

# Philip M Cummins

## List of Publications by Year in Descending Order

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

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	COMP-Ang1: Therapeutic potential of an engineered Angiopoietin-1 variant. <i>Vascular Pharmacology</i> , <b>2021</b> , 141, 106919	5.9	0
57	RANKL treatment of vascular endothelial cells leading to paracrine pro-calcific signaling involves ROS production. <i>Molecular and Cellular Biochemistry</i> , <b>2020</b> , 464, 111-117	4.2	1
56	TRAIL inhibits oxidative stress in human aortic endothelial cells exposed to pro-inflammatory stimuli. <i>Physiological Reports</i> , <b>2020</b> , 8, e14612	2.6	2
55	Intravitreal AAV2.COMP-Ang1 Attenuates Deep Capillary Plexus Expansion in the Aged Diabetic Mouse Retina <b>2019</b> , 60, 2494-2502		5
54	COMP-Ang1 Stabilizes Hyperglycemic Disruption of Blood-Retinal Barrier Phenotype in Human Retinal Microvascular Endothelial Cells <b>2019</b> , 60, 3547-3555		4
53	In Vitro Cell Models of the Human Blood-Brain Barrier: Demonstrating the Beneficial Influence of Shear Stress on Brain Microvascular Endothelial Cell Phenotype. <i>Neuromethods</i> , <b>2019</b> , 71-98	0.4	2
52	Activation of the non-canonical NF-B/p52 pathway in vascular endothelial cells by RANKL elicits pro-calcific signalling in co-cultured smooth muscle cells. <i>Cellular Signalling</i> , <b>2018</b> , 47, 142-150	4.9	4
51	RANKL Inhibits the Production of Osteoprotegerin from Smooth Muscle Cells under Basal Conditions and following Exposure to Cyclic Strain. <i>Journal of Vascular Research</i> , <b>2018</b> , 55, 111-123	1.9	7
50	Pulmonary endothelial permeability and tissue fluid balance depend on the viscosity of the perfusion solution. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2018</b> , 315, L476-L484	5.8	3
49	The role of epigenetics in cardiovascular health and ageing: A focus on physical activity and nutrition. <i>Mechanisms of Ageing and Development</i> , <b>2018</b> , 174, 76-85	5.6	18
48	Moesin and merlin regulate urokinase receptor-dependent endothelial cell migration, adhesion and angiogenesis. <i>International Journal of Biochemistry and Cell Biology</i> , <b>2017</b> , 88, 14-22	5.6	12
47	Data on the regulation of moesin and merlin by the urokinase receptor (uPAR): Model explaining distal activation of integrins by uPAR. <i>Data in Brief</i> , <b>2017</b> , 15, 600-605	1.2	1
46	TRAIL attenuates RANKL-mediated osteoblastic signalling in vascular cell mono-culture and co-culture models. <i>PLoS ONE</i> , <b>2017</b> , 12, e0188192	3.7	8
45	Gel-Filtration Chromatography. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1485, 15-25	1.4	9
44	Hydrophobic Interaction Chromatography. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1485, 355-363	1.4	2
43	Ion-Exchange Chromatography: Basic Principles and Application. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1485, 209-223	1.4	27
42	Staphylococcus aureus-mediated blood-brain barrier injury: an in vitro human brain microvascular endothelial cell model. <i>Cellular Microbiology</i> , <b>2017</b> , 19, e12664	3.9	20

41	Tumour necrosis factor- $\beta$ -mediated disruption of cerebrovascular endothelial barrier integrity in vitro involves the production of proinflammatory interleukin-6. <i>Journal of Neurochemistry</i> , <b>2016</b> , 136, 564-72	6	59
40	The beneficial pleiotropic effects of tumour necrosis factor-related apoptosis-inducing ligand (TRAIL) within the vasculature: A review of the evidence. <i>Atherosclerosis</i> , <b>2016</b> , 247, 87-96	3.1	26
39	Microparticles: A Pivotal Nexus in Vascular Homeostasis and Disease. <i>Current Clinical Pharmacology</i> , <b>2016</b> , 11, 28-42	2.5	6
38	Potential Diagnostic and Prognostic Biomarkers of Epigenetic Drift within the Cardiovascular Compartment. <i>BioMed Research International</i> , <b>2016</b> , 2016, 2465763	3	11
37	RANKL promotes osteoblastic activity in vascular smooth muscle cells by upregulating endothelial BMP-2 release. <i>International Journal of Biochemistry and Cell Biology</i> , <b>2016</b> , 77, 171-180	5.6	23
36	Vascular calcification in type-2 diabetes and cardiovascular disease: Integrative roles for OPG, RANKL and TRAIL. <i>Vascular Pharmacology</i> , <b>2016</b> , 82, 30-40	5.9	82
35	The effects of insulin and liraglutide on osteoprotegerin and vascular calcification in vitro and in patients with type 2 diabetes. <i>European Journal of Endocrinology</i> , <b>2015</b> , 173, 53-61	6.5	14
34	Thrombomodulin regulation in human brain microvascular endothelial cells in vitro: role of cytokines and shear stress. <i>Microvascular Research</i> , <b>2015</b> , 97, 1-5	3.7	14
33	The blood-brain barrier endothelium: a target for pro-inflammatory cytokines. <i>Biochemical Society Transactions</i> , <b>2015</b> , 43, 702-6	5.1	115
32	Cytokine-mediated dysregulation of zonula occludens-1 properties in human brain microvascular endothelium. <i>Microvascular Research</i> , <b>2015</b> , 100, 48-53	3.7	60
31	Shear-dependent attenuation of cellular ROS levels can suppress proinflammatory cytokine injury to human brain microvascular endothelial barrier properties. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2015</b> , 35, 1648-56	7.3	19
30	Downregulation of blood-brain barrier phenotype by proinflammatory cytokines involves NADPH oxidase-dependent ROS generation: consequences for interendothelial adherens and tight junctions. <i>PLoS ONE</i> , <b>2014</b> , 9, e101815	3.7	150
29	Regulation of thrombomodulin expression and release in human aortic endothelial cells by cyclic strain. <i>PLoS ONE</i> , <b>2014</b> , 9, e108254	3.7	14
28	Thrombomodulin and the vascular endothelium: insights into functional, regulatory, and therapeutic aspects. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2013</b> , 304, H1585-97	5.7	121
27	Shear stress is a positive regulator of thimet oligopeptidase (EC3.4.24.15) in vascular endothelial cells: consequences for MHC1 levels. <i>Cardiovascular Research</i> , <b>2013</b> , 99, 545-54	9.9	11
26	Occludin: one protein, many forms. <i>Molecular and Cellular Biology</i> , <b>2012</b> , 32, 242-50	4.8	244
25	Hydrophobic interaction chromatography. <i>Methods in Molecular Biology</i> , <b>2011</b> , 681, 431-7	1.4	12
24	Ion-exchange chromatography: basic principles and application to the partial purification of soluble mammalian prolyl oligopeptidase. <i>Methods in Molecular Biology</i> , <b>2011</b> , 681, 215-28	1.4	8

23	Stabilization of brain microvascular endothelial barrier function by shear stress involves VE-cadherin signaling leading to modulation of pTyr-occludin levels. <i>Journal of Cellular Physiology</i> , <b>2011</b> , 226, 3053-63	7	76
22	A new addition to the renin-angiotensin peptide family: proAngiotensin-12 (PA12). <i>Cardiovascular Research</i> , <b>2009</b> , 82, 7-8	9.9	5
21	The endothelial microparticle response to a high fat meal is not attenuated by prior exercise. <i>European Journal of Applied Physiology</i> , <b>2009</b> , 106, 555-62	3.4	31
20	Down-regulation of neprilysin (EC3.4.24.11) expression in vascular endothelial cells by laminar shear stress involves NADPH oxidase-dependent ROS production. <i>International Journal of Biochemistry and Cell Biology</i> , <b>2009</b> , 41, 2287-94	5.6	13
19	Influence of basolateral condition on the regulation of brain microvascular endothelial tight junction properties and barrier function. <i>Brain Research</i> , <b>2008</b> , 1193, 84-92	3.7	65
18	Helicobacter pylori-induced inhibition of vascular endothelial cell functions: a role for VacA-dependent nitric oxide reduction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2008</b> , 295, H1403-13	5.2	18
17	Regulation of bovine brain microvascular endothelial tight junction assembly and barrier function by laminar shear stress. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2007</b> , 292, H3190-7	5.3	83
16	Cyclic strain-mediated matrix metalloproteinase regulation within the vascular endothelium: a force to be reckoned with. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2007</b> , 292, H28-42	5.2	64
15	Cyclic strain-mediated regulation of vascular endothelial occludin and ZO-1: influence on intercellular tight junction assembly and function. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2006</b> , 26, 62-8	9.4	75
14	Cyclic strain-mediated regulation of vascular endothelial cell migration and tube formation. <i>Biochemical and Biophysical Research Communications</i> , <b>2005</b> , 329, 573-82	3.4	76
13	Cyclic strain inhibits Notch receptor signaling in vascular smooth muscle cells in vitro. <i>Circulation Research</i> , <b>2005</b> , 96, 567-75	15.7	118
12	Notch 1 and 3 receptor signaling modulates vascular smooth muscle cell growth, apoptosis, and migration via a CBF-1/RBP-Jk dependent pathway. <i>FASEB Journal</i> , <b>2004</b> , 18, 1421-3	0.9	111
11	Regulation of endopeptidases EC3.4.24.15 and EC3.4.24.16 in vascular endothelial cells by cyclic strain: role of Gi protein signaling. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2004</b> , 24, 457-63	9.4	10
10	Modulation of nitric oxide and 6-keto-prostaglandin F(1alpha) production in bovine aortic endothelial cells by conjugated linoleic acid. <i>Endothelium: Journal of Endothelial Cell Research</i> , <b>2004</b> , 11, 211-20		19
9	Pulse pressure-induced transmural fluid flux increases bovine aortic smooth muscle cell apoptosis in a mitogen activated protein kinase dependent manner. <i>Journal of Vascular Research</i> , <b>2004</b> , 41, 364-74	1.9	13
8	Cyclic strain-mediated regulation of endothelial matrix metalloproteinase-2 expression and activity. <i>Cardiovascular Research</i> , <b>2004</b> , 63, 625-34	9.9	55
7	Cyclic strain-induced endothelial MMP-2: role in vascular smooth muscle cell migration. <i>Biochemical and Biophysical Research Communications</i> , <b>2004</b> , 320, 325-33	3.4	19
6	Hemodynamic regulation of metalloproteinases within the vasculature. <i>Protein and Peptide Letters</i> , <b>2004</b> , 11, 433-42	1.9	5

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| 5 | The neuropeptide processing enzyme EC 3.4.24.15 is modulated by protein kinase A phosphorylation. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 36514-22  | 5.4 | 40 |
| 4 | Zinc coordination and substrate catalysis within the neuropeptide processing enzyme endopeptidase EC 3.4.24.15. Identification of active site histidine and glutamate residues. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 16003-9 | 5.4 | 34 |
| 3 | The association of metalloendopeptidase EC 3.4.24.15 at the extracellular surface of the AtT-20 cell plasma membrane. <i>Brain Research</i> , <b>1999</b> , 835, 113-24   | 3.7 | 58 |
| 2 | Bovine brain pyroglutamyl aminopeptidase (type-1): purification and characterisation of a neuropeptide-inactivating peptidase. <i>International Journal of Biochemistry and Cell Biology</i> , <b>1996</b> , 28, 883-93                             | 5.6 | 27 |
| 1 | Identification of a dipeptidyl aminopeptidase type-II in the cytosolic fraction of bovine brain. <i>Biochemical Society Transactions</i> , <b>1992</b> , 20, 56S  | 5.1 | 3  |