

Large Animal Models of Heart Failure

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Regeneration Next: Toward Heart Stem Cell Therapeutics. <i>Cell Stem Cell</i> , 2009, 5, 364-377.	11.1	166
2	Global and regional wall motion abnormalities of pacing-induced heart failure assessed by multi-detector row CT: a patient and canine model study. <i>International Journal of Cardiovascular Imaging</i> , 2010, 26, 223-235.	1.5	4
3	The Role of Phospho-Adenosine Monophosphate-Activated Protein Kinase and Vascular Endothelial Growth Factor in a Model of Chronic Heart Failure. <i>Artificial Organs</i> , 2010, 34, 969-979.	1.9	8
4	Letter by Schmitto et al Regarding Article "Large Animal Models of Heart Failure: A Critical Link in the Translation of Basic Science to Clinical Practice". <i>Circulation: Heart Failure</i> , 2010, 3, e3; author reply e4.	3.9	5
5	Response to Letter Regarding Article "Large Animal Models of Heart Failure: A Critical Link in the Translation of Basic Science to Clinical Practice". <i>Circulation: Heart Failure</i> , 2010, 3, .	3.9	0
6	Microenvironment and Macroenvironment in Hypertensive Hearts. <i>Hypertension</i> , 2010, 55, 1312-1313.	2.7	0
7	Challenges in Using Stem Cells for Cardiac Repair. <i>Science Translational Medicine</i> , 2010, 2, 27ps17.	12.4	92
8	Tissue Engineering in Regenerative Medicine. , 2011, , .		7
9	Targeted Gene Therapy for the Treatment of Heart Failure. <i>Canadian Journal of Cardiology</i> , 2011, 27, 265-283.	1.7	35
10	Development of porcine model of chronic tachycardia-induced cardiomyopathy. <i>International Journal of Cardiology</i> , 2011, 153, 36-41.	1.7	19
11	S100A1 gene therapy for heart failure: A novel strategy on the verge of clinical trials. <i>Journal of Molecular and Cellular Cardiology</i> , 2011, 50, 777-784.	1.9	30
12	Large animal models for cardiac stem cell therapies. <i>Theriogenology</i> , 2011, 75, 1416-1425.	2.1	48
13	In search of new therapeutic targets and strategies for heart failure: recent advances in basic science. <i>Lancet, The</i> , 2011, 378, 704-712.	13.7	257
14	Intramuscular IL-12 Electrogene Therapy for Treatment of Spontaneous Canine Tumors. , 2011, , .		6
15	Adenosine Receptor mRNA Expression in Normal and Failing Minipig Hearts. <i>Journal of Cardiovascular Pharmacology</i> , 2011, 58, 149-156.	1.9	11
16	Differentiation of Arginine Vasopressin Antagonistic Effects by Selective V2 versus Dual V2/V1a Receptor Blockade in a Preclinical Heart Failure Model. <i>American Journal of Therapeutics</i> , 2011, 18, 31-37.	0.9	16
17	Left ventricular remodeling in swine after myocardial infarction: a transcriptional genomics approach. <i>Basic Research in Cardiology</i> , 2011, 106, 1269-1281.	5.9	23
18	Recent advances in the use of <i>Sus scrofa</i> (pig) as a model system for proteomic studies. <i>Proteomics</i> , 2011, 11, 776-793.	2.2	156

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19	Model-specific selection of molecular targets for heart failure gene therapy. Journal of Gene Medicine, 2011, 13, 573-586.	2.8	10
20	Selection of reference genes for normalization of real-time PCR data in minipig heart failure model and evaluation of TNF- α mRNA expression. Journal of Biotechnology, 2011, 153, 92-99.	3.8	50
21	Targeted Imaging of the Spatial and Temporal Variation of Matrix Metalloproteinase Activity in a Porcine Model of Postinfarct Remodeling. Circulation: Cardiovascular Imaging, 2011, 4, 381-391.	2.6	92
22	An Ovine Model of Postinfarction Dilated Cardiomyopathy in Animals with Highly Variable Coronary Anatomy. ILAR Journal, 2011, 52, E16-E21.	1.8	16
23	Bovine Model of Doxorubicin-Induced Cardiomyopathy. Journal of Biomedicine and Biotechnology, 2011, 2011, 1-11.	3.0	17
24	Cardiac AAV9-S100A1 Gene Therapy Rescues Post-Ischemic Heart Failure in a Preclinical Large Animal Model. Science Translational Medicine, 2011, 3, 92ra64.	12.4	197
25	Low-intensity interval exercise training attenuates coronary vascular dysfunction and preserves Ca ²⁺ -sensitive K ⁺ current in miniature swine with LV hypertrophy. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 301, H1687-H1694.	3.2	29
26	Development of a preclinical model of ischemic cardiomyopathy in swine. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 301, H530-H537.	3.2	20
27	Animal Models of Heart Failure. Circulation Research, 2012, 111, 131-150.	4.5	378
28	Brain Growth of the Domestic Pig <i>(Sus scrofa)</i> from 2 to 24 Weeks of Age: A Longitudinal MRI Study. Developmental Neuroscience, 2012, 34, 291-298.	2.0	160
29	Magnetic resonance imaging of the neonatal piglet brain. Pediatric Research, 2012, 71, 179-184.	2.3	25
30	Attenuated Ventricular β -Adrenergic Response and Reduced Repolarization Reserve in a Rabbit Model of Chronic Heart Failure. Journal of Cardiovascular Pharmacology, 2012, 59, 142-150.	1.9	9
31	Pig proteomics: A review of a species in the crossroad between biomedical and food sciences. Journal of Proteomics, 2012, 75, 4296-4314.	2.4	70
32	Regional evidence of modulation of cardiac adiponectin level in dilated cardiomyopathy: pilot study in a porcine animal model. Cardiovascular Diabetology, 2012, 11, 143.	6.8	10
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41	Development of a novel drive mode to prevent aortic insufficiency during continuous-flow LVAD support by synchronizing rotational speed with heartbeat. Journal of Artificial Organs, 2013, 16, 129-137.	0.9	40
42	Right Ventricular Pacing With Mechanical Dyssynchrony Causes Apoptosis Interruptus and Calcium Mishandling. Canadian Journal of Cardiology, 2013, 29, 510-518.	1.7	10
43	Prophylactic and therapeutic effects of garlic extract on Nerium oleander-induced arrhythmia: a new approach to antiarrhythmic therapy in an ovine model. Clinical Toxicology, 2013, 51, 737-747.	1.9	8
44	Prophylactic amiodarone and lidocaine improve survival in an ovine model of large size myocardial infarction. Journal of Surgical Research, 2013, 185, 152-158.	1.6	13
45	The Lambeth Conventions (II): Guidelines for the study of animal and human ventricular and supraventricular arrhythmias. , 2013, 139, 213-248.		246
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48	Perspective and challenges of mesenchymal stem cells for cardiovascular regeneration. Expert Review of Cardiovascular Therapy, 2013, 11, 505-517.	1.5	47
49	S100A1 Gene Therapy in Small and Large Animals. Methods in Molecular Biology, 2013, 963, 407-420.	0.9	8
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52	A Nonthoracotomy Myocardial Infarction Model in an Ovine Using Autologous Platelets. BioMed Research International, 2013, 2013, 1-7.	1.9	13
53	Development of a Closed Chest Model of Chronic Myocardial Infarction in Swine: Magnetic Resonance Imaging and Pathological Evaluation. ISRN Cardiology, 2013, 2013, 1-8.	1.6	21
54	In Vitro Comparison of Doppler and Catheter-Measured Pressure Gradients in 3D Models of Mitral Valve Calcification. Journal of Biomechanical Engineering, 2013, 135, 94502.	1.3	6
55	A New Dual-Promoter System for Cardiomyocyte-Specific Conditional Induction of Apoptosis. BioMed Research International, 2013, 2013, 1-9.	1.9	4

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56	Benefits of Aggressive Medical Management in a Bovine Model of Chronic Ischemic Heart Failure. ASAIO Journal, 2013, 59, 221-229.	1.6	11
57	Heart Failure Gene Therapy. Circulation Research, 2013, 113, 792-809.	4.5	61
58	Zebrafish Heart Failure Models for the Evaluation of Chemical Probes and Drugs. Assay and Drug Development Technologies, 2013, 11, 561-572.	1.2	36
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67	Cardiac regeneration using pluripotent stem cells—Progression to large animal models. Stem Cell Research, 2014, 13, 654-665.	0.7	87
68	Therapeutic safety of high myocardial expression levels of the molecular inotrope S100A1 in a preclinical heart failure model. Gene Therapy, 2014, 21, 131-138.	4.5	36
69	Gene reprogramming in exercise-induced cardiac hypertrophy in swine: A transcriptional genomics approach. Journal of Molecular and Cellular Cardiology, 2014, 77, 168-174.	1.9	10
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72	Pig models for the human heart failure syndrome. Cardiovascular Endocrinology, 2014, 3, 15-18.	0.8	2
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75	Human embryonic-stem-cell-derived cardiomyocytes regenerate non-human primate hearts. <i>Nature</i> , 2014, 510, 273-277.	27.8	1,194
76	The use of gadolinium-carbon nanostructures to magnetically enhance stem cell retention for cellular cardiomyoplasty. <i>Biomaterials</i> , 2014, 35, 720-726.	11.4	24
77	Small and large animal models in cardiac contraction research: Advantages and disadvantages. , 2014, 141, 235-249.		352
78	Top-down Proteomics Reveals Concerted Reductions in Myofilament and Z-disc Protein Phosphorylation after Acute Myocardial Infarction. <i>Molecular and Cellular Proteomics</i> , 2014, 13, 2752-2764.	3.8	96
79	Dendrimer Brain Uptake and Targeted Therapy for Brain Injury in a Large Animal Model of Hypothermic Circulatory Arrest. <i>ACS Nano</i> , 2014, 8, 2134-2147.	14.6	127
80	Immunohistochemical toolkit for tracking and quantifying xenotransplanted human stem cells. <i>Regenerative Medicine</i> , 2014, 9, 437-452.	1.7	39
81	Construction of a cDNA library for miniature pig mandibular deciduous molars. <i>BMC Developmental Biology</i> , 2014, 14, 16.	2.1	18
82	Injectable Cell Constructs Fabricated via Culture on a Thermoresponsive Methylcellulose Hydrogel System for the Treatment of Ischemic Diseases. <i>Advanced Healthcare Materials</i> , 2014, 3, 1133-1148.	7.6	29
83	Alternation of left ventricular load by a continuous-flow left ventricular assist device with a native heart load control system in a chronic heart failure model. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2014, 148, 698-704.	0.8	18
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90	Sex differences in porcine left ventricular myocardial remodeling due to right ventricular pacing. <i>Biology of Sex Differences</i> , 2015, 6, 32.	4.1	4
91	Extracellular Matrix Communication and Turnover in Cardiac Physiology and Pathology. , 2015, 5, 687-719.		93

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94	Cardiovascular imaging: what have we learned from animal models?. Frontiers in Pharmacology, 2015, 6, 227.	3.5	20
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103	Animal Models of Disease States. , 2015, , 307-343.		0
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105	The pathophysiology of pulmonary hypertension in left heart disease. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2015, 309, L924-L941.	2.9	52
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107	A role for membrane shape and information processing in cardiac physiology. Pflügers Archiv European Journal of Physiology, 2015, 467, 167-173.	2.8	13
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111	Patterns of arterial vascularization in swine hearts. Pesquisa Veterinaria Brasileira, 2016, 36, 417-422.	0.5	1
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113	Engineered Swine Models of Cancer. Frontiers in Genetics, 2016, 7, 78.	2.3	56
114	What Is the Optimal Setting for a Continuousâ€Flow Left Ventricular Assist Device in Severe Mitral Regurgitation?. Artificial Organs, 2016, 40, 1039-1045.	1.9	8
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119	Translation of Cardiac Myosin Activation With 2-Deoxy-ATP to Treat Heart Failure Via an Experimental Ribonucleotide Reductase-Based Gene Therapy. JACC Basic To Translational Science, 2016, 1, 666-679.	4.1	7
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121	Comparative aspects of rodent and nonrodent animal models for mechanistic and translational diabetes research. Theriogenology, 2016, 86, 406-421.	2.1	53
122	Cardiac Myosin Activation with Gene Therapy Produces Sustained Inotropic Effects and May Treat Heart Failure with Reduced Ejection Fraction. Handbook of Experimental Pharmacology, 2016, 243, 447-464.	1.8	3
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130	Optimized method for isolating highly purified and functional porcine aortic endothelial and smooth muscle cells. <i>Journal of Cellular Physiology</i> , 2017, 232, 3139-3145.	4.1	8
131	Myocardial fibrosis: biomedical research from bench to bedside. <i>European Journal of Heart Failure</i> , 2017, 19, 177-191.	7.1	280
132	Multiparametric CMR imaging of infarct remodeling in a percutaneous reperfused Yucatan mini-pig model. <i>NMR in Biomedicine</i> , 2017, 30, e3693.	2.8	9
133	Distinct sequences and post-translational modifications in cardiac atrial and ventricular myosin light chains revealed by top-down mass spectrometry. <i>Journal of Molecular and Cellular Cardiology</i> , 2017, 107, 13-21.	1.9	28
135	Neuroanatomy of the Pig Cardiac Ventricles. A Stereomicroscopic, Confocal and Electron Microscope Study. <i>Anatomical Record</i> , 2017, 300, 1756-1780.	1.4	24
136	Cryoinjury-induced acute myocardial infarction model and ameroid constrictor-induced ischemic heart disease model in adult micro-mini pigs for preclinical studies. <i>Translational Medicine Communications</i> , 2017, 2, .	1.4	4
137	Use of Adeno-Associated Virus Vector for Cardiac Gene Delivery in Large-Animal Surgical Models of Heart Failure. <i>Human Gene Therapy Clinical Development</i> , 2017, 28, 157-164.	3.1	27
138	A Hyper-Crosslinked Carbohydrate Polymer Scaffold Facilitates Lineage Commitment and Maintains a Reserve Pool of Proliferating Cardiovascular Progenitors. <i>Transplantation Direct</i> , 2017, 3, e153.	1.6	8
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140	Can dendrimer based nanoparticles fight neurodegenerative diseases? Current situation versus other established approaches. <i>Progress in Polymer Science</i> , 2017, 64, 23-51.	24.7	54
141	Protein Kinase C Inhibition With Ruboxistaurin Increases Contractility and Reduces Heart Size in a Swine Model of Heart Failure With Reduced Ejection Fraction. <i>JACC Basic To Translational Science</i> , 2017, 2, 669-683.	4.1	8
142	Large animal model of functional tricuspid regurgitation in pacing induced end-stage heart failure. <i>Interactive Cardiovascular and Thoracic Surgery</i> , 2017, 24, 905-910.	1.1	20
143	Analysis of Serum Cholesterol Efflux Capacity in a Minipig Model of Nonischemic Heart Failure. <i>Journal of Atherosclerosis and Thrombosis</i> , 2017, 24, 853-862.	2.0	2
144	An Interposed Pad in Open-Chest Echocardiographic Porcine Scans for Mimicking Ultrasound Signal Attenuation in a Human Chest. <i>Journal of Ultrasound in Medicine</i> , 2018, 37, 501-509.	1.7	5
145	Genome Editing and Induced Pluripotent Stem Cell Technologies for Personalized Study of Cardiovascular Diseases. <i>Current Cardiology Reports</i> , 2018, 20, 38.	2.9	1
146	Comprehensive Characterization of Swine Cardiac Troponin T Proteoforms by Top-Down Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 1284-1294.	2.8	15
147	Preclinical Studies of Stem Cell Therapy for Heart Disease. <i>Circulation Research</i> , 2018, 122, 1006-1020.	4.5	104
148	Tachycardia-Induced Cardiomyopathy As a Chronic Heart Failure Model in Swine. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	8

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154	Agricultural Animals as Biomedical Models: Occupational Health and Safety Considerations. ILAR Journal, 2018, 59, 161-167.	1.8	6
155	Scar Size and Other Parameters for Tracking Left Ventricular Dysfunction after Induction of Myocardial Infarcts in Sheep (Ovis aries). Comparative Medicine, 2018, 68, 215-220.	1.0	1
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158	Animal Models and Cardiac Extracellular Matrix Research. Advances in Experimental Medicine and Biology, 2018, 1098, 45-58.	1.6	4
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161	Canine Model of Pacing-Induced Heart Failure. Methods in Molecular Biology, 2018, 1816, 309-325.	0.9	6
163	Zebrafish heart failure models: opportunities and challenges. Amino Acids, 2018, 50, 787-798.	2.7	28
164	Remote Left Ventricular Hemodynamic Monitoring Using a Novel Intracardiac Sensor. Circulation: Cardiovascular Interventions, 2018, 11, e006258.	3.9	7
165	Decreased contractility and altered responses to inotropic agents in myocytes from tachypacing-induced heart failure canines. Journal of Pharmacological and Toxicological Methods, 2018, 93, 98-107.	0.7	16
166	Large Animal Models for the Clinical Application of Human Induced Pluripotent Stem Cells. Stem Cells and Development, 2019, 28, 1288-1298.	2.1	15
168	Injectable Hydrogels to Treat Myocardial Infarction. , 2019, , 185-206.		3
169	ETV2/ER71 Transcription Factor as a Therapeutic Vehicle for Cardiovascular Disease. Theranostics, 2019, 9, 5694-5705.	10.0	14

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170	Large Animal Models of Heart Failure With Reduced Ejection Fraction (HFrEF). <i>Frontiers in Cardiovascular Medicine</i> , 2019, 6, 117.	2.4	35
171	Translational Models of Arrhythmia Mechanisms and Susceptibility: Success and Challenges of Modeling Human Disease. <i>Frontiers in Cardiovascular Medicine</i> , 2019, 6, 135.	2.4	13
172	Two-Dimensional Culture Systems to Enable Mechanics-Based Assays for Stem Cell-Derived Cardiomyocytes. <i>Experimental Mechanics</i> , 2019, 59, 1235-1248.	2.0	10
173	Comprehensive cardiac phenotyping in large animals: comparison of pressure-volume analysis and cardiac magnetic resonance imaging in pig post-myocardial infarction systolic heart failure. <i>International Journal of Cardiovascular Imaging</i> , 2019, 35, 1691-1699.	1.5	5
174	Modeling heart failure in animal models for novel drug discovery and development. <i>Expert Opinion on Drug Discovery</i> , 2019, 14, 355-363.	5.0	5
175	A mouse model of heart failure exhibiting pulmonary edema and pleural effusion: Useful for testing new drugs. <i>Journal of Pharmacological and Toxicological Methods</i> , 2019, 96, 78-86.	0.7	4
176	A Large Animal Model of Right Ventricular Failure due to Chronic Thromboembolic Pulmonary Hypertension: A Focus on Function. <i>Frontiers in Cardiovascular Medicine</i> , 2019, 5, 189.	2.4	9
177	Impaired Baroreflex Function in an Ovine Model of Chronic Heart Failure Induced by Multiple Coronary Microembolizations. <i>Frontiers in Physiology</i> , 2019, 10, 1420.	2.8	3
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