

Manuel Mayr

List of Publications by Citations

Source: <https://exaly.com/author-pdf/2680879/manuel-mayr-publications-by-citations.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

246
papers

19,455
citations

77
h-index

133
g-index

274
ext. papers

22,818
ext. citations

9
avg, IF

6.53
L-index

#	Paper	IF	Citations
246	Plasma microRNA profiling reveals loss of endothelial miR-126 and other microRNAs in type 2 diabetes. <i>Circulation Research</i> , 2010 , 107, 810-7	15.7	1086
245	Atheroprotective communication between endothelial cells and smooth muscle cells through miRNAs. <i>Nature Cell Biology</i> , 2012 , 14, 249-56	23.4	967
244	Cardiac fibroblast-derived microRNA passenger strand-enriched exosomes mediate cardiomyocyte hypertrophy. <i>Journal of Clinical Investigation</i> , 2014 , 124, 2136-46	15.9	617
243	Cardioprotection and lifespan extension by the natural polyamine spermidine. <i>Nature Medicine</i> , 2016 , 22, 1428-1438	50.5	532
242	Serum soluble heat shock protein 60 is elevated in subjects with atherosclerosis in a general population. <i>Circulation</i> , 2000 , 102, 14-20	16.7	528
241	Chronic infections and the risk of carotid atherosclerosis: prospective results from a large population study. <i>Circulation</i> , 2001 , 103, 1064-70	16.7	432
240	Prospective study on circulating MicroRNAs and risk of myocardial infarction. <i>Journal of the American College of Cardiology</i> , 2012 , 60, 290-9	15.1	357
239	Vascular smooth muscle cell calcification is mediated by regulated exosome secretion. <i>Circulation Research</i> , 2015 , 116, 1312-23	15.7	319
238	Native T1 mapping in differentiation of normal myocardium from diffuse disease in hypertrophic and dilated cardiomyopathy. <i>JACC: Cardiovascular Imaging</i> , 2013 , 6, 475-84	8.4	309
237	Lipidomics profiling and risk of cardiovascular disease in the prospective population-based Bruneck study. <i>Circulation</i> , 2014 , 129, 1821-31	16.7	302
236	Circulating microRNAs as novel biomarkers for platelet activation. <i>Circulation Research</i> , 2013 , 112, 595-607	15.7	285
235	Calcium regulates key components of vascular smooth muscle cell-derived matrix vesicles to enhance mineralization. <i>Circulation Research</i> , 2011 , 109, e1-12	15.7	269
234	Endothelial cytotoxicity mediated by serum antibodies to heat shock proteins of Escherichia coli and Chlamydia pneumoniae: immune reactions to heat shock proteins as a possible link between infection and atherosclerosis. <i>Circulation</i> , 1999 , 99, 1560-6	16.7	260
233	Infections, immunity, and atherosclerosis: associations of antibodies to Chlamydia pneumoniae, Helicobacter pylori, and cytomegalovirus with immune reactions to heat-shock protein 60 and carotid or femoral atherosclerosis. <i>Circulation</i> , 2000 , 102, 833-9	16.7	253
232	Proteomic analysis reveals presence of platelet microparticles in endothelial progenitor cell cultures. <i>Blood</i> , 2009 , 114, 723-32	2.2	237
231	MicroRNAs in Cardiovascular Disease. <i>Journal of the American College of Cardiology</i> , 2016 , 68, 2577-2584	15.1	228
230	Association of serum antibodies to heat-shock protein 65 with carotid atherosclerosis : clinical significance determined in a follow-up study. <i>Circulation</i> , 1999 , 100, 1169-74	16.7	213

229	Exacerbated vein graft arteriosclerosis in protein kinase C β Bull mice. <i>Journal of Clinical Investigation</i> , 2001 , 108, 1505-1512	15.9	199
228	Proteomics characterization of extracellular space components in the human aorta. <i>Molecular and Cellular Proteomics</i> , 2010 , 9, 2048-62	7.6	197
227	Macrophage microRNA-155 promotes cardiac hypertrophy and failure. <i>Circulation</i> , 2013 , 128, 1420-32	16.7	190
226	MicroRNAs in vascular and metabolic disease. <i>Circulation Research</i> , 2012 , 110, 508-22	15.7	190
225	Oxidized phospholipids, lipoprotein(a), lipoprotein-associated phospholipase A2 activity, and 10-year cardiovascular outcomes: prospective results from the Bruneck study. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007 , 27, 1788-95	9.4	186
224	Profiling of circulating microRNAs: from single biomarkers to re-wired networks. <i>Cardiovascular Research</i> , 2012 , 93, 555-62	9.9	185
223	Discrimination and net reclassification of cardiovascular risk with lipoprotein(a): prospective 15-year outcomes in the Bruneck Study. <i>Journal of the American College of Cardiology</i> , 2014 , 64, 851-60	15.1	175
222	Smooth muscle cells in transplant atherosclerotic lesions are originated from recipients, but not bone marrow progenitor cells. <i>Circulation</i> , 2002 , 106, 1834-9	16.7	169
221	The hypoxia-inducible microRNA cluster miR-199a~214 targets myocardial PPAR α and impairs mitochondrial fatty acid oxidation. <i>Cell Metabolism</i> , 2013 , 18, 341-54	24.6	162
220	Combined metabolomic and proteomic analysis of human atrial fibrillation. <i>Journal of the American College of Cardiology</i> , 2008 , 51, 585-94	15.1	162
219	Cyclic strain stress-induced mitogen-activated protein kinase (MAPK) phosphatase 1 expression in vascular smooth muscle cells is regulated by Ras/Rac-MAPK pathways. <i>Journal of Biological Chemistry</i> , 1999 , 274, 25273-80	5.4	161
218	Mitochondria and ageing: role in heart, skeletal muscle and adipose tissue. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2017 , 8, 349-369	10.3	160
217	Proteomics analysis of cardiac extracellular matrix remodeling in a porcine model of ischemia/reperfusion injury. <i>Circulation</i> , 2012 , 125, 789-802	16.7	156
216	Short communication: asymmetric dimethylarginine impairs angiogenic progenitor cell function in patients with coronary artery disease through a microRNA-21-dependent mechanism. <i>Circulation Research</i> , 2010 , 107, 138-43	15.7	151
215	Proteomic and metabolomic analyses of atherosclerotic vessels from apolipoprotein E-deficient mice reveal alterations in inflammation, oxidative stress, and energy metabolism. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2005 , 25, 2135-42	9.4	151
214	Oxidation-specific biomarkers, prospective 15-year cardiovascular and stroke outcomes, and net reclassification of cardiovascular events. <i>Journal of the American College of Cardiology</i> , 2012 , 60, 2218-29	15.1	150
213	Extracellular matrix composition and remodeling in human abdominal aortic aneurysms: a proteomics approach. <i>Molecular and Cellular Proteomics</i> , 2011 , 10, M111.008128	7.6	150
212	Comparative lipidomics profiling of human atherosclerotic plaques. <i>Circulation: Cardiovascular Genetics</i> , 2011 , 4, 232-42		147

211	Circulating MicroRNA-122 Is Associated With the Risk of New-Onset Metabolic Syndrome and Type 2 Diabetes. <i>Diabetes</i> , 2017 , 66, 347-357	0.9	141
210	Native T1 in discrimination of acute and convalescent stages in patients with clinical diagnosis of myocarditis: a proposed diagnostic algorithm using CMR. <i>JACC: Cardiovascular Imaging</i> , 2015 , 8, 37-46	8.4	141
209	Extracellular matrix secretion by cardiac fibroblasts: role of microRNA-29b and microRNA-30c. <i>Circulation Research</i> , 2013 , 113, 1138-47	15.7	141
208	Heterogeneity in neutrophil microparticles reveals distinct proteome and functional properties. <i>Molecular and Cellular Proteomics</i> , 2013 , 12, 2205-19	7.6	140
207	Oxidized phospholipids predict the presence and progression of carotid and femoral atherosclerosis and symptomatic cardiovascular disease: five-year prospective results from the Bruneck study. <i>Journal of the American College of Cardiology</i> , 2006 , 47, 2219-28	15.1	140
206	The Digital Twin To enable the vision of precision cardiology. <i>European Heart Journal</i> , 2020 , 41, 4556-4564	5.4	136
205	Biomechanical stress-induced apoptosis in vein grafts involves p38 mitogen-activated protein kinases. <i>FASEB Journal</i> , 2000 , 14, 261-70	0.9	134
204	Novel methodologies for biomarker discovery in atherosclerosis. <i>European Heart Journal</i> , 2015 , 36, 2635-42	4.2	133
203	Cross-reactive B-cell epitopes of microbial and human heat shock protein 60/65 in atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2003 , 23, 1060-5	9.4	132
202	Mechanical stress-induced DNA damage and rac-p38MAPK signal pathways mediate p53-dependent apoptosis in vascular smooth muscle cells. <i>FASEB Journal</i> , 2002 , 16, 1423-5	0.9	129
201	MicroRNA Biomarkers and Platelet Reactivity: The Clot Thickens. <i>Circulation Research</i> , 2017 , 120, 418-435	5.7	127
200	Association of MicroRNAs and YRNAs With Platelet Function. <i>Circulation Research</i> , 2016 , 118, 420-432	15.7	125
199	Both donor and recipient origins of smooth muscle cells in vein graft atherosclerotic lesions. <i>Circulation Research</i> , 2002 , 91, e13-20	15.7	119
198	Transformative Impact of Proteomics on Cardiovascular Health and Disease: A Scientific Statement From the American Heart Association. <i>Circulation</i> , 2015 , 132, 852-72	16.7	112
197	Terminal differentiation, advanced organotypic maturation, and modeling of hypertrophic growth in engineered heart tissue. <i>Circulation Research</i> , 2011 , 109, 1105-14	15.7	111
196	Proteomics identifies thymidine phosphorylase as a key regulator of the angiogenic potential of colony-forming units and endothelial progenitor cell cultures. <i>Circulation Research</i> , 2009 , 104, 32-40	15.7	111
195	Signature of circulating microRNAs in osteoarthritis. <i>Annals of the Rheumatic Diseases</i> , 2015 , 74, e18	2.4	108
194	Very-Low-Density Lipoprotein-Associated Apolipoproteins Predict Cardiovascular Events and Are Lowered by Inhibition of APOC-III. <i>Journal of the American College of Cardiology</i> , 2017 , 69, 789-800	15.1	107

193	Cardiac myocyte miR-29 promotes pathological remodeling of the heart by activating Wnt signaling. <i>Nature Communications</i> , 2017 , 8, 1614	17.4	106
192	Mechanical stretch-induced apoptosis in smooth muscle cells is mediated by beta1-integrin signaling pathways. <i>Hypertension</i> , 2003 , 41, 903-11	8.5	106
191	Long-term therapeutic silencing of miR-33 increases circulating triglyceride levels and hepatic lipid accumulation in mice. <i>EMBO Molecular Medicine</i> , 2014 , 6, 1133-41	12	104
190	Higher spermidine intake is linked to lower mortality: a prospective population-based study. <i>American Journal of Clinical Nutrition</i> , 2018 , 108, 371-380	7	101
189	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. <i>European Journal of Heart Failure</i> , 2019 , 21, 272-285	12.3	99
188	Analytical challenges and technical limitations in assessing circulating miRNAs. <i>Thrombosis and Haemostasis</i> , 2012 , 108, 592-8	7	98
187	Proteomics, metabolomics, and immunomics on microparticles derived from human atherosclerotic plaques. <i>Circulation: Cardiovascular Genetics</i> , 2009 , 2, 379-88		98
186	Human cardiac and bone marrow stromal cells exhibit distinctive properties related to their origin. <i>Cardiovascular Research</i> , 2011 , 89, 650-60	9.9	96
185	Asymmetric dimethylarginine and cardiovascular risk: systematic review and meta-analysis of 22 prospective studies. <i>Journal of the American Heart Association</i> , 2015 , 4, e001833	6	95
184	Histone deacetylase 7 controls endothelial cell growth through modulation of beta-catenin. <i>Circulation Research</i> , 2010 , 106, 1202-11	15.7	95
183	Ischemic preconditioning exaggerates cardiac damage in PKC-delta null mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004 , 287, H946-56	5.2	93
182	Active and passive smoking, chronic infections, and the risk of carotid atherosclerosis: prospective results from the Bruneck Study. <i>Stroke</i> , 2002 , 33, 2170-6	6.7	89
181	Protein kinase D selectively targets cardiac troponin I and regulates myofilament Ca ²⁺ sensitivity in ventricular myocytes. <i>Circulation Research</i> , 2007 , 100, 864-73	15.7	88
180	Increased risk of atherosclerosis is confined to CagA-positive Helicobacter pylori strains: prospective results from the Bruneck study. <i>Stroke</i> , 2003 , 34, 610-5	6.7	86
179	Epigenomic and transcriptomic approaches in the post-genomic era: path to novel targets for diagnosis and therapy of the ischaemic heart? Position Paper of the European Society of Cardiology Working Group on Cellular Biology of the Heart. <i>Cardiovascular Research</i> , 2017 , 113, 725-736	9.9	85
178	ADAMTS-7 inhibits re-endothelialization of injured arteries and promotes vascular remodeling through cleavage of thrombospondin-1. <i>Circulation</i> , 2015 , 131, 1191-201	16.7	84
177	Role of miR-195 in aortic aneurysmal disease. <i>Circulation Research</i> , 2014 , 115, 857-66	15.7	82
176	Glycoproteomic analysis of the secretome of human endothelial cells. <i>Molecular and Cellular Proteomics</i> , 2013 , 12, 956-78	7.6	82

175	Angiogenic microRNAs Linked to Incidence and Progression of Diabetic Retinopathy in Type 1 Diabetes. <i>Diabetes</i> , 2016 , 65, 216-27	0.9	81
174	Lipoprotein-associated phospholipase A2 activity, ferritin levels, metabolic syndrome, and 10-year cardiovascular and non-cardiovascular mortality: results from the Bruneck study. <i>European Heart Journal</i> , 2009 , 30, 107-15	9.5	81
173	Liver microRNAs: potential mediators and biomarkers for metabolic and cardiovascular disease?. <i>European Heart Journal</i> , 2016 , 37, 3260-3266	9.5	81
172	Loss of p53 accelerates neointimal lesions of vein bypass grafts in mice. <i>Circulation Research</i> , 2002 , 90, 197-204	15.7	80
171	Gestational diabetes mellitus impairs Nrf2-mediated adaptive antioxidant defenses and redox signaling in fetal endothelial cells in utero. <i>Diabetes</i> , 2013 , 62, 4088-97	0.9	78
170	Diabetes Mellitus-Induced Microvascular Destabilization in the Myocardium. <i>Journal of the American College of Cardiology</i> , 2017 , 69, 131-143	15.1	77
169	MicroRNAs within the continuum of postgenomics biomarker discovery. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013 , 33, 206-14	9.4	77
168	Reduced neointima hyperplasia of vein bypass grafts in intercellular adhesion molecule-1-deficient mice. <i>Circulation Research</i> , 2000 , 86, 434-40	15.7	77
167	Impact of intravenous heparin on quantification of circulating microRNAs in patients with coronary artery disease. <i>Thrombosis and Haemostasis</i> , 2013 , 110, 609-15	7	75
166	Extracellular matrix proteomics identifies molecular signature of symptomatic carotid plaques. <i>Journal of Clinical Investigation</i> , 2017 , 127, 1546-1560	15.9	73
165	Association of serum-soluble heat shock protein 60 with carotid atherosclerosis: clinical significance determined in a follow-up study. <i>Stroke</i> , 2005 , 36, 2571-6	6.7	73
164	Genetic Dissection of the Impact of miR-33a and miR-33b during the Progression of Atherosclerosis. <i>Cell Reports</i> , 2017 , 21, 1317-1330	10.6	71
163	Targeting myocardial remodelling to develop novel therapies for heart failure: a position paper from the Working Group on Myocardial Function of the European Society of Cardiology. <i>European Journal of Heart Failure</i> , 2014 , 16, 494-508	12.3	71
162	Premature senescence of endothelial cells upon chronic exposure to TNF α can be prevented by N-acetyl cysteine and plumericin. <i>Scientific Reports</i> , 2017 , 7, 39501	4.9	69
161	Novel role of ADAMTS-5 protein in proteoglycan turnover and lipoprotein retention in atherosclerosis. <i>Journal of Biological Chemistry</i> , 2012 , 287, 19341-5	5.4	69
160	Proteomic and metabolomic analysis of cardioprotection: Interplay between protein kinase C epsilon and delta in regulating glucose metabolism of murine hearts. <i>Journal of Molecular and Cellular Cardiology</i> , 2009 , 46, 268-77	5.8	69
159	Vascular proteomics: linking proteomic and metabolomic changes. <i>Proteomics</i> , 2004 , 4, 3751-61	4.8	69
158	Smooth muscle cell apoptosis in arteriosclerosis. <i>Experimental Gerontology</i> , 2001 , 36, 969-87	4.5	69

157	Proteomics-based development of biomarkers in cardiovascular disease: mechanistic, clinical, and therapeutic insights. <i>Molecular and Cellular Proteomics</i> , 2006 , 5, 1853-64	7.6	68
156	Rapid development of vein graft atheroma in ApoE-deficient mice. <i>American Journal of Pathology</i> , 2000 , 157, 659-69	5.8	68
155	The innate immune system in chronic cardiomyopathy: a European Society of Cardiology (ESC) scientific statement from the Working Group on Myocardial Function of the ESC. <i>European Journal of Heart Failure</i> , 2018 , 20, 445-459	12.3	67
154	Proteomics analysis of the cardiac myofilament subproteome reveals dynamic alterations in phosphatase subunit distribution. <i>Molecular and Cellular Proteomics</i> , 2010 , 9, 497-509	7.6	66
153	Loss of PKC-delta alters cardiac metabolism. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004 , 287, H937-45	5.2	64
152	Oxidative stress in atherosclerosis: the role of microRNAs in arterial remodeling. <i>Free Radical Biology and Medicine</i> , 2013 , 64, 69-77	7.8	60
151	Identification of cardiac myosin-binding protein C as a candidate biomarker of myocardial infarction by proteomics analysis. <i>Molecular and Cellular Proteomics</i> , 2009 , 8, 2687-99	7.6	60
150	Comparative Analysis of Circulating Noncoding RNAs Versus Protein Biomarkers in the Detection of Myocardial Injury. <i>Circulation Research</i> , 2019 , 125, 328-340	15.7	59
149	Preclinical development of a miR-132 inhibitor for heart failure treatment. <i>Nature Communications</i> , 2020 , 11, 633	17.4	59
148	Native T1 and T2 mapping by CMR in lupus myocarditis: Disease recognition and response to treatment. <i>International Journal of Cardiology</i> , 2016 , 222, 717-726	3.2	59
147	An integrative translational approach to study heart failure with preserved ejection fraction: a position paper from the Working Group on Myocardial Function of the European Society of Cardiology. <i>European Journal of Heart Failure</i> , 2018 , 20, 216-227	12.3	59
146	Enzymatic lipid oxidation by eosinophils propagates coagulation, hemostasis, and thrombotic disease. <i>Journal of Experimental Medicine</i> , 2017 , 214, 2121-2138	16.6	58
145	Asymmetric and symmetric dimethylarginines are of similar predictive value for cardiovascular risk in the general population. <i>Atherosclerosis</i> , 2009 , 205, 261-5	3.1	57
144	Proteomics and metabolomics combined in cardiovascular research. <i>Trends in Cardiovascular Medicine</i> , 2007 , 17, 43-8	6.9	57
143	Extracellular Matrix Proteomics Reveals Interplay of Aggrecan and Aggrecanases in Vascular Remodeling of Stented Coronary Arteries. <i>Circulation</i> , 2018 , 137, 166-183	16.7	56
142	Proteomics: from single molecules to biological pathways. <i>Cardiovascular Research</i> , 2013 , 97, 612-22	9.9	55
141	Oxidized low-density lipoprotein autoantibodies, chronic infections, and carotid atherosclerosis in a population-based study. <i>Journal of the American College of Cardiology</i> , 2006 , 47, 2436-43	15.1	55
140	Lipidomics: quest for molecular lipid biomarkers in cardiovascular disease. <i>Circulation: Cardiovascular Genetics</i> , 2014 , 7, 941-54		53

139	Pkm2 Regulates Cardiomyocyte Cell Cycle and Promotes Cardiac Regeneration. <i>Circulation</i> , 2020 , 141, 1249-1265	16.7	52
138	Proteomic and metabolomic analysis of smooth muscle cells derived from the arterial media and adventitial progenitors of apolipoprotein E-deficient mice. <i>Circulation Research</i> , 2008 , 102, 1046-56	15.7	52
137	Metabolomics: ready for the prime time?. <i>Circulation: Cardiovascular Genetics</i> , 2008 , 1, 58-65		51
136	Role of ADAMTS-5 in Aortic Dilatation and Extracellular Matrix Remodeling. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018 , 38, 1537-1548	9.4	48
135	Macrophage-lysis mediated by autoantibodies to heat shock protein 65/60. <i>Atherosclerosis</i> , 1997 , 128, 27-38	3.1	46
134	Inhibition of arteriosclerosis by T-cell depletion in normocholesterolemic rabbits immunized with heat shock protein 65. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 1999 , 19, 1905-11	9.4	46
133	Chronic miR-29 antagonism promotes favorable plaque remodeling in atherosclerotic mice. <i>EMBO Molecular Medicine</i> , 2016 , 8, 643-53	12	46
132	Proteomic and metabolomic analysis of vascular smooth muscle cells: role of PKCdelta. <i>Circulation Research</i> , 2004 , 94, e87-96	15.7	45
131	Matrix metalloproteinase-8 promotes vascular smooth muscle cell proliferation and neointima formation. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014 , 34, 90-8	9.4	44
130	Calpain inhibition stabilizes the platelet proteome and reactivity in diabetes. <i>Blood</i> , 2012 , 120, 415-23	2.2	44
129	Functional role of matrix metalloproteinase-8 in stem/progenitor cell migration and their recruitment into atherosclerotic lesions. <i>Circulation Research</i> , 2013 , 112, 35-47	15.7	44
128	Redox regulation of soluble epoxide hydrolase by 15-deoxy-delta-prostaglandin J2 controls coronary hypoxic vasodilation. <i>Circulation Research</i> , 2011 , 108, 324-34	15.7	43
127	Pathogenesis of varicose veins. <i>Journal of Vascular and Interventional Radiology</i> , 2012 , 23, 33-9; quiz 40	2.4	41
126	SARS-CoV-2 RNAemia and proteomic trajectories inform prognostication in COVID-19 patients admitted to intensive care. <i>Nature Communications</i> , 2021 , 12, 3406	17.4	41
125	Comparison of MOLLI, shMOLLI, and SASHA in discrimination between health and disease and relationship with histologically derived collagen volume fraction. <i>European Heart Journal Cardiovascular Imaging</i> , 2018 , 19, 768-776	4.1	40
124	Proteomic identification of matrix metalloproteinase substrates in the human vasculature. <i>Circulation: Cardiovascular Genetics</i> , 2013 , 6, 106-17		40
123	Systems biology in cardiovascular disease: a multiomics approach. <i>Nature Reviews Cardiology</i> , 2021 , 18, 313-330	14.8	40
122	In Aptamers They Trust: The Caveats of the SOMAscan Biomarker Discovery Platform from SomaLogic. <i>Circulation</i> , 2018 , 138, 2482-2485	16.7	40

121	Proteomic analysis of the secretome of human umbilical vein endothelial cells using a combination of free-flow electrophoresis and nanoflow LC-MS/MS. <i>Proteomics</i> , 2009 , 9, 4991-6	4.8	39
120	Proteomic characterization of human early pro-angiogenic cells. <i>Journal of Molecular and Cellular Cardiology</i> , 2011 , 50, 333-6	5.8	38
119	Comparative analysis of statistical methods used for detecting differential expression in label-free mass spectrometry proteomics. <i>Journal of Proteomics</i> , 2015 , 129, 83-92	3.9	37
118	From basic mechanisms to clinical applications in heart protection, new players in cardiovascular diseases and cardiac theranostics: meeting report from the third international symposium on "New frontiers in cardiovascular research". <i>Basic Research in Cardiology</i> , 2016 , 111, 69	11.8	36
117	Extracellular matrix remodelling in response to venous hypertension: proteomics of human varicose veins. <i>Cardiovascular Research</i> , 2016 , 110, 419-30	9.9	35
116	Functional Genomics of Cardioprotection by Ischemic Conditioning and the Influence of Comorbid Conditions: Implications in Target Identification. <i>Current Drug Targets</i> , 2015 , 16, 904-11	3	35
115	Glycoproteomics Reveals Decorin Peptides With Anti-Myostatin Activity in Human Atrial Fibrillation. <i>Circulation</i> , 2016 , 134, 817-32	16.7	34
114	The -omics era: proteomics and lipidomics in vascular research. <i>Atherosclerosis</i> , 2012 , 221, 12-7	3.1	34
113	Cytochrome P4502S1: a novel monocyte/macrophage fatty acid epoxygenase in human atherosclerotic plaques. <i>Basic Research in Cardiology</i> , 2013 , 108, 319	11.8	33
112	Proteomics of acute coronary syndromes. <i>Current Atherosclerosis Reports</i> , 2009 , 11, 188-95	6	33
111	Loss of Biglycan Enhances Thrombin Generation in Apolipoprotein E-Deficient Mice: Implications for Inflammation and Atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016 , 36, e41-50	9.4	33
110	Downregulation of MicroRNA-126 Augments DNA Damage Response in Cigarette Smokers and Patients with Chronic Obstructive Pulmonary Disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018 , 197, 665-668	10.2	32
109	Preoperative high-dose atorvastatin for prevention of atrial fibrillation after cardiac surgery: a randomized controlled trial. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2011 , 141, 244-8	1.5	32
108	Oxidant-induced Interprotein Disulfide Formation in Cardiac Protein DJ-1 Occurs via an Interaction with Peroxiredoxin 2. <i>Journal of Biological Chemistry</i> , 2016 , 291, 10399-410	5.4	31
107	Metabolic changes in hypertrophic cardiomyopathies: scientific update from the Working Group of Myocardial Function of the European Society of Cardiology. <i>Cardiovascular Research</i> , 2018 , 114, 1273-1280	8.9	31
106	Comparative proteomics profiling reveals role of smooth muscle progenitors in extracellular matrix production. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2010 , 30, 1325-32	9.4	31
105	Proteomic dataset of mouse aortic smooth muscle cells. <i>Proteomics</i> , 2005 , 5, 4546-57	4.8	31
104	Guidelines for the functional annotation of microRNAs using the Gene Ontology. <i>Rna</i> , 2016 , 22, 667-76	5.8	31

103	XBP 1-Deficiency Abrogates Neointimal Lesion of Injured Vessels Via Cross Talk With the PDGF Signaling. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015 , 35, 2134-44	9.4	30
102	Phosphoregulation of the titin-cap protein telethonin in cardiac myocytes. <i>Journal of Biological Chemistry</i> , 2014 , 289, 1282-93	5.4	30
101	Coupling vascular and myocardial inflammatory injury into a common phenotype of cardiovascular dysfunction: systemic inflammation and aging - a mini-review. <i>Gerontology</i> , 2011 , 57, 295-303	5.5	30
100	Nox4 reprograms cardiac substrate metabolism via protein O-GlcNAcylation to enhance stress adaptation. <i>JCI Insight</i> , 2017 , 2,	9.9	29
99	Association Between Vascular Cell Adhesion Molecule 1 and Atrial Fibrillation. <i>JAMA Cardiology</i> , 2017 , 2, 516-523	16.2	28
98	MicroRNA Biomarkers for Coronary Artery Disease?. <i>Current Atherosclerosis Reports</i> , 2015 , 17, 70	6	28
97	Histone deacetylase 3 unconventional splicing mediates endothelial-to-mesenchymal transition through transforming growth factor β . <i>Journal of Biological Chemistry</i> , 2013 , 288, 31853-66	5.4	27
96	Proteomic analysis reveals higher demand for antioxidant protection in embryonic stem cell-derived smooth muscle cells. <i>Proteomics</i> , 2006 , 6, 6437-46	4.8	26
95	Effects of perhexiline-induced fuel switch on the cardiac proteome and metabolome. <i>Journal of Molecular and Cellular Cardiology</i> , 2013 , 55, 27-30	5.8	25
94	Redox state of pentraxin 3 as a novel biomarker for resolution of inflammation and survival in sepsis. <i>Molecular and Cellular Proteomics</i> , 2014 , 13, 2545-57	7.6	25
93	Towards standardization of echocardiography for the evaluation of left ventricular function in adult rodents: a position paper of the ESC Working Group on Myocardial Function. <i>Cardiovascular Research</i> , 2021 , 117, 43-59	9.9	25
92	Chromobox protein homolog 3 is essential for stem cell differentiation to smooth muscles in vitro and in embryonic arteriogenesis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2011 , 31, 1842-52	9.4	23
91	Non-coding RNAs in vascular disease - from basic science to clinical applications: scientific update from the Working Group of Myocardial Function of the European Society of Cardiology. <i>Cardiovascular Research</i> , 2018 , 114, 1281-1286	9.9	23
90	Metabolic homeostasis is maintained in myocardial hibernation by adaptive changes in the transcriptome and proteome. <i>Journal of Molecular and Cellular Cardiology</i> , 2011 , 50, 982-90	5.8	22
89	Proteomic analysis of secretory proteins and vesicles in vascular research. <i>Proteomics - Clinical Applications</i> , 2008 , 2, 882-91	3.1	21
88	Systems biology-opportunities and challenges: the application of proteomics to study the cardiovascular extracellular matrix. <i>Cardiovascular Research</i> , 2016 , 112, 626-636	9.9	20
87	Proteomics and metabolomics for mechanistic insights and biomarker discovery in cardiovascular disease. <i>Revista Espanola De Cardiologia (English Ed)</i> , 2013 , 66, 657-61	0.7	20
86	La proteómica y la metabolómica: los mecanismos de la enfermedad cardiovascular y el descubrimiento de biomarcadores. <i>Revista Espanola De Cardiologia</i> , 2013 , 66, 657-661	1.5	20

85	Proteomics: a reality-check for putative stem cells. <i>Circulation Research</i> , 2011 , 108, 499-511	15.7	20
84	Paracrine signalling by cardiac calcitonin controls atrial fibrogenesis and arrhythmia. <i>Nature</i> , 2020 , 587, 460-465	50.4	19
83	Expanding the horizons of microRNA bioinformatics. <i>Rna</i> , 2018 , 24, 1005-1017	5.8	19
82	CRISPR/Cas9 editing reveals novel mechanisms of clustered microRNA regulation and function. <i>Scientific Reports</i> , 2017 , 7, 8585	4.9	19
81	A sequential extraction methodology for cardiac extracellular matrix prior to proteomics analysis. <i>Methods in Molecular Biology</i> , 2013 , 1005, 215-23	1.4	19
80	Gene network and proteomic analyses of cardiac responses to pathological and physiological stress. <i>Circulation: Cardiovascular Genetics</i> , 2013 , 6, 588-97		19
79	"Young at heart": Regenerative potential linked to immature cardiac phenotypes. <i>Journal of Molecular and Cellular Cardiology</i> , 2016 , 92, 105-8	5.8	18
78	Glycoproteomic Analysis of the Aortic Extracellular Matrix in Marfan Patients. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2019 , 39, 1859-1873	9.4	18
77	Substrate modifications precede the development of atrial fibrillation after cardiac surgery: a proteomic study. <i>Annals of Thoracic Surgery</i> , 2011 , 92, 104-10	2.7	18
76	Integrated membrane protein analysis of mature and embryonic stem cell-derived smooth muscle cells using a novel combination of CyDye/biotin labeling. <i>Molecular and Cellular Proteomics</i> , 2007 , 6, 1788-97	7.6	18
75	Noncoding RNAs versus Protein Biomarkers in Cardiovascular Disease. <i>Trends in Molecular Medicine</i> , 2020 , 26, 583-596	11.5	17
74	Nitrosative protein oxidation is modulated during early endotoxemia. <i>Nitric Oxide - Biology and Chemistry</i> , 2011 , 25, 118-24	5	17
73	Adaptation to HIF-1 deficiency by upregulation of the AMP/ATP ratio and phosphofructokinase activation in hepatomas. <i>BMC Cancer</i> , 2011 , 11, 198	4.8	17
72	Aspirin, clopidogrel and prasugrel monotherapy in patients with type 2 diabetes mellitus: a double-blind randomised controlled trial of the effects on thrombotic markers and microRNA levels. <i>Cardiovascular Diabetology</i> , 2020 , 19, 3	8.7	17
71	Cardiac dysfunction in cancer patients: beyond direct cardiomyocyte damage of anticancer drugs: novel cardio-oncology insights from the joint 2019 meeting of the ESC Working Groups of Myocardial Function and Cellular Biology of the Heart. <i>Cardiovascular Research</i> , 2020 , 116, 1820-1834	9.9	17
70	A plasma proteogenomic signature for fibromuscular dysplasia. <i>Cardiovascular Research</i> , 2020 , 116, 63-70	9.9	17
69	Effects of heparin on temporal microRNA profiles. <i>Journal of the American College of Cardiology</i> , 2014 , 63, 940-1	15.1	16
68	Role of oxidative stress in angiotensin-II mediated contraction of human conduit arteries in patients with cardiovascular disease. <i>Vascular Pharmacology</i> , 2005 , 43, 277-82	5.9	16

67	Inhibition of profibrotic microRNA-21 affects platelets and their releasate. <i>JCI Insight</i> , 2018 , 3,	9.9	16
66	Inadequate hepcidin serum concentrations predict incident type 2 diabetes mellitus. <i>Diabetes/Metabolism Research and Reviews</i> , 2016 , 32, 187-92	7.5	15
65	Correlates of serum hepcidin levels and its association with cardiovascular disease in an elderly general population. <i>Clinical Chemistry and Laboratory Medicine</i> , 2016 , 54, 151-61	5.9	15
64	Proteomic dataset of Sca-1+ progenitor cells. <i>Proteomics</i> , 2005 , 5, 4533-45	4.8	15
63	Identification of cyclins A1, E1 and vimentin as downstream targets of heme oxygenase-1 in vascular endothelial growth factor-mediated angiogenesis. <i>Scientific Reports</i> , 2016 , 6, 29417	4.9	15
62	Metabolic profiling of hypoxia-inducible factor-1 α deficient and wild type Hepa-1 cells: effects of hypoxia measured by 1H magnetic resonance spectroscopy. <i>Metabolomics</i> , 2006 , 1, 293-303	4.7	14
61	The Emerging Role of the ADAMTS Family in Vascular Diseases. <i>Circulation Research</i> , 2018 , 123, 1279-1284	4.7	14
60	microRNAs as promising biomarkers of platelet activity in antiplatelet therapy monitoring. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	13
59	Extracellular Matrix in Vascular Disease, Part 2/4: JACC Focus Seminar. <i>Journal of the American College of Cardiology</i> , 2020 , 75, 2189-2203	15.1	13
58	Glycoproteomics of the Extracellular Matrix: A Method for Intact Glycopeptide Analysis Using Mass Spectrometry. <i>Journal of Visualized Experiments</i> , 2017 ,	1.6	13
57	Plasma Proteomics for Epidemiology: Increasing Throughput With Standard-Flow Rates. <i>Circulation: Cardiovascular Genetics</i> , 2017 , 10,		13
56	Proteomic and metabolomic changes driven by elevating myocardial creatine suggest novel metabolic feedback mechanisms. <i>Amino Acids</i> , 2016 , 48, 1969-81	3.5	13
55	Liver-specific microRNA-122 as prognostic biomarker in patients with chronic systolic heart failure. <i>International Journal of Cardiology</i> , 2020 , 303, 80-85	3.2	12
54	Pharmacogenetics of Clopidogrel: An Unresolved Issue. <i>Circulation: Cardiovascular Genetics</i> , 2016 , 9, 185-8		12
53	Circulating MicroRNA Levels Indicate Platelet and Leukocyte Activation in Endotoxemia Despite Platelet P2Y Inhibition. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	11
52	ESC Working Group on Myocardial Function Position Paper: how to study the right ventricle in experimental models. <i>European Journal of Heart Failure</i> , 2014 , 16, 509-18	12.3	10
51	MicroRNA-21 and the Vulnerability of Atherosclerotic Plaques. <i>Molecular Therapy</i> , 2018 , 26, 938-940	11.7	9
50	Sexual dimorphism in COVID-19: potential clinical and public health implications.. <i>Lancet Diabetes and Endocrinology</i> , 2022 ,	18.1	9

49	The Landscape of Coding and Noncoding RNAs in Platelets. <i>Antioxidants and Redox Signaling</i> , 2021 , 34, 1200-1216	8.4	9
48	T1 values by conservative septal postprocessing approach are superior in relating to the interstitial myocardial fibrosis: findings from patients with severe aortic stenosis. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17,	6.9	8
47	Fibroblast GATA-4 and GATA-6 promote myocardial adaptation to pressure overload by enhancing cardiac angiogenesis. <i>Basic Research in Cardiology</i> , 2021 , 116, 26	11.8	8
46	Loss of hepatic miR-33 improves metabolic homeostasis and liver function without altering body weight or atherosclerosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	8
45	Locally different proteome in aortas from patients with stenotic tricuspid and bicuspid aortic valves. <i>European Journal of Cardio-thoracic Surgery</i> , 2019 , 56, 458-469	3	7
44	Reply: The Complex miRNAs-p53 Signaling Network in Cardiovascular Disease. <i>Journal of the American College of Cardiology</i> , 2017 , 69, 2100	15.1	7
43	Method for protein subfractionation of cardiovascular tissues before DIGE analysis. <i>Methods in Molecular Biology</i> , 2012 , 854, 287-97	1.4	7
42	Recent highlights of metabolomics in cardiovascular research. <i>Circulation: Cardiovascular Genetics</i> , 2011 , 4, 463-4		7
41	The role of oxidant stress in angiotensin II-mediated contraction of human resistance arteries in the state of health and the presence of cardiovascular disease. <i>Vascular Pharmacology</i> , 2006 , 45, 395-9	5.9	7
40	Proteomic landscape of TGF- β -induced fibrogenesis in renal fibroblasts. <i>Scientific Reports</i> , 2020 , 10, 19054	4.9	7
39	Impairment of the ER/mitochondria compartment in human cardiomyocytes with PLN p.Arg14del mutation. <i>EMBO Molecular Medicine</i> , 2021 , 13, e13074	12	7
38	Cartilage-like composition of keloid scar extracellular matrix suggests fibroblast mis-differentiation in disease. <i>Matrix Biology Plus</i> , 2019 , 4, 100016	5.1	7
37	Association of cardiometabolic microRNAs with COVID-19 severity and mortality. <i>Cardiovascular Research</i> , 2021 ,	9.9	6
36	Platelet "-omics" in health and cardiovascular disease. <i>Atherosclerosis</i> , 2020 , 307, 87-96	3.1	6
35	Proteomics in aortic aneurysm--what have we learnt so far?. <i>Proteomics - Clinical Applications</i> , 2013 , 7, 504-15	3.1	5
34	Metabolic recovery after weight loss surgery is reflected in serum microRNAs. <i>BMJ Open Diabetes Research and Care</i> , 2020 , 8,	4.5	5
33	Fibroblast Nox2 (NADPH Oxidase-2) Regulates ANG II (Angiotensin II)-Induced Vascular Remodeling and Hypertension via Paracrine Signaling to Vascular Smooth Muscle Cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2021 , 41, 698-710	9.4	5
32	Characterisation of circulating biomarkers before and after cardiac resynchronisation therapy and their role in predicting CRT response: the COVERT-HF study. <i>Open Heart</i> , 2018 , 5, e000899	3	5

31	Proteome and functional decline as platelets age in the circulation. <i>Journal of Thrombosis and Haemostasis</i> , 2021 , 19, 3095-3112	15.4	5
30	High-Density Lipoproteins Are the Main Carriers of PCSK9 in the Circulation. <i>Journal of the American College of Cardiology</i> , 2020 , 75, 1495-1497	15.1	4
29	A Proteomics-Based Assessment of Inflammation Signatures in Endotoxemia. <i>Molecular and Cellular Proteomics</i> , 2021 , 20, 100021	7.6	4
28	Methods for the identification and characterization of extracellular vesicles in cardiovascular studies - from exosomes to microvesicles.. <i>Cardiovascular Research</i> , 2022 ,	9.9	4
27	Response by Schulte et al to Letter Regarding Article, "Comparative Analysis of Circulating Noncoding RNAs Versus Protein Biomarkers in the Detection of Myocardial Injury". <i>Circulation Research</i> , 2019 , 125, e22-e23	15.7	3
26	Multidimensional separation prior to mass spectrometry: getting closer to the bottom of the iceberg. <i>Proteomics</i> , 2013 , 13, 2942-3	4.8	3
25	Letter by Metzler et al regarding article, "Intracoronary KAI-9803 as an adjunct to primary coronary intervention for acute ST-segment elevation myocardial infarction". <i>Circulation</i> , 2008 , 118, e80	16.7	3
24	Animal models and animal-free innovations for cardiovascular research: current status and routes to be explored. Consensus document of the ESC working group on myocardial function and the ESC Working Group on Cellular Biology of the Heart.. <i>Cardiovascular Research</i> , 2022 ,	9.9	3
23	Right Ventricle Has Normal Myofilament Function But Shows Perturbations in the Expression of Extracellular Matrix Genes in Patients With Tetralogy of Fallot Undergoing Pulmonary Valve Replacement. <i>Journal of the American Heart Association</i> , 2020 , 9, e015342	6	3
22	High-density lipoproteins in high resolution: Will proteomics solve the paradox for cardiovascular risk?. <i>Proteomics</i> , 2017 , 17, 1600426	4.8	2
21	Optogenetic Monitoring of the Glutathione Redox State in Engineered Human Myocardium. <i>Frontiers in Physiology</i> , 2019 , 10, 272	4.6	2
20	The Extracellular Matrix in Heart Failure: The Role of Adamts5 In Proteoglycan Remodelling. <i>Circulation</i> , 2021 ,	16.7	2
19	Neutrophil-Derived Protein S100A8/A9 Alters the Platelet Proteome in Acute Myocardial Infarction and Is Associated With Changes in Platelet Reactivity. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2021 , ATVBAHA121317113	9.4	2
18	SARS-CoV-2 RNAemia and proteomic biomarker trajectory inform prognostication in COVID-19 patients admitted to intensive care		2
17	Endothelial cells exposed to atheroprotective flow secrete follistatin-like 1 protein which reduces transcytosis and inflammation. <i>Atherosclerosis</i> , 2021 , 333, 56-66	3.1	2
16	Protein Aggregation Is an Early Manifestation of Phospholamban p.(Arg14del)-Related Cardiomyopathy: Development of PLN-R14del-Related Cardiomyopathy. <i>Circulation: Heart Failure</i> , 2021 , 14, e008532	7.6	2
15	Diminished PLK2 Induces Cardiac Fibrosis and Promotes Atrial Fibrillation. <i>Circulation Research</i> , 2021 , 129, 804-820	15.7	2
14	Circulating microRNAs as Novel Biomarkers in Cardiovascular Disease: Basic and Technical Principles. <i>Cardiac and Vascular Biology</i> , 2017 , 83-101	0.2	1

13	Platelet Reactivity in Individuals Over 65 Years Old Is Not Modulated by Age. <i>Circulation Research</i> , 2020 , 127, 394-396	15.7	1
12	LDL-receptor-deficient mice lacking microRNA-143/145 have less atherosclerosis. <i>Thrombosis and Haemostasis</i> , 2014 , 112, 629	7	1
11	Cathepsin A contributes to left ventricular remodeling by degrading extracellular superoxide dismutase in mice. <i>Journal of Biological Chemistry</i> , 2020 , 295, 12605-12617	5.4	1
10	Lipoprotein compartmentalisation as a regulator of PCSK9 activity. <i>Journal of Molecular and Cellular Cardiology</i> , 2021 , 155, 21-24	5.8	1
9	Proteome and functional decline as platelets age in the circulation		1
8	Circulating microRNAs as biomarkers and mediators of platelet activation.. <i>Platelets</i> , 2022 , 1-8	3.6	1
7	Isolation of Circulating Extracellular Vesicles by High-Performance Size-Exclusion Chromatography.. <i>Methods in Molecular Biology</i> , 2022 , 2504, 31-40	1.4	1
6	PCSK9 Activity Is Potentiated Through HDL Binding. <i>Circulation Research</i> , 2021 , 129, 1039-1053	15.7	0
5	Proteomics of Atherosclerosis 2012 , 249-266		0
4	DRP1: a novel regulator of PCSK9 secretion and degradation. <i>Cardiovascular Research</i> , 2021 , 117, 2289-2300	3.9	0
3	Does Late Enhancement Imaging Decipher the Role of Myocardial Fibrosis in Hypertrophic Cardiomyopathy?. <i>Current Cardiovascular Imaging Reports</i> , 2011 , 4, 87-89	0.7	
2	Association of adolescent lipoprotein subclass profile with carotid intima-media thickness and comparison to adults: Prospective population-based cohort studies.. <i>Atherosclerosis</i> , 2021 , 341, 34-42	3.1	
1	Lessons from the spatiotemporal expression patterns of RNA vs. proteins during the cell cycle. <i>Cardiovascular Research</i> , 2021 , 117, e91-e93	9.9	