

Katey J Rayner

List of Publications by Year in descending order

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87
papers

13,821
citations

61977

43
h-index

58576

82
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92
all docs

92
docs citations

92
times ranked

17643
citing authors

#	ARTICLE	IF	CITATIONS
1	NLRP3 inflammasomes are required for atherogenesis and activated by cholesterol crystals. <i>Nature</i> , 2010, 464, 1357-1361.	27.8	3,130
2	CD36 ligands promote sterile inflammation through assembly of a Toll-like receptor 4 and 6 heterodimer. <i>Nature Immunology</i> , 2010, 11, 155-161.	14.5	1,255
3	MiR-33 Contributes to the Regulation of Cholesterol Homeostasis. <i>Science</i> , 2010, 328, 1570-1573.	12.6	1,095
4	CD36 coordinates NLRP3 inflammasome activation by facilitating intracellular nucleation of soluble ligands into particulate ligands in sterile inflammation. <i>Nature Immunology</i> , 2013, 14, 812-820.	14.5	746
5	Inhibition of miR-33a/b in non-human primates raises plasma HDL and lowers VLDL triglycerides. <i>Nature</i> , 2011, 478, 404-407.	27.8	647
6	miR-33a/b contribute to the regulation of fatty acid metabolism and insulin signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 9232-9237.	7.1	615
7	Antagonism of miR-33 in mice promotes reverse cholesterol transport and regression of atherosclerosis. <i>Journal of Clinical Investigation</i> , 2011, 121, 2921-2931.	8.2	609
8	MicroRNA-33â€œdependent regulation of macrophage metabolism directs immune cell polarization in atherosclerosis. <i>Journal of Clinical Investigation</i> , 2015, 125, 4334-4348.	8.2	304
9	<i>Mycobacterium tuberculosis</i> induces the miR-33 locus to reprogram autophagy and host lipid metabolism. <i>Nature Immunology</i> , 2016, 17, 677-686.	14.5	295
10	Role of inflammation in the pathogenesis of atherosclerosis and therapeutic interventions. <i>Atherosclerosis</i> , 2018, 276, 98-108.	0.8	289
11	The neuroimmune guidance cue netrin-1 promotes atherosclerosis by inhibiting the emigration of macrophages from plaques. <i>Nature Immunology</i> , 2012, 13, 136-143.	14.5	280
12	HDL promotes rapid atherosclerosis regression in mice and alters inflammatory properties of plaque monocyte-derived cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 7166-7171.	7.1	276
13	MicroRNAs in lipid metabolism. <i>Current Opinion in Lipidology</i> , 2011, 22, 86-92.	2.7	262
14	Targeting macrophage necroptosis for therapeutic and diagnostic interventions in atherosclerosis. <i>Science Advances</i> , 2016, 2, e1600224.	10.3	214
15	Netrin-1 promotes adipose tissue macrophage retention and insulin resistance in obesity. <i>Nature Medicine</i> , 2014, 20, 377-384.	30.7	213
16	Extracellular Vesicles Secreted by Atherogenic Macrophages Transfer MicroRNA to Inhibit Cell Migration. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018, 38, 49-63.	2.4	176
17	Macrophage Mitochondrial Energy Status Regulates Cholesterol Efflux and Is Enhanced by Anti-miR33 in Atherosclerosis. <i>Circulation Research</i> , 2015, 117, 266-278.	4.5	158
18	microRNA-33 Regulates Macrophage Autophagy in Atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017, 37, 1058-1067.	2.4	158

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19	Extracellular communication via microRNA: lipid particles have a new message. <i>Journal of Lipid Research</i> , 2013, 54, 1174-1181.	4.2	142
20	MicroRNAs in the Pathobiology and Therapy of Atherosclerosis. <i>Canadian Journal of Cardiology</i> , 2017, 33, 313-324.	1.7	134
21	The Role of MicroRNAs in Cholesterol Efflux and Hepatic Lipid Metabolism. <i>Annual Review of Nutrition</i> , 2011, 31, 49-63.	10.1	130
22	microRNAs and cholesterol metabolism. <i>Trends in Endocrinology and Metabolism</i> , 2010, 21, 699-706.	7.1	127
23	Neuroimmune Guidance Cue Semaphorin 3E Is Expressed in Atherosclerotic Plaques and Regulates Macrophage Retention. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013, 33, 886-893.	2.4	114
24	Extracellular Release of the Atheroprotective Heat Shock Protein 27 Is Mediated by Estrogen and Competitively Inhibits acLDL Binding to Scavenger Receptor-A. <i>Circulation Research</i> , 2008, 103, 133-141.	4.5	111
25	Injectable human recombinant collagen matrices limit adverse remodeling and improve cardiac function after myocardial infarction. <i>Nature Communications</i> , 2019, 10, 4866.	12.8	103
26	<i>RIPK1</i> Expression Associates With Inflammation in Early Atherosclerosis in Humans and Can Be Therapeutically Silenced to Reduce NF- κ B Activation and Atherogenesis in Mice. <i>Circulation</i> , 2021, 143, 163-177.	1.6	102
27	Delivery of MicroRNAs by Chitosan Nanoparticles to Functionally Alter Macrophage Cholesterol Efflux <i>in Vitro</i> and <i>in Vivo</i> . <i>ACS Nano</i> , 2019, 13, 6491-6505.	14.6	98
28	The walking dead: macrophage inflammation and death in atherosclerosis. <i>Current Opinion in Lipidology</i> , 2017, 28, 91-98.	2.7	97
29	Resolvin D1 promotes the targeting and clearance of necroptotic cells. <i>Cell Death and Differentiation</i> , 2020, 27, 525-539.	11.2	90
30	Hypoxia Induces Netrin-1 and Unc5b in Atherosclerotic Plaques. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013, 33, 1180-1188.	2.4	88
31	Timing underpins the benefits associated with injectable collagen biomaterial therapy for the treatment of myocardial infarction. <i>Biomaterials</i> , 2015, 39, 182-192.	11.4	85
32	MicroRNAs regulating lipid metabolism in atherogenesis. <i>Thrombosis and Haemostasis</i> , 2012, 107, 642-647.	3.4	81
33	Paradoxical Suppression of Atherosclerosis in the Absence of microRNA-146a. <i>Circulation Research</i> , 2017, 121, 354-367.	4.5	79
34	MicroRNAs regulate the immunometabolic response to viral infection in the liver. <i>Nature Chemical Biology</i> , 2015, 11, 988-993.	8.0	76
35	MicroRNA Control of High-Density Lipoprotein Metabolism and Function. <i>Circulation Research</i> , 2014, 114, 183-192.	4.5	73
36	Modulation of Estrogen Signaling by the Novel Interaction of Heat Shock Protein 27, a Biomarker for Atherosclerosis, and Estrogen Receptor β . <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2005, 25, e10-4.	2.4	69

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37	Heat Shock Protein 27 Protects Against Atherogenesis via an Estrogen-Dependent Mechanism. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2009, 29, 1751-1756.	2.4	66
38	IRF2BP2 Reduces Macrophage Inflammation and Susceptibility to Atherosclerosis. <i>Circulation Research</i> , 2015, 117, 671-683.	4.5	64
39	Therapeutic Inhibition of miR-33 Promotes Fatty Acid Oxidation but Does Not Ameliorate Metabolic Dysfunction in Diet-Induced Obesity. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, 2536-2543.	2.4	63
40	miRNA Targeting of Oxysterol-Binding Protein-Like 6 Regulates Cholesterol Trafficking and Efflux. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016, 36, 942-951.	2.4	62
41	Serum Heat Shock Protein 27 Levels Represent a Potential Therapeutic Target for Atherosclerosis. <i>Journal of the American College of Cardiology</i> , 2013, 62, 1446-1454.	2.8	58
42	Cell Death in the Vessel Wall. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017, 37, e75-e81.	2.4	52
43	Metformin Abrogates Age-Associated Ovarian Fibrosis. <i>Clinical Cancer Research</i> , 2020, 26, 632-642.	7.0	51
44	MicroRNA Regulation of Vascular Smooth Muscle Function and Phenotype. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, 2-6.	2.4	46
45	PAR2 (Protease-Activated Receptor 2) Deficiency Attenuates Atherosclerosis in Mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018, 38, 1271-1282.	2.4	42
46	Loss of MLKL (Mixed Lineage Kinase Domain-Like Protein) Decreases Necrotic Core but Increases Macrophage Lipid Accumulation in Atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2020, 40, 1155-1167.	2.4	42
47	Inhibition of endothelial progenitor cell glycogen synthase kinase-3 β results in attenuated neointima formation and enhanced re-endothelialization after arterial injury. <i>Cardiovascular Research</i> , 2009, 83, 16-23.	3.8	41
48	[18F]-Fluorodeoxyglucose PET/CT imaging as a marker of carotid plaque inflammation: Comparison to immunohistology and relationship to acuity of events. <i>International Journal of Cardiology</i> , 2018, 271, 378-386.	1.7	41
49	The interaction and cellular localization of HSP27 and ER β are modulated by 17 β -estradiol and HSP27 phosphorylation. <i>Molecular and Cellular Endocrinology</i> , 2007, 270, 33-42.	3.2	39
50	Through the layers: how macrophages drive atherosclerosis across the vessel wall. <i>Journal of Clinical Investigation</i> , 2022, 132, .	8.2	39
51	Chronic Over-Expression of Heat Shock Protein 27 Attenuates Atherogenesis and Enhances Plaque Remodeling: A Combined Histological and Mechanical Assessment of Aortic Lesions. <i>PLoS ONE</i> , 2013, 8, e55867.	2.5	37
52	RIPK1 gene variants associate with obesity in humans and can be therapeutically silenced to reduce obesity in mice. <i>Nature Metabolism</i> , 2020, 2, 1113-1125.	11.9	34
53	Discovery of NM23-H2 as an estrogen receptor β -associated protein: Role in estrogen-induced gene transcription and cell migration. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2008, 108, 72-81.	2.5	33
54	Nanomedicine Meets microRNA. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016, 36, e73-9.	2.4	33

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55	Pre-Procedural Atorvastatin Mobilizes Endothelial Progenitor Cells: Clues to the Salutary Effects of Statins on Healing of Stented Human Arteries. <i>PLoS ONE</i> , 2011, 6, e16413.	2.5	33
56	Heat Shock Protein 27: Clue to Understanding Estrogen-Mediated Atheroprotection?. <i>Trends in Cardiovascular Medicine</i> , 2010, 20, 53-57.	4.9	31
57	Anti-GRP78 autoantibodies induce endothelial cell activation and accelerate the development of atherosclerotic lesions. <i>JCI Insight</i> , 2018, 3, .	5.0	31
58	Autophagy Is Differentially Regulated in Leukocyte and Nonleukocyte Foam Cells During Atherosclerosis. <i>Circulation Research</i> , 2022, 130, 831-847.	4.5	31
59	Heat shock protein-27 attenuates foam cell formation and atherogenesis by down-regulating scavenger receptor-A expression via NF- κ B signaling. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2013, 1831, 1721-1728.	2.4	26
60	MicroRNAs in Cardiovascular Health: From Order to Disorder. <i>Endocrinology</i> , 2013, 154, 4000-4009.	2.8	22
61	Macrophage miRNAs in atherosclerosis. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2016, 1861, 2087-2093.	2.4	22
62	Macrophage Responses to Environmental Stimuli During Homeostasis and Disease. <i>Endocrine Reviews</i> , 2021, 42, 407-435.	20.1	21
63	How Biomaterials Can Influence Various Cell Types in the Repair and Regeneration of the Heart after Myocardial Infarction. <i>Frontiers in Bioengineering and Biotechnology</i> , 2016, 4, 62.	4.1	20
64	NM23-H2, an estrogen receptor β -associated protein, shows diminished expression with progression of atherosclerosis. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2007, 292, R743-R750.	1.8	18
65	MicroRNA-155 in the Heart. <i>Circulation</i> , 2015, 131, 1533-1535.	1.6	18
66	Collagen biomaterial stimulates the production of extracellular vesicles containing microRNA-21 and enhances the proangiogenic function of CD34 ⁺ cells. <i>FASEB Journal</i> , 2019, 33, 4166-4177.	0.5	18
67	Attenuation of Atherogenesis via the Anti-inflammatory Effects of the Selective Estrogen Receptor Beta Modulator β -VE2. <i>Journal of Cardiovascular Pharmacology</i> , 2011, 58, 399-405.	1.9	17
68	miR-223 Exerts Translational Control of Proatherogenic Genes in Macrophages. <i>Circulation Research</i> , 2022, 131, 42-58.	4.5	17
69	Virally programmed extracellular vesicles sensitize cancer cells to oncolytic virus and small molecule therapy. <i>Nature Communications</i> , 2022, 13, 1898.	12.8	16
70	The Plaque "Micro"Environment: microRNAs Control the Risk and the Development of Atherosclerosis. <i>Current Atherosclerosis Reports</i> , 2012, 14, 413-421.	4.8	13
71	Cathepsin G deficiency decreases complexity of atherosclerotic lesions in apolipoprotein E-deficient mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013, 305, H1141-H1148.	3.2	13
72	LDL Receptor Pathway Regulation by miR-224 and miR-520d. <i>Frontiers in Cardiovascular Medicine</i> , 2020, 7, 81.	2.4	13

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73	Unlocking the Door to New Therapies in Cardiovascular Disease: MicroRNAs Hold the Key. <i>Current Cardiology Reports</i> , 2014, 16, 539.	2.9	12
74	Long Noncoding RNAs in the Heart. <i>Circulation: Cardiovascular Genetics</i> , 2016, 9, 101-103.	5.1	11
75	Loss of TIMP4 (Tissue Inhibitor of Metalloproteinase 4) Promotes Atherosclerotic Plaque Deposition in the Abdominal Aorta Despite Suppressed Plasma Cholesterol Levels. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2021, 41, 1874-1889.	2.4	10
76	Local Anti-miR Delivery. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, 1905-1906.	2.4	6
77	microRNA-128. <i>Circulation Research</i> , 2020, 126, 1721-1722.	4.5	1
78	Macrophage Foam Cell Formation: The Pathways to Cholesterol Engorgement. , 0, , 229-254.		1
79	Metabolic dysfunction branches out. <i>Science Translational Medicine</i> , 2016, 8, .	12.4	1
80	LDL cholesterol hitches a ride. <i>Science Translational Medicine</i> , 2016, 8, 368ec196.	12.4	1
81	Observational Cross-Sectional Study of Inflammatory Markers After Transient Ischemic Attacks, Acute Coronary Syndromes, and Vascular Stroke Events. <i>CJC Open</i> , 2021, 3, 675-679.	1.5	0
82	The splice of life: Understanding human macrophage polarization. <i>Science Translational Medicine</i> , 2016, 8, .	12.4	0
83	The trash piles up in vascular disease. <i>Science Translational Medicine</i> , 2016, 8, .	12.4	0
84	PITing host against bacteria in the fight for infection control. <i>Science Translational Medicine</i> , 2016, 8, .	12.4	0
85	Resolvinâ€™™ inflammation. <i>Science Translational Medicine</i> , 2016, 8, .	12.4	0
86	A big shot of small RNAs repairs a broken heart. <i>Science Translational Medicine</i> , 2017, 9, .	12.4	0
87	The scent of atherosclerosis. <i>Science</i> , 2022, 375, 145-146.	12.6	0