Sheila E Francis

List of Publications by Year
in descending order

91	5,339	71102	85541
papers	citations	41 h-index	71 g-index

98	98	98	9981
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Central Roles of Î± ₅ Î² ₁ Integrin and Fibronectin in Vascular Development in Mouse Embryos and Embryoid Bodies. Arteriosclerosis, Thrombosis, and Vascular Biology, 2002, 22, 927-933.	2.4	272
2	Interleukin-1Î² in Coronary Arteries of Patients With Ischemic Heart Disease. Arteriosclerosis, Thrombosis, and Vascular Biology, 1996, 16, 1000-1006.	2.4	269
3	Interleukin-1 Receptor Antagonist Gene Polymorphism and Coronary Artery Disease. Circulation, 1999, 99, 861-866.	1.6	217
4	Interleukin-1 Receptor Antagonist Expression in Human Endothelial Cells and Atherosclerosis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2000, 20, 2394-2400.	2.4	195
5	Interleukin-1Î² has atheroprotective effects in advanced atherosclerotic lesions of mice. Nature Medicine, 2018, 24, 1418-1429.	30.7	192
6	Ultrasound Enhances Reporter Gene Expression After Transfection of Vascular Cells In Vitro. Circulation, 1999, 99, 2617-2620.	1.6	187
7	IL-1 drives breast cancer growth and bone metastasisin vivo. Oncotarget, 2016, 7, 75571-75584.	1.8	177
8	Brain inflammation is induced by co-morbidities and risk factors for stroke. Brain, Behavior, and Immunity, 2011, 25, 1113-1122.	4.1	173
9	A Genomewide Scan for Early-Onset Coronary Artery Disease in 438 Families: The GENECARD Study. American Journal of Human Genetics, 2004, 75, 436-447.	6.2	152
10	Shear stress induces endothelial-to-mesenchymal transition via the transcription factor Snail. Scientific Reports, 2017, 7, 3375.	3.3	138
11	Apoptosis and Cell Proliferation After Porcine Coronary Angioplasty. Circulation, 1998, 98, 1657-1665.	1.6	136
12	TNF-related apoptosis-inducing ligand (TRAIL) regulates inflammatory neutrophil apoptosis and enhances resolution of inflammation. Journal of Leukocyte Biology, 2011, 90, 855-865.	3.3	126
13	Neurovascular dysfunction in vascular dementia, Alzheimerâ€™s and atherosclerosis. BMC Neuroscience, 2018, 19, 62.	1.9	122
14	Human Tribbles-1 Controls Proliferation and Chemotaxis of Smooth Muscle Cells via MAPK Signaling Pathways. Journal of Biological Chemistry, 2007, 282, 18379-18387.	3.4	121
15	MicroRNA-140-5p and SMURF1 regulate pulmonary arterial hypertension. Journal of Clinical Investigation, 2016, 126, 2495-2508.	8.2	119
16	Interleukin-1 in Myocardium and Coronary Arteries of Patients with Dilated Cardiomyopathy. Journal of Molecular and Cellular Cardiology, 1998, 30, 215-223.	1.9	116
17	TWIST1 Integrates Endothelial Responses to Flow in Vascular Dysfunction and Atherosclerosis. Circulation Research, 2016, 119, 450-462.	4.5	115
18	Interleukin-1Î² and Signaling of Interleukin-1 in Vascular Wall and Circulating Cells Modulates the Extent of Neointima Formation in Mice. American Journal of Pathology, 2006, 168, 1396-1403.	3.8	107

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19	Interleukin-1 Regulates Multiple Atherogenic Mechanisms in Response to Fat Feeding. PLoS ONE, 2009, 4, e5073.	2.5	105
20	Neutrophil microvesicles drive atherosclerosis by delivering miR-155 to atheroprone endothelium. Nature Communications, 2020, 11, 214.	12.8	103
21	Secretion of Intracellular IL-1 Receptor Antagonist (Type 1) Is Dependent on P2X7 Receptor Activation. Journal of Immunology, 2004, 173, 1202-1208.	0.8	90
22	A Cardinal Role for Cathepsin D in Co-Ordinating the Host-Mediated Apoptosis of Macrophages and Killing of Pneumococci. PLoS Pathogens, 2011, 7, e1001262.	4.7	85
23	Inhibition of tumor necrosis factorâ€"related apoptosis-inducing ligand (TRAIL) reverses experimental pulmonary hypertension. Journal of Experimental Medicine, 2012, 209, 1919-1935.	8.5	83
24	Evidence of a Role for Osteoprotegerin in the Pathogenesis of Pulmonary Arterial Hypertension. American Journal of Pathology, 2008, 172, 256-264.	3.8	80
25	Neutrophil Elastase Promotes Interleukin-1Î² Secretion from Human Coronary Endothelium. Journal of Biological Chemistry, 2015, 290, 24067-24078.	3.4	75
26	Transfer of complex regional pain syndrome to mice via human autoantibodies is mediated by interleukin-1â€"induced mechanisms. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13067-13076.	7.1	66
27	TRAIL attenuates the development of atherosclerosis in apolipoprotein E deficient mice. Atherosclerosis, 2011, 215, 348-354.	0.8	62
28	miRNA-21 is dysregulated in response to vein grafting in multiple models and genetic ablation in mice attenuates neointima formation. European Heart Journal, 2013, 34, 1636-1643.	2.2	61
29	Paigen Dietâ€"Fed Apolipoprotein E Knockout Mice Develop Severe Pulmonary Hypertension in an Interleukin-1â€"Dependent Manner. American Journal of Pathology, 2011, 179, 1693-1705.	3.8	58
30	Ultrasound-enhanced transgene expression in vascular cells is not dependent upon cavitation-induced free radicals. Ultrasound in Medicine and Biology, 2003, 29, 1453-1461.	1.5	57
31	Comparison of response to injury in organ culture of human saphenous vein and internal mammary artery. Annals of Thoracic Surgery, 1993, 55, 1522-1528.	1.3	55
32	Temporal Interleukin-1Î² Secretion from Primary Human Peripheral Blood Monocytes by P2X7-independent and P2X7-dependent Mechanisms. Journal of Biological Chemistry, 2010, 285, 23147-23158.	3.4	55
33	The characterisation of liposomes with covalently attached proteins. Biochimica Et Biophysica Acta - Biomembranes, 1989, 978, 17-24.	2.6	54
34	Tribbles-2 is a novel regulator of inflammatory activation of monocytes. International Immunology, 2008, 20, 1543-1550.	4.0	53
35	Ticagrelor Effectively and Reversibly Blocks Murine Platelet P2Y ₁₂ -Mediated Thrombosis and Demonstrates a Requirement for Sustained P2Y ₁₂ Inhibition to Prevent Subsequent Neointima. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 2385-2391.	2.4	50
36	Streptococcus pneumoniae worsens cerebral ischemia via interleukin 1 and platelet glycoprotein IbÎ±. Annals of Neurology, 2014, 75, 670-683.	5.3	50

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37	Myeloid Tribbles 1 induces early atherosclerosis via enhanced foam cell expansion. Science Advances, 2019, 5, eaax9183.	10.3	50
38	Interleukin-1 mediates ischaemic brain injury via distinct actions on endothelial cells and cholinergic neurons. Brain, Behavior, and Immunity, 2019, 76, 126-138.	4.1	48
39	Differential gene expression in coronary arteries from patients presenting with ischemic heart disease: Further evidence for the inflammatory basis of atherosclerosis. American Heart Journal, 2005, 150, 488-499.	2.7	47
40	The pseudokinase tribbles homologue-3 plays a crucial role in cannabinoid anticancer action. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2013, 1831, 1573-1578.	2.4	46
41	Vessel wall, not platelet, P2Y12 potentiates early atherogenesis. Cardiovascular Research, 2014, 102, 429-435.	3.8	45
42	Role of Animal Models in Coronary Stenting. Annals of Biomedical Engineering, 2016, 44, 453-465.	2.5	44
43	Fibroblast-specific deletion of IL-1 receptor-1 reduces adverse cardiac remodeling following myocardial infarction. JCI Insight, 2019, 4, .	5.0	44
44	Targeting and delivery of bactericide to adsorbed oral bacteria by use of proteoliposomes. Biochimica Et Biophysica Acta - Biomembranes, 1993, 1147, 251-261.	2.6	42
45	Vitamin D Deficiency and Exogenous Vitamin D Excess Similarly Increase Diffuse Atherosclerotic Calcification in Apolipoprotein E Knockout Mice. PLoS ONE, 2014, 9, e88767.	2.5	41
46	Interleukin-1 receptor antagonist alters the response to vessel wall injury in a porcine coronary artery model. Cardiovascular Research, 2005, 68, 493-501.	3.8	40
47	Interleukinâ€1 Mediates Neuroinflammatory Changes Associated With Dietâ€Induced Atherosclerosis. Journal of the American Heart Association, 2012, 1, e002006.	3.7	38
48	A cell kinetic analysis of human umbilical vein endothelial cells. Mechanisms of Ageing and Development, 2000, 120, 23-32.	4.6	31
49	Dietary Phosphate Modulates Atherogenesis and Insulin Resistance in Apolipoprotein E Knockout Miceâ€"Brief Report. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, 1988-1990.	2.4	31
50	Mechanistic links between acute respiratory tract infections and acute coronary syndromes. Journal of Infection, 2013, 66, 1-17.	3.3	31
51	Regulation of vascular smooth muscle cell calcification by syndecan-4/FGF-2/PKCÎ± signalling and cross-talk with TGFÎ². Cardiovascular Research, 2017, 113, 1639-1652.	3.8	31
52	A Role for Caspase-1 in Serum Withdrawal-Induced Apoptosis of Endothelial Cells. Laboratory Investigation, 2003, 83, 1497-1508.	3.7	29
53	Interleukin-1 Receptor Antagonist (IL-1RN) Genotype Modulates the Replicative Capacity of Human Endothelial Cells. Circulation Research, 2003, 92, 1285-1287.	4.5	27
54	Differential IL-1 signaling induced by BMPR2 deficiency drives pulmonary vascular remodeling. Pulmonary Circulation, 2017, 7, 768-776.	1.7	26

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55	A central role for monocytes in Tollâ€like receptorâ€mediated activation of the vasculature. Immunology, 2009, 128, 58-68.	4.4	24
56	Serum Osteoprotegerin is Increased and Predicts Survival in Idiopathic Pulmonary Arterial Hypertension. Pulmonary Circulation, 2012, 2, 21-27.	1.7	24
57	Requirement of JNK1 for endothelial cell injury in atherogenesis. Atherosclerosis, 2014, 235, 613-618.	0.8	24
58	Dietary Docosahexaenoic Acid Reduces Oscillatory Wall Shear Stress, Atherosclerosis, and Hypertension, Most Likely Mediated via an ILâ€1â€“Mediated Mechanism. Journal of the American Heart Association, 2018, 7, .	3.7	24
59	Action of intracellular IL-1Ra (Type 1) is independent of the IL-1 intracellular signalling pathway. Cytokine, 2006, 33, 274-280.	3.2	23
60	A therapeutic antibody targeting osteoprotegerin attenuates severe experimental pulmonary arterial hypertension. Nature Communications, 2019, 10, 5183.	12.8	22
61	Tribbles in inflammation. Biochemical Society Transactions, 2015, 43, 1069-1074.	3.4	21
62	The effect of surface-bound protein on the permeability of proteoliposomes. Biochimica Et Biophysica Acta - Biomembranes, 1991, 1062, 117-122.	2.6	20
63	Interleukinâ€1 receptor antagonist (ILâ€1ra) modulates endothelial cell proliferation. FEBS Letters, 2008, 582, 886-890.	2.8	20
64	Protective Role for Properdin in Progression of Experimental Murine Atherosclerosis. PLoS ONE, 2014, 9, e92404.	2.5	18
65	The control of protein surface concentration on proteoliposomes. Colloids and Surfaces, 1992, 62, 177-184.	0.9	17
66	The IL-1RI Co-Receptor TILRR (FREM1ÂIsoform 2) Controls Aberrant Inflammatory Responses and Development of Vascular Disease. JACC Basic To Translational Science, 2017, 2, 398-414.	4.1	17
67	TRIB3 suppresses tumorigenesis by controlling mTORC2/AKT/FOXO signaling. Molecular and Cellular Oncology, 2015, 2, e980134.	0.7	16
68	The Role of Complement in the Development and Manifestation of Murine Atherogenic Inflammation: Novel Avenues. Journal of Innate Immunity, 2012, 4, 260-272.	3.8	15
69	High-resolution and sensitivity bi-directional x-ray phase contrast imaging using 2D Talbot array illuminators. Optica, 2021, 8, 1588.	9.3	15
70	LDL uptake by monocytes in response to inflammation is MAPK dependent but independent of tribbles protein expression. Immunology Letters, 2008, 116, 178-183.	2.5	14
71	A novel mouse model of in situ stenting. Cardiovascular Research, 2010, 85, 38-44.	3.8	14
72	The integrity of proteoliposomes adsorbed on a biosurface. Biochimica Et Biophysica Acta - Biomembranes, 1989, 987, 212-216.	2.6	12

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73	Enhanced Cerebral Blood Volume under Normobaric Hyperoxia in the J20-hAPP Mouse Model of Alzheimerâ€™s Disease. Scientific Reports, 2020, 10, 7518.	3.3	12
74	X-ray Micro-Computed Tomography: An Emerging Technology to Analyze Vascular Calcification in Animal Models. International Journal of Molecular Sciences, 2020, 21, 4538.	4.1	12
75	Assessment of neurovascular coupling and cortical spreading depression in mixed mouse models of atherosclerosis and Alzheimerâ€™s disease. ELife, 2022, 11, .	6.0	12
76	No Evidence for Cardiac Dysfunction in Kif6 Mutant Mice. PLoS ONE, 2013, 8, e54636.	2.5	9
77	Selective improvement of pulmonary arterial hypertension with a dual ET_A/ET_B receptors antagonist in the apolipoprotein E^{â˜’/â˜’} model of PAH and atherosclerosis. Pulmonary Circulation, 2018, 8, 1-11.	1.7	8
78	Coronary stents seeded with human trophoblastic endovascular progenitor cells show accelerated strut coverage without excessive neointimal proliferation in a porcine model. EuroIntervention, 2014, 10, 709-716.	3.2	8
79	Effect of surface-bound lectin on the release of encapsulated sugar from vesicle delivery systems. Biochemical Society Transactions, 1990, 18, 876-877.	3.4	7
80	Release of platelet derived growth factor in serum-free organ culture of human coronary artery. Cardiovascular Research, 1994, 28, 1170-1175.	3.8	7
81	TRAIL Deficient Mice Are Protected from Sugen/Hypoxia Induced Pulmonary Arterial Hypertension. Diseases (Basel, Switzerland), 2014, 2, 260-273.	2.5	7
82	Preclinical models of disease and multimorbidity with focus upon cardiovascular disease and dementia. Mechanisms of Ageing and Development, 2020, 192, 111361.	4.6	7
83	The integrity of proteoliposomes targeted to a model biosurface. Biochemical Society Transactions, 1989, 17, 558-559.	3.4	6
84	Enhanced Macrophage Tribbles-1 Expression in Murine Experimental Atherosclerosis. Biology, 2012, 1, 43-57.	2.8	6
85	Frataxin and endothelial cell senescence in pulmonary hypertension. Journal of Clinical Investigation, 2021, 131, .	8.2	6
86	Bone Mineral Metabolism Parameters and Urinary Albumin Excretion in a Representative US Population Sample. PLoS ONE, 2014, 9, e88388.	2.5	6
87	Cell-specific conditional deletion of interleukin-1 (IL-1) ligands and its receptors: a new toolbox to study the role of IL-1 in health and disease. Journal of Molecular Medicine, 2020, 98, 923-930.	3.9	5
88	Carbon monoxide releasing molecule A1 reduces myocardial damage after acute myocardial infarction in a porcine model. Journal of Cardiovascular Pharmacology, 2021, Publish Ahead of Print, e656-e661.	1.9	5
89	Integrins and Vascular Development in Differentiated Embryonic Stem Cells In Vitro. , 2006, 330, 331-340.		2
90	Serum-Free organ culture of vascular tissues. In Vitro Cellular & Developmental Biology, 1992, 28, 693-694.	1.0	1

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91	Genetic Experimental Preparations for Studying Atherosclerosis. Progress in Molecular Biology and Translational Science, 2014, 124, 1-18.	1.7	0