Philip M Cummins

List of Publications by Citations

58 papers	2,132 citations	23 h-index	45 g-index
58 ext. papers	2,399 ext. citations	4.5 avg, IF	5.25 L-index

#	Paper	IF	Citations
58	Occludin: one protein, many forms. *Molecular and Cellular Biology*, **2012**, 32, 242-50	4.8	244
57	Downregulation of blood-brain barrier phenotype by proinflammatory cytokines involves NADPH oxidase-dependent ROS generation: consequences for interendothelial adherens and tight junctions. *PLoS ONE*, **2014**, 9, e101815	3.7	150
56	Thrombomodulin and the vascular endothelium: insights into functional, regulatory, and therapeutic aspects. *American Journal of Physiology - Heart and Circulatory Physiology*, **2013**, 304, H1585-97	5.2	121
55	Cyclic strain inhibits Notch receptor signaling in vascular smooth muscle cells in vitro. *Circulation Research*, **2005**, 96, 567-75	15.7	118
54	The blood-brain barrier endothelium: a target for pro-inflammatory cytokines. *Biochemical Society Transactions*, **2015**, 43, 702-6	5.1	115
53	Notch 1 and 3 receptor signaling modulates vascular smooth muscle cell growth, apoptosis, and migration via a CBF-1/RBP-Jk dependent pathway. *FASEB Journal*, **2004**, 18, 1421-3	0.9	111
52	Regulation of bovine brain microvascular endothelial tight junction assembly and barrier function by laminar shear stress. *American Journal of Physiology - Heart and Circulatory Physiology*, **2007**, 292, H3190-7	5.2	83
51	Vascular calcification in type-2 diabetes and cardiovascular disease: Integrative roles for OPG, RANKL and TRAIL. *Vascular Pharmacology*, **2016**, 82, 30-40	5.9	82
50	Stabilization of brain microvascular endothelial barrier function by shear stress involves VE-cadherin signaling leading to modulation of pTyr-occludin levels. *Journal of Cellular Physiology*, **2011**, 226, 3053-63	7	76
49	Cyclic strain-mediated regulation of vascular endothelial cell migration and tube formation. *Biochemical and Biophysical Research Communications*, **2005**, 329, 573-82	3.4	76
48	Cyclic strain-mediated regulation of vascular endothelial occludin and ZO-1: influence on intercellular tight junction assembly and function. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2006**, 26, 62-8	9.4	75
47	Influence of basolateral condition on the regulation of brain microvascular endothelial tight junction properties and barrier function. *Brain Research*, **2008**, 1193, 84-92	3.7	65
46	Cyclic strain-mediated matrix metalloproteinase regulation within the vascular endothelium: a force to be reckoned with. *American Journal of Physiology - Heart and Circulatory Physiology*, **2007**, 292, H28-42	5.2	64
45	Cytokine-mediated dysregulation of zonula occludens-1 properties in human brain microvascular endothelium. *Microvascular Research*, **2015**, 100, 48-53	3.7	60
44	Tumour necrosis factor-□mediated disruption of cerebrovascular endothelial barrier integrity in vitro involves the production of proinflammatory interleukin-6. *Journal of Neurochemistry*, **2016**, 136, 564-72	6	59
43	The association of metalloendopeptidase EC 3.4.24.15 at the extracellular surface of the AtT-20 cell plasma membrane. *Brain Research*, **1999**, 835, 113-24	3.7	58
42	Cyclic strain-mediated regulation of endothelial matrix metalloproteinase-2 expression and activity. *Cardiovascular Research*, **2004**, 63, 625-34	9.9	55

41	The neuropeptide processing enzyme EC 3.4.24.15 is modulated by protein kinase A phosphorylation. *Journal of Biological Chemistry*, **2000**, 275, 36514-22	5.4	40
40	Zinc coordination and substrate catalysis within the neuropeptide processing enzyme endopeptidase EC 3.4.24.15. Identification of active site histidine and glutamate residues. *Journal of Biological Chemistry*, **1999**, 274, 16003-9	5.4	34
39	The endothelial microparticle response to a high fat meal is not attenuated by prior exercise. *European Journal of Applied Physiology*, **2009**, 106, 555-62	3.4	31
38	Ion-Exchange Chromatography: Basic Principles and Application. *Methods in Molecular Biology*, **2017**, 1485, 209-223	1.4	27
37	Bovine brain pyroglutamyl aminopeptidase (type-1): purification and characterisation of a neuropeptide-inactivating peptidase. *International Journal of Biochemistry and Cell Biology*, **1996**, 28, 883-93	5.6	27
36	The beneficial pleiotropic effects of tumour necrosis factor-related apoptosis-inducing ligand (TRAIL) within the vasculature: A review of the evidence. *Atherosclerosis*, **2016**, 247, 87-96	3.1	26
35	RANKL promotes osteoblastic activity in vascular smooth muscle cells by upregulating endothelial BMP-2 release. *International Journal of Biochemistry and Cell Biology*, **2016**, 77, 171-180	5.6	23
34	Staphylococcus aureus-mediated blood-brain barrier injury: an in vitro human brain microvascular endothelial cell model. *Cellular Microbiology*, **2017**, 19, e12664	3.9	20
33	Shear-dependent attenuation of cellular ROS levels can suppress proinflammatory cytokine injury to human brain microvascular endothelial barrier properties. *Journal of Cerebral Blood Flow and Metabolism*, **2015**, 35, 1648-56	7.3	19
32	Modulation of nitric oxide and 6-keto-prostaglandin F(1alpha) production in bovine aortic endothelial cells by conjugated linoleic acid. *Endothelium: Journal of Endothelial Cell Research*, **2004**, 11, 211-20		19
31	Cyclic strain-induced endothelial MMP-2: role in vascular smooth muscle cell migration. *Biochemical and Biophysical Research Communications*, **2004**, 320, 325-33	3.4	19
30	Helicobacter pylori-induced inhibition of vascular endothelial cell functions: a role for VacA-dependent nitric oxide reduction. *American Journal of Physiology - Heart and Circulatory Physiology*, **2008**, 295, H1403-13	5.2	18
29	The role of epigenetics in cardiovascular health and ageing: A focus on physical activity and nutrition. *Mechanisms of Ageing and Development*, **2018**, 174, 76-85	5.6	18
28	The effects of insulin and liraglutide on osteoprotegerin and vascular calcification in vitro and in patients with type 2 diabetes. *European Journal of Endocrinology*, **2015**, 173, 53-61	6.5	14
27	Thrombomodulin regulation in human brain microvascular endothelial cells in vitro: role of cytokines and shear stress. *Microvascular Research*, **2015**, 97, 1-5	3.7	14
26	Regulation of thrombomodulin expression and release in human aortic endothelial cells by cyclic strain. *PLoS ONE*, **2014**, 9, e108254	3.7	14
25	Down-regulation of neprilysin (EC3.4.24.11) expression in vascular endothelial cells by laminar shear stress involves NADPH oxidase-dependent ROS production. *International Journal of Biochemistry and Cell Biology*, **2009**, 41, 2287-94	5.6	13
24	Pulse pressure-induced transmural fluid flux increases bovine aortic smooth muscle cell apoptosis in a mitogen activated protein kinase dependent manner. *Journal of Vascular Research*, **2004**, 41, 364-74	1.9	13

23	Moesin and merlin regulate urokinase receptor-dependent endothelial cell migration, adhesion and angiogenesis. *International Journal of Biochemistry and Cell Biology*, **2017**, 88, 14-22	5.6	12
22	Hydrophobic interaction chromatography. *Methods in Molecular Biology*, **2011**, 681, 431-7	1.4	12
21	Shear stress is a positive regulator of thimet oligopeptidase (EC3.4.24.15) in vascular endothelial cells: consequences for MHC1 levels. *Cardiovascular Research*, **2013**, 99, 545-54	9.9	11
20	Potential Diagnostic and Prognostic Biomarkers of Epigenetic Drift within the Cardiovascular Compartment. *BioMed Research International*, **2016**, 2016, 2465763	3	11
19	Regulation of endopeptidases EC3.4.24.15 and EC3.4.24.16 in vascular endothelial cells by cyclic strain: role of Gi protein signaling. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2004**, 24, 457-63	9.4	10
18	Gel-Filtration Chromatography. *Methods in Molecular Biology*, **2017**, 1485, 15-25	1.4	9
17	TRAIL attenuates RANKL-mediated osteoblastic signalling in vascular cell mono-culture and co-culture models. *PLoS ONE*, **2017**, 12, e0188192	3.7	8
16	Ion-exchange chromatography: basic principles and application to the partial purification of soluble mammalian prolyl oligopeptidase. *Methods in Molecular Biology*, **2011**, 681, 215-28	1.4	8
15	RANKL Inhibits the Production of Osteoprotegerin from Smooth Muscle Cells under Basal Conditions and following Exposure to Cyclic Strain. *Journal of Vascular Research*, **2018**, 55, 111-123	1.9	7
14	Microparticles: A Pivotal Nexus in Vascular Homeostasis and Disease. *Current Clinical Pharmacology*, **2016**, 11, 28-42	2.5	6
13	Intravitreal AAV2.COMP-Ang1 Attenuates Deep Capillary Plexus Expansion in the Aged Diabetic Mouse Retina **2019**, 60, 2494-2502		5
12	A new addition to the renin-angiotensin peptide family: proAngiotensin-12 (PA12). *Cardiovascular Research*, **2009**, 82, 7-8	9.9	5
11	Hemodynamic regulation of metallopeptidases within the vasculature. *Protein and Peptide Letters*, **2004**, 11, 433-42	1.9	5
10	Activation of the non-canonical NF-ΒB/p52 pathway in vascular endothelial cells by RANKL elicits pro-calcific signalling in co-cultured smooth muscle cells. *Cellular Signalling*, **2018**, 47, 142-150	4.9	4
9	COMP-Ang1 Stabilizes Hyperglycemic Disruption of Blood-Retinal Barrier Phenotype in Human Retinal Microvascular Endothelial Cells **2019**, 60, 3547-3555		4
8	Pulmonary endothelial permeability and tissue fluid balance depend on the viscosity of the perfusion solution. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2018**, 315, L476-L484	5.8	3
7	Identification of a dipeptidyl aminopeptidase type-II in the cytosolic fraction of bovine brain. *Biochemical Society Transactions*, **1992**, 20, 56S	5.1	3
6	Hydrophobic Interaction Chromatography. *Methods in Molecular Biology*, **2017**, 1485, 355-363	1.4	2

List of Publications

5	TRAIL inhibits oxidative stress in human aortic endothelial cells exposed to pro-inflammatory stimuli. *Physiological Reports*, **2020**, 8, e14612	2.6	2
4	In Vitro Cell Models of the Human Blood-Brain Barrier: Demonstrating the Beneficial Influence of Shear Stress on Brain Microvascular Endothelial Cell Phenotype. *Neuromethods*, **2019**, 71-98	0.4	2
3	Data on the regulation of moesin and merlin by the urokinase receptor (uPAR): Model explaining distal activation of integrins by uPAR. *Data in Brief*, **2017**, 15, 600-605	1.2	1
2	RANKL treatment of vascular endothelial cells leading to paracrine pro-calcific signaling involves ROS production. *Molecular and Cellular Biochemistry*, **2020**, 464, 111-117	4.2	1
1	COMP-Ang1: Therapeutic potential of an engineered Angiopoietin-1 variant. *Vascular Pharmacology* , **2021**, 141, 106919	5.9	0