tumor ferroptosis in mice	Science		2020	Michael A., Badgley, Daniel M., Kremer, H., Carlo Maurer, Kathleen E., DelGiorno, Ho Joon, Lee, Vinee, Purohit, Irina R., Sagalovskiy, Alice, Ma, Jonathan, Kapilian, Christina E.M., Firl, Amanda R., Decker, Steve A., Sastra, Carmine F., Palermo, Leonardo R., Andrade, Peter, Sajjakulnukit, Li, Zhang, Zachary P., Tolstyka, Tal, Hirschhorn, Candice, Lamb, Tong, Liu, Wei, Gu, E., Scott Seeley, Everett, Stone, George, Georgiou, Uri, Manor, Alina, Iuga, Geoffrey M., Wahl, Brent R., Stockwell, Costas A., Lyssiotis, Kenneth P., Olive	Yes

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Uncoupling DNA damage from chromatin damage to detoxify doxorubicin	Proceedings of the National Academy of Sciences	https://pnas.org/doi/full/10.1073/pnas.1922072117	2020	Xiaohang, Qiao, Sabina Y., van der Zanden, Dennis P. A., Wander, Daniel M., Borràs, Ji-Ying, Song, Xiaoyang, Li, Suzanne, van Duikerken, Noortje, van Gils, Arjo, Rutten, Tessa, van Herwaarden, Olaf, van Tellingen, Elisa, Giacomelli, Milena, Bellin, Valeria, Orlova, Leon G. J., Tertoolen, Sophie, Gerhardt, Jimmy J., Akkermans, Jeroen M., Bakker, Charlotte L., Zuur, Baoxu, Pang, Anke M., Smits, Christine L., Mummy, Linda, Smit, Ramon, Arens, Junmin, Li, Hermen S., Overkleef, Jacques, Neefjes	Yes
Quantification of Murine Pancreatic Tumors by High-Resolution Ultrasound	Methods in Molecular Biology	http://link.springer.com/10.1007/978-1-62703-287-2	2013	Stephen A., Sastra, Kenneth P., Olive	Yes
Toward standardization of echocardiography for the evaluation of left ventricular function in adult rodents: a position paper of the ESC Working Group on Myocardial Function	Cardiovascular Research	https://academic.oup.com/cvres/advance-article/doi/10.1093/cvr/cvaa110/...	2020	Serena, Zacchigna, Alessia, Paldino, Inés, Falcão-Pires, Evangelos P, Daskalopoulos, Matteo, Dal Ferro, Simone, Vodret, Pierluigi, Lesizza, Antonio, Cannatà, Daniela, Miranda-Silva, André P, Lourenço, Bruno, Pinamonti, Gianfranco, Sinagra, Florian, Weinberger, Thomas, Eschenhagen, Lucie, Carrier, Izhak, Kehat, Carlo G, Tocchetti, Michele, Russo, Alessandra, Ghigo, James, Cimino, Emilio, Hirsch, Dana, Dawson, Michele, Ciccarelli, Marco, Olivetti, Wolfgang A, Linke, Ilona, Cuijpers, Stephane, Heymans, Nazha, Hamdani, Martine, de Boer, Dirk, Duncker, Diederik, Kuster, Jolanda, van der Velden, Christophe, Beauloye, Luc, Bertrand, Manuel, Mayr, Mauro, Giacca, Florian, Leuschner, Johannes, Backs, Thomas, Thum	Yes
EXPRESS: Echocardiographic markers of pulmonary hemodynamics and right ventricular hypertrophy in rat models of pulmonary hypertension	Pulmonary Circulation	http://journals.sagepub.com/doi/10.1177/2045894020910976	2020	Fotios, Spyropoulos, Sally H, Vitali, Marlin, Touma, Chase D., Rose, Carter R., Petty, Philip, Levy, Stella, Kourembanas, Helen, Christou	Yes
Improving the quality of preclinical research echocardiography: observations, training, and guidelines for measurement	American Journal of Physiology-Heart and Circulatory Physiology	https://www.physiology.org/doi/10.1152/ajpheart.00157.2018	2018	Daniel G., Donner, Helen, Kiriazis, Xiao-Jun, Du, Thomas H., Marwick, Julie R., McMullen	Yes
World Trade Center-Cardiorespiratory and Vascular Dysfunction: Assessing the Phenotype and Metabolome of a Murine Particulate Matter Exposure Model	Scientific Reports	http://dx.doi.org/10.1038/s41598-020-58717-w	2020	Arul, Veerappan, Assad, Oskuei, George, Crowley, Mena, Mikhail, Dean, Ostrofsky, Zakia, Gironda, Sandhya, Vaidyanathan, Youssef Zaim, Wadghiri, Mengling, Liu, Sophia, Kwon, Anna, Nolan	Yes
Commercial 4-dimensional echocardiography for murine heart volumetric evaluation after myocardial infarction	Cardiovascular Ultrasound	https://cardiovascularultrasound.biomedcentral.com/articles/10.1186/s12947-020-...	2020	Cody, Rutledge, George, Cater, Brenda, McMahon, Lanping, Guo, Seyed Mehdi, Nouraie, Yijun, Wu, Flordeliza, Villanueva, Brett A., Kaufman	Yes
Sex differences in the evolution of left ventricle remodeling in rats with severe volume overload	BMC Cardiovascular Disorders	https://bmccardiovascdisord.biomedcentral.com/articles/10.1186/s12872-020-01360...	2020	Elisabeth, Walsh-Wilkinson, Marie-Claude, Drolet, Marie, Arsenault, Jacques, Couet	Yes
Three-dimensional myocardial strain correlates with murine left ventricular remodelling severity post-infarction	Journal of The Royal Society Interface	https://royalsocietypublishing.org/doi/10.1098/rsif.2019.0570	2019	Arvin H, Soepriatna, A Kevin, Yeh, Abigail D, Clifford, Serih E, Bezci, Grace D., O'Connell, Craig J, Goergen	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

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Strain Mapping From Four-Dimensional Ultrasound Reveals Complex Remodeling in Dissecting Murine Abdominal Aortic Aneurysms	Journal of Biomechanical Engineering	http://biomechanical.asmedigitalcollection.asme.org/article.aspx?doi=10.1115/1...	2019	Hannah L., Cebull, Arvin H., Soepriatna, John J., Boyle, Sean M., Rothenberger, Craig J., Goergen	Yes
Accurate assessment of LV function using the first automated 2D-border detection algorithm for small animals - evaluation and application to models of LV dysfunction	Cardiovascular Ultrasound	https://cardiovascularultrasound.biomedcentral.com/articles/10.1186/s12947-019-...	2019	Jana, Grune, Daniel, Ritter, Kristin, Kräker, Kathleen, Pappritz, Niklas, Beyhoff, Till, Schütte, Christiane, Ott, Cathleen, John, Sophie, van Linthout, Carsten, Tschöpe, Ralf, Dechend, Dominik N., Muller, Nadine, Haase, Tilman, Grune, Ulrich, Kintscher, Wolfgang M., Kuebler	Yes
Nitrosative stress drives heart failure with preserved ejection fraction	Nature	http://www.nature.com/articles/s41586-019-1100-z	2019	Gabriele G., Schiattarella, Francisco, Altamirano, Dan, Tong, Kristin M., French, Elisa, Villalobos, Soo Young, Kim, Xiang, Luo, Nan, Jiang, Herman I., May, Zhao V., Wang, Theodore M., Hill, Pradeep P. A., Mammen, Jian, Huang, Dong I., Lee, Virginia S., Hahn, Kavita, Sharma, David A., Kass, Sergio, Lavandero, Thomas G., Gillette, Joseph A., Hill	Yes
EXPRESS: Echocardiographic Assessment of Right Ventricular Functions in Experimental Pulmonary Hypertension	Pulmonary Circulation	http://journals.sagepub.com/doi/10.1177/2045894019841987	2019	Zhongkai, Zhu, Dureti, Godana, Ailing, Li, Bianca, Rodriguez, HAIYANG, TANG, Richard, Minshall, Wei, Huang, Jiwang, Chen	Yes
Strain mapping from 4D ultrasound reveals complex remodeling in dissecting murine abdominal aortic aneurysms.	Journal of biomechanical engineering		2019	Hannah, Cebull, Arvin, Soepriatna, John, Boyle, Sean, Rothenberger, Craig, Goergen	Yes
Inactivation of platelet-derived TGF-β1 attenuates aortic stenosis progression in a robust murine model	Blood Advances	http://www.bloodadvances.org/lookup/doi/10.1182/bloodadvances.2018025817	2019	Rohan, Varshney, Brennah, Murphy, Sean, Woolington, Shahrrouz, Ghafoory, Sixia, Chen, Tyler, Robison, Jasimuddin, Ahamed	Yes
Comparative determination of placental perfusion by magnetic resonance imaging and contrast-enhanced ultrasound in a murine model of intrauterine growth restriction	Placenta	https://doi.org/10.1016/j.placenta.2018.07.009	2018	C.-J., Arthuis, V., Mendes, S., Mème, W., Mème, C., Rousselot, N., Winer, A., Novell, F., Perrotin	Yes
Erythropoietin and long-acting erythropoiesis stimulating agent ameliorate non-alcoholic fatty liver disease by increasing lipolysis and decreasing lipogenesis via EPOR/STAT pathway	Biochemical and Biophysical Research Communications	https://doi.org/10.1016/j.bbrc.2018.12.131	2019	Yusuke, Tsuma, Jun, Mori, Takeshi, Ota, Yasuhiro, Kawabe, Hidechika, Morimoto, Shota, Fukuhara, Kazuki, Kodo, Atsushi, Umemura, Hisakazu, Nakajima, Hajime, Hosoi	Yes
Lung ultrasound as a translational approach for non-invasive assessment of heart failure with reduced or preserved ejection fraction in mice	Cardiovascular Research	http://academic.oup.com/cvres/article/113/10/1113/3797838/Lung-ultrasou...	2017	María, Villalba-Orero, Marina M., López-Olañeta, Esther, González-López, Laura, Padrón-Barthe, Jesús M., Gómez-Salineró, Jaime, García-Prieto, Timothy, Wai, Pablo, García-Pavía, Borja, Ibáñez, Luis J., Jiménez-Borreguero, Enrique, Lara-Pezzi	Yes
Utilizing Contrast-Enhanced Ultrasound Imaging for Evaluating Fatty Liver Disease Progression in Pre-clinical Mouse Models	Ultrasound in Medicine & Biology	https://linkinghub.elsevier.com/retrieve/pii/S0301562918304411	2018	Harshul, Pandit, Joseph P., Tinney, Yan, Li, Guozhen, Cui, Suping, Li, Bradley B., Keller, Robert C.G., Martin	Yes
Serological biomarkers associate ultrasound characteristics of steatohepatitis in mice with liver cancer	Nutrition and Metabolism		2018	Guozhen, Cui, Robert C., Martin, Xingkai, Liu, Qianqian, Zheng, Harshul, Pandit, Ping, Zhang, Wei, Li, Yan, Li	Yes

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Mechanosensing by $\beta 1$ integrin induces angiocrine signals for liver growth and survival	Nature	http://www.nature.com/articles/s41586-018-0522-3	2018	Linda, Lorenz, Jennifer, Axnick, Tobias, Buschmann, Carina, Henning, Sofia, Urner, Shentong, Fang, Harri, Nurmi, Nicole, Eichhorst, Richard, Holtmeier, Kálmán, Bódis, Jong-Hee, Hwang, Karsten, Müssig, Daniel, Eberhard, Jörg, Stypmann, Oliver, Kuss, Michael, Roden, Kari, Alitalo, Dieter, Häussinger, Eckhard, Lammert	Yes
Accurate and noise insensitive strain mapping enables ultrasound analysis of cardiac function in three dimensions	Journal of Biomechanical Engineering	http://biomechanical.asmedigitalcollection.asme.org/article.aspx?doi=10.1115/1...	2018	John, Boyle, Arvin, Soepriatna, Frederick, Damen, Roger, Rowe, Robert, Pless, Attila, Kovacs, Craig, Goergen, Stavros, Thomopoulos, Guy M., Genin	Yes
Experimental imaging in orthotopic renal cell carcinoma xenograft models: comparative evaluation of high-resolution 3D ultrasonography, in-vivo micro-CT and 9.4T MRI	Scientific Reports		2017	Johannes, Linxweiler, Christina, Körbel, Andreas, Müller, Eva, Jüngel, Roman, Blaheta, Joana, Heinzlmann, Michael, Stöckle, Kerstin, Junker, Michael D., Menger, Matthias, Saar	Yes
A minimally invasive approach to induce myocardial infarction in mice without thoracotomy	Journal of Cellular and Molecular Medicine	http://doi.wiley.com/10.1111/jcmm.13708	2018	Quan, Sun, Kang-Kai, Wang, Miao, Pan, Ji-Peng, Zhou, Xue-Ting, Qiu, Zhen-Yu, Wang, Zhen, Yang, Yan, Chen, Hong, Shen, Qi-Lin, Gu, Long-Hou, Fang, Guo-Gang, Zhang, Yong-Ping, Bai	Yes
4D cardiac magnetic resonance imaging, 4D and 2D transthoracic echocardiography: a comparison of in-vivo assessment of ventricular function in rats	Laboratory Animals	http://journals.sagepub.com/doi/10.1177/0023677218789971	2018	Hedwig, Stegmann, Tobias, Bäuerle, Katharina, Kienle, Sven, Dittrich, Muhannad, Alkassar	Yes
Evaluation of a commercial multi-dimensional echocardiography technique for ventricular volumetry in small animals	Cardiovascular Ultrasound	https://cardiovascularultrasound.biomedcentral.com/articles/10.1186/s12947-018-...	2018	Jana, Grune, Annelie, Blumrich, Sarah, Brix, Sarah, Jeuthe, Cathleen, Drescher, Tilman, Grune, Anna, Foryst-Ludwig, Daniel, Messroghli, Wolfgang M., Kuebler, Christiane, Ott, Ulrich, Kintscher	Yes
Inhibition of BK Ca negatively alters cardiovascular function	Physiological Reports	http://doi.wiley.com/10.14814/phy2.13748	2018	Nishi H., Patel, Justin, Johannesen, Kajol, Shah, Sumanta K., Goswami, Neel J., Patel, Devasena, Ponnalagu, Andrew R., Kohut, Harpreet, Singh	Yes
Echocardiographic Strain Analysis for the Early Detection of Left Ventricular Systolic/Diastolic Dysfunction and Dyssynchrony in a Mouse Model of Physiological Aging	The Journals of Gerontology: Series A	https://academic.oup.com/biomedgerontology/advance-article-abstract/doi/10.1093...	2018	Claudio, de Lucia, Markus, Wallner, Deborah M, Eaton, Huaqing, Zhao, Steven R, Houser, Walter J, Koch	Yes
Oxidized phospholipids are proinflammatory and proatherogenic in hypercholesterolaemic mice	Nature	http://www.nature.com/articles/s41586-018-0198-8	2018	Xuchu, Que, Ming-yow, Hung, Calvin, Yeang, Ayelet, Gonen, Thomas A, Prohaska, Xiaoli, Sun, Cody, Diehl, Antti, Määttä, Dalia E, Gaddis, Karen, Bowden, Jennifer, Pattison, Jeffrey G., MacDonald, Seppo, Ylä-Herttuala, Pamela L, Mellon, Catherine C, Hedrick, Klaus, Ley, Yury I, Miller, Christopher K, Glass, Kirk L, Peterson, Christoph J, Binder, Sotirios, Tsimikas, Joseph L, Witztum	Yes
Development and growth trends in angiotensin II-induced murine dissecting abdominal aortic aneurysms	Physiological Reports		2018	A.R., Adelsperger, E.H., Phillips, H.S., Ibriga, B.A., Craig, L.A., Green, M.P., Murphy, C.J., Goergen	Yes
Echocardiographic Analysis of Cardiac Function After Infarction in Mice : Validation of Single-Plane Long-Axis View Measurements and the Bi-Plane Simpson Method	Ultrasound in Medicine & Biology	https://doi.org/10.1016/j.ultrasmedbio.2018.03.020	2018	Andre, Heinen, Annika, Raupach, Friederike, Behnenburg, Nina, Hölscher, Ulrich, Flögel, Malte, Kelm, Wolfgang, Kaisers, Rianne, Nederlof, Ragnar, Huhn, Axel, Gödecke	Yes

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Novel mouse model of left ventricular pressure overload and infarction causing predictable ventricular remodelling and progression to heart failure	Clinical and Experimental Pharmacology and Physiology		2015	Carla J., Weinheimer, Ling, Lai, Daniel P., Kelly, Attila, Kovacs	Yes
GPR68 Senses Flow and Is Essential for Vascular Physiology	Cell		2018	Jie, Xu, Jayanti, Mathur, Emilie, Vessières, Scott, Hammack, Keiko, Nonomura, Julie, Favre, Linda, Grimaud, Matt, Petrus, Alain, Francisco, Jingyuan, Li, Van, Lee, Fu li, Xiang, James K., Mainquist, Stuart M., Cahalan, Anthony P., Orth, John R., Walker, Shang, Ma, Viktor, Lukacs, Laura, Bordone, Michael, Bandell, Bryan, Laffitte, Yan, Xu, Shu, Chien, Daniel, Henrion, Ardem, Patapoutian	Yes
Placenta-specific drug delivery by trophoblast-targeted nanoparticles in mice	Theranostics		2018	Baozhen, Zhang, Lunbo, Tan, Yan, Yu, Baobei, Wang, Zhilong, Chen, Jinyu, Han, Mengxia, Li	Yes
Electromechanical vortex filaments during cardiac fibrillation	Nature	http://www.nature.com/doi/10.1038/nature26001	2018	J., Christoph, M., Chebbok, C., Richter, J., Schröder-Schetelig, P., Bittihn, S., Stein, I., Uzelac, F. H., Fenton, G., Hasenfuß, R. F., Gilmour, S., Luther	Yes
Cardiac and respiratory-gated volumetric murine ultrasound	The International Journal of Cardiovascular Imaging	http://dx.doi.org/10.1007/s10554-017-1283-z	2017	Arvin H., Soepriatna, Frederick W., Damen, Pavlos P., Vlachos, Craig J., Goergen	Yes
High Resolution Ultrasonography for Assessment of Renal Cysts in the PCK Rat Model of Autosomal Recessive Polycystic Kidney Disease	Kidney and Blood Pressure Research	http://www.karger.com/?doi=10.1159/000443420	2016	Sarika, Kapoor, Daniel, Rodríguez, Katharyn, Mitchell, Rudolf P., Wüthrich	Yes
High-Frequency Ultrasound Imaging for Longitudinal Evaluation of Non-Alcoholic Fatty Liver Disease Progression in Mice	Ultrasound in Medicine & Biology	http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3118979/pdf/nihms292852.pdf	2011	Itziar, Fernández-Domínguez, J. Javier, Echevarria-Uraga, Nieves, Gómez, Zigmund, Luka, Conrad, Wagner, Shelly C., Lu, José M., Mato, Maria L., Martínez-Chantar, Juan, Rodríguez-Cuesta	Yes
Role of innate immunity and altered intestinal motility in LPS- and MnCl2-induced intestinal intussusception in mice.	American journal of physiology. Gastrointestinal and liver physiology	http://www.ncbi.nlm.nih.gov/pubmed/24407593	2014	Kristin E, Killoran, Amber D, Miller, Karen S, Uray, Norman W, Weisbrodt, Robia G, Pautler, Sanna M, Goyert, Nico, van Rooijen, Margaret E, Conner	Yes
Anti-VEGF therapy reduces intestinal inflammation in Endoglin heterozygous mice subjected to experimental colitis	Angiogenesis	http://www.ncbi.nlm.nih.gov/pubmed/24510304	2014	Daniela S, Ardelean, Melissa, Yin, Mirjana, Jerkic, Madonna, Peter, Bo, Ngan, Robert S, Kerbel, F Stuart, Foster, Michelle, Letarte	Yes
Smooth Muscle Cell Specific Activity of SGK-1 Alters Aortic Stiffness and Abdominal Aortic Aneurysm Growth	Journal of Vascular Diseases		2026	Matthew, Anderson, Lellei, Zhang, Mario, Figueroa, Victoria, Mattia, Alexander, Rovner, Vinitha, Uppalapati, Ying, Xiong, Rupak, Mukherjee, Jeffrey A., Jones, Jean Marie, Ruddy	No
Tumor necrosis factor alpha inhibition improves fetal growth in a rat model of preeclampsia	Placenta		2026	Laura E., Coats, Nathan, Campbell, Dylan, Solise, Gabrielle M., Chamoun, Adam Z., Rawls, Alexandra, Demesa, Ty, Turner, Baoying, Zheng, Barbara T., Alexander, Babbette, LaMarca	No

Title	Journal	Link	Publication date	References	Top Paper
Effects of proANP31-67 in a preclinical model of uninephrectomy and cardiac 2 ischemia/reperfusion injury: cardiac remodeling and tissue biochemical profiling			2026	Gustavo, Jose Justo Silva, Sara, Stefani, Reza, Parvan, Michael, Frisk, Xin, Shen, Alunni, Cardinali, Mari E, Strand, Karoline, Bjarnesdatter Rypdal, Mathis, Korseberg, Håvard, Attramadal, Ida G, Lunde, Jan, Magnus Aronsen, Kåre-Olav, Stensløyken, William E, Louch, Paola, Sassi, Alessandro, Cataliotti	No
Antitumor Activity of the Ethanolic Extract from Syzygium aromaticum in Colorectal Cancer Xenograft Mice	Pharmaceutics		2026	Thunyatorn, Yimsoo, Weerakit, Taychaworaditsakul, Hathaihanok, Chuntakaruk, Worapapar, Treesuppharat, Sumet, Kongkiatpaiboon, Apipu, Ariyachayut, Suneee, Chansakaow, Teera, Chewonarin, Parirat, Khonsung, Seewaboon, Sireeratawong	No
PARP1 Combining Nanoparticle LN28B siRNA for the Management of Malignant Ascites	Advanced Science		2026	Yan, Fang, Qian, Shen, Yao, Lin, Jing, Zhu, Xiaolan, Zhu, Rui, Huang, Yijia, Wu, Feiyang, Shen, Qian, Li, Guopei, Zheng, Zhe, Zhang, Qian, Chu, Junhao, Hu, Jianfeng, Shen	No
Preserved Function of Endothelial Colony-Forming Cells in Female Rats with Intrauterine Growth Restriction: Protection Against Arterial Hypertension and Arterial Stiffness?	Cells		2026	Thea, Chevalley, Floriane, Bertholet, Marion, Dübi, Maria Serena, Merli, Mélanie, Charmoy, Sybil, Bron, Manon, Allouche, Alexandre, Sarre, Nicole, Sekarski, Stéphanie, Simoncini, Patrick, Taffé, Umberto, Simeoni, Catherine, Zydzorczyk	No
Crotonate suppresses breast cancer metastasis and promotes immunotherapy response by inducing ACS2-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
Treatment of clonal hematopoiesis associated atherosclerosis via vaccine-based clearance of the mutant cells	Journal of Advanced Research		2026	Shuang, Liang, Wenxin, Tao, Di, Qu, Panpan, Ji, Zhenzhen, Hao, Mengying, Wei, Guodong, Yang, Xueying, Zhou, Chen, Wang, Lijun, Yuan	No
SREBP1-mediated lipogenesis promotes dedifferentiation and senescence of vascular smooth muscle cells through epigenetic remodeling	Nature Communications		2025	Bowen, Li, Kaixiang, Zhou, Anan, Yin, Yonghong, Li, Xichen, Wang, Yujia, Cui, Fangfang, Liu, Qiorong, Liu, Hongjing, Zheng, Zhiqiang, Mu, Kun, Chen, Yuanming, Wu, Yaoming, Chang, Junxiang, Bao	No
Prolonged exposure to nitrate in drinking water does not adversely impact prenatal or birth outcomes in a rat model	Regulatory Toxicology and Pharmacology		2026	Leaf R., Kardol, Avalon, Gray, Amina, Rhaman, Alexander N., Larcombe, Christine, Jeffries-Stokes, Annette, Stokes, Sarah, Bourke, Sujata, Shinde, Kevin, Croft, Caitlin S., Wyrwoll	No
miR-155 suppresses angiotensin II type 1 receptor synthesis during placental morphogenesis	Cell Death Discovery		2025	Anyia L., Arthurs, Eugenie R., Lumbers, Lachlan, Schofield, Celine, Lees, Peck Y., Chin, Alison S., Care, Sarah A., Robertson, John E., Schjenken, Kirsty G., Pringle	No
Mapping Microvascular Flow via Radon Transform Ultrasound: Technical Advances and Pilot Application	BME Frontiers	https://spj.science.org	2026	Author, Jingyi Yin, Lijie, Huang, Jingke, Zhang, U-Wai, Lok, Ryan M, DeRuiter, Xiang-yang, Zhu, James D, Krier, Yohan, Kim, Yanzhe, Zhao, Kaipeng, Ji, Fabrice, Lucien, Lilach O, Lerman, Shigao, Chen, Chengwu, Huang	No

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Perillyl alcohol attenuates hypoxia induced right ventricular dysfunction and remodeling by balancing the renin-angiotensin aldosterone system in rats	Scientific Reports	https://www.nature.com/articles/s41598-025-34539-6	2026	Hai-Jun, Bai, Yi-Wen, Wang, Zhan-Qiang, Li, Dian-Xiang, Lu, Xing-Mei, Nan, Zhan-Ting, Yang	No
Colchicine Alleviates Non-Atherosclerotic Vascular Aging by Targeting Endothelial Dysfunction and Inflammatory Status	Journal of Inflammation Research	https://www.dovepress.com/colchicine-alleviates-non-atherosclerotic-vascular-ag...	2026	Soroush, Mohammadi Jouabadi, Annika, Jüttner, Keivan, Golshiri, Ehsan, Ataei Ataabadi, Martine, de Boer, Rene, De Vries, Richard, Van Veghel, Yoëlle, Goos, Youri, Boon, Usha, Musterd-Bhaggoe, Dirk, Duncker, Antoinette, MaassenVanDenBrink, AH Jan, Danser, Willem, Bax, Jan, Cornel, Anton, Roks	No
Echocardiographic characterization and functional impairment in an ex-vivo perfused rat model of takotsubo syndrome	European Heart Journal	https://academic.oup.com/eurheartj/article/46/Supplement_1/ehaf784.4740/8309726	2025	A, Nejat, E R M I R, Zulfaj, Y A L D A, Kakaei, A H M E D, Elmahdy, A A R O N, Shekka Espinosa, P Y L O V A, Tetiana, S, Valentina, M A N A, Kalani, A, Hamiid, A, Jha, Björn, Redfors, E L M I R, Omerovic	No
He has been a Researcher with the Cardiovascular Imaging Research Laboratory	J. P. Salvas received B.S. and M.S. degrees in biomedical engineering from Purdue University	https://doi.org/10.1113/P289361#support-information-section	2025	John P, Salvas, Thomas, Moore-Morris, Craig J, Goergen, Pierre, Sicard	No
Effect of Antihypertensive Losartan on Ca²⁺ Mobilization in the Aorta of Middle-Aged Spontaneously Hypertensive Female Rats		https://creativecommons.org/licenses/by/4.0/	2025	Swasti, Rastogi, Jessica, Liaw, Yingnan, Zhai, Tatiana, Karpova, Linxia, Gu, Kenia, Nunes	No
Extracellular RNA as a molecular driver and therapeutic target in abdominal aortic aneurysms	Scientific Reports		2025	Nahla, Ibrahim, Hubert, Hayden, Gabriel, Kurzreiter, Johannes, Klopff, Sonja, Bleichert, Tyler, Artner, Alexander, Stiglbauer-Tscholakoff, Wolf, Eilenberg, Christoph, Neumayer, Christine, Brostjan	No
Loss of ADAM17 in smooth muscle cells enhances their transformation to macrophage-like cells leading to more severe atherosclerosis in mice	Atherosclerosis		2025	Ilamaran, Meganathan, Tolga, Kilic, Razoan, Al Rimon, Tushar, Naiya, Vidhya, Krishnan, Nikki, Atanasova, Anthony, Wong, Gavin Y., Oudit, Slava, Epelman, Zamaneh, Kassiri	No
The transcription factor RBPI is required for inflammatory macrophage activation in thoracic aortic dissection by mediating mechanotransduction-induced glycolysis	Cellular and Molecular Life Sciences		2025	Zhi Qiang, Yin, Ting, Wen, Xiu Li, Cao, Zhao Xia, Lv, Yang, Su, Liang, Liang, Pei Ran, Zhang, Zi Yan, Yang, Hua, Han, Xian Chun, Yan, Qi Jun, Zheng	No
Prenatal paroxetine dysregulates monoamine homeostasis and affects placental hemodynamics in the rat fetoplacental unit	Biomedicine and Pharmacotherapy		2025	Hana, Horackova, Ivana, Musilova-Kacerovska, Cilia, Abad, Rona, Karahoda, Veronika, Vachalova, Ramon, Portillo, Mireia, Viñas-Noguera, Kasin, Yadunandam, Daniel, Heblík, Eva, Cifkova, Miroslav, Lisa, Martin, Sterba, Jaroslav, Stranik, Alexandre, Bonnin, Frantisek, Staud	No
Engineered cyclic peptide targeting ITGA5 disrupts tumor-stroma interaction to overcome desmoplasia and resistance in pancreatic ductal adenocarcinoma	Acta Pharmaceutica Sinica B		2025	Deby Fajar, Mardhian, Kunal P., Pednekar, Ahmed G., Hemdan, Praneeth Reddy, Kuninty, Saadia A., Karim, Sabine, de Winter, Josbert M., Metselaar, Jennifer P., Morton, Jai, Prakash	No
Double gene overexpression of ZNF746 and cellular prion protein in rat adipose-derived mesenchymal stromal cell therapy protects the liver against ischemia-reperfusion injury	Cell Transplantation		2025	Sheung Fat, Ko, Chi Rueil, Huang, John Y., Chiang, Yi Ling, Chen, Hon Kan, Yip	No

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Application of ultrasound in assessment of acute lung injury in mice	PLOS One		2025	An-Xia, Deng, Ling, Zhao, Amanguli, Ruze, Qiu-Lin, Li, Bang-Hao, Zhao, Su, Hu, Min-Tao, Gai, Hong-Li, Wang, Qiao-Ling, Yao, Xiao-Ming, Gao	No
Plasminogen Activator Inhibitor-1 promotes aortic aging-1 like pathophysiology in humans and mice				Alireza, Khoddam, Anthony, Kalousdian, Mesut, Eren, Saul, Soberanes, Andrew, Decker, Elizabeth J, Lux, Benjamin W, Zywicki, Brian, Dinh, Bedirhan, Boztepe, Bajlsh S, Cheema, Carla M, Cuda, Hiam, Abdala-Valencia, Arun, Sivakumar, Toshio, Miyata, Lisa D, Wilsbacher, Douglas E, Vaughan	No
Hepatic BMAL1 and HIF1α regulate a time-dependent hypoxic response and prevent hepatopulmonary-like syndrome	Cell Metabolism		2024	Vaishnavi, Dandavate, Nityanand, Bolshette, Rachel, Van Drunen, Gal, Manella, Hanna, Bueno-Levy, Mirie, Zerbib, Ippei, Kawano, Marina, Golik, Yaarit, Adamovich, Gad, Asher	No
Spleen-liver dual accumulation of ly6c^{low}Exo potentiates synergistic immune modulation for liver fibrosis therapy	Nano Today		2024	Jinghui, Wang, Rongrong, Jia, Wei, Wei, Mingli, Hu, Feng, Li, Wenjing, Wang, Peng, Ye, Jiawei, Zhao, Ling, Xu, Shuang, Wang, Yugang, Wang, Min, Shi, Guanghui, Ma	No
Automatic Segmentation for Analysis of Murine Cardiac Ultrasound and Photoacoustic Image Data Using Deep Learning	Ultrasound in Medicine and Biology		2024	Katherine A., Leyba, Hayley, Chan, Olivia, Loesch, Salomé, Belec, Pierre, Sicard, Craig J., Goergen	No
Redox-Sensitive Poly(lactic-co-glycolic acid) Nanoparticles of Palbociclib: Development, Ultrasound/Photoacoustic Imaging, and Smart Breast Cancer Therapy	Molecular Pharmaceutics		2024	Piyush, Dharnija, Abhishesh Kumar, Mehata, Rupen, Tamang, Jyoti, Bonlawar, None, Vaishali, Ankit Kumar, Malik, Aseem, Setia, Shailendra, Kumar, Ranadheer Reddy, Challa, Biplob, Koch, Madaswamy S., Muthu	No
In Vivo Combined Photoacoustic Imaging and Photothermal Treatment of HPV-Negative Head and Neck Carcinoma with NIR-Responsive Non-Persistent Plasmon Nano-Architectures	Advanced Therapeutics		2024	Valentina, Frusca, Chiara, Cavallini, Agata, Zamborlin, Giuliana, Drava, Virginia, Barone, Lisa, Gherardini, Mario, Chiariello, Paolo, Armanetti, Maria Laura, Ermini, Luca, Menichetti, Valerio, Voliani	No
Influence of Phase Change Droplet Activation and Microbubble Cavitation on the Microenvironment of Hepatocellular Carcinoma	Ultrasound in Medicine and Biology		2024	Hebah A., Falatah, Quezia, Lacerda, Corinne E., Wessner, Standley, Lo, Margaret A., Wheatley, Ji Bin, Liu, John R., Eisenbrey	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, Sparreliid, 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

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Derivation of ultrasound and electrocardiogram cardiac reference ranges for Mus musculus using the collaborative cross and identification of new cardiac models	BMC Cardiovascular Disorders	https://bmccardiovascdisord.biomedcentral.com/articles/10.1186/s12872-025-05156...	2025	Julia L., Popp, Krishna, Patel, Danila, Cuomo, Rachel M., Lynch, Steve W., Leung, Brian R., Berridge, Ivan, Rusyn, Weihsueh A., Chiu, David W., Threadgill	No
Exercise sensitizes the pressure diuresis response: shifting immune landscapes may underlie renal adaptations	American journal of physiology. Renal physiology		2025	Steven P., Jones, Nathan, O'Leary, Ernesto, Pena Calderin, Richa, Singhal, Jason, Hellmann, Celio, Damacena de Angelis, Kenneth R., Brittian, Paul A., Welling, Yibing, Nong, Sophia M., Sears	No
Targeting USP21 to inhibit abdominal aortic aneurysm progression by suppressing the phenotypic transition of vascular smooth muscle cells	Cell Reports Medicine	https://linkinghub.elsevier.com/retrieve/pii/S266637912500401X	2025	Huidan, Zhang, Hongwei, Yue, Yijun, Sun, Guangqi, Sun, Kehui, Yang, Tangxing, Jiang, Sumei, Cui, Yang, Liu, Yunyun, Guo, Wencheng, Zhang, Cheng, Zhang, Yuguo, Chen, Feng, Xu	No
Targeting STING to disrupt macrophage-mediated adhesion in encapsulating peritoneal sclerosis	Communications Biology		2025	Juan, Sun, Yuxiang, Sun, Dandan, Guo, Huolin, Ye, Qiang, Huang, Hu, Zhou, Canming, Li, Mei, Liao, Yujia, You, Hongli, Shang, Pan, Zhou, Dongxuan, Wu, Janusz, Witowski, Zhaoyong, Hu, Hui, Peng	No
Comparative analysis of ALA mediated sonodynamic therapy considering tumor size, light combination and ultrasound delivery in murine cutaneous melanoma	Scientific Reports		2025	Erika Toneth Ponce, Ayala, Iago Silva e., Carvalho, Camila Aparecida, Antunes, Aisha, Mahmood, Michelle Barreto, Requena, Fernanda, Alves, Layla, Pires, Vladislav, Yakovlev, Vanderlei Salvador, Bagnato, Sebastião, Pratavieira	No
Wild-type and engineered adeno-associated viral vectors produce comparable opsin expression and light-evoked responses in rat skeletal muscle	Molecular Therapy Methods and Clinical Development		2025	Fiona L., Knapman, E. Myfanwy, Cohen, Tom, Kulaga, Nigel H., Lovell, Leszek, Lisowski, Peter G.R., Burke, Lynne E., Bilston	No
PGC1α regulates the mitochondrial metabolism response to cyclic stretch, which inhibits neointimal hyperplasia	Cellular and Molecular Life Sciences	https://link.springer.com/10.1007/s00018-025-05790-x	2025	Minwen, Zou, Kaichuang, Ye, Jing, Yan, Shoumin, Zhang, Han, Bao, Zhiyin, Li, Yuting, Tao, Xing, Zhang, Wenhao, Tian, Yingxin, Qi, Yunlong, Huo, Yue, Han	No
Xianglian Pill combined with 5-fluorouracil enhances antitumor activity and reduces gastrointestinal toxicity in gastric cancer by regulating the p38 MAPK/NF-κB signaling pathway	Journal of Ethnopharmacology		2024	Lei, Yu, Jun yuan, Qin, Chen, Sun, Fu, Peng, Yan, Chen, Su juan, Wang, Jun, Tang, Zi Wei, Lin, Liu jun, Wu, Jing, Li, Xiao yu, Cao, Wen qing, Li, Xiao fang, Xie, Cheng, Peng	No
A Novel Rat Model of Mild Pulmonary Hypertension Associated with Pulmonary Venous Congestion Induced by Left Pulmonary Vein Banding	International Journal of Molecular Sciences		2024	Jonas, Münks, Athiththan, Yogeswaran, Tobiah Kevin, Antoine, Leonhard Anton, Blumrich, Peter, Dorfmueller, Hossein Ardeschir, Ghofrani, Birgit, Assmus, Ralph Theo, Schermuly, Akylbek, Sydykov	No
Nanofibers of N,N,N-trimethyl chitosan capped bimetallic nanoparticles: Preparation, characterization, wound dressing and in vivo treatment of MDR microbial infection and tracking by optical and photoacoustic imaging	International Journal of Biological Macromolecules		2024	Ankit Kumar, Malik, Chandrashekhar, Singh, Punit, Tiwari, Dipti, Verma, Abhishesh Kumar, Mehata, Vikas, Aseem, Setia, Ashim, Mukherjee, Madaswamy S., Muthu	No
Exercise mitigates flow recirculation and activates metabolic transducer SCD1 to catalyze vascular protective metabolites	Sci. Adv	https://www.science.org	2024	Susana, Cavallero, Mehrdad, Roustaei, Sandro, Satta, Jae, Min Cho, Henry, Phan, Kyung, In Baek, Ana M, Blázquez-Medela, Sheila, Gonzalez-Ramos, Khoa, Vu, Seul-Ki, Park, Tomohiro, Yokota, Jennifer, Sumner, Julia J, Mack, Curt D, Sigmund, Srinivasa T, Reddy, Rongsong, Li, Tzung K, Hsiai	No

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Super-Resolution Ultrasound Imaging for Monitoring the Therapeutic Efficacy of a Vascular Disrupting Agent in an Animal Model of Breast Cancer	Journal of Ultrasound in Medicine		2024	Kenneth, Hoyt	No
A SU6668 pure nanoparticle-based eyedrops: toward its high drug Accumulation and Long-time treatment for corneal neovascularization	Journal of Nanobiotechnology		2024	Han, Wu, Jinfa, Ye, Minjie, Zhang, Lingyu, Zhang, Sijie, Lin, Qingjian, Li, Yanbo, Liu, Yun, Han, Caihong, Huang, Yiming, Wu, Yuhang, Cheng, Shundong, Cai, Lang, Ke, Gang, Liu, Wei, Li, Chengchao, Chu	No
Identification of congenital aortic valve malformations in juvenile natriuretic peptide receptor 2-deficient mice using high-frequency ultrasound	American Journal of Physiology - Heart and Circulatory Physiology		2024	Vrushali, Guruji, Yu Qing, Zhou, Mingyi, Tang, Zahra, Mirzaei, Yu, Ding, Malak, Elbatarny, Neda, Latifi, Craig A., Simmons	No
Extracellular Matrix Stiffness-Induced Mechanotransduction of Capillarized Liver Sinusoidal Endothelial Cells	Pharmaceuticals		2024	Qingjuan, Wu, Quanmei, Sun, Qiang, Zhang, Ning, Wang, Wenliang, Lv, Dong, Han	No
Durable lymph-node expansion is associated with the efficacy of therapeutic vaccination	Nature Biomedical Engineering		2024	Alexander J., Najibi, Ryan S., Lane, Miguel C., Sobral, Giovanni, Bovone, Shawn, Kang, Benjamin R., Freedman, Joel, Gutierrez Estupinan, Alberto, Elosegui-Artola, Christina M., Tringides, Maxence O., Dellacherie, Katherine, Williams, Hamza, Ijaz, Sören, Müller, Shannon J., Turley, David J., Mooney	No
Riboflavin-targeted polymers improve tolerance of paclitaxel while maintaining therapeutic efficacy	Nanomedicine: Nanotechnology, Biology, and Medicine		2024	Millita, Darguzyte, Elena, Rama, Anne, Rix, Jasmin, Baier, Juliane, Hermann, Sima, Rezvantabol, Mohammad, Khedri, Joachim, Jankowski, Fabian, Kiessling	No
Dynamic injectable tissue adhesives with strong adhesion and rapid self-healing for regeneration of large muscle injury	Biomaterials		2024	Sungmin, Nam, Junzhe, Lou, Sangmin, Lee, Jan Marc, Kartenbender, David J., Mooney	No
Urotensin II receptor deficiency ameliorates ligation-induced carotid intimal hyperplasia partially through the RhoA-YAP1 pathway	Biochimica et Biophysica Acta - Molecular Basis of Disease		2024	Panpan, Wei, Kangli, Tian, Haole, Liu, Kexin, Li, Naqash, Alam, Daxin, Cheng, Meng, Li, Xue, He, Jia, Guo, Rong, Wang, Weirong, Wang, Liang, Bai, Enqi, Liu, Baohui, Xu, Yankui, Li, Sihai, Zhao	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, Jakob, 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
Effects evaluation of different exercises on subclinical left ventricular dysfunction in obese rats by speckle-tracking echocardiography	Obesity Research and Clinical Practice		2024	Fengli, Tan, Donghui, Tang, Pei, Su, Tianyi, Xu, Yufeng, He, Mengyue, Wang, Daxin, Li, Yangya, Feng	No
Functional and molecular 3D mapping of angiosarcoma tumor using non-invasive laser speckle, hyperspectral, and photoacoustic imaging	Orbit (London)		2024	Magne, Stridh, Ulf, Dahlstrand, Magdalena, Naumovska, Karl, Engelsberg, Bodil, Gesslein, Rafi, Sheikh, Aboma, Merdasa, Malin, Malmjö	No
Photocurable extracellular matrix sealant for cessation of venous hemorrhage	Journal of Biomedical Materials Research - Part B Applied Biomaterials		2024	Luke E., Schepers, Brooke L., Martindale, Alycia G., Berman, Hannah L., Cebull, William, Van Alstine, Sydney E., Hollingshead, Tyler, Novak, Craig J., Goergen	No
Ultrasound imaging guided targeted sonodynamic therapy enhanced by magnetophoretically controlled magnetic microbubbles	International Journal of Pharmaceutics		2024	Yao, Zhu, Gulzira, Arkin, Tianzhen, He, Fengjuan, Guo, Ling, Zhang, Yu, Wu, Paras N., Prasad, Zhongjian, Xie	No

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Irradiation with Carbon Ions Effectively Counteracts Hypoxia-related Radioresistance in a Rat Prostate Carcinoma	International Journal of Radiation Oncology Biology Physics		2024	Christin, Glowa, Alina L., Bendinger, Rosemarie, Euler-Lange, Peter, Peschke, Stephan, Brons, Jürgen, Debus, Christian P., Karger	No
A highly selective mPGES-1 inhibitor to block abdominal aortic aneurysm progression in the angiotensin mouse model	Scientific Reports		2024	Lauren M., Weaver, Madeline J., Stewart, Kai, Ding, Charles D., Loftin, Fang, Zheng, Chang Guo, Zhan	No
Targeted opening of the blood-brain barrier using VCAM-1 functionalised microbubbles and "whole brain" ultrasound	Theranostics		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		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
Site-specific genetic and functional signatures of aortic endothelial cells at aneurysm predilection sites in healthy and AngII ApoE-/- mice	Angiogenesis		2024	Alexander, Brückner, Adrian, Brandtner, Sarah, Rieck, Michaela, Matthey, Caroline, Geisen, Benedikt, Fels, Marta, Stei, Kristina, Kusche-Vihrog, Bernd K., Fleischmann, Daniela, Wenzel	No
Topographic modification of the extracellular matrix precedes the onset of bladder cancer	Matrix Biology Plus		2024	Chiara, Venegoni, Filippo, Pederzoli, Irene, Locatelli, Elisa, Alchera, Laura, Martinez-Vidal, Alessia, Di Coste, Marco, Bandini, Andrea, Necchi, Francesco, Montorsi, Andrea, Salonia, Marco, Moschini, Jithin, Jose, Federico, Scarfò, Roberta, Lucianò, Massimo, Alfano	No
Nucleotide metabolism in cancer cells fuels a UDP-driven macrophage cross-talk, promoting immunosuppression and immunotherapy resistance	Nature Cancer		2024	Tommaso, Scolaro, Marta, Manco, Mathieu, Pecqueux, Ricardo, Amorim, Rosa, Trotta, Heleen H., Van Acker, Matthias, Van Haele, Niranjan, Shirgaonkar, Stefan, Naulaerts, Jan, Daniluk, Fran, Prenen, Chiara, Varamo, Donatella, Ponti, Ginevra, Doglioni, Ana Margarida, Ferreira Campos, Juan, Fernandez Garcia, Silvia, Radenkovic, Pegah, Rouhi, Aleksandar, Beatovic, Liwei, Wang, Yu, Wang, Amalia, Tzoumpa, Asier, Antoranz, Ara, Sargsian, Mario, Di Matteo, Emanuele, Berardi, Jermaine, Goveia, Bart, Ghesquière, Tania, Roskams, Stefaan, Soenen, Thomas, Voets, Bella, Manshian, Sarah Maria, Fendt, Peter, Carmeliet, Abhishek D., Garg, Ramanuj, DasGupta, Baki, Topal, Massimiliano, Mazzone	No
Contrast enhanced photoacoustic detection of fibrillar collagen in the near infrared region-I	Nanoscale Advances		2024	Inna, Solomonov, Irene, Locatelli, Silvia, Tortorella, Manu, Unni, Shay Lee, Aharoni, Elisa, Alchera, Erica, Locatelli, Mirko, Maturi, Chiara, Venegoni, Roberta, Lucianò, Andrea, Salonia, Angelo, Corti, Flavio, Curnis, Valeria, Grasso, Gayathri, Malamal, Jithin, Jose, Mauro, Comes Franchini, Irit, Sagi, Massimo, Alfano	No

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Berberine ameliorates vascular dysfunction by downregulating TMAO-endoplasmic reticulum stress pathway via gut microbiota in hypertension	Microbiological Research		2024	Zhichao, Wang, Yijia, Shao, Fang, Wu, Dangu, Luo, Guoyifan, He, Jianwen, Liang, Xiaoqing, Quan, Xiehui, Chen, Wenhao, Xia, Ye, Chen, Yue, Liu, Long, Chen	No
Scaffold-Forming Collagen and Motor-Endplate Expressing Muscle Cells for Porcine Laryngoplasty	Laryngoscope		2024	Elizabeth O., Shay, Rachel A., Morrison, Lujuan, Zhang, Samuel L., Kaefer, Troy, Wesson, Abigail, Cox, Sherry L., Voytik-Harbin, Stacey, Halum	No
Impact of bradykinin type 2 receptor overexpression on cardiovascular function in mice	Biochemical Pharmacology		2025	Sara, Metry, Tatsiana, Suvorova, Jens W., Fischer, Vu Thao Vi, Dao, Georg, Kojda	No
RNA nanotherapeutics with fibrosis overexpression and retention for MASH treatment	Nature Communications		2024	Xinzhu, Shan, Zhiqiang, Zhao, Pingping, Lai, Yuxiu, Liu, Buyao, Li, Yubin, Ke, Hanqiu, Jiang, Yilong, Zhou, Wenzhe, Li, Qian, Wang, Pengxia, Qin, Yizhe, Xue, Zihan, Zhang, Chenlong, Wei, Bin, Ma, Wei, Liu, Cong, Luo, Xueguang, Lu, Jiaqi, Lin, Li, Shu, Yin, Jie, Xunde, Xian, Derfogail, Delcassian, Yifan, Ge, Lei, Miao	No
The paravertebral lymphatic system is involved in the resorption of the herniated nucleus pulposus and the regression of inflammation associated with disc herniation	Osteoarthritis and Cartilage		2024	Yuanfei, Fu, Zhiming, Lan, Ning, Li, Lianping, Xing, Luying, Yuan, Juyi, Lai, Hualong, Feng, Lin, Cong, Yongjun, Wang, Shenghua, He, Qianqian, Liang	No
Fluorescence and photoacoustic (FL/PA) dual-modal probe: Responsive to reactive oxygen species (ROS) for atherosclerotic plaque imaging	Biomaterials		2025	Qianqian, Yu, Yi, Duan, Nian, Liu, Zhirong, Zhu, Ying, Sun, Haojian, Yang, Yiqi, Shi, Xiangyu, Li, Wei Hong, Zhu, Lixin, Wang, Qi, Wang	No
Positive feedback loop PU.1-IL9 in Th9 promotes rheumatoid arthritis development	Annals of the Rheumatic Diseases		2024	Jiajie, Tu, Weile, Chen, Wei, Huang, Xinming, Wang, Yilong, Fang, Xuming, Wu, Huiru, Zhang, Chong, Liu, Xuewen, Tan, Xiangling, Zhu, Huihui, Wang, Dafei, Han, Yizhao, Chen, Anqi, Wang, Yuanyuan, Zhou, Zimeng, Xue, Hui, Xue, Shangxue, Yan, Lingling, Zhang, Zhenbao, Li, Chunlan, Yang, Yujie, Deng, Shihao, Zhang, Chen, Zhu, Wei, Wei	No
Targeting endothelial KCa channels in vivo restores arterial and endothelial function in type 2 diabetic rats	Metabolism: Clinical and Experimental		2024	Ramesh C., Mishra, Darrell D., Belke, Latika, Singh, Heike, Wulff, Andrew P., Braun	No
PEDF-Enriched Extracellular Vesicle for Vessel Normalization to Potentiate Immune Checkpoint Blockade Therapy	Biomaterials Research		2024	Sol, Shin, Chan Ho, Kim, Soyoun, Son, Jae Ah, Lee, Seunglee, Kwon, Dong Gil, You, Jungmi, Lee, Jeongyun, Kim, Dong Gyu, Jo, Hyewon, Ko, Jae Hyung, Park	No
Induction and characterization of a rat model of endometriosis	Scientific Reports		2024	Jayhind Kumar, Chauhan, Pawan K., Dubey, Sangeeta, Rai, Anima, Tripathi	No
Deep learning enables accurate soft tissue tendon deformation estimation in vivo via ultrasound imaging	Scientific Reports		2024	Reece D., Huff, Frederick, Houghton, Conner C., Earl, Elnaz, Ghajar-Rahimi, Ishan, Dogra, Denny, Yu, Carisa, Harris-Adamson, Craig J., Goergen, Grace D., O'Connell	No
Minimally invasive soft tissue repair using shrunken scaffolds	Nature Communications		2024	Mingjun, Xie, Shengxi, Jin, Kang, Yu, Hui, Lin, Yong, He	No
Photoacoustic imaging of a cyanine dye targeting bacterial infection	Scientific Reports		2024	Rowan, Swann, Daniel, Hernández-Valdés, Luis Rafael, Silva, Yusra Mahmood, Marfatia, Mohamed E., El-Zaria, Afaf R., Genady, Jacek M., Kwiecien, John F., Valliant, Saman, Sadeghi	No

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Pan-lysyl oxidase inhibition disrupts fibroinflammatory tumor stroma, rendering cholangiocarcinoma susceptible to chemotherapy	Hepatology Communications		2024	Paul R., Burchard, Luis I., Ruffolo, Nicholas A., Ullman, Benjamin S., Dale, Yatee A., Dave, Bailey K., Hilty, Jian, Ye, Mary, Georger, Rachel, Jewell, Christine, Miller, Luis, De Las Casas, Wolfgang, Jarolimek, Lara, Perryman, Matthew M., Byrne, Anthony, Loria, Chelsea, Marin, Mariana Chávez, Villa, Jen Jen, Yeh, Brian A., Belt, David C., Linehan, Roberto, Hernandez-Alejandro	No
Rosiglitazone and trametinib exhibit potent anti-tumor activity in a mouse model of muscle invasive bladder cancer	Nature Communications		2024	Sakina A., Plumber, Tiffany, Tate, Hikmat, Al-Ahmadie, Xiao, Chen, Woonyoung, Choi, Merve, Basar, Chao, Lu, Aaron, Viny, Ekatherina, Batourina, Jiaqi, Li, Kristjan, Gretarsson, Besmira, Alija, Andrei, Molotkov, Gregory, Wiessner, Byron Hing Lung, Lee, James, McKiernan, David J., McConkey, Colin, Dinney, Bogdan, Czerniak, Cathy Lee, Mendelsohn	No
19F MRI/CEUS Dual Imaging-Guided Sonodynamic Therapy Enhances Immune Checkpoint Blockade in Triple-Negative Breast Cancer	Advanced Science		2024	Qiu, Chen, Hong, Xiao, Lijun, Hu, Yongquan, Huang, Zhong, Cao, Xintao, Shuai, Zhongzhen, Su	No
Effects of moderate doses of ionizing radiation on experimental abdominal aortic aneurysm	PLoS ONE		2024	Goran, Riaz, Chloe, Brizais, Imene, Garali, Rida, Al-Rifai, Helene, Quelquejay, Virginie, Monceau, Guillaume, Vares, Lea, Ould-Boukhitine, Damien, Aubeleau, Florian, Gilain, Celine, Gloaguen, Morgane Dos, Santos, Hafid, Ait-Oufella, Teni, Ebrahimian	No
Pre-transplant kidney quality evaluation using photoacoustic imaging during normothermic machine perfusion	Photoacoustics		2024	Anton V., Nikolaev, Yitian, Fang, Jeroen, Essers, Kranthi M., Panth, Gisela, Ambagtsheer, Marian C., Claassen-van Groningen, Robert C., Minnee, Gijs, van Soest, Ron W.F., de Bruin	No
Aminolysis-mediated single-step surface functionalization of poly (butyl cyanoacrylate) microbubbles for ultrasound molecular imaging	Journal of Nanobiotechnology		2024	Junlin, Chen, Bi, Wang, Anshuman, Dasgupta, Céline, Porte, Lisa, Eckardt, Jinwei, Qi, Marek, Weiler, Twan, Lammers, Anne, Rix, Yang, Shi, Fabian, Kiessling	No
Enhancing thymic function improves T-cell reconstitution and immune responses in aged mice	PLOS Biology		2025	Abigail, Morales-Sánchez, Marieke, Lavaert, Melanie S., Vacchio, Gustavo Ulises, Martinez-Ruiz, Daniel, Egbase, Yongge, Zhao, Ross, Lake, Masaki, Ishikawa, Fatima Zohra, Braikia, Dragana, Jankovic, Ranjan, Sen, Rémy, Bosselut, Avinash, Bhandoola, Jennifer E., Cowan	No
Multimodal ultrasound imaging of a rat model with ischemic heart failure and its relationship to histopathology	American Journal of Translational Research		2024	Qiufang, Ouyang	No
STING Promotes the Progression of ADPKD by Regulating Mitochondrial Function, Inflammation, Fibrosis, and Apoptosis	Biomolecules		2024	Jiao, Wu, Shasha, Cheng, Geoffray, Lee, Ewud, Agborbesong, Xiaoyan, Li, Xia, Zhou, Xiaogang, Li	No
Physics-Informed Graph Neural Networks to solve 1-D equations of blood flow	Computer Methods and Programs in Biomedicine		2024	Ahmet, Sen, Elnaz, Ghajar-Rahimi, Miquel, Aguirre, Laurent, Navarro, Craig J., Goergen, Stephane, Avril	No

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Novel Metal-Free Nanozyme for Targeted Imaging and Inhibition of Atherosclerosis via Macrophage Autophagy Activation to Prevent Vulnerable Plaque Formation and Rupture	ACS Applied Materials and Interfaces		2024	Lingjie, Wang, Xiaoqian, Zhang, Hongrong, Zhang, Xiaozhe, Wang, Xiaofeng, Ren, Wei, Bian, Caiyun, Shi, Jingying, Wang, Liping, Li, Ruiping, Zhang, Hua, Zhang	No
High-frequency ultrasound for assessing the renal characteristics of spontaneous type 2 diabetes mellitus db/db mice	Experimental Animals		2025	Jiazhi, Cao, Hao, Feng, Lutong, Li, Wenwu, Ling, Hong, Wang	No
Exosomal miR-155-5p promote the occurrence of carotid atherosclerosis	Journal of Cellular and Molecular Medicine		2024	Wen Wen, Yang, Qing Xiang, Li, Fei, Wang, Xin Ran, Zhang, Xian Li, Zhang, Meng, Wang, Dong, Xue, Ying, Zhao, Lu, Tang	No
Hydrogen sulfide attenuates disturbed flow-induced vascular remodeling by inhibiting LDHB-mediated autophagic flux	Redox Biology		2025	Xia, Wang, Xiying, Huang, Yongya, Zhang, Huanhuan, Huo, Guo, Zhou, Linghong, Shen, Long, Li, Ben, He	No
Identification of the Vulnerability of Atherosclerotic Plaques by a Photoacoustic/Ultrasonic Dual-Modal cRGD Nanomolecular Probe	International Journal of Nanomedicine		2024	Caigui, Yu, Lu, Zhong, Yanxiang, Zhou, Nan, Jiang, Jinling, Chen, Sheng, Cao	No
Endometriosis development in relation to hypoxia: a murine model study	Molecular Medicine		2024	Marta, Hoffmann-Mlodzianowska, Radoslaw B., Maksym, Katarzyna, Pucia, Monika, Kuciak, Andrzej, Mackiewicz, Claudine, Kieda	No
Quantitative lung ultrasound findings correlate with radial alveolar count in experimental bronchopulmonary dysplasia	Ultrasound Journal		2024	Chiara, Catozzi, Angelo, Modena, Matteo, Storti, Francesca, Ricci, Gino, Villetti, Daniele, De Luca	No
Oncogenic properties of wild-type DNA repair gene FANCA in breast cancer	Cell Reports		2025	Liang, Luo, Fenghua, Yuan, Anna, Palovcak, Fang, Li, Qingqi, Yuan, Daniel, Calkins, Zoe, Manalo, Yan, Li, Dazhi, Wang, Mike, Zhou, Catherine, Zhou, Matthew, Li, Yuan De, Tan, Feng, Bai, Yuguang, Ban, Christian, Mason, Evan, Roberts, Daniel, Bilbao, Zhao Jun, Liu, Karoline, Briegel, Scott M., Welford, Xin Hai, Pei, Sylvia, Daunert, Wenjun, Liu, Yanbin, Zhang	No
Self-aggregating long-acting injectable microcrystals	Nature Chemical Engineering		2025	Vivian R., Feig, Sanghyun, Park, Pier Giuseppe, Rivano, Jinhee, Kim, Benjamin, Muller, Ashka, Patel, Caroline, Dial, Sofia, Gonzalez, Hannah, Carlisle, Flavia, Codreanu, Aaron, Lopes, Ayten E., Erdogan, Niora, Fabian, Ashley, Guevara, Andrew, Pettinari, Jason, Li, Jia, Liang, Gary W., Liu, Mark W., Tibbitt, Giovanni, Traverso	No
Antisense mediated blockade of Dickkopf 1 attenuates tumor survival, metastases and bone damage in experimental osteosarcoma	Scientific Reports		2025	Andrew, Haskell, Simin, Pan, Robert, Reese, Anthony, Powers, Megan G., Lopez, Sebastian, Lomeli, Christopher, Story, Joshua, Benton, J. Chris, Blazier, Roland, Kaunas, Carl A., Gregory	No
The GLP-1R agonist semaglutide reshapes pancreatic cancer associated fibroblasts reducing collagen proline hydroxylation and favoring T lymphocyte infiltration	Journal of Experimental and Clinical Cancer Research		2025	Chiara, Cencioni, Silvia, Malatesta, Virginia, Vigiano Benedetti, Valerio, Licursi, Livia, Perfetto, Federica, Conte, Danilo, Ranieri, Armando, Bartolazzi, Martina, Kunkl, Loretta, Tuosto, Alberto, Larghi, Geny, Piro, Antonio, Agostini, Giampaolo, Tortora, Vincenzo, Corbo, Carmine, Carbone, Francesco, Spallotta	No

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Local characterization of collagen architecture and mechanical properties of tissue engineered atherosclerotic plaque cap analogs	Acta Biomaterialia		2025	Hanneke, Crielard, Tamar B., Wissing, Su, Guvenir Torun, Gert Jan, Kremers, Pablo, de Miguel, Ramadusha M., Hengst, Frank J.H., Gijzen, Ali C., Akyildiz, Kim, van der Heiden	No
Non-invasive estimation of left ventricular chamber stiffness using cardiovascular magnetic resonance and echocardiography	Journal of Cardiovascular Magnetic Resonance		2025	Ida Marie, Hauge-Iversen, Einar S., Nordén, Arne Olav, Melleby, Linn, Espeland, Lili, Zhang, Ivar, Sjaastad, Emil Knut Stenersen, Espe	No
MARCH5 ameliorates aortic valve calcification via RACGAP1-DRP1 associated mitochondrial quality control	Biochimica et Biophysica Acta - Molecular Cell Research		2025	Jialiang, Zhang, Yaoyu, Zhang, Wenhua, Lei, Jing, Zhou, Yanjian, Xu, Zhou, Hao, Yanbiao, Liao, Fangyang, Huang, Mao, Chen	No
Steatohepatitis-induced vascular niche alterations promote melanoma metastasis	Cancer & Metabolism		2025	Johannes, Hoffmann, Julia, Schüler, Bianca, Dietsch, Sina Wietje, Kürschner-Zacharias, Carsten, Sticht, Felix A., Trogisch, Maren, Schreitmüller, Tinja, Baljkas, Kai, Schledzewski, Manuel, Reinhart, Sebastian A., Wohlfeil, Manuel, Winkler, Christian David, Schmid, Joerg, Heineke, Cyrill, Géraud, Sergij, Goerd, Philipp-Sebastian, Reiners-Koch, Victor, Olsavszky	No
Biomimetic nanostructural materials based on placental amniotic membrane-derived nanofibers for self-healing and anti-adhesion during cesarean section	Biomaterials		2025	Honglei, Zhu, Fenghua, Liu, Yuru, Liao, Huayan, Li, Kunjie, Gao, Xiaomei, Liang, Haoyuan, Jiang, Feng, Chen, Jianwei, Wu, Qian, Wang, Yifeng, Wang, Xintao, Shuai, Xiao, Yi	No
Fractionated low-dose radiotherapy primes the tumor microenvironment for immunotherapy in a murine mesothelioma model	Cancer Immunology, Immunotherapy		2025	Rebecca A., D'Alonzo, Synat, Keam, Suki, Gill, Pejman, Rowshanfarzad, Anna K., Nowak, Martin A., Ebert, Alistair M., Cook	No
Limiting serine availability during tumor progression promotes muscle wasting in cancer cachexia	Cell Death Discovery		2024	Erica, Pranzini, Livio, Muccillo, Ilaria, Nesi, Alice, Santi, Caterina, Mancini, Giulia, Lori, Massimo, Genovese, Tiziano, Lottini, Giuseppina, Comito, Anna, Caselli, Annarosa, Arcangeli, Lina, Sabatino, Vittorio, Colantuoni, Maria Letizia, Taddei, Paolo, Cirri, Paolo, Paoli	No
Ablation of Hepatic Asah1 Gene Disrupts Hepatic Lipid Homeostasis and Promotes Fibrotic Nonalcoholic Steatohepatitis in Mice	American Journal of Pathology		2025	Rui, Zuo, Mi, Wang, Yun Ting, Wang, Yang Ping, ShenTu, Alexandra K., Moura, Ying, Zhou, Kiana, Roudbari, Jenny Z., Hu, Pin Lan, Li, Jiu Kuan, Hao, Xiang, Li, Yang, Zhang	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
Serotonin 3 receptor antagonism reduces angiotensin II-induced abdominal aortic aneurysms: Contribution of periaortic fat-derived serotonin	Journal of Pharmacology and Experimental Therapeutics		2025	Yasir, AlSiraj, Charles M., Ensor, Victoria, English, Analia, Loria, Heba, Ali, Lisa A., Cassis	No
Gold nanomaterials capped with bovine serum albumin for cell and extracellular vesicle imaging	Nanotechnology		2025	Re Wen, Wu, Yu Han, Lin, Cheng Hsiu, Lu, Chia Hao, Su, Yu Shan, Chen, Feng Sheng, Wang, Wei Shiung, Lian	No
Endogenous C-type natriuretic peptide offsets the pathogenesis of steatohepatitis, hepatic fibrosis, and portal hypertension	PNAS Nexus		2025	Cristina, Perez-Ternero, Wenhao, Li, Aisah A., Aubdool, Robert D., Goldin, John, Loy, Kalpana, Devalia, William, Alazawi, Adrian J., Hobbs	No

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Low-Intensity Focused Ultrasound-Responsive, Phase-Change Nanodroplets to Remodel Macrophage Polarization and Enhance PD-L1 Blockade Therapy	Small Structures		2025	Qin, Zhang, Ci, Yin, Junjie, Liu, Hua, Yang, Yanping, Zhang, Qiaoxi, Qin, Nianhong, Wu, Rui, Tang, Yuting, Cao, Min, Zheng, Hongye, He, Hongmei, Dong, Yang, Zhou, Jianli, Ren, Zhengju, Ren, Pan, Li	No
Morphology-dependent near-infrared photothermal activity of plasmonic TiN nanobars and nanospheres for anticancer, antibacterial therapy and deep in vivo photoacoustic imaging	Applied Surface Science Advances		2025	Katerina, Polakova, Sourav, Rej, Sarka, Hradilova, Jan, Belza, Tomas, Malina, Katerina Barton, Tomankova, Renata, Vecerova, Petr, Matous, Petr, Paral, Ariana, Opletalova, Jana, Soukupova, Tomas, Pluhacek, Ludek, Sefc, Radek, Zboril, Stepan, Kment, Alberto, Naldoni	No
Mild and reversible nephrotoxicity following repeated administration of damnacanthal in nude mice	Toxicology Reports	https://linkinghub.elsevier.com/retrieve/pii/S2214750025002069	2025	Noppanan, Kotsaouppara, Thunyatorn, Yimsoo, Worapapar, Treesuppharat, Jeeraphong, Thanongsaksrikul, Potjane, Srimanote	No
Protocol for monitoring intrapulmonary vasodilation in mice using contrast-enhanced echocardiography	STAR Protocols		2025	Nityanand, Bolshette, Hanna, Bueno-Levy, Gad, Asher	No
Pharmacological rescue of mutant p53 triggers spontaneous tumor regression via immune responses	Cell Reports Medicine		2025	Jiabin, Li, Shuang, Zhang, Baohui, Wang, Yuting, Dai, Jiale, Wu, Dianjia, Liu, Ying, Liang, Shujun, Xiao, Zhengyuan, Wang, Jiaqi, Wu, Derun, Zheng, Xueqin, Chen, Fangfang, Shi, Kai, Tan, Xianting, Ding, Huaxin, Song, Sujiang, Zhang, Min, Lu	No
Photoacoustic oxygenation imaging to identify ischemia/hypoxia injury and necrosis of intestine after acute intussusception: A comparative study with CDFI/CEUS	Photoacoustics		2025	Hualin, Yan, Zehui, Gou, Hong, Wang, Xiaoxia, Zhu, Juxian, Liu, Wenwu, Ling, Lin, Huang, Yan, Luo	No
A first-in-human study of quantitative ultrasound to assess transplant kidney fibrosis	Nature Medicine		2025	Eno, Hysi, Jihye, Baek, Alexander, Koven, Xiaolin, He, Luisa, Ulloa Severino, Yiting, Wu, Kendrix, Kek, Shukai, Huang, Adriana, Krizova, Monica, Farcas, Michael, Ordon, Kai Ho, Fok, Robert, Stewart, Kenneth T., Pace, Michael C., Kolios, Kevin J., Parker, Darren A., Yuen	No
From inflammation to remodelling: A novel BASP1+ monocyte subset as a catalyst for acute aortic dissection	Journal of Advanced Research		2025	Wenhui, He, Sanjiu, Yu, Jun, Li, Siyu, Li, Zongtao, Chen, Jingyu, Zhang, Yangwuyue, Liu, Mi, Zhou, Teng, Yang, Wei, Cheng, Shuang Shuang, Dai	No
Gas Vesicle-Assisted Ultrasound Imaging for Effective Anti-Tumour CAR-T Cell Immunotherapy Efficacy in Mice Model	International Journal of Nanomedicine		2025	Yizhen, Huang, Zhao, Yin, Renhao, Xu, Wenyi, Zheng, Qing, Zhang, Meijun, Zhou, Zhili, Xu, Yanni, He, Shuang, Liu, Hongmei, Liu	No

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MLKL activity requires a splicing-regulated, druggable intramolecular interaction	Molecular Cell		2025	Uris, Ros, Veronica, Martinez-Osorio, Pedro A., Valiente, Yasmin, Abdelwahab, Milos, Gojkovic, Raed, Shalaby, Silvia, Zanna, Julia, Saggau, Laurens, Wachsmuth, Harshal N., Nemade, Jonathan, Zoeller, Hannah, Lottermoser, Yu Guang, Chen, Mohamed, Ibrahim, Konstantinos, Kelepouras, Lazaros, Vasilikos, Paula, Bedoya, Rafael A., Espiritu, Stefan, Müller, Veronika, Altmannova, D. Peter, Tieleman, John, Weir, Julian, Langer, Matti, Adam, Henning, Walczak, W. Wei Lynn, Wong, Gianmaria, Liccardi, Martin, Mollenhauer, Manolis, Pasparakis, Nieves, Peltzer, Ana J., García-Sáez	No
Glioblastoma targeting by water-soluble hypericin derivate HHL-PVP and photodynamic tumour killing	Biomedicine and Pharmacotherapy		2025	Djenana, Vejzovic, Andreas, Kubin, Karoline, Fechter, Christina, Karner, Jaana, Hartmann, Thomas, Ackerbauer, Branislav, Radović, Gerald, Ritter, Muammer, Uçal, Stefan, Ropele, Kariem Mahdy, Ali, Mario, Mischkulnig, Marlene, Leoni, Bernadette, Liegl-Atzwanger, Lionel, Wightman, Beate, Rinner	No
Increased Atherosclerosis in HIV-Infected Humanized Mice Is Caused by a Single Viral Protein. Nef	The Journal of Infectious Diseases		2025	Yongsen, Wang, Beda, Brichacek, Larisa, Dubrovsky, Tatiana, Pushkarsky, Kyle, Korolowicz, Olga, Rodriguez, Yichien, Lee, Marta, Catalfamo, Chris, Albanese, Anastas, Popratiloff, Dmitri, Sviridov, Michael, Bukrinsky	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
Mitochondria dysfunction, a potential cytoprotection target against ischemia-reperfusion injury in a mouse stroke model	Neurotherapeutics		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
Two photoacoustic spectral coloring compensation techniques adapted to the context of human in-vivo oxygenation measurements	Biomedical Optics Express		2025	Azin, Khodaverdi, Baptiste, Jayet, Tobias, Erlöv, John, Albinsson, Aboma, Merdasa, Nils, Gustafsson, Rafi, Sheikh, Malin, Malmjö, Stefan, Andersson-Engels, Magnus, Cinthio	No
Methyleugenol alleviates pulmonary vascular remodeling in rats with high-altitude pulmonary hypertension by improving pulmonary smooth muscle cell function	Biomedicine and Pharmacotherapy		2025	Yang, Yu, Yurong, Wang, Ziqi, Yang, Zhanqiang, Li, Dianxiang, Lu, Xingmei, Nan	No
Botulinum toxin (A)-induced bone loss is associated with increased blood velocity and reduced vascular bone porosity	Journal of Bone and Mineral Research		2025	Mahmoud S, Moussa, Taylor, de Vet, Nadine, Lebciur, Paul, Zaslansky, Lorraine E, Chalifour, Bettina M, Willie, Svetlana V, Komarova	No

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Myeloperoxidase impacts vascular function by altering perivascular adipocytes' secretome and phenotype in obesity	Cell Reports Medicine		2025	Alexander, Hof, Max, Landerer, Philipp, Peitsmeyer, Ronja, Herzog, Jens, Alber, Maysam, Ahdab, Felix Sebastian, Nettersheim, Dennis, Mehrkens, Simon, Geißen, Simon, Braumann, Henning, Guthoff, Philipp, von Stein, Harshal, Nemade, Felix Simon Ruben, Picard, Ramona, Braun, Friedrich Felix, Hoyer, Jens Claus, Brüning, Alexander, Pfeifer, Staffan, Hildebrand, Holger, Winkels, Stephan, Baldus, Matti, Adam, Jasper, Schäkel, Martin, Mollenhauer	No
Side-Illuminating Optical Fiber for High-Power-Density-Mediated Intraluminal Photoacoustic Imaging	Applied Sciences (Switzerland)		2025	Nidhi, Singh, Carlos Felipe, Roa, Emmanuel, Chérin, Lothar, Lilge, Christine E.M., Demore	No
C/EBPβ activation in vascular smooth muscle cells promotes hyperlipidemia-induced phenotypic transition and arterial stiffness	Signal Transduction and Targeted Therapy		2025	Jun, Ma, Xiangyu, Yang, Yanan, Li, Xin, Zhang, Kai, Liu, Yong, Peng, Si, Wang, Rufeng, Shi, Xingwei, Huo, Xueting, Liu, Xinran, Li, Runyu, Ye, Zhipeng, Zhang, Changqiang, Yang, Lu, Liu, Dan, Gao, Shanshan, Jia, Lirong, Sun, Xianghao, Zuo, Qingtao, Meng, Xiaoping, Chen	No
Non-destructive in vivo tracking of gelatin hydrogels for advancing tissue engineering	Communications Materials		2025	Kristyna, Kolouchova, Jana, Humajova, Petr, Matous, Nicole, Ritter, Lana, Van Damme, Maria, Hovorakova, Zuzana, Pavlikova, Linda, Dalecka, Klara, Steklíkova, Jan, Zeman, Jan, Kucka, Martin, Hruby, Ondrej, Groborz, Ludek, Sefc, Sandra, Van Vlierberghe	No
Partial hepatectomy accelerates colorectal metastasis by priming an inflammatory premetastatic niche in the liver	Frontiers in Immunology		2024	Jost, Luenstedt, Fabian, Hoving, Reinhild, Feuerstein, Bernhard, Mauerer, Christopher, Berlin, Julian, Rapp, Lisa, Marx, Wilfried, Reichardt, Dominik, von Elverfeldt, Dietrich Alexander, Ruess, Dorothea, Plundrich, Claudia, Laessle, Andreas, Jud, Hannes Philipp, Neeff, Philipp Anton, Holzner, Stefan, Fichtner-Feigl, Rebecca, Kesselring	No
Preclinical evaluation of glycan-targeting monoclonal antibodies for bimodal near-infrared fluorescence and photoacoustic imaging of gastrointestinal cancers	EJNMMI Research		2025	Ruben D., Houvast, Vincent Q., Sier, Maurice, van Duijvenvoorde, Victor M., Baart, Timo, Schomann, Jia Xin, Chua, Mireille, Vankemmelbeke, Lindy G., Durrant, Daniëlle, Krijgsman, Pieter, de Heer, Gert Jan, Hassing, J. Sven D., Mieog, A. Stijn L.P., Crobach, Jacobus, Burggraaf, Peter J.K., Kuppen, Alexander L., Vahrmeijer	No
Development of autonomic innervation at the venous pole of the heart: bridging the gap from mice to human	Journal of Translational Medicine		2025	Fleur, Zwanenburg, Thomas A., Bos, Arend D.J., Ten Harkel, Monique C., Haak, Nathan D., Hahurij, Robert E., Poelmann, Conny J., van Munsteren, Lambertus J., Wisse, Nico A., Blom, Marco C., DeRuiter, Monique R.M., Jongbloed	No
Intravesical YSVd51-GM-CSF virotherapy is superior to BCG in treating bladder cancer in preclinical and translational models	Molecular Therapy Oncology		2025	Lauren, Daniel, Kowry S., Ndiaye, Hugo, Giguère, Léa J., Custeau, Jacob L., Léger, Guillaume, St-Cyr, Nadia Ekindi, Ndongo, Patrick O., Richard, Lee Hwa, Tai	No