

# Sheila E Francis

## List of Publications by Year in descending order

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91  
papers

5,339  
citations

71102

41  
h-index

85541

71  
g-index

98  
all docs

98  
docs citations

98  
times ranked

9981  
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessment of neurovascular coupling and cortical spreading depression in mixed mouse models of atherosclerosis and Alzheimer's disease. <i>ELife</i> , 2022, 11, .	6.0	12
2	Carbon monoxide releasing molecule A1 reduces myocardial damage after acute myocardial infarction in a porcine model. <i>Journal of Cardiovascular Pharmacology</i> , 2021, Publish Ahead of Print, e656-e661.	1.9	5
3	Frataxin and endothelial cell senescence in pulmonary hypertension. <i>Journal of Clinical Investigation</i> , 2021, 131, .	8.2	6
4	High-resolution and sensitivity bi-directional x-ray phase contrast imaging using 2D Talbot array illuminators. <i>Optica</i> , 2021, 8, 1588.	9.3	15
5	Preclinical models of disease and multimorbidity with focus upon cardiovascular disease and dementia. <i>Mechanisms of Ageing and Development</i> , 2020, 192, 111361.	4.6	7
6	Enhanced Cerebral Blood Volume under Normobaric Hyperoxia in the J20-hAPP Mouse Model of Alzheimer's Disease. <i>Scientific Reports</i> , 2020, 10, 7518.	3.3	12
7	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. <i>Journal of Molecular Medicine</i> , 2020, 98, 923-930.	3.9	5
8	X-ray Micro-Computed Tomography: An Emerging Technology to Analyze Vascular Calcification in Animal Models. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4538.	4.1	12
9	Neutrophil microvesicles drive atherosclerosis by delivering miR-155 to atheroprone endothelium. <i>Nature Communications</i> , 2020, 11, 214.	12.8	103
10	Myeloid Tribbles 1 induces early atherosclerosis via enhanced foam cell expansion. <i>Science Advances</i> , 2019, 5, eaax9183.	10.3	50
11	Transfer of complex regional pain syndrome to mice via human autoantibodies is mediated by interleukin-1-induced mechanisms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 13067-13076.	7.1	66
12	A therapeutic antibody targeting osteoprotegerin attenuates severe experimental pulmonary arterial hypertension. <i>Nature Communications</i> , 2019, 10, 5183.	12.8	22
13	Interleukin-1 mediates ischaemic brain injury via distinct actions on endothelial cells and cholinergic neurons. <i>Brain, Behavior, and Immunity</i> , 2019, 76, 126-138.	4.1	48
14	Fibroblast-specific deletion of IL-1 receptor-1 reduces adverse cardiac remodeling following myocardial infarction. <i>JCI Insight</i> , 2019, 4, .	5.0	44
15	Selective improvement of pulmonary arterial hypertension with a dual ET <sub>A</sub> /ET <sub>B</sub> receptors antagonist in the apolipoprotein E <sup>-/-</sup> model of PAH and atherosclerosis. <i>Pulmonary Circulation</i> , 2018, 8, 1-11.	1.7	8
16	Neurovascular dysfunction in vascular dementia, Alzheimer's and atherosclerosis. <i>BMC Neuroscience</i> , 2018, 19, 62.	1.9	122
17	Dietary Docosahexaenoic Acid Reduces Oscillatory Wall Shear Stress, Atherosclerosis, and Hypertension, Most Likely Mediated via an IL-1-Mediated Mechanism. <i>Journal of the American Heart Association</i> , 2018, 7, .	3.7	24
18	Interleukin-1 $\beta$ has atheroprotective effects in advanced atherosclerotic lesions of mice. <i>Nature Medicine</i> , 2018, 24, 1418-1429.	30.7	192

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19	Shear stress induces endothelial-to-mesenchymal transition via the transcription factor Snail. <i>Scientific Reports</i> , 2017, 7, 3375.	3.3	138
20	Regulation of vascular smooth muscle cell calcification by syndecan-4/FGF-2/PKC $\zeta$ signalling and cross-talk with TGF $\beta$ 2. <i>Cardiovascular Research</i> , 2017, 113, 1639-1652.	3.8	31
21	The IL-1RI Co-Receptor TILRR (FREM1 $\Delta$ isoform 2) Controls Aberrant Inflammatory Responses and Development of Vascular Disease. <i>JACC Basic To Translational Science</i> , 2017, 2, 398-414.	4.1	17
22	Differential IL-1 signaling induced by BMPR2 deficiency drives pulmonary vascular remodeling. <i>Pulmonary Circulation</i> , 2017, 7, 768-776.	1.7	26
23	IL-1 drives breast cancer growth and bone metastasis <i>in vivo</i> . <i>Oncotarget</i> , 2016, 7, 75571-75584.	1.8	177
24	TWIST1 Integrates Endothelial Responses to Flow in Vascular Dysfunction and Atherosclerosis. <i>Circulation Research</i> , 2016, 119, 450-462.	4.5	115
25	Role of Animal Models in Coronary Stenting. <i>Annals of Biomedical Engineering</i> , 2016, 44, 453-465.	2.5	44
26	MicroRNA-140-5p and SMURF1 regulate pulmonary arterial hypertension. <i>Journal of Clinical Investigation</i> , 2016, 126, 2495-2508.	8.2	119
27	Tribbles in inflammation. <i>Biochemical Society Transactions</i> , 2015, 43, 1069-1074.	3.4	21
28	Neutrophil Elastase Promotes Interleukin-1 $\beta$ Secretion from Human Coronary Endothelium. <i>Journal of Biological Chemistry</i> , 2015, 290, 24067-24078.	3.4	75
29	TRIB3 suppresses tumorigenesis by controlling mTORC2/AKT/FOXO signaling. <i>Molecular and Cellular Oncology</i> , 2015, 2, e980134.	0.7	16
30	Protective Role for Properdin in Progression of Experimental Murine Atherosclerosis. <i>PLoS ONE</i> , 2014, 9, e92404.	2.5	18
31	TRAIL Deficient Mice Are Protected from Sugen/Hypoxia Induced Pulmonary Arterial Hypertension. <i>Diseases (Basel, Switzerland)</i> , 2014, 2, 260-273.	2.5	7
32	Vessel wall, not platelet, P2Y12 potentiates early atherogenesis. <i>Cardiovascular Research</i> , 2014, 102, 429-435.	3.8	45
33	<i>Streptococcus pneumoniae</i> worsens cerebral ischemia via interleukin 1 and platelet glycoprotein I $\beta$ . <i>Annals of Neurology</i> , 2014, 75, 670-683.	5.3	50
34	Genetic Experimental Preparations for Studying Atherosclerosis. <i>Progress in Molecular Biology and Translational Science</i> , 2014, 124, 1-18.	1.7	0
35	Requirement of JNK1 for endothelial cell injury in atherogenesis. <i>Atherosclerosis</i> , 2014, 235, 613-618.	0.8	24
36	Bone Mineral Metabolism Parameters and Urinary Albumin Excretion in a Representative US Population Sample. <i>PLoS ONE</i> , 2014, 9, e88388.	2.5	6

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37	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
38	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
39	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
40	Mechanistic links between acute respiratory tract infections and acute coronary syndromes. Journal of Infection, 2013, 66, 1-17.	3.3	31
41	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
42	No Evidence for Cardiac Dysfunction in Kif6 Mutant Mice. PLoS ONE, 2013, 8, e54636.	2.5	9
43	Serum Osteoprotegerin is Increased and Predicts Survival in Idiopathic Pulmonary Arterial Hypertension. Pulmonary Circulation, 2012, 2, 21-27.	1.7	24
44	Interleukin-1 Mediates Neuroinflammatory Changes Associated With Diet-Induced Atherosclerosis. Journal of the American Heart Association, 2012, 1, e002006.	3.7	38
45	Inhibition of tumor necrosis factor-related apoptosis-inducing ligand (TRAIL) reverses experimental pulmonary hypertension. Journal of Experimental Medicine, 2012, 209, 1919-1935.	8.5	83
46	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
47	Enhanced Macrophage Tribbles-1 Expression in Murine Experimental Atherosclerosis. Biology, 2012, 1, 43-57.	2.8	6
48	Paigen Diet-Fed Apolipoprotein E Knockout Mice Develop Severe Pulmonary Hypertension in an Interleukin-1-Dependent Manner. American Journal of Pathology, 2011, 179, 1693-1705.	3.8	58
49	Brain inflammation is induced by co-morbidities and risk factors for stroke. Brain, Behavior, and Immunity, 2011, 25, 1113-1122.	4.1	173
50	TRAIL attenuates the development of atherosclerosis in apolipoprotein E deficient mice. Atherosclerosis, 2011, 215, 348-354.	0.8	62
51	Dietary Phosphate Modulates Atherogenesis and Insulin Resistance in Apolipoprotein E Knockout Mice—Brief Report. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, 1988-1990.	2.4	31
52	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
53	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
54	Ticagrelor Effectively and Reversibly Blocks Murine Platelet P2Y <sub>12</sub> -Mediated Thrombosis and Demonstrates a Requirement for Sustained P2Y <sub>12</sub> Inhibition to Prevent Subsequent Neointima. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 2385-2391.	2.4	50

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55	Temporal Interleukin-1 $\beta$ Secretion from Primary Human Peripheral Blood Monocytes by P2X7-independent and P2X7-dependent Mechanisms. <i>Journal of Biological Chemistry</i> , 2010, 285, 23147-23158.	3.4	55
56	A novel mouse model of in situ stenting. <i>Cardiovascular Research</i> , 2010, 85, 38-44.	3.8	14
57	Interleukin-1 Regulates Multiple Atherogenic Mechanisms in Response to Fat Feeding. <i>PLoS ONE</i> , 2009, 4, e5073.	2.5	105
58	A central role for monocytes in Toll-like receptor-mediated activation of the vasculature. <i>Immunology</i> , 2009, 128, 58-68.	4.4	24
59	LDL uptake by monocytes in response to inflammation is MAPK dependent but independent of tribbles protein expression. <i>Immunology Letters</i> , 2008, 116, 178-183.	2.5	14
60	Interleukin-1 receptor antagonist (IL-1ra) modulates endothelial cell proliferation. <i>FEBS Letters</i> , 2008, 582, 886-890.	2.8	20
61	Evidence of a Role for Osteoprotegerin in the Pathogenesis of Pulmonary Arterial Hypertension. <i>American Journal of Pathology</i> , 2008, 172, 256-264.	3.8	80
62	Tribbles-2 is a novel regulator of inflammatory activation of monocytes. <i>International Immunology</i> , 2008, 20, 1543-1550.	4.0	53
63	Human Tribbles-1 Controls Proliferation and Chemotaxis of Smooth Muscle Cells via MAPK Signaling Pathways. <i>Journal of Biological Chemistry</i> , 2007, 282, 18379-18387.	3.4	121
64	Interleukin-1 $\beta$ and Signaling of Interleukin-1 in Vascular Wall and Circulating Cells Modulates the Extent of Neointima Formation in Mice. <i>American Journal of Pathology</i> , 2006, 168, 1396-1403.	3.8	107
65	Action of intracellular IL-1Ra (Type 1) is independent of the IL-1 intracellular signalling pathway. <i>Cytokine</i> , 2006, 33, 274-280.	3.2	23
66	Integrins and Vascular Development in Differentiated Embryonic Stem Cells In Vitro. , 2006, 330, 331-340.		2
67	Interleukin-1 receptor antagonist alters the response to vessel wall injury in a porcine coronary artery model. <i>Cardiovascular Research</i> , 2005, 68, 493-501.	3.8	40
68	Differential gene expression in coronary arteries from patients presenting with ischemic heart disease: Further evidence for the inflammatory basis of atherosclerosis. <i>American Heart Journal</i> , 2005, 150, 488-499.	2.7	47
69	Secretion of Intracellular IL-1 Receptor Antagonist (Type 1) Is Dependent on P2X7 Receptor Activation. <i>Journal of Immunology</i> , 2004, 173, 1202-1208.	0.8	90
70	A Genomewide Scan for Early-Onset Coronary Artery Disease in 438 Families: The GENECARD Study. <i>American Journal of Human Genetics</i> , 2004, 75, 436-447.	6.2	152
71	Ultrasound-enhanced transgene expression in vascular cells is not dependent upon cavitation-induced free radicals. <i>Ultrasound in Medicine and Biology</i> , 2003, 29, 1453-1461.	1.5	57
72	A Role for Caspase-1 in Serum Withdrawal-Induced Apoptosis of Endothelial Cells. <i>Laboratory Investigation</i> , 2003, 83, 1497-1508.	3.7	29

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73	Interleukin-1 Receptor Antagonist (IL-1RN) Genotype Modulates the Replicative Capacity of Human Endothelial Cells. <i>Circulation Research</i> , 2003, 92, 1285-1287.	4.5	27
74	Central Roles of $\alpha_5\beta_1$ Integrin and Fibronectin in Vascular Development in Mouse Embryos and Embryoid Bodies. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2002, 22, 927-933.	2.4	272
75	A cell kinetic analysis of human umbilical vein endothelial cells. <i>Mechanisms of Ageing and Development</i> , 2000, 120, 23-32.	4.6	31
76	Interleukin-1 Receptor Antagonist Expression in Human Endothelial Cells and Atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2000, 20, 2394-2400.	2.4	195
77	Ultrasound Enhances Reporter Gene Expression After Transfection of Vascular Cells In Vitro. <i>Circulation</i> , 1999, 99, 2617-2620.	1.6	187
78	Interleukin-1 Receptor Antagonist Gene Polymorphism and Coronary Artery Disease. <i>Circulation</i> , 1999, 99, 861-866.	1.6	217
79	Interleukin-1 in Myocardium and Coronary Arteries of Patients with Dilated Cardiomyopathy. <i>Journal of Molecular and Cellular Cardiology</i> , 1998, 30, 215-223.	1.9	116
80	Apoptosis and Cell Proliferation After Porcine Coronary Angioplasty. <i>Circulation</i> , 1998, 98, 1657-1665.	1.6	136
81	Interleukin-1 $\beta$ in Coronary Arteries of Patients With Ischemic Heart Disease. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 1996, 16, 1000-1006.	2.4	269
82	Release of platelet derived growth factor in serum-free organ culture of human coronary artery. <i>Cardiovascular Research</i> , 1994, 28, 1170-1175.	3.8	7
83	Targeting and delivery of bactericide to adsorbed oral bacteria by use of proteoliposomes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1993, 1147, 251-261.	2.6	42
84	Comparison of response to injury in organ culture of human saphenous vein and internal mammary artery. <i>Annals of Thoracic Surgery</i> , 1993, 55, 1522-1528.	1.3	55
85	Serum-Free organ culture of vascular tissues. <i>In Vitro Cellular &amp; Developmental Biology</i> , 1992, 28, 693-694.	1.0	1
86	The control of protein surface concentration on proteoliposomes. <i>Colloids and Surfaces</i> , 1992, 62, 177-184.	0.9	17
87	The effect of surface-bound protein on the permeability of proteoliposomes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1991, 1062, 117-122.	2.6	20
88	Effect of surface-bound lectin on the release of encapsulated sugar from vesicle delivery systems. <i>Biochemical Society Transactions</i> , 1990, 18, 876-877.	3.4	7
89	The characterisation of liposomes with covalently attached proteins. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1989, 978, 17-24.	2.6	54
90	The integrity of proteoliposomes adsorbed on a biosurface. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1989, 987, 212-216.	2.6	12

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91	The integrity of proteoliposomes targeted to a model biosurface. Biochemical Society Transactions, 1989, 17, 558-559.	3.4	6