Merry L Lindsey

List of Publications by Citations

240 papers	10,827 citations	59 h-index	96 g-index
281 ext. papers	12,844 ext. citations	5.9 avg, IF	6.5 L-index

#	Paper	IF	Citations
240	Targeted deletion of matrix metalloproteinase-9 attenuates left ventricular enlargement and collagen accumulation after experimental myocardial infarction. *Journal of Clinical Investigation*, **2000**, 106, 55-62	15.9	626
239	Resident cardiac mast cells degranulate and release preformed TNF-alpha, initiating the cytokine cascade in experimental canine myocardial ischemia/reperfusion. *Circulation*, **1998**, 98, 699-710	16.7	393
238	Endothelial nitric oxide synthase limits left ventricular remodeling after myocardial infarction in mice. *Circulation*, **2001**, 104, 1286-91	16.7	263
237	Macrophage roles following myocardial infarction. *International Journal of Cardiology*, **2008**, 130, 147-58	3.2	258
236	Guidelines for experimental models of myocardial ischemia and infarction. *American Journal of Physiology - Heart and Circulatory Physiology*, **2018**, 314, H812-H838	5.2	249
235	Matrix metalloproteinase-9: Many shades of function in cardiovascular disease. *Physiology*, **2013**, 28, 391-403	9.8	248
234	IL-10 is induced in the reperfused myocardium and may modulate the reaction to injury. *Journal of Immunology*, **2000**, 165, 2798-808	5.3	230
233	Matrix-dependent mechanism of neutrophil-mediated release and activation of matrix metalloproteinase 9 in myocardial ischemia/reperfusion. *Circulation*, **2001**, 103, 2181-7	16.7	194
232	Temporal neutrophil polarization following myocardial infarction. *Cardiovascular Research*, **2016**, 110, 51-61	9.9	177
231	IL-10 improves cardiac remodeling after myocardial infarction by stimulating M2 macrophage polarization and fibroblast activation. *Basic Research in Cardiology*, **2017**, 112, 33	11.8	172
230	Selective matrix metalloproteinase inhibition reduces left ventricular remodeling but does not inhibit angiogenesis after myocardial infarction. *Circulation*, **2002**, 105, 753-8	16.7	168
229	Matrix metalloproteinase-9 gene deletion facilitates angiogenesis after myocardial infarction. *American Journal of Physiology - Heart and Circulatory Physiology*, **2006**, 290, H232-9	5.2	162
228	Stem cell factor induction is associated with mast cell accumulation after canine myocardial ischemia and reperfusion. *Circulation*, **1998**, 98, 687-98	16.7	153
227	Cardiac macrophage biology in the steady-state heart, the aging heart, and following myocardial infarction. *Translational Research*, **2018**, 191, 15-28	11	153
226	Matrix metalloproteinase (MMP)-9: a proximal biomarker for cardiac remodeling and a distal biomarker for inflammation. *Pharmacology & Therapeutics*, **2013**, 139, 32-40	13.9	152
225	Matrix metalloproteinase-28 deletion exacerbates cardiac dysfunction and rupture after myocardial infarction in mice by inhibiting M2 macrophage activation. *Circulation Research*, **2013**, 112, 675-88	15.7	150
224	Cytokines and the microcirculation in ischemia and reperfusion. *Journal of Molecular and Cellular Cardiology*, **1998**, 30, 2567-76	5.8	150

223	Guidelines for measuring cardiac physiology in mice. *American Journal of Physiology - Heart and Circulatory Physiology*, **2018**, 314, H733-H752	5.2	137
222	Age-dependent changes in myocardial matrix metalloproteinase/tissue inhibitor of metalloproteinase profiles and fibroblast function. *Cardiovascular Research*, **2005**, 66, 410-9	9.9	131
221	Induction of monocyte chemoattractant protein-1 in the small veins of the ischemic and reperfused canine myocardium. *Circulation*, **1997**, 95, 693-700	16.7	129
220	Matrix metalloproteinase-7 affects connexin-43 levels, electrical conduction, and survival after myocardial infarction. *Circulation*, **2006**, 113, 2919-28	16.7	121
219	Mapping macrophage polarization over the myocardial infarction time continuum. *Basic Research in Cardiology*, **2018**, 113, 26	11.8	120
218	Streptococcus pneumoniae translocates into the myocardium and forms unique microlesions that disrupt cardiac function. *PLoS Pathogens*, **2014**, 10, e1004383	7.6	119
217	Matrix metalloproteinase-9 deletion attenuates myocardial fibrosis and diastolic dysfunction in ageing mice. *Cardiovascular Research*, **2012**, 96, 444-55	9.9	118
216	The crossroads of inflammation, fibrosis, and arrhythmia following myocardial infarction. *Journal of Molecular and Cellular Cardiology*, **2016**, 91, 114-22	5.8	116
215	Matrix Metalloproteinases in Myocardial Infarction and Heart Failure. *Progress in Molecular Biology and Translational Science*, **2017**, 147, 75-100	4	116
214	Neutrophil roles in left ventricular remodeling following myocardial infarction. *Fibrogenesis and Tissue Repair*, **2013**, 6, 11		113
213	Transformative Impact of Proteomics on Cardiovascular Health and Disease: A Scientific Statement From the American Heart Association. *Circulation*, **2015**, 132, 852-72	16.7	112
212	Monoamine oxidase B prompts mitochondrial and cardiac dysfunction in pressure overloaded hearts. *Antioxidants and Redox Signaling*, **2014**, 20, 267-80	8.4	112
211	Deletion of thioredoxin-interacting protein in mice impairs mitochondrial function but protects the myocardium from ischemia-reperfusion injury. *Journal of Clinical Investigation*, **2012**, 122, 267-79	15.9	112
210	The impact of aging on cardiac extracellular matrix. *GeroScience*, **2017**, 39, 7-18	8.9	109
209	A Novel Collagen Matricryptin Reduces Left Ventricular Dilation Post-Myocardial Infarction by Promoting Scar Formation and Angiogenesis. *Journal of the American College of Cardiology*, **2015**, 66, 1364-74	15.1	101
208	The history of matrix metalloproteinases: milestones, myths, and misperceptions. *American Journal of Physiology - Heart and Circulatory Physiology*, **2012**, 303, H919-30	5.2	101
207	Temporal and spatial expression of matrix metalloproteinases and tissue inhibitors of metalloproteinases following myocardial infarction. *Cardiovascular Therapeutics*, **2012**, 30, 31-41	3.3	100
206	Extracellular matrix remodeling following myocardial injury. *Annals of Medicine*, **2003**, 35, 316-26	1.5	100

205	Towards better definition, quantification and treatment of fibrosis in heart failure. A scientific roadmap by the Committee of Translational Research of the Heart Failure Association (HFA) of the European Society of Cardiology. *European Journal of Heart Failure*, **2019**, 21, 272-285	12.3	99
204	Altered fibroblast function following myocardial infarction. *Journal of Molecular and Cellular Cardiology*, **2005**, 39, 699-707	5.8	99
203	Cardiac Fibroblast Activation Post-Myocardial Infarction: Current Knowledge Gaps. *Trends in Pharmacological Sciences*, **2017**, 38, 448-458	13.2	94
202	Extracellular matrix turnover and signaling during cardiac remodeling following MI: causes and consequences. *Journal of Molecular and Cellular Cardiology*, **2010**, 48, 558-63	5.8	83
201	beta-blockade prevents sustained metalloproteinase activation and diastolic stiffening induced by angiotensin II combined with evolving cardiac dysfunction. *Circulation Research*, **2000**, 86, 807-15	15.7	82
200	Proteomic analysis identifies in vivo candidate matrix metalloproteinase-9 substrates in the left ventricle post-myocardial infarction. *Proteomics*, **2010**, 10, 2214-23	4.8	81
199	MMP induction and inhibition in myocardial infarction. *Heart Failure Reviews*, **2004**, 9, 7-19	5	79
198	Extracellular matrix roles during cardiac repair. *Life Sciences*, **2010**, 87, 391-400	6.8	77
197	Age-related cardiac muscle sarcopenia: Combining experimental and mathematical modeling to identify mechanisms. *Experimental Gerontology*, **2008**, 43, 296-306	4.5	77
196	Fibroblast polarization over the myocardial infarction time continuum shifts roles from inflammation to angiogenesis. *Basic Research in Cardiology*, **2019**, 114, 6	11.8	72
195	Myofibroblasts and the extracellular matrix network in post-myocardial infarction cardiac remodeling. *Pflugers Archiv European Journal of Physiology*, **2014**, 466, 1113-27	4.6	70
194	Long-lived ames dwarf mice are resistant to chemical stressors. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2009**, 64, 819-27	6.4	70
193	Matrix metalloproteinases as input and output signals for post-myocardial infarction remodeling. *Journal of Molecular and Cellular Cardiology*, **2016**, 91, 134-40	5.8	67
192	Early matrix metalloproteinase-12 inhibition worsens post-myocardial infarction cardiac dysfunction by delaying inflammation resolution. *International Journal of Cardiology*, **2015**, 185, 198-208	3.2	66
191	MMP-9 signaling in the left ventricle following myocardial infarction. *American Journal of Physiology - Heart and Circulatory Physiology*, **2016**, 311, H190-8	5.2	64
190	LXR/RXR signaling and neutrophil phenotype following myocardial infarction classify sex differences in remodeling. *Basic Research in Cardiology*, **2018**, 113, 40	11.8	64
189	Understanding cardiac extracellular matrix remodeling to develop biomarkers of myocardial infarction outcomes. *Matrix Biology*, **2019**, 75-76, 43-57	11.4	64
188	Myocardial matrix metalloproteinase-2: inside out and upside down. *Journal of Molecular and Cellular Cardiology*, **2014**, 77, 64-72	5.8	63

187	Texas 3-step decellularization protocol: looking at the cardiac extracellular matrix. *Journal of Proteomics*, **2013**, 86, 43-52	3.9	62
186	Toll-like receptor (TLR) 2 and TLR4 differentially regulate doxorubicin induced cardiomyopathy in mice. *PLoS ONE*, **2012**, 7, e40763	3.7	62
185	Deriving a cardiac ageing signature to reveal MMP-9-dependent inflammatory signalling in senescence. *Cardiovascular Research*, **2015**, 106, 421-31	9.9	61
184	CD36 Is a Matrix Metalloproteinase-9 Substrate That Stimulates Neutrophil Apoptosis and Removal During Cardiac Remodeling. *Circulation: Cardiovascular Genetics*, **2016**, 9, 14-25		61
183	Transgenic overexpression of matrix metalloproteinase-9 in macrophages attenuates the inflammatory response and improves left ventricular function post-myocardial infarction. *Journal of Molecular and Cellular Cardiology*, **2012**, 53, 599-608	5.8	60
182	Obesity superimposed on aging magnifies inflammation and delays the resolving response after myocardial infarction. *American Journal of Physiology - Heart and Circulatory Physiology*, **2015**, 308, H269-80	5.2	59
181	Assigning matrix metalloproteinase roles in ischaemic cardiac remodelling. *Nature Reviews Cardiology*, **2018**, 15, 471-479	14.8	58
180	Caveolin-1 deletion exacerbates cardiac interstitial fibrosis by promoting M2 macrophage activation in mice after myocardial infarction. *Journal of Molecular and Cellular Cardiology*, **2014**, 76, 84-93	5.8	56
179	Extracellular matrix and fibroblast communication following myocardial infarction. *Journal of Cardiovascular Translational Research*, **2012**, 5, 848-57	3.3	55
178	SPARC mediates early extracellular matrix remodeling following myocardial infarction. *American Journal of Physiology - Heart and Circulatory Physiology*, **2011**, 301, H497-505	5.2	54
177	Myocardial Infarction Superimposed on Aging: MMP-9 Deletion Promotes M2 Macrophage Polarization. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2016**, 71, 475-83	6.4	53
176	Building a better infarct: Modulation of collagen cross-linking to increase infarct stiffness and reduce left ventricular dilation post-myocardial infarction. *Journal of Molecular and Cellular Cardiology*, **2015**, 85, 229-39	5.8	52
175	Multi-analyte profiling reveals matrix metalloproteinase-9 and monocyte chemotactic protein-1 as plasma biomarkers of cardiac aging. *Circulation: Cardiovascular Genetics*, **2011**, 4, 455-62		51
174	Atherosclerosis exacerbates arrhythmia following myocardial infarction: Role of myocardial inflammation. *Heart Rhythm*, **2015**, 12, 169-78	6.7	50
173	CC chemokine receptor 5 deletion impairs macrophage activation and induces adverse remodeling following myocardial infarction. *American Journal of Physiology - Heart and Circulatory Physiology*, **2011**, 300, H1418-26	5.2	49
172	Harnessing the heart of big data. *Circulation Research*, **2015**, 116, 1115-9	15.7	47
171	Reduced BDNF attenuates inflammation and angiogenesis to improve survival and cardiac function following myocardial infarction in mice. *American Journal of Physiology - Heart and Circulatory Physiology*, **2013**, 305, H1830-42	5.2	47
170	Matrix metalloproteinase-28 deletion amplifies inflammatory and extracellular matrix responses to cardiac aging. *Microscopy and Microanalysis*, **2012**, 18, 81-90	0.5	47

169	Effects of deletion of the matrix metalloproteinase 9 gene on development of murine thoracic aortic aneurysms. *Circulation*, **2005**, 112, I242-8	16.7	47
168	Guidelines for authors and reviewers on antibody use in physiology studies. *American Journal of Physiology - Heart and Circulatory Physiology*, **2018**, 314, H724-H732	5.2	46
167	Statistical considerations in reporting cardiovascular research. *American Journal of Physiology - Heart and Circulatory Physiology*, **2018**, 315, H303-H313	5.2	45
166	Periodontal-induced chronic inflammation triggers macrophage secretion of Ccl12 to inhibit fibroblast-mediated cardiac wound healing. *JCI Insight*, **2017**, 2,	9.9	45
165	Cardiac aging is initiated by matrix metalloproteinase-9-mediated endothelial dysfunction. *American Journal of Physiology - Heart and Circulatory Physiology*, **2014**, 306, H1398-407	5.2	44
164	Caveolin-1 modulates TGF-1 signaling in cardiac remodeling. *Matrix Biology*, **2011**, 30, 318-29	11.4	44
163	In vivo matrix metalloproteinase-7 substrates identified in the left ventricle post-myocardial infarction using proteomics. *Journal of Proteome Research*, **2010**, 9, 2649-57	5.6	44
162	Early matrix metalloproteinase-9 inhibition post-myocardial infarction worsens cardiac dysfunction by delaying inflammation resolution. *Journal of Molecular and Cellular Cardiology*, **2016**, 100, 109-117	5.8	42
161	Neutrophil proteome shifts over the myocardial infarction time continuum. *Basic Research in Cardiology*, **2019**, 114, 37	11.8	41
160	Alterations in cultured myocardial fibroblast function following the development of left ventricular failure. *Journal of Molecular and Cellular Cardiology*, **2006**, 40, 474-83	5.8	41
159	Antiarrhythmic effects of interleukin 1 inhibition after myocardial infarction. *Heart Rhythm*, **2017**, 14, 727-736	6.7	40
158	Transgenic overexpression of macrophage matrix metalloproteinase-9 exacerbates age-related cardiac hypertrophy, vessel rarefaction, inflammation, and fibrosis. *American Journal of Physiology - Heart and Circulatory Physiology*, **2017**, 312, H375-H383	5.2	40
157	Myocardial infarction remodeling that progresses to heart failure: a signaling misunderstanding. *American Journal of Physiology - Heart and Circulatory Physiology*, **2018**, 315, H71-H79	5.2	39
156	And the beat goes on: maintained cardiovascular function during aging in the longest-lived rodent, the naked mole-rat. *American Journal of Physiology - Heart and Circulatory Physiology*, **2014**, 307, H284-91	5.2	39
155	Heart failure with preserved ejection fraction: emerging drug strategies. *Journal of Cardiovascular Pharmacology*, **2013**, 62, 13-21	3.1	39
154	Mathematical modeling and stability analysis of macrophage activation in left ventricular remodeling post-myocardial infarction. *BMC Genomics*, **2012**, 13 Suppl 6, S21	4.5	38
153	Combining experimental and mathematical modeling to reveal mechanisms of macrophage-dependent left ventricular remodeling. *BMC Systems Biology*, **2011**, 5, 60	3.5	37
152	Fibroblasts: The arbiters of extracellular matrix remodeling. *Matrix Biology*, **2020**, 91-92, 1-7	11.4	36

151	Walking the oxidative stress tightrope: a perspective from the naked mole-rat, the longest-living rodent. *Current Pharmaceutical Design*, **2011**, 17, 2290-307	3.3	36
150	Secreted protein acidic and rich in cysteine facilitates age-related cardiac inflammation and macrophage M1 polarization. *American Journal of Physiology - Cell Physiology*, **2015**, 308, C972-82	5.4	34
149	P. gingivalis lipopolysaccharide intensifies inflammation post-myocardial infarction through matrix metalloproteinase-9. *Journal of Molecular and Cellular Cardiology*, **2014**, 76, 218-26	5.8	34
148	Plasma Glycoproteomics Reveals Sepsis Outcomes Linked to Distinct Proteins in Common Pathways. *Critical Care Medicine*, **2015**, 43, 2049-2058	1.4	34
147	Age and SPARC change the extracellular matrix composition of the left ventricle. *BioMed Research International*, **2014**, 2014, 810562	3	33
146	Osteopontin is proteolytically processed by matrix metalloproteinase 9. *Canadian Journal of Physiology and Pharmacology*, **2015**, 93, 879-86	2.4	32
145	Translating KochÕs postulates to identify matrix metalloproteinase roles in postmyocardial infarction remodeling: cardiac metalloproteinase actions (CarMA) postulates. *Circulation Research*, **2014**, 114, 860-71	15.7	32
144	Circulating Porphyromonas gingivalis lipopolysaccharide resets cardiac homeostasis in mice through a matrix metalloproteinase-9-dependent mechanism. *Physiological Reports*, **2013**, 1, e00079	2.6	32
143	A multidimensional proteomic approach to identify hypertrophy-associated proteins. *Proteomics*, **2006**, 6, 2225-35	4.8	32
142	Knowledge gaps to understanding cardiac macrophage polarization following myocardial infarction. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2016**, 1862, 2288-2292	6.9	31
141	Matrix metalloproteinases: drug targets for myocardial infarction. *Current Drug Targets*, **2013**, 14, 276-86	3	31
140	The circular relationship between matrix metalloproteinase-9 and inflammation following myocardial infarction. *IUBMB Life*, **2015**, 67, 611-8	4.7	30
139	Aliskiren and valsartan mediate left ventricular remodeling post-myocardial infarction in mice through MMP-9 effects. *Journal of Molecular and Cellular Cardiology*, **2014**, 72, 326-35	5.8	30
138	Citrate synthase is a novel in vivo matrix metalloproteinase-9 substrate that regulates mitochondrial function in the postmyocardial infarction left ventricle. *Antioxidants and Redox Signaling*, **2014**, 21, 1974-85	8.4	29
137	The left ventricle proteome differentiates middle-aged and old left ventricles in mice. *Journal of Proteome Research*, **2008**, 7, 756-65	5.6	29
136	Increased ADAMTS1 mediates SPARC-dependent collagen deposition in the aging myocardium. *American Journal of Physiology - Endocrinology and Metabolism*, **2016**, 310, E1027-35	6	29
135	Getting to the heart of the matter: age-related changes in diastolic heart function in the longest-lived rodent, the naked mole rat. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2012**, 67, 384-94	6.4	28
134	Effect of a cleavage-resistant collagen mutation on left ventricular remodeling. *Circulation Research* , **2003**, 93, 238-45	15.7	28

133	Macrophage overexpression of matrix metalloproteinase-9 in aged mice improves diastolic physiology and cardiac wound healing after myocardial infarction. *American Journal of Physiology - Heart and Circulatory Physiology*, **2018**, 314, H224-H235	5.2	27
132	Proteomic analysis reveals late exercise effects on cardiac remodeling following myocardial infarction. *Journal of Proteomics*, **2010**, 73, 2041-9	3.9	27
131	Applications of miRNA technology for atherosclerosis. *Current Atherosclerosis Reports*, **2014**, 16, 386	6	26
130	Mechanisms to inhibit matrix metalloproteinase activity: where are we in the development of clinically relevant inhibitors?. *Recent Patents on Anti-Cancer Drug Discovery*, **2007**, 2, 135-42	2.6	26
129	Matrix Metalloproteinases: Drug Targets for Myocardial Infarction. *Current Drug Targets*, **2013**, 14, 276-286	3	26
128	Adapting extracellular matrix proteomics for clinical studies on cardiac remodeling post-myocardial infarction. *Clinical Proteomics*, **2016**, 13, 19	5	25
127	Effects of surface-modified scaffolds on the growth and differentiation of mouse adipose-derived stromal cells. *Journal of Tissue Engineering and Regenerative Medicine*, **2007**, 1, 211-7	4.4	25
126	Defining the sham environment for post-myocardial infarction studies in mice. *American Journal of Physiology - Heart and Circulatory Physiology*, **2016**, 311, H822-36	5.2	24
125	Cardiac function of the naked mole-rat: ecophysiological responses to working underground. *American Journal of Physiology - Heart and Circulatory Physiology*, **2014**, 306, H730-7	5.2	23
124	Cardiac extracellular proteome profiling and membrane topology analysis using glycoproteomics. *Proteomics - Clinical Applications*, **2014**, 8, 595-602	3.1	23
123	Using plasma matrix metalloproteinase-9 and monocyte chemoattractant protein-1 to predict future cardiovascular events in subjects with carotid atherosclerosis. *Atherosclerosis*, **2014**, 232, 231-3	3.1	23
122	Matrix metalloproteinase (MMP)-7 activates MMP-8 but not MMP-13. *Medicinal Chemistry*, **2006**, 2, 523-6	1.8	23
121	Interleukin 6 induction in the canine myocardium after cardiopulmonary bypass. *Journal of Thoracic and Cardiovascular Surgery*, **2000**, 120, 256-63	1.5	23
120	Cardiac fibroblast activation during myocardial infarction wound healing: Fibroblast polarization after MI. *Matrix Biology*, **2020**, 91-92, 109-116	11.4	23
119	Effects of early and late chronic pressure overload on extracellular matrix remodeling. *Hypertension Research*, **2008**, 31, 1225-31	4.7	22
118	Proteomic analysis of the cardiac extracellular matrix: clinical research applications. *Expert Review of Proteomics*, **2018**, 15, 105-112	4.2	21
117	ACE inhibitors to block MMP-9 activity: new functions for old inhibitors. *Journal of Molecular and Cellular Cardiology*, **2007**, 43, 664-6	5.8	21
116	Extracellular matrix roles in cardiorenal fibrosis: Potential therapeutic targets for CVD and CKD in the elderly. *Pharmacology & Therapeutics*, **2019**, 193, 99-120	13.9	20

115	Intercellular adhesion molecule-1 regulation in the canine lung after cardiopulmonary bypass. *Journal of Thoracic and Cardiovascular Surgery*, **1998**, 115, 689-98; discussion 698-9	1.5	20
114	Using proteomics to uncover extracellular matrix interactions during cardiac remodeling. *Proteomics - Clinical Applications*, **2013**, 7, 516-27	3.1	18
113	Bayesian parameter estimation for nonlinear modelling of biological pathways. *BMC Systems Biology*, **2011**, 5 Suppl 3, S9	3.5	18
112	Alterations of pulse pressure stimulate arterial wall matrix remodeling. *Journal of Biomechanical Engineering*, **2009**, 131, 101011	2.1	18
111	Chronic and intermittent hypoxia differentially regulate left ventricular inflammatory and extracellular matrix responses. *Hypertension Research*, **2012**, 35, 811-8	4.7	18
110	Cardiac wound healing post-myocardial infarction: a novel method to target extracellular matrix remodeling in the left ventricle. *Methods in Molecular Biology*, **2013**, 1037, 313-24	1.4	18
109	Exogenous CXCL4 infusion inhibits macrophage phagocytosis by limiting CD36 signalling to enhance post-myocardial infarction cardiac dilation and mortality. *Cardiovascular Research*, **2019**, 115, 395-408	9.9	18
108	Negative elongation factor controls energy homeostasis in cardiomyocytes. *Cell Reports*, **2014**, 7, 79-85	10.6	17
107	The tell-tale heart: molecular and cellular responses to childhood anthracycline exposure. *American Journal of Physiology - Heart and Circulatory Physiology*, **2014**, 307, H1379-89	5.2	16
106	Inhibiting metalloproteases with PD 166793 in heart failure: impact on cardiac remodeling and beyond. *Cardiovascular Drug Reviews*, **2008**, 26, 24-37		16
105	Stability analysis of genetic regulatory network with additive noises. *BMC Genomics*, **2008**, 9 Suppl 1, S21	4.5	16
104	Plasma monitoring of the myocardial specific tissue inhibitor of metalloproteinase-4 after alcohol septal ablation in hypertrophic obstructive cardiomyopathy. *Journal of Cardiac Failure*, **2005**, 11, 124-30	3.3	16
103	Menopause and FOXP3 Treg cell depletion eliminate female protection against T cell-mediated angiotensin II hypertension. *American Journal of Physiology - Heart and Circulatory Physiology*, **2019**, 317, H415-H423	5.2	15
102	Neutrophil signaling during myocardial infarction wound repair. *Cellular Signalling*, **2021**, 77, 109816	4.9	15
101	Alterations in Pulse Pressure Affect Artery Function. *Cellular and Molecular Bioengineering*, **2012**, 5, 474-487	3.9	13
100	Titin phosphorylation: myocardial passive stiffness regulated by the intracellular giant. *Circulation Research*, **2009**, 105, 611-3	15.7	13
99	Using extracellular matrix proteomics to understand left ventricular remodeling. *Circulation: Cardiovascular Genetics*, **2012**, 5, o1-7		13
98	Tissue Inhibitor of Metalloproteinase-1: Actions beyond Matrix Metalloproteinase Inhibition. *Cardiology*, **2015**, 132, 147-50	1.6	12

97	Exogenous IL-4 shuts off pro-inflammation in neutrophils while stimulating anti-inflammation in macrophages to induce neutrophil phagocytosis following myocardial infarction. *Journal of Molecular and Cellular Cardiology*, **2020**, 145, 112-121	5.8	12
96	Using systems biology approaches to understand cardiac inflammation and extracellular matrix remodeling in the setting of myocardial infarction. *Wiley Interdisciplinary Reviews: Systems Biology and Medicine*, **2014**, 6, 77-91	6.6	12
95	A conceptual cellular interaction model of left ventricular remodelling post-MI: dynamic network with exit-entry competition strategy. *BMC Systems Biology*, **2010**, 4 Suppl 1, S5	3.5	12
94	Common pathways and communication between the brain and heart: connecting post-traumatic stress disorder and heart failure. *Stress*, **2019**, 22, 530-547	3	11
93	Mathematical modeling of left ventricular dimensional changes in mice during aging. *BMC Systems Biology*, **2012**, 6 Suppl 3, S10	3.5	11
92	Novel strategies to delineate matrix metalloproteinase (MMP)-substrate relationships and identify targets to block MMP activity. *Mini-Reviews in Medicinal Chemistry*, **2006**, 6, 1243-8	3.2	11
91	Network Analysis Reveals a Distinct Axis of Macrophage Activation in Response to Conflicting Inflammatory Cues. *Journal of Immunology*, **2021**, 206, 883-891	5.3	11
90	The Mouse Heart Attack Research Tool 1.0 database. *American Journal of Physiology - Heart and Circulatory Physiology*, **2018**, 315, H522-H530	5.2	11
89	Obese and diabetic KKAy mice show increased mortality but improved cardiac function following myocardial infarction. *Cardiovascular Pathology*, **2013**, 22, 481-7	3.8	10
88	Artery buckling stimulates cell proliferation and NF-B signaling. *American Journal of Physiology - Heart and Circulatory Physiology*, **2014**, 307, H542-51	5.2	10
87	DHA derivatives of fish oil as dietary supplements: a nutrition-based drug discovery approach for therapies to prevent metabolic cardiotoxicity. *Expert Opinion on Drug Discovery*, **2012**, 7, 711-21	6.2	10
86	Integrative computational and experimental approaches to establish a post-myocardial infarction knowledge map. *PLoS Computational Biology*, **2014**, 10, e1003472	5	9
85	Phagocytes in ischemia injury. *Annals of the New York Academy of Sciences*, **1997**, 832, 243-65	6.5	9
84	Infarct in the Heart: What Is MMP-9 Got to Do with It?. *Biomolecules*, **2021**, 11,	5.9	9
83	Fish oil decreases inflammation and reduces cardiac remodeling in rosiglitazone treated aging mice. *Pharmacological Research*, **2011**, 63, 300-7	10.2	8
82	Estrogen effects on MMP-13 and MMP-14 regulation of left ventricular mass in Dahl salt-induced hypertension. *Gender Medicine*, **2008**, 5, 74-85		8
81	Dentin Sialoprotein is a Novel Substrate of Matrix Metalloproteinase 9 in vitro and in vivo. *Scientific Reports*, **2017**, 7, 42449	4.9	7
80	The compendium of matrix metalloproteinase expression in the left ventricle of mice following myocardial infarction. *American Journal of Physiology - Heart and Circulatory Physiology*, **2020**, 318, H706-H714	5.2	7

79	Systems analysis of gene ontology and biological pathways involved in post-myocardial infarction responses. *BMC Genomics*, **2015**, 16 Suppl 7, S18	4.5	7
78	Cardiac assessment in pediatric mice: strain analysis as a diagnostic measurement. *Echocardiography*, **2014**, 31, 375-84	1.5	7
77	Left ventricular remodeling: one small step for the extracellular matrix will translate to a giant leap for the myocardium. *Congestive Heart Failure*, **2013**, 19, E5-8		7
76	Guidelines for in vivo mouse models of myocardial infarction. *American Journal of Physiology - Heart and Circulatory Physiology*, **2021**, 321, H1056-H1073	5.2	7
75	Extracellular matrix in cardiovascular pathophysiology. *American Journal of Physiology - Heart and Circulatory Physiology*, **2018**, 315, H1687-H1690	5.2	7
74	Matrix metalloproteinase-12 as an endogenous resolution promoting factor following myocardial infarction. *Pharmacological Research*, **2018**, 137, 252-258	10.2	7
73	Glucose regulates the intrinsic inflammatory response of the heart to surgically induced hypothermic ischemic arrest and reperfusion. *Physiological Genomics*, **2017**, 49, 37-52	3.6	6
72	HDL-cholesterol levels and cardiovascular risk: acCETPing the context. *European Heart Journal*, **2008**, 29, 2708-9	9.5	6
71	Beta-blockade in heart failure: adding SENIORS to the mix. *European Heart Journal*, **2006**, 27, 506-7	9.5	6
70	Loss of in the Dahl Salt-Sensitive Rat Protects Against Hypertension-Induced Renal Injury. *Hypertension*, **2020**, 75, 1012-1024	8.5	5
69	Is isolated systolic hypertension worse than combined systolic/diastolic hypertension?. *Journal of Clinical Hypertension*, **2012**, 14, 808-9	2.3	5
68	Plasma fractionation enriches post-myocardial infarction samples prior to proteomics analysis. *International Journal of Proteomics*, **2012**, 2012, 397103		5
67	Glycoproteomic Profiling Provides Candidate Myocardial Infarction Predictors of Later Progression to Heart Failure. *ACS Omega*, **2019**, 4, 1272-1280	3.9	5
66	Cardiac aging: Send in the vinculin reinforcements. *Science Translational Medicine*, **2015**, 7, 292fs26	17.5	4
65	COVID-19 and cardiovascular disease: What we know, what we think we know, and what we need to know. *Journal of Molecular and Cellular Cardiology*, **2020**, 144, 12-14	5.8	4
64	Using the laws of thermodynamics to understand how matrix metalloproteinases coordinate the myocardial response to injury. *Metalloproteinases in Medicine*, **2015**, 2, 75-82	0.7	4
63	A two-for-one bargain: using cilnidipine to treat hypertension and its comorbidities. *Journal of Clinical Hypertension*, **2013**, 15, 455-7	2.3	4
62	Matrix Metalloproteinases: Drug Targets for Myocardial Infarction. *Current Drug Targets*, **2013**, 14, 276-286		4

61	Targeting myocardial infarction-specific protein interaction network using computational analyses **2011**,		4
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