

Title	Journal	Link	Publication date	References	Top Paper
Commercial 4-dimensional echocardiography for murine heart volumetric evaluation after myocardial infarction	Cardiovascular Ultrasound	https://cardiovascularultrasound.biomedcentral.com/articles/10.1186/s12947-020-00000-0	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/s12872-020-01360-0	2020	Elisabeth, Walsh-Wilkinson, Marie-Claude, Drolet, Marie, Arsenault, Jacques, Couet	Yes
Three-dimensional myocardial strain correlates with murine left ventricular remodeling 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
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=10.1115/1.4038881	2019	Hannah L., Cebull, Arvin H., Soepriatna, John J., Boyle, Sean M., Rothenberger, Craig J., Goergen	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=10.1115/1.4038881	2018	John, Boyle, Arvin, Soepriatna, Frederick, Damen, Roger, Rowe, Robert, Pless, Attila, Kovacs, Craig, Goergen, Stavros, Thomopoulos, Guy M., Genin	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/s12947-018-00000-0	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
High-Frequency 4-Dimensional Ultrasound (4DUS): A Reliable Method for Assessing Murine Cardiac Function	Tomography	http://fiipbook.tomography.org/publication/?i=463050&ver=html5&p=12	2017	Frederick W, Damen, Alycia G, Berman, Arvin H, Soepriatna, Jessica M, Ellis, Stephen D, Buttars, Kristiina L, Aasa, Craig J, Goergen	No