Title	Journal	Link	Publication date	References	Top Paper
Ultrasound-based haemodynamic force trajectories in a murine model of reversible pressure overload Corresponding authors	The Journal of Physiology	https://doi.org/10.1113/JP290877#support-information-section	2026	Peyton M, Day, Thomas, Moore-Morris, Craig J, Goergen, Pierre, Sicard, P, Sicard, C J, Goergen	Yes
Ultrasound-based haemodynamic force trajectories in a murine model of reversible pressure overload Corresponding authors	The Journal of Physiology	https://doi.org/10.1113/JP290877#support-information-section	2026	Peyton M, Day, Thomas, Moore-Morris, Craig J, Goergen, Pierre, Sicard, P, Sicard, C J, Goergen	Yes
Photoacoustic Imaging of Muscle Tissue Oxygenation as a Noninvasive Biomarker in Mouse Models of Sickle Cell Disease	Molecular Imaging and Biology	https://doi.org/10.1007/s11307-026-02095-8	2026	Jeffrey, Morin, Megan, Brophy, John, Stansfield, Debra, Pittman, Dinesh, Hirenallur-Shanthappa	Yes
Photoacoustic Imaging of Muscle Tissue Oxygenation as a Noninvasive Biomarker in Mouse Models of Sickle Cell Disease	Molecular Imaging and Biology	https://doi.org/10.1007/s11307-026-02095-8	2026	Jeffrey, Morin, Megan, Brophy, John, Stansfield, Debra, Pittman, Dinesh, Hirenallur-Shanthappa	Yes
Dual-modal photoacoustic and ultrasound imaging for early diagnosis of ovarian torsion and evaluation of long-term tissue hypoxia	Scientific Reports	https://doi.org/10.1038/s41598-025-17381-8	2025	Luting, Zhang, Fan, Meng, Xiaohui, Zu, Li, Luo, Wen, Ling, Youchun, Cai, Suzhen, Dai, Bingbing, Zhai, Guorong, Lyu, Qiumei, Wu	Yes
Dual-modal photoacoustic and ultrasound imaging for early diagnosis of ovarian torsion and evaluation of long-term tissue hypoxia	Scientific Reports	https://doi.org/10.1038/s41598-025-17381-8	2025	Luting, Zhang, Fan, Meng, Xiaohui, Zu, Li, Luo, Wen, Ling, Youchun, Cai, Suzhen, Dai, Bingbing, Zhai, Guorong, Lyu, Qiumei, Wu	Yes
Tumbling Magnetic Microrobots for Targeted In Vivo Drug Delivery in the GI Tract	Advanced Robotics Research	https://doi.org/10.1002/adrr.202500135	2025	Aaron C., Davis, Luis Carlos Sanjuan, Acosta, Shubh P., Mehta, Baiyan, Qi, Yang, Yang, Luis, Solorio, Craig J., Goergen, David J., Cappelleri	Yes
Tumbling Magnetic Microrobots for Targeted In Vivo Drug Delivery in the GI Tract	Advanced Robotics Research	https://doi.org/10.1002/adrr.202500135	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	https://doi.org/10.1016/j.ultrasmedbio.2024.09.003	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
Ultrasound and Microbubble-Induced Reduction of Functional Vasculature Depends on the Microbubble, Tumor Type and Time After Treatment	Ultrasound in Medicine and Biology	https://doi.org/10.1016/j.ultrasmedbio.2024.09.003	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	https://doi.org/10.1111/apha.14277	2025	John P., Salvas, Thomas, Moore-Morris, Craig J., Goergen, Pierre, Sicard	Yes
Left atrial reservoir strain as a predictor of cardiac dysfunction in a murine model of pressure overload	Acta Physiologica	https://doi.org/10.1111/apha.14277	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	https://doi.org/10.1038/s44384-025-00012-x	2025	Andrew, Langley, Allison, Sweeney, Ronak T., Shethia, Brooke, Bednarke, Faizah, Wulandana, Marvin, Xavierselvan, Srivalleesha, Mallidi	Yes
Heterogeneous tumor blood oxygenation dynamics during phototherapy deciphered with real-time label-free photoacoustic imaging	npj Acoustics	https://doi.org/10.1038/s44384-025-00012-x	2025	Andrew, Langley, Allison, Sweeney, Ronak T., Shethia, Brooke, Bednarke, Faizah, Wulandana, Marvin, Xavierselvan, Srivalleesha, Mallidi	Yes

Title	Journal	Link	Publication date	References	Top Paper
In-ovo echocardiography for application in cardiovascular research	Basic Research in Cardiology	https://doi.org/10.1007/s00395-023-00989-0	2023	Niklas, Hegemann, Willem, Bintig, Paul Lennard, Perret, Judith, Rees, Alessandra, Viperino, Britta, Eickholt, Wolfgang M., Kuebler, Michael, Höpfner, Bianca, Nitzsche, Jana, Grune	Yes
In-ovo echocardiography for application in cardiovascular research	Basic Research in Cardiology	https://doi.org/10.1007/s00395-023-00989-0	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	https://doi.org/10.1371/journal.pone.0285434	2023	Guofang, Shen, Kayla, Sanchez, Shirley, Hu, Zhen, Zhao, Lubo, Zhang, Qingyi, Ma	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
Carbon dots-mediated synthesis of gold nanodendrites with extended absorption into NIR-II window for in vivo photothermal therapy	Journal of Nanobiotechnology	https://doi.org/10.1186/s12951-023-01887-2	2023	Guoyong, Liu, Shuxian, Wang, Shumin, Wang, Rongrong, Wu, Hui, Li, Menglei, Zha, Jibin, Song, Yuxin, Yin, Kai, Li, Jing, Mu, Yu, Shi	Yes
Carbon dots-mediated synthesis of gold nanodendrites with extended absorption into NIR-II window for in vivo photothermal therapy	Journal of Nanobiotechnology	https://doi.org/10.1186/s12951-023-01887-2	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.	https://doi.org/doi: 10.1109/TUFFC.2023.3263361	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	https://doi.org/10.3390/biom12020339	2022	Sohei, Ito, Hong S., Lu, Alan, Daugherty, Hisashi, Sawada	Yes
Imaging Techniques for Aortic Aneurysms and Dissections in Mice: Comparisons of Ex Vivo, In Situ, and Ultrasound Approaches	Biomolecules	https://doi.org/10.3390/biom12020339	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	https://doi.org/10.1186/s41747-022-00319-4	2023	Sebastian, Billig, Marc, Hein, Mare, Mechelinck, David, Schumacher, Anna B., Roehl, Dieter, Fuchs, Rafael, Kramann, Moritz, Uhlig	Yes
Comparative assessment of coronary physiology using transthoracic pulsed-wave Doppler and myocardial contrast echocardiography in rats	European radiology experimental	https://doi.org/10.1186/s41747-022-00319-4	2023	Sebastian, Billig, Marc, Hein, Mare, Mechelinck, David, Schumacher, Anna B., Roehl, Dieter, Fuchs, Rafael, Kramann, Moritz, Uhlig	Yes

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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
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
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	Elisa, 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	https://doi.org/10.1088/1361-6560/abeb31	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

Title	Journal	Link	Publication date	References	Top Paper
Machine learning driven contouring of high-frequency four-dimensional cardiac ultrasound data	Applied Sciences (Switzerland)	https://doi.org/10.3390/app11041690	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	https://doi.org/10.1159/000511851	2020	Kazuhisa, Kishi, Noriyuki, Kaji, Yoshiharu, Tsuru, Masatoshi, Hori	Yes
Cysteine depletion induces pancreatic tumor ferroptosis in mice	Science	https://doi.org/10.1126/science.aaw9872	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
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 Duikeren, 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., Mummery, Linda, Smit, Ramon, Arens, Junmin, Li, Hermen S., Overkleeft, 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

Title	Journal	Link	Publication date	References	Top Paper
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/cardiovascres/advance-article/doi/10.1093/cvr/cvaa110/...	2020	Serena, Zacchigna, Alessia, Paldino, Inês, 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, Oliveti, 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
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, Yijen, Wu, Flordeliza, Villanueva, Brett A., Kaufman	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, Yijen, 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
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, Semih E, Bezci, Grace D., O'Connell, Craig J, Goergen	Yes

Title	Journal	Link	Publication date	References	Top Paper
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
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
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	https://doi.org/10.1115/1.4043075	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, Shahrouz, 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., Même, W., Même, 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

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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/cardiovascres/article/113/10/1113/3797838/Lung-ultrasou...	2017	María, Villalba-Orero, Marina M., López-Olañeta, Esther, González-López, Laura, Padrón-Barthe, Jesús M., Gómez-Salinero, 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	https://doi.org/10.1186/s12986-018-0304-9	2018	Guozhen, Cui, Robert C., Martin, Xingkai, Liu, Qianqian, Zheng, Harshul, Pandit, Ping, Zhang, Wei, Li, Yan, Li	Yes
Mechanosensing by β1 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	https://doi.org/10.1038/s41598-017-14759-1	2017	Johannes, Linxweiler, Christina, Körbel, Andreas, Müller, Eva, Jüngel, Roman, Blaheta, Joana, Heinzelmann, 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

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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	https://doi.org/10.14814/phy2.13668	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, Behmenburg, Nina, Hölscher, Ulrich, Flögel, Malte, Kelm, Wolfgang, Kaisers, Rianne, Nederlof, Ragnar, Huhn, Axel, Gödecke	Yes
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	https://doi.org/10.1111/1440-1681.12318	2015	Carla J., Weinheimer, Ling, Lai, Daniel P., Kelly, Attila, Kovacs	Yes
GPR68 Senses Flow and Is Essential for Vascular Physiology	Cell	https://doi.org/10.1016/j.cell.2018.03.076	2018	Jie, Xu, Jayanti, Mathur, Emilie, Vessières, Scott, Hammack, Keiko, Nonomura, Julie, Favre, Linda, Grimaud, Matt, Petrus, Allain, 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	https://doi.org/10.7150/thno.22904	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/doifinder/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, Rodriguez, 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

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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
Trophoblast-derived extracellular vesicles elicit long-term 3 effects on maternal cardiovascular function in a 4 postpartum model of chronic hypertension		https://doi.org/10.1152/ajpheart.00508.2026	2026	Sophie, Piesse, Sien, Yee Lau, Yang, Liu MBChB, Charlotte, Oyston, Professor, Katie Groom MBBS, Associate, Professor Qi Chen, Professor, Larry Chamley, Associate J, Professor Carolyn Barrett	No
Trophoblast-derived extracellular vesicles elicit long-term 3 effects on maternal cardiovascular function in a 4 postpartum model of chronic hypertension		https://doi.org/10.1152/ajpheart.00508.2026	2026	Sophie, Piesse, Sien, Yee Lau, Yang, Liu MBChB, Charlotte, Oyston, Professor, Katie Groom MBBS, Associate, Professor Qi Chen, Professor, Larry Chamley, Associate J, Professor Carolyn Barrett	No
Dual actionability of BMI1 activation and mitotic vulnerability defines adaptive Osimertinib resistance in EGFR-mutant NSCLC	Cell Death & Disease	https://doi.org/10.1038/s41419-026-08952-2	2026	Paolo, Armanetti, Eva, Cabrera San Millan, Maddalena, Di Nardo, Raffaella, Mercatelli, Chiara, Cavallini, Stefania, Crucitta, Marzia, Del Re, Alice, Chiodi, Ettore, Mosca, Arianna, Consiglio, Nicola, Losito, Antonio, Musio, Luca, Menichetti, Emilia, Bramanti, Azhar, Ali, Elena, Levantini, Giorgia, Maroni	No
Dual actionability of BMI1 activation and mitotic vulnerability defines adaptive Osimertinib resistance in EGFR-mutant NSCLC	Cell Death & Disease	https://doi.org/10.1038/s41419-026-08952-2	2026	Paolo, Armanetti, Eva, Cabrera San Millan, Maddalena, Di Nardo, Raffaella, Mercatelli, Chiara, Cavallini, Stefania, Crucitta, Marzia, Del Re, Alice, Chiodi, Ettore, Mosca, Arianna, Consiglio, Nicola, Losito, Antonio, Musio, Luca, Menichetti, Emilia, Bramanti, Azhar, Ali, Elena, Levantini, Giorgia, Maroni	No
A Time-Efficient and Reproducible Rat Model of Myofascial Pain Syndrome–Like Phenotypes Induced by Repeated Mechanical Impact and Eccentric Exercise	Journal of Pain Research	https://doi.org/10.2147/JPR.S601716	2026	Zixu, Lv, Wenlong, Yang, Yingying, Liu, Fangming, Liu, Miaomiao, Tang, Xueqi, Li, Guanxi, Jiang, Linlin, Wang, Zike, Dong	No
A Time-Efficient and Reproducible Rat Model of Myofascial Pain Syndrome–Like Phenotypes Induced by Repeated Mechanical Impact and Eccentric Exercise	Journal of Pain Research	https://doi.org/10.2147/JPR.S601716	2026	Zixu, Lv, Wenlong, Yang, Yingying, Liu, Fangming, Liu, Miaomiao, Tang, Xueqi, Li, Guanxi, Jiang, Linlin, Wang, Zike, Dong	No
Super-Resolution Ultrasound Based Cell Tracking With Polymeric Nanobubbles	Advanced Materials	https://doi.org/10.1002/adma.73639	2026	Junlin, Chen, Xiaoyu, Wang, Jilin, Fan, Bi, Wang, Hanghang, Fang, Yurui, Wang, Hao, Cui, Mohammad, Roufarshbaf, Ekaterina, Savina, Alexandra, Valeske, Quim, Peña, Yang, Shi, Andreas, Herrmann, Twan, Lammers, Mathias, Hornef, Roman, Barmin, Thomas, Lisson, Georg, Schmitz, Anne, Rix, Fabian, Kiessling	No

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Super-Resolution Ultrasound Based Cell Tracking With Polymeric Nanobubbles	Advanced Materials	https://doi.org/10.1002/adma.73639	2026	Junlin, Chen, Xiaoyu, Wang, Jilin, Fan, Bi, Wang, Hanghang, Fang, Yurui, Wang, Hao, Cui, Mohammad, Roufarshbaf, Ekaterina, Savina, Alexandra, Valeske, Quim, Peña, Yang, Shi, Andreas, Herrmann, Twan, Lammers, Mathias, Hornef, Roman, Barmin, Thomas, Lisson, Georg, Schmitz, Anne, Rix, Fabian, Kiessling	No
The Influence of Evaluator Experience, Dynamic Versus Static Ultrasound Image Interpretation, and Probe Frequency on Fascicle Differentiation	Journal of Hand Surgery	https://doi.org/10.1016/j.jhsa.2026.04.004	2026	Luka, Pušnik, Natalie, Winter, Maks Matej, Cuzak, Igor, Serša, Nejc, Umek, Žiga, Snoj, Gregor, Omejec	No
Delayed conception or sildenafil prevents endothelial dysfunction in pregnant rats after renal ischemia-reperfusion	American journal of physiology. Renal physiology	https://doi.org/10.1152/ajprenal.00181.2026	2026	Desmond, Moronge, Victor, Ayulo, Elisabeth, Mellott, Hannah, Godley-Boswell, Riyaz, Mohamed, Jennifer C., Sullivan, Jessica L., Faulkner	No
Delayed conception or sildenafil prevents endothelial dysfunction in pregnant rats after renal ischemia-reperfusion	American journal of physiology. Renal physiology	https://doi.org/10.1152/ajprenal.00181.2026	2026	Desmond, Moronge, Victor, Ayulo, Elisabeth, Mellott, Hannah, Godley-Boswell, Riyaz, Mohamed, Jennifer C., Sullivan, Jessica L., Faulkner	No
Impact of aging on neck vasculature and brain biochemistry in female mice	Physiological Reports	https://doi.org/10.14814/phy2.71059	2026	Allison R., Jones, Amin, Jarrahi, Kylee, Karpowich, Ella Grey, Moody, Lily, Renner, Lindsay P., Brown, Caitlin M., Tressler, A. Colleen, Crouch	No
Impact of aging on neck vasculature and brain biochemistry in female mice	Physiological Reports	https://doi.org/10.14814/phy2.71059	2026	Allison R., Jones, Amin, Jarrahi, Kylee, Karpowich, Ella Grey, Moody, Lily, Renner, Lindsay P., Brown, Caitlin M., Tressler, A. Colleen, Crouch	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
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
VSIG4 suppresses antitumor T cell immunity via the SLC3A2-dependent metabolic-ionic checkpoint	Journal for immunotherapy of cancer	https://doi.org/10.1136/jitc-2025-013562	2026	Guoling, Huang, Ruirui, He, Wei, Wang, Heping, Wang, Yangyang, Li, Bo, Zeng, Panyin, Shu, Ting, Pan, Ming, Yi, Lingyun, Feng, Zhihui, Cui, Xi, Li, Yanyun, Du, Hong, Jiang, Xue, Xiao, Yuan, Wang, Chenhui, Wang	No
VSIG4 suppresses antitumor T cell immunity via the SLC3A2-dependent metabolic-ionic checkpoint	Journal for immunotherapy of cancer	https://doi.org/10.1136/jitc-2025-013562	2026	Guoling, Huang, Ruirui, He, Wei, Wang, Heping, Wang, Yangyang, Li, Bo, Zeng, Panyin, Shu, Ting, Pan, Ming, Yi, Lingyun, Feng, Zhihui, Cui, Xi, Li, Yanyun, Du, Hong, Jiang, Xue, Xiao, Yuan, Wang, Chenhui, Wang	No

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Integrated stress response couples mitochondrial fitness with lineage reprogramming to drive cancer evolution	Nature Cell Biology	https://doi.org/10.1038/s41556-026-01991-z	2026	Shiqi, Diao, Jia Yi, Zou, Shuo, Wang, Jason E., Chan, Roderik M., Kortlever, Nicolas, Poulain, Nour, Ghaddar, Hyungdong, Kim, Gerard I., Evan, Constantinos, Koumenis, Maria, Hatzoglou, Peter, Walter, Nahum, Sonenberg, John, Le Quesne, Tuomas, Tammela, Antonis E., Koromilas	No
Integrated stress response couples mitochondrial fitness with lineage reprogramming to drive cancer evolution	Nature Cell Biology	https://doi.org/10.1038/s41556-026-01991-z	2026	Shiqi, Diao, Jia Yi, Zou, Shuo, Wang, Jason E., Chan, Roderik M., Kortlever, Nicolas, Poulain, Nour, Ghaddar, Hyungdong, Kim, Gerard I., Evan, Constantinos, Koumenis, Maria, Hatzoglou, Peter, Walter, Nahum, Sonenberg, John, Le Quesne, Tuomas, Tammela, Antonis E., Koromilas	No
Fibroblast Growth Factor 7 Limits Fibroblast-Driven Matrix Remodeling in Abdominal Aortic Aneurysm	Cardiovascular Drugs and Therapy	https://doi.org/10.1007/s10557-026-07912-4	2026	Tao, Wang, Qiang, Wang, Long, Zhou, Kai Chuang, Ye, Siyuan, Liang	No
Fibroblast Growth Factor 7 Limits Fibroblast-Driven Matrix Remodeling in Abdominal Aortic Aneurysm	Cardiovascular Drugs and Therapy	https://doi.org/10.1007/s10557-026-07912-4	2026	Tao, Wang, Qiang, Wang, Long, Zhou, Kai Chuang, Ye, Siyuan, Liang	No
Altered bone marrow niche forms central innate immune memory driving cardiac dysfunction	Nature communications	https://doi.org/10.1038/s41467-026-76178-z	2026	Kohsaku, Goto, Yukiteru, Nakayama, Junichi, Sugita, Tsukasa, Oshima, Kunihito, Kani, Atsushi, Kobayashi, Naoto, Setoguchi, Yuxiang, Liu, Yiyi, Yang, Jiaxin, Ku, Ryoko, Uchida, Eriko, Hasumi, Takashi, Nagasawa, Issei, Komuro, Norihiko, Takeda, Ichiro, Manabe, Katsuhito, Fujiu	No
Altered bone marrow niche forms central innate immune memory driving cardiac dysfunction	Nature communications	https://doi.org/10.1038/s41467-026-76178-z	2026	Kohsaku, Goto, Yukiteru, Nakayama, Junichi, Sugita, Tsukasa, Oshima, Kunihito, Kani, Atsushi, Kobayashi, Naoto, Setoguchi, Yuxiang, Liu, Yiyi, Yang, Jiaxin, Ku, Ryoko, Uchida, Eriko, Hasumi, Takashi, Nagasawa, Issei, Komuro, Norihiko, Takeda, Ichiro, Manabe, Katsuhito, Fujiu	No

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Spatial profiling of the spleen in mouse and human myelofibrosis reveals complement-driven immune-stromal interactions as a therapeutic target	Cell Stem Cell	https://linkinghub.elsevier.com/retrieve/pii/S1934590926002729	2026	Bérénice, Dugué, Pia, Wanner, Mayra L., Ruiz Tejada Segura, Mohamed, Saad, Lucas, Greven, Katrin, Götz, Carmen, Schalla, Stijn, Fuchs, Gerjanne, Vroeg in de wei, Hélène F.E., Gleitz, Anna Katharina, Galyga, Jessica Ellen, Pritchard, Tobias, Schlangen, Niklas, Lutterbach, Salim, Atakhanov, Lina, Schmidt, Marie, Parrens, Armelle, Peyrat, Damien Luque, Paz, Marie-Christine, Copin, Alexandre, Guy, Victor-Emmanuel, Brett, Olivier, Mansier, Susanne, Schmitz, Paul, Wanek, Bella, Banjanin, Stephani, Schmitz, Martina, Crysandt, Marian C., Clahsen-van Groningen, Konnie M., Hebeda, Sascha, Dietrich, Harald, Voehringer, Matthias, Meyer-Bender, Kristin, Séré, Chloé, James, Adam, Benabid, Ivan, Costa, Charles, Dussiau, Rebekka K., Schneider	No
Spatial profiling of the spleen in mouse and human myelofibrosis reveals complement-driven immune-stromal interactions as a therapeutic target	Cell Stem Cell	https://linkinghub.elsevier.com/retrieve/pii/S1934590926002729	2026	Bérénice, Dugué, Pia, Wanner, Mayra L., Ruiz Tejada Segura, Mohamed, Saad, Lucas, Greven, Katrin, Götz, Carmen, Schalla, Stijn, Fuchs, Gerjanne, Vroeg in de wei, Hélène F.E., Gleitz, Anna Katharina, Galyga, Jessica Ellen, Pritchard, Tobias, Schlangen, Niklas, Lutterbach, Salim, Atakhanov, Lina, Schmidt, Marie, Parrens, Armelle, Peyrat, Damien Luque, Paz, Marie-Christine, Copin, Alexandre, Guy, Victor-Emmanuel, Brett, Olivier, Mansier, Susanne, Schmitz, Paul, Wanek, Bella, Banjanin, Stephani, Schmitz, Martina, Crysandt, Marian C., Clahsen-van Groningen, Konnie M., Hebeda, Sascha, Dietrich, Harald, Voehringer, Matthias, Meyer-Bender, Kristin, Séré, Chloé, James, Adam, Benabid, Ivan, Costa, Charles, Dussiau, Rebekka K., Schneider	No
Dual inhibition of PRMT1 and SUV39H1 suppresses breast cancer progression and enhances immunotherapy response	International journal of biological sciences	https://doi.org/10.7150/ijbs.130955	2026	Ge, Wang, Jiagui, Song, Xinwei, Duan, Kunhao, Zhou, Jing, Zhang, Hongquan, Zhang, Yu, Yu	No
Dual inhibition of PRMT1 and SUV39H1 suppresses breast cancer progression and enhances immunotherapy response	International journal of biological sciences	https://doi.org/10.7150/ijbs.130955	2026	Ge, Wang, Jiagui, Song, Xinwei, Duan, Kunhao, Zhou, Jing, Zhang, Hongquan, Zhang, Yu, Yu	No

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HSP47 is a potential dual cell target and prognostic factor in pancreatic cancer	Oncogene	https://doi.org/10.1038/s41388-026-03865-y	2026	George, Sharbeen, Estrella, Gonzales-Aloy, Janet, Youkhana, John, Kokkinos, Rosa Mistica C., Ignacio, Joshua A., McCarroll, Aparna S., Raina, Chantal, Kopecky, Jie, Liu, Amanda, Mawson, Andrea, Nunez, Cyrille, Boyer, Mert, Erkan, David, Goldstein, Koroush S., Haghighi, Paul, Timpson, Sean C., Warren, Kendelle J., Murphy, Anthony J., Gill, Amber L., Johns, Angela, Chou, Elvis, Pandzic, Sandra, Fok, Renee, Whan, Val, Gebski, Jennifer P., Morton, Minoti, Apte, Phoebe A., Phillips	No
HSP47 is a potential dual cell target and prognostic factor in pancreatic cancer	Oncogene	https://doi.org/10.1038/s41388-026-03865-y	2026	George, Sharbeen, Estrella, Gonzales-Aloy, Janet, Youkhana, John, Kokkinos, Rosa Mistica C., Ignacio, Joshua A., McCarroll, Aparna S., Raina, Chantal, Kopecky, Jie, Liu, Amanda, Mawson, Andrea, Nunez, Cyrille, Boyer, Mert, Erkan, David, Goldstein, Koroush S., Haghighi, Paul, Timpson, Sean C., Warren, Kendelle J., Murphy, Anthony J., Gill, Amber L., Johns, Angela, Chou, Elvis, Pandzic, Sandra, Fok, Renee, Whan, Val, Gebski, Jennifer P., Morton, Minoti, Apte, Phoebe A., Phillips	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
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
Theaflavin alleviates thoracic aortic dissection by disrupting the interaction between microtubule affinity-regulating kinase 4 and NLRP3 to inhibit inflammasome assembly	Phytomedicine	https://doi.org/10.1016/j.phymed.2026.158502	2026	Xing, Chen, Shuying, Xu, Tianhao, Gu, Jintao, Qian, Junhao, Zhang, Yong, Deng, Zhihua, Wang, Jiahui, Wang, Xinglong, Tang, Chuiyu, Kong, Qing, Zhou	No
Theaflavin alleviates thoracic aortic dissection by disrupting the interaction between microtubule affinity-regulating kinase 4 and NLRP3 to inhibit inflammasome assembly	Phytomedicine	https://doi.org/10.1016/j.phymed.2026.158502	2026	Xing, Chen, Shuying, Xu, Tianhao, Gu, Jintao, Qian, Junhao, Zhang, Yong, Deng, Zhihua, Wang, Jiahui, Wang, Xinglong, Tang, Chuiyu, Kong, Qing, Zhou	No
Protocol for inducing deep vein thrombosis in C57BL/6J mice using the inferior vena cava stenosis model	STAR Protocols	https://doi.org/10.1016/j.xpro.2026.104665	2026	Aman, Damara, Santiago, Canon, Magdalena L., Bochenek, Katrin, Schäfer, Fatemeh, Shahneh	No
Protocol for inducing deep vein thrombosis in C57BL/6J mice using the inferior vena cava stenosis model	STAR Protocols	https://doi.org/10.1016/j.xpro.2026.104665	2026	Aman, Damara, Santiago, Canon, Magdalena L., Bochenek, Katrin, Schäfer, Fatemeh, Shahneh	No

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Aortic Segments-Depending Hypertensive Remodeling Is Driven by Mitochondrial Fusion Dysfunction	FASEB Journal	https://doi.org/10.1096/fj.202503667R	2026	Alexis, Richard, Alicia Baptista, Vicente, Clara, Gourhand, Antoine, Ducroix, Pauline, Robert, Bertrand, Toutain, Linda, Grimaud, Emilie, Vessières, Agnès, Toutain-Barbelivien, Guy, Lenaers, Juan Manuel Chao, de la Barca, Olivier, Fouquet, Daniel, Henrion, Céline, Fassot, Laurent, Loufrani	No
Chromobox 3 assembles an epigenetic complex contributing to cystathionine γ-lyase–mediated protection against aortic aneurysm/dissection	Nature Communications	https://doi.org/10.1038/s41467-026-74048-2	2026	Ying, Zhao, Changting, Cui, Huimin, Gao, Yan, Yao, Yaping, Niu, Ling, Cheng, Xiaodie, Shao, Haizeng, Zhang, Yuan, Wang, Yuanzhen, Lin, Zengxiang, Dong, He, Wu, Zhenzhen, Chen, Liming, Yang, Bin, Geng	No
Chromobox 3 assembles an epigenetic complex contributing to cystathionine γ-lyase–mediated protection against aortic aneurysm/dissection	Nature Communications	https://doi.org/10.1038/s41467-026-74048-2	2026	Ying, Zhao, Changting, Cui, Huimin, Gao, Yan, Yao, Yaping, Niu, Ling, Cheng, Xiaodie, Shao, Haizeng, Zhang, Yuan, Wang, Yuanzhen, Lin, Zengxiang, Dong, He, Wu, Zhenzhen, Chen, Liming, Yang, Bin, Geng	No
Spatiotemporal Deep Video-Phenomapping Decodes Microvascular Rarefaction in Renovascular Hypertension: A Multi-Modal Study Integrating Spatial Transcriptomics and Mitochondrial Pyroptosis	Research	https://doi.org/10.34133/research.1339	2026	Lingjie, Ju, Ri, Ji, Hong, Meng, Li Peng, li, Jiaxue, Du, yang, wang, xuehua, xi, luzeng, chen, ying, xiong, yongjun, li, pintong, huang, bo, zhang, junhong, ren	No
Spatiotemporal Deep Video-Phenomapping Decodes Microvascular Rarefaction in Renovascular Hypertension: A Multi-Modal Study Integrating Spatial Transcriptomics and Mitochondrial Pyroptosis	Research	https://doi.org/10.34133/research.1339	2026	Lingjie, Ju, Ri, Ji, Hong, Meng, Li Peng, li, Jiaxue, Du, yang, wang, xuehua, xi, luzeng, chen, ying, xiong, yongjun, li, pintong, huang, bo, zhang, junhong, ren	No
Noninvasive Photoacoustic Imaging of Microscale Material Degradation in a Poly(4-hydroxybutyrate) Resorbable Hernia Mesh	ACS Applied Polymer Materials	https://pubs.acs.org/doi/10.1021/acsapm.6c01839	2026	Marie Z., Cilliers, Daolong, Chen, Joseph C., Bear, Emily J., Deniszczyc, Lawrence, Nip, Siyu, Qian, Hanieh, Taghani, Mark F., Lythgoe, Daniel J., Stuckey, P. Stephen, Patrick	No
Noninvasive Photoacoustic Imaging of Microscale Material Degradation in a Poly(4-hydroxybutyrate) Resorbable Hernia Mesh	ACS Applied Polymer Materials	https://pubs.acs.org/doi/10.1021/acsapm.6c01839	2026	Marie Z., Cilliers, Daolong, Chen, Joseph C., Bear, Emily J., Deniszczyc, Lawrence, Nip, Siyu, Qian, Hanieh, Taghani, Mark F., Lythgoe, Daniel J., Stuckey, P. Stephen, Patrick	No
Bio-polymer based dynamically crosslinked hydrogel enabling photoacoustic monitoring of diabetic wound healing	Chemical Engineering Journal Advances	https://doi.org/10.1016/j.ceja.2026.101232	2026	Ramakrishna Thilagar Uma, Maheswari, Ankit Kumar, Malik, Madaswamy S., Muthu, Pradeep, Kumar, Mariappan, Rajan	No
Bio-polymer based dynamically crosslinked hydrogel enabling photoacoustic monitoring of diabetic wound healing	Chemical Engineering Journal Advances	https://doi.org/10.1016/j.ceja.2026.101232	2026	Ramakrishna Thilagar Uma, Maheswari, Ankit Kumar, Malik, Madaswamy S., Muthu, Pradeep, Kumar, Mariappan, Rajan	No

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BET-induced metabolic reprogramming fuels inflammation at the vascular-fat interface in mice and patients with cardiometabolic disease	Cell Reports	https://doi.org/10.1016/j.celrep.2026.117365	2026	Alessandro, Mengozzi, Sarah, Costantino, Alessia, Mongelli, Emiliano, Duranti, Shafeeq A., Mohammed, Era, Gorica, Federica, Cappelli, Marialucia, Telesca, Silvia, Armenia, Thorsten, Hornemann, Andreas, Hulsmeier, Carolina, de Ciuceis, Claudia, Agabiti-Rosei, Chiara, Ippolito, Rosario, Bellini, Nicola Riccardo, Pugliese, Christian M., Matter, Omer, Dzemali, Stefano, Masi, Stefano, Taddei, Frank, Ruschitzka, Agostino, Virdis, Francesco, Paneni	No
BET-induced metabolic reprogramming fuels inflammation at the vascular-fat interface in mice and patients with cardiometabolic disease	Cell Reports	https://doi.org/10.1016/j.celrep.2026.117365	2026	Alessandro, Mengozzi, Sarah, Costantino, Alessia, Mongelli, Emiliano, Duranti, Shafeeq A., Mohammed, Era, Gorica, Federica, Cappelli, Marialucia, Telesca, Silvia, Armenia, Thorsten, Hornemann, Andreas, Hulsmeier, Carolina, de Ciuceis, Claudia, Agabiti-Rosei, Chiara, Ippolito, Rosario, Bellini, Nicola Riccardo, Pugliese, Christian M., Matter, Omer, Dzemali, Stefano, Masi, Stefano, Taddei, Frank, Ruschitzka, Agostino, Virdis, Francesco, Paneni	No
Mechanical loading-induced bone formation is associated with increased blood velocity and vascular canal bone porosity, with localized vascular adaptation	Journal of Bone and Mineral Research	https://academic.oup.com/jbmr/advance-article/doi/10.1093/jbmr/zjag076/8672022	2026	Taylor, deVet, Mahmoud S, Moussa, Hanna, Gonzalez, Paul, Zaslansky, Lorraine E, Chalifour, Svetlana V, Komarova, Bettina M, Willie	No
Mechanical loading-induced bone formation is associated with increased blood velocity and vascular canal bone porosity, with localized vascular adaptation	Journal of Bone and Mineral Research	https://academic.oup.com/jbmr/advance-article/doi/10.1093/jbmr/zjag076/8672022	2026	Taylor, deVet, Mahmoud S, Moussa, Hanna, Gonzalez, Paul, Zaslansky, Lorraine E, Chalifour, Svetlana V, Komarova, Bettina M, Willie	No
Lipoic acid-engineered nanodroplets for multimodal imaging and enhanced sonodynamic therapy in melanoma treatment	Theranostics	https://www.thno.org/v16p5278.htm	2026	Ziyao, Wang, Yongchao, Yao, Ziyan, Feng, Yulong, Liao, Liyun, Wang, Xueyang, Xiao, Wenchuang, Hu, Zhiyong, Qian, Li, Qiu	No
Lipoic acid-engineered nanodroplets for multimodal imaging and enhanced sonodynamic therapy in melanoma treatment	Theranostics	https://www.thno.org/v16p5278.htm	2026	Ziyao, Wang, Yongchao, Yao, Ziyan, Feng, Yulong, Liao, Liyun, Wang, Xueyang, Xiao, Wenchuang, Hu, Zhiyong, Qian, Li, Qiu	No
Efficient algorithm for optimal wavelength selection in photoacoustic spectral unmixing	Biomedical Optics Express	https://opg.optica.org/abstract.cfm?URI=boe-17-5-2643	2026	Calvin, Smith, Andrew, Langley, Deeksha, Sankepalle, Srivalleesha, Mallidi, Brett E., Bouma, David, Veysset	No
Efficient algorithm for optimal wavelength selection in photoacoustic spectral unmixing	Biomedical Optics Express	https://opg.optica.org/abstract.cfm?URI=boe-17-5-2643	2026	Calvin, Smith, Andrew, Langley, Deeksha, Sankepalle, Srivalleesha, Mallidi, Brett E., Bouma, David, Veysset	No
Parental obesity exacerbates cognitive dysfunction and cardiac vulnerability in offspring of an Alzheimer disease model	American Journal of Physiology-Heart and Circulatory Physiology	https://journals.physiology.org/doi/10.1152/ajpheart.00047.2026	2026	Jussara M., do Carmo, John E., Hall, Emily, Ladnier, Xuemei, Dai, Zhen, Wang, Alan J., Mouton, Ana C. M., Omoto, Luciana, Jorge, Alexandre A., da Silva	No

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Parental obesity exacerbates cognitive dysfunction and cardiac vulnerability in offspring of an Alzheimer disease model	American Journal of Physiology-Heart and Circulatory Physiology	https://journals.physiology.org/doi/10.1152/ajpheart.00047.2026	2026	Jussara M., do Carmo, John E., Hall, Emily, Ladnier, Xuemei, Dai, Zhen, Wang, Alan J., Mouton, Ana C. M., Omoto, Luciana, Jorge, Alexandre A., da Silva	No
Inactivation of AXL in Cardiac Fibroblasts Alleviates Right Ventricular Remodeling in Pulmonary Hypertension	Advanced Science	https://doi.org/10.1002/advs.202508995	2025	Li Wei, Wu, Min, Chen, Chen Yu, Jiang, Dai Ji, Jiang, Xu, Zhang, Xiao He, Xu, Yi Wei, Liu, Bei, Feng, Lin Cai, Ye, Yang Yang, He, Xu, Huang, Yi Chi, Zhang, Xing Liang, Zhou, Yi, Shen, Tian Yu, Liu, Li Jun, Fu, Yi, Yan, Hao, Zhang	No
Inactivation of AXL in Cardiac Fibroblasts Alleviates Right Ventricular Remodeling in Pulmonary Hypertension	Advanced Science	https://doi.org/10.1002/advs.202508995	2025	Li Wei, Wu, Min, Chen, Chen Yu, Jiang, Dai Ji, Jiang, Xu, Zhang, Xiao He, Xu, Yi Wei, Liu, Bei, Feng, Lin Cai, Ye, Yang Yang, He, Xu, Huang, Yi Chi, Zhang, Xing Liang, Zhou, Yi, Shen, Tian Yu, Liu, Li Jun, Fu, Yi, Yan, Hao, Zhang	No
Ultrasoft hydrogel immune millirobot with multimodal locomotion	Sci. Adv	https://www.science.org	2025	Zhiqiang, Zheng, Sinan Ozgun, Demir, Anping, Wu, Shihao, Zhong, Zhengyuan, Xin, Chunxu, Yuan, Huaping, Wang, Metin, Sitti, Yu, Sun, Lixin, Dong	No
Ultrasoft hydrogel immune millirobot with multimodal locomotion	Sci. Adv	https://www.science.org	2025	Zhiqiang, Zheng, Sinan Ozgun, Demir, Anping, Wu, Shihao, Zhong, Zhengyuan, Xin, Chunxu, Yuan, Huaping, Wang, Metin, Sitti, Yu, Sun, Lixin, Dong	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
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
Refining the Guinea Pig (Cavia porcellus) Cryo-Injury Model for Cardiac Regeneration and Functional Characterization	Journal of the American Association for Laboratory Animal Science	https://doi.org/10.30802/AALAS-JAALAS-25-107	2026	Marie E., Nehring, Constantin, von Bibra, Birgit, Geertz, Gesa, Roessler, Yoram, Etzion, Liesa, Castro, Or, Levi, Shira, Burg, Bernhard, Hiebl, Thomas, Eschenhagen, Florian, Weinberger	No
Refining the Guinea Pig (Cavia porcellus) Cryo-Injury Model for Cardiac Regeneration and Functional Characterization	Journal of the American Association for Laboratory Animal Science	https://doi.org/10.30802/AALAS-JAALAS-25-107	2026	Marie E., Nehring, Constantin, von Bibra, Birgit, Geertz, Gesa, Roessler, Yoram, Etzion, Liesa, Castro, Or, Levi, Shira, Burg, Bernhard, Hiebl, Thomas, Eschenhagen, Florian, Weinberger	No
Pharmacological Enhancement of Integrated Stress Response Confers Protection in Calcific Aortic Valve Disease	JACC: Basic to Translational Science	https://doi.org/10.1016/j.jacbts.2025.101433	2026	Libo, Wang, Xulei, Duan, Huibing, Liu, Fei, Lin, Chaoyuan, Zhou, Katrin, Schröder, Ajay M., Shah, Guoan, Zhao, Min, Zhang	No
Pharmacological Enhancement of Integrated Stress Response Confers Protection in Calcific Aortic Valve Disease	JACC: Basic to Translational Science	https://doi.org/10.1016/j.jacbts.2025.101433	2026	Libo, Wang, Xulei, Duan, Huibing, Liu, Fei, Lin, Chaoyuan, Zhou, Katrin, Schröder, Ajay M., Shah, Guoan, Zhao, Min, Zhang	No

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A bypass gateway from cholesterol to sex steroid biosynthesis circumnavigates CYP17A1	Nature Communications	https://doi.org/10.1038/s41467-025-66558-2	2025	Ziqi, Zhu, Yoon Mi, Chung, Mohammad, Alyamani, Yijing, Dai, Kevin D., McCarty, Evan, Roberts, Sunita, Sinha, Jianneng, Li, Xiuxiu, Li, Emad M., Gad, Zhiqun, Zhou, Jinyuan, Shi, Robert A., Burgess, Tatiana Y., Hargrove, Galina I., Lepesheva, F. Peter, Guengerich, Richard J., Auchus, Nima, Sharifi	No
A bypass gateway from cholesterol to sex steroid biosynthesis circumnavigates CYP17A1	Nature Communications	https://doi.org/10.1038/s41467-025-66558-2	2025	Ziqi, Zhu, Yoon Mi, Chung, Mohammad, Alyamani, Yijing, Dai, Kevin D., McCarty, Evan, Roberts, Sunita, Sinha, Jianneng, Li, Xiuxiu, Li, Emad M., Gad, Zhiqun, Zhou, Jinyuan, Shi, Robert A., Burgess, Tatiana Y., Hargrove, Galina I., Lepesheva, F. Peter, Guengerich, Richard J., Auchus, Nima, Sharifi	No
Implantable Microdevices for In Vivo Assessment of Chemotherapy Response in Patient Derived Organoid Orthotopic Pancreatic Cancer Models	Annals of Surgery	https://journals.lww.com/10.1097/SLA.0000000000007071	2026	Oliver J., Standring, Julien T., Hohenleitner, Lyudmyla, Demyan, Shruti, Koti, Nandan, Vithlani, Taemoon, Chung, Amber N., Habowski, Taehoon, Ha, Sepideh, Gholami, James M., Crawford, Youngkyu, Park, Oliver, Jonas, Zhen, Zhao, Scott K., Lyons, Daniel A., King, David A., Tuveson, Matthew J., Weiss	No
Implantable Microdevices for In Vivo Assessment of Chemotherapy Response in Patient Derived Organoid Orthotopic Pancreatic Cancer Models	Annals of Surgery	https://journals.lww.com/10.1097/SLA.0000000000007071	2026	Oliver J., Standring, Julien T., Hohenleitner, Lyudmyla, Demyan, Shruti, Koti, Nandan, Vithlani, Taemoon, Chung, Amber N., Habowski, Taehoon, Ha, Sepideh, Gholami, James M., Crawford, Youngkyu, Park, Oliver, Jonas, Zhen, Zhao, Scott K., Lyons, Daniel A., King, David A., Tuveson, Matthew J., Weiss	No
Magnetically-Induced Suppression of Oxidative Stress Prevents Venous Thrombosis	Advanced Science	https://doi.org/10.1002/advs.202513299	2025	Nana, Zhang, Yirong, An, Shiran, Tao, Shenao, Qu, Minge, Wu, Guantong, Fang, Ziqing, Chen, Weilun, Song, Haoze, Leng, Rongqian, Wu, Yi, Lyu, Xiaoli, Liu, Dinghui, Dong	No
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Targeting tumor-intrinsic BCL9 reverses immunotherapy resistance by eliciting macrophage-mediated phagocytosis and antigen presentation	Nature Communications	https://doi.org/10.1038/s41467-025-65945-z	2025	Sui Yi, Wu, Yuan Yuan, Zhu, Jia Lei, Sun, Chun Yan, Wang, Yu Lei, Wang, Yan Yan, Nie, Fei, Song, Xun, Huang, Zhong, Chen, Tian, He, Li An, Shen, Yang, Xu, Cheng, Huang, Shuang Jian, Qiu, Jian, Zhou, Andrew X., Zhu, Jia, Fan, Di, Zhu, Bo, Hu, Xin Rong, Yang	No
Targeting tumor-intrinsic BCL9 reverses immunotherapy resistance by eliciting macrophage-mediated phagocytosis and antigen presentation	Nature Communications	https://doi.org/10.1038/s41467-025-65945-z	2025	Sui Yi, Wu, Yuan Yuan, Zhu, Jia Lei, Sun, Chun Yan, Wang, Yu Lei, Wang, Yan Yan, Nie, Fei, Song, Xun, Huang, Zhong, Chen, Tian, He, Li An, Shen, Yang, Xu, Cheng, Huang, Shuang Jian, Qiu, Jian, Zhou, Andrew X., Zhu, Jia, Fan, Di, Zhu, Bo, Hu, Xin Rong, Yang	No

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Necroptosis Inhibition Preserves Diaphragm Function in Experimental Sepsis	The American Journal of Pathology	http://creativecommons.org/licenses/by/4.0	2025	Xin Fu, Lie-Tao Wang, Qian Xu, Hua Yao, Xiao-Xiao Xia, Yucong Wang, Tong-Ling Li, Zhi-Wei Yao, Ji Luo, Guo-Peng Liang, Jing Yang, Qin Wu	No
Necroptosis Inhibition Preserves Diaphragm Function in Experimental Sepsis	The American Journal of Pathology	http://creativecommons.org/licenses/by/4.0	2025	Xin Fu, Lie-Tao Wang, Qian Xu, Hua Yao, Xiao-Xiao Xia, Yucong Wang, Tong-Ling Li, Zhi-Wei Yao, Ji Luo, Guo-Peng Liang, Jing Yang, Qin Wu	No
Demonstration of SLU7 as a new cancer target	Biomedicine and Pharmacotherapy	https://doi.org/10.1016/j.biopha.2025.118854	2025	Carla, Rojo, Aaron, Otero, Maria, Elizalde, Maria, Azkona, Roberto, Barbero, Maria U., Latasa, Iker, Uriarte, Alvaro, Gutierrez-Uzquiza, Diego, Alignani, Laura, Guembe, Amaia, Lujambio, Fernando, Pastor, Maite G., Fernández-Barrena, Matias A., Ávila, Maria, Arechederra, Carmen, Berasain	No
Demonstration of SLU7 as a new cancer target	Biomedicine and Pharmacotherapy	https://doi.org/10.1016/j.biopha.2025.118854	2025	Carla, Rojo, Aaron, Otero, Maria, Elizalde, Maria, Azkona, Roberto, Barbero, Maria U., Latasa, Iker, Uriarte, Alvaro, Gutierrez-Uzquiza, Diego, Alignani, Laura, Guembe, Amaia, Lujambio, Fernando, Pastor, Maite G., Fernández-Barrena, Matias A., Ávila, Maria, Arechederra, Carmen, Berasain	No
Flexible Ultrasound Patch for Noninvasive, Targeted Anti-Angiogenic Therapy of Unstable Carotid Plaques	Annals of Biomedical Engineering	https://doi.org/10.1007/s10439-026-04123-8	2026	Jie, Hu, Mingke, Jiao, Chenchen, Tang, Ping, Liang, Jingwei, Tang, Li, Wan, Jimei, Chen, Rui, Li	No
Flexible Ultrasound Patch for Noninvasive, Targeted Anti-Angiogenic Therapy of Unstable Carotid Plaques	Annals of Biomedical Engineering	https://doi.org/10.1007/s10439-026-04123-8	2026	Jie, Hu, Mingke, Jiao, Chenchen, Tang, Ping, Liang, Jingwei, Tang, Li, Wan, Jimei, Chen, Rui, Li	No
Elevated asprosin in postmenopause is associated with vasculometabolic complications	American journal of physiology. Heart and circulatory physiology	https://doi.org/10.1152/ajpheart.00042.2026	2026	Nefia, Chacko, Mohit, Shah, Reia, Thomas, Christian, Jude-Aspiras, Akinobu, Watanabe, Maria Alicia, Carrillo-Sepulveda	No
Elevated asprosin in postmenopause is associated with vasculometabolic complications	American journal of physiology. Heart and circulatory physiology	https://doi.org/10.1152/ajpheart.00042.2026	2026	Nefia, Chacko, Mohit, Shah, Reia, Thomas, Christian, Jude-Aspiras, Akinobu, Watanabe, Maria Alicia, Carrillo-Sepulveda	No
CircEif3c/miR-96-5p/PHF20L1/MEOX2 axis in perivascular preadipocyte exosomes mediates fibroblast dysfunction and vascular remodeling	Non-coding RNA Research	https://doi.org/10.1016/j.ncrna.2026.01.006	2026	Yixuan, Liu, Peiqing, Tian, Shuaiyong, Zhang, Jiayu, Wang, Ye, Zhang, Shuxin, Ge, Qinghai, Wang, Peng, Wang, Juan, Zhang, Ping, Liu	No
CircEif3c/miR-96-5p/PHF20L1/MEOX2 axis in perivascular preadipocyte exosomes mediates fibroblast dysfunction and vascular remodeling	Non-coding RNA Research	https://doi.org/10.1016/j.ncrna.2026.01.006	2026	Yixuan, Liu, Peiqing, Tian, Shuaiyong, Zhang, Jiayu, Wang, Ye, Zhang, Shuxin, Ge, Qinghai, Wang, Peng, Wang, Juan, Zhang, Ping, Liu	No
Ultra-High-Frequency Ultrasound of Melanoma Excision Scars for Detection of Clinically Occult Local Recurrence: A Single-Center Retrospective Study	Clinical, Cosmetic and Investigational Dermatology	https://doi.org/10.2147/CCID.S580359	2026	Anna, Russo, Vittorio, Patanè, Lucrezia, Bucciero, Mario, Brunese, Teresa, Troiani, Giuseppe, Argenziano, Renato, Franco, Alfonso, Reginelli	No
Expanding clones, expanding aneurysms through macrophage-to-osteoclast differentiation	The Journal of clinical investigation	https://doi.org/10.1172/JCI206748	2026	Jessica A., Regan, Svati H., Shah	No
Expanding clones, expanding aneurysms through macrophage-to-osteoclast differentiation	The Journal of clinical investigation	https://doi.org/10.1172/JCI206748	2026	Jessica A., Regan, Svati H., Shah	No

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Focal adhesion proteins confer smooth muscle anoikis resistance and protection against aortic aneurysm and dissection		https://doi.org/10.1172/jci.insight.195291	2026	Zhenyuan, Zhu, Mingjun, Liu, Jianxin, Wei, Deepa, Suryanarayan, Parya, Behzadi, Robert, Edgar, Julie A, Phillippi, Cynthia, St Hilaire, Cristina, Espinosa-Diez, Delphine, Gomez	No
Focal adhesion proteins confer smooth muscle anoikis resistance and protection against aortic aneurysm and dissection		https://doi.org/10.1172/jci.insight.195291	2026	Zhenyuan, Zhu, Mingjun, Liu, Jianxin, Wei, Deepa, Suryanarayan, Parya, Behzadi, Robert, Edgar, Julie A, Phillippi, Cynthia, St Hilaire, Cristina, Espinosa-Diez, Delphine, Gomez	No
Systematic design of combination therapy by targeting master regulators of coexisting diffuse midline glioma cell states	Nature Genetics	https://doi.org/10.1038/s41588-026-02550-w	2026	Ester, Calvo Fernández, Lorenzo, Tomassoni, Xu, Zhang, Junqiang, Wang, Aleksandar, Obradovic, Pasquale, Laise, Aaron T., Griffin, Lukas, Vlahos, Hanna E., Minns, Diana V., Morales, Christian, Simmons, Matthew, Gallitto, Hong Jian, Wei, Timothy J., Martins, Pamela S., Becker, John R., Crawford, Theophilos, Tzaridis, Robert J., Wechsler-Reya, James, Garvin, Robyn D., Gartrell, Luca, Szalontay, Stergios, Zacharoulis, Cheng Chia, Wu, Zhiguo, Zhang, Andrea, Califano, Jovana, Pavisic	No
Systematic design of combination therapy by targeting master regulators of coexisting diffuse midline glioma cell states	Nature Genetics	https://doi.org/10.1038/s41588-026-02550-w	2026	Ester, Calvo Fernández, Lorenzo, Tomassoni, Xu, Zhang, Junqiang, Wang, Aleksandar, Obradovic, Pasquale, Laise, Aaron T., Griffin, Lukas, Vlahos, Hanna E., Minns, Diana V., Morales, Christian, Simmons, Matthew, Gallitto, Hong Jian, Wei, Timothy J., Martins, Pamela S., Becker, John R., Crawford, Theophilos, Tzaridis, Robert J., Wechsler-Reya, James, Garvin, Robyn D., Gartrell, Luca, Szalontay, Stergios, Zacharoulis, Cheng Chia, Wu, Zhiguo, Zhang, Andrea, Califano, Jovana, Pavisic	No
High-oxalate diet-induced kidney injury impairs AVF remodeling via hypertension, endothelial damage, and immune activation	Biochimica et Biophysica Acta - Molecular Basis of Disease	https://doi.org/10.1016/j.bbadis.2026.168212	2026	E. P., de Winter, N., Kruit, K., van Dijk, M. N., Nicese, H. A.B., Peters, M., Goel, E. J., Snijder, P. H.A., Quax, A. H., Baker, J. I., Rotmans, M. R., de Vries	No
High-oxalate diet-induced kidney injury impairs AVF remodeling via hypertension, endothelial damage, and immune activation	Biochimica et Biophysica Acta - Molecular Basis of Disease	https://doi.org/10.1016/j.bbadis.2026.168212	2026	E. P., de Winter, N., Kruit, K., van Dijk, M. N., Nicese, H. A.B., Peters, M., Goel, E. J., Snijder, P. H.A., Quax, A. H., Baker, J. I., Rotmans, M. R., de Vries	No

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Close-to-Patient Models for Gastric Cancer: From Patient-Derived Xenograft Towards a Novel Gastric Cancer Mini-Tumor Model	OncoTargets and Therapy	https://doi.org/10.2147/OTT.S586407	2026	Sarah K., Hakuno, Joëlle, Zonneveld, Stefanus G.T., Janson, Anthea, Van der Wielen, Eleonore B., Kuhlemaijer, Maud, Steenbakkers, Leonie, Plug, Eveline, De Jonge-Muller, Eduard P., De Winter, Margreet R., De Vries, Tom, Van Wezel, Stijn, Crobach, Lukas J.A.C., Hawinkels, Andrea, Vallés-Martí, Marije, Slingerland	No
Close-to-Patient Models for Gastric Cancer: From Patient-Derived Xenograft Towards a Novel Gastric Cancer Mini-Tumor Model	OncoTargets and Therapy	https://doi.org/10.2147/OTT.S586407	2026	Sarah K., Hakuno, Joëlle, Zonneveld, Stefanus G.T., Janson, Anthea, Van der Wielen, Eleonore B., Kuhlemaijer, Maud, Steenbakkers, Leonie, Plug, Eveline, De Jonge-Muller, Eduard P., De Winter, Margreet R., De Vries, Tom, Van Wezel, Stijn, Crobach, Lukas J.A.C., Hawinkels, Andrea, Vallés-Martí, Marije, Slingerland	No
Smooth Muscle Cell Specific Activity of SGK-1 Alters Aortic Stiffness and Abdominal Aortic Aneurysm Growth	Journal of Vascular Diseases	https://doi.org/10.3390/jvd5010010	2026	Matthew, Anderson, Leilei, Zhang, Mario, Figueroa, Victoria, Mattia, Alexander, Rovner, Vinitha, Uppalapati, Ying, Xiong, Rupak, Mukherjee, Jeffrey A., Jones, Jean Marie, Ruddy	No
Smooth Muscle Cell Specific Activity of SGK-1 Alters Aortic Stiffness and Abdominal Aortic Aneurysm Growth	Journal of Vascular Diseases	https://doi.org/10.3390/jvd5010010	2026	Matthew, Anderson, Leilei, 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	https://doi.org/10.1016/j.placenta.2026.02.002	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
Tumor necrosis factor alpha inhibition improves fetal growth in a rat model of preeclampsia	Placenta	https://doi.org/10.1016/j.placenta.2026.02.002	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
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, Stensløkken, William E, Louch, Paola, Sassi, Alessandro, Cataliotti	No
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, Stensløkken, William E, Louch, Paola, Sassi, Alessandro, Cataliotti	No

Title	Journal	Link	Publication date	References	Top Paper
Antitumor Activity of the Ethanolic Extract from Syzygium aromaticum in Colorectal Cancer Xenograft Mice	Pharmaceutics	https://doi.org/10.3390/pharmaceutics18010079	2026	Thunyatorn, Yimsoo, Weerakit, Taychaworaditsakul, Hathaichanok, Chuntakaruk, Worapapar, Treesuppharat, Sumet, Kongkiatpaiboon, Apipu, Ariyachayut, Sunee, Chansakaow, Teera, Chewonarin, Parirat, Khonsung, Seewaboon, Sireeratawong	No
Antitumor Activity of the Ethanolic Extract from Syzygium aromaticum in Colorectal Cancer Xenograft Mice	Pharmaceutics	https://doi.org/10.3390/pharmaceutics18010079	2026	Thunyatorn, Yimsoo, Weerakit, Taychaworaditsakul, Hathaichanok, Chuntakaruk, Worapapar, Treesuppharat, Sumet, Kongkiatpaiboon, Apipu, Ariyachayut, Sunee, Chansakaow, Teera, Chewonarin, Parirat, Khonsung, Seewaboon, Sireeratawong	No
PARPi Combining Nanoparticle LIN28B siRNA for the Management of Malignant Ascites	Advanced Science	https://doi.org/10.1002/advs.202510547	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
PARPi Combining Nanoparticle LIN28B siRNA for the Management of Malignant Ascites	Advanced Science	https://doi.org/10.1002/advs.202510547	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	https://doi.org/10.3390/cells15020171	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, Yzydorczyk	No
Preserved Function of Endothelial Colony-Forming Cells in Female Rats with Intrauterine Growth Restriction: Protection Against Arterial Hypertension and Arterial Stiffness?	Cells	https://doi.org/10.3390/cells15020171	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, Yzydorczyk	No
Crotonate suppresses breast cancer metastasis and promotes immunotherapy response by inducing ACSS2-mediated EZH2-K348 crotonylation	Sci. Adv	https://www.science.org	2026	Bo, Liu, Xinwei, Duan, Ge, Wang, Youzhi, Tang, Kunhao, Zhou, Jing, Zhang, Yu, Yu, Hongquan, Zhang	No
Crotonate suppresses breast cancer metastasis and promotes immunotherapy response by inducing ACSS2-mediated EZH2-K348 crotonylation	Sci. Adv	https://www.science.org	2026	Bo, Liu, Xinwei, Duan, Ge, Wang, Youzhi, Tang, Kunhao, Zhou, Jing, Zhang, Yu, Yu, Hongquan, Zhang	No
Treatment of clonal hematopoiesis associated atherosclerosis via vaccine-based clearance of the mutant cells	Journal of Advanced Research	https://doi.org/10.1016/j.jare.2026.01.040	2026	Shuang, Liang, Wenxin, Tao, Di, Qu, Panpan, Ji, Zhenzhen, Hao, Mengying, Wei, Guodong, Yang, Xueying, Zhou, Chen, Wang, Lijun, Yuan	No
Treatment of clonal hematopoiesis associated atherosclerosis via vaccine-based clearance of the mutant cells	Journal of Advanced Research	https://doi.org/10.1016/j.jare.2026.01.040	2026	Shuang, Liang, Wenxin, Tao, Di, Qu, Panpan, Ji, Zhenzhen, Hao, Mengying, Wei, Guodong, Yang, Xueying, Zhou, Chen, Wang, Lijun, Yuan	No

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SREBP1-mediated lipogenesis promotes dedifferentiation and senescence of vascular smooth muscle cells through epigenetic remodeling	Nature Communications	https://doi.org/10.1038/s41467-025-67534-6	2025	Bowen, Li, Kaixiang, Zhou, Anan, Yin, Yonghong, Liu, Xichen, Wang, Yujia, Cui, Fangfang, Liu, Qiurong, Liu, Hongjing, Zheng, Zhiqiang, Mu, Kun, Chen, Yuanming, Wu, Yaoming, Chang, Junxiang, Bao	No
SREBP1-mediated lipogenesis promotes dedifferentiation and senescence of vascular smooth muscle cells through epigenetic remodeling	Nature Communications	https://doi.org/10.1038/s41467-025-67534-6	2025	Bowen, Li, Kaixiang, Zhou, Anan, Yin, Yonghong, Liu, Xichen, Wang, Yujia, Cui, Fangfang, Liu, Qiurong, 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	https://doi.org/10.1016/j.yrtph.2026.106030	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
Prolonged exposure to nitrate in drinking water does not adversely impact prenatal or birth outcomes in a rat model	Regulatory Toxicology and Pharmacology	https://doi.org/10.1016/j.yrtph.2026.106030	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	https://doi.org/10.1038/s41420-025-02892-0	2025	Anya 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
miR-155 suppresses angiotensin II type 1 receptor synthesis during placental morphogenesis	Cell Death Discovery	https://doi.org/10.1038/s41420-025-02892-0	2025	Anya 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