

# Paul Aidan Cahill

## List of Publications by Citations

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135  
papers

4,792  
citations

41  
h-index

61  
g-index

159  
ext. papers

5,237  
ext. citations

6  
avg. IF

5.44  
L-index

| #   | Paper  | IF   | Citations |
|-----|--|------|-----------|
| 135 | Vascular endothelium - Gatekeeper of vessel health. <i>Atherosclerosis</i> , <b>2016</b> , 248, 97-109   | 3.1  | 262       |
| 134 | Increased MAPK expression and activity in primary human hepatocellular carcinoma. <i>Biochemical and Biophysical Research Communications</i> , <b>1997</b> , 236, 54-8   | 3.4  | 180       |
| 133 | Physically crosslinked composite hydrogels of PVA with natural macromolecules: structure, mechanical properties, and endothelial cell compatibility. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2009</b> , 90, 492-502 | 3.5  | 128       |
| 132 | Thermal behavior and mechanical properties of physically crosslinked PVA/Gelatin hydrogels. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2010</b> , 3, 203-9   | 4.1  | 119       |
| 131 | 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       |
| 130 | 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       |
| 129 | Increased endothelial nitric oxide synthase activity in the hyperemic vessels of portal hypertensive rats. <i>Journal of Hepatology</i> , <b>1996</b> , 25, 370-8  | 13.4 | 108       |
| 128 | Notch and vascular smooth muscle cell phenotype. <i>Circulation Research</i> , <b>2008</b> , 103, 1370-82  | 15.7 | 106       |
| 127 | Notch-mediated CBF-1/RBP-J{kappa}-dependent regulation of human vascular smooth muscle cell phenotype in vitro. <i>American Journal of Physiology - Cell Physiology</i> , <b>2005</b> , 289, C1188-96  | 5.4  | 90        |
| 126 | Endothelial dysfunction in cirrhosis and portal hypertension <b>2001</b> , 89, 273-93  |      | 89        |
| 125 | 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                               | 5.2  | 83        |
| 124 | Endothelial cells inhibit flow-induced smooth muscle cell migration: role of plasminogen activator inhibitor-1. <i>Circulation</i> , <b>2001</b> , 103, 597-603  | 16.7 | 81        |
| 123 | Clearance receptor-binding atrial natriuretic peptides inhibit mitogenesis and proliferation of rat aortic smooth muscle cells. <i>Biochemical and Biophysical Research Communications</i> , <b>1991</b> , 179, 1606-13  | 3.4  | 80        |
| 122 | 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        |
| 121 | Enhanced nitric oxide synthase activity in portal hypertensive rabbits. <i>Hepatology</i> , <b>1995</b> , 22, 598-606  | 11.2 | 76        |
| 120 | Altered expression of mitogen-activated protein kinases in a rat model of experimental hepatocellular carcinoma. <i>Hepatology</i> , <b>1997</b> , 26, 1484-91   | 11.2 | 75        |
| 119 | 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        |

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|-----|--|------|----|
| 118 | Nox, Reactive Oxygen Species and Regulation of Vascular Cell Fate. <i>Antioxidants</i> , <b>2017</b> , 6,  | 7.1  | 66 |
| 117 | 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 |
| 116 | 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 |
| 115 | Nitric oxide regulates angiotensin II receptors in vascular smooth muscle cells. <i>European Journal of Pharmacology</i> , <b>1995</b> , 288, 219-29   |      | 61 |
| 114 | Regulation of endothelin receptors by nitric oxide in cultured rat vascular smooth muscle cells. <i>Journal of Cellular Physiology</i> , <b>1996</b> , 166, 469-79   | 7    | 59 |
| 113 | Sustained pulsatile flow regulates endothelial nitric oxide synthase and cyclooxygenase expression in co-cultured vascular endothelial and smooth muscle cells. <i>Journal of Molecular and Cellular Cardiology</i> , <b>1999</b> , 31, 619-29                     | 5.8  | 56 |
| 112 | Perfused transcapillary smooth muscle and endothelial cell co-culture--a novel in vitro model. <i>In Vitro Cellular and Developmental Biology - Animal</i> , <b>1995</b> , 31, 601-9   | 2.6  | 56 |
| 111 | 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 |
| 110 | Characterization of Poly(vinyl alcohol)/Chitosan Hydrogels as Vascular Tissue Engineering Scaffolds. <i>Macromolecular Symposia</i> , <b>2008</b> , 269, 106-110   | 0.8  | 53 |
| 109 | Insulin-like growth factor I is a comitogen for hepatocyte growth factor in a rat model of hepatocellular carcinoma. <i>Hepatology</i> , <b>2002</b> , 36, 1089-97   | 11.2 | 53 |
| 108 | The role of nitric oxide synthase isoforms in extrahepatic portal hypertension: studies in gene-knockout mice. <i>Gastroenterology</i> , <b>2003</b> , 124, 1500-8   | 13.3 | 53 |
| 107 | Sonic Hedgehog induces Notch target gene expression in vascular smooth muscle cells via VEGF-A. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2009</b> , 29, 1112-8   | 9.4  | 52 |
| 106 | Cyclic strain regulates the Notch/CBF-1 signaling pathway in endothelial cells: role in angiogenic activity. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2007</b> , 27, 1289-96   | 9.4  | 52 |
| 105 | GADD45a-GFP GreenScreen HC assay results for the ECVAM recommended lists of genotoxic and non-genotoxic chemicals for assessment of new genotoxicity tests. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , <b>2010</b> , 695, 87-95 | 3    | 50 |
| 104 | Cell encapsulation within PVA-based hydrogels via freeze-thawing: a one-step scaffold formation and cell storage technique. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2009</b> , 3, 567-72   | 4.4  | 49 |
| 103 | Enhanced cyclooxygenase-1 expression within the superior mesenteric artery of portal hypertensive rats: role in the hyperdynamic circulation. <i>Hepatology</i> , <b>1998</b> , 27, 20-7   | 11.2 | 49 |
| 102 | High glucose concentrations alter hypoxia-induced control of vascular smooth muscle cell growth via a HIF-1 $\alpha$ -dependent pathway. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2007</b> , 42, 609-19  | 5.8  | 48 |
| 101 | Pulsatile flow-induced angiogenesis: role of G(i) subunits. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2002</b> , 22, 1610-6   | 9.4  | 47 |

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|-----|---|------|----|
| 100 | Chronic exposure to laminar shear stress induces Kruppel-like factor 2 in glomerular endothelial cells and modulates interactions with co-cultured podocytes. <i>International Journal of Biochemistry and Cell Biology</i> , <b>2012</b> , 44, 1482-90 | 5.6  | 44 |
| 99  | Interleukin-6 mediates G(0)/G(1) growth arrest in hepatocellular carcinoma through a STAT 3-dependent pathway. <i>Journal of Surgical Research</i> , <b>2008</b> , 147, 23-33   | 2.5  | 44 |
| 98  | Ethanol stimulates endothelial cell angiogenic activity via a Notch- and angiopoietin-1-dependent pathway. <i>Cardiovascular Research</i> , <b>2008</b> , 79, 313-21  | 9.9  | 43 |
| 97  | Water resistance of photocrosslinked polyvinyl alcohol based fibers. <i>Materials Letters</i> , <b>2009</b> , 63, 419-421   | 3.3  | 42 |
| 96  | Glycogen synthase kinase 3 beta positively regulates Notch signaling in vascular smooth muscle cells: role in cell proliferation and survival. <i>Basic Research in Cardiology</i> , <b>2011</b> , 106, 773-85  | 11.8 | 41 |
| 95  | Increased expression of endothelin receptors in the vasculature of portal hypertensive rats: role in splanchnic hemodynamics. <i>Hepatology</i> , <b>1998</b> , 28, 396-403   | 11.2 | 41 |
| 94  | Pulsatile flow increases the expression of eNOS, ET-1, and prostacyclin in a novel in vitro coculture model of the retinal vasculature. <i>Investigative Ophthalmology and Visual Science</i> , <b>2005</b> , 46, 375-82                                |      | 41 |
| 93  | Reactive Oxygen Species (ROS), Intimal Thickening, and Subclinical Atherosclerotic Disease. <i>Frontiers in Cardiovascular Medicine</i> , <b>2019</b> , 6, 89   | 5.4  | 40 |
| 92  | Assessment of the genotoxicity of S9-generated metabolites using the GreenScreen HC GADD45a-GFP assay. <i>Mutagenesis</i> , <b>2009</b> , 24, 35-50   | 2.8  | 39 |
| 91  | Biomechanical regulation of hedgehog signaling in vascular smooth muscle cells in vitro and in vivo. <i>American Journal of Physiology - Cell Physiology</i> , <b>2007</b> , 292, C488-96   | 5.4  | 39 |
| 90  | Effect of Pulse Pressure on Vascular Smooth Muscle Cell Migration: The Role of Urokinase and Matrix Metalloproteinase. <i>Thrombosis and Haemostasis</i> , <b>1999</b> , 81, 293-300  | 7    | 39 |
| 89  | An analysis of the strain field in biaxial Flexcell membranes for different waveforms and frequencies. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , <b>2008</b> , 222, 1235-45           | 1.7  | 37 |
| 88  | Resveratrol inhibits expression and binding activity of the monocyte chemotactic protein-1 receptor, CCR2, on THP-1 monocytes. <i>Atherosclerosis</i> , <b>2007</b> , 195, e125-33  | 3.1  | 37 |
| 87  | Differential antimitogenic effectiveness of atrial natriuretic peptides in primary versus subcultured rat aortic smooth muscle cells: relationship to expression of ANF-C receptors. <i>Journal of Cellular Physiology</i> , <b>1993</b> , 154, 28-38   | 7    | 36 |
| 86  | Phenotype dictates the growth response of vascular smooth muscle cells to pulse pressure in vitro. <i>Experimental Cell Research</i> , <b>1999</b> , 250, 174-86  | 4.2  | 35 |
| 85  | Ethanol inhibits mitogen activated protein kinase activity and growth of vascular smooth muscle cells in vitro. <i>European Journal of Pharmacology</i> , <b>1998</b> , 362, 251-9  | 5.3  | 34 |
| 84  | Vascular cell viability on polyvinyl alcohol hydrogels modified with water-soluble and -insoluble chitosan. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2008</b> , 84, 531-40                                    | 3.5  | 34 |
| 83  | Flow-mediated regulation of G-protein expression in cocultured vascular smooth muscle and endothelial cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>1998</b> , 18, 75-83  | 9.4  | 34 |

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|----|--|------|----|
| 82 | Placental mesenchymal stromal cells as an alternative tool for therapeutic angiogenesis. <i>Cellular and Molecular Life Sciences</i> , <b>2020</b> , 77, 253-265   | 10.3 | 34 |
| 81 | Alcohol and cardiovascular disease--modulation of vascular cell function. <i>Nutrients</i> , <b>2012</b> , 4, 297-318  | 6.7  | 33 |
| 80 | Flow-mediated regulation of endothelin receptors in cocultured vascular smooth muscle cells: an endothelium-dependent effect. <i>Journal of Vascular Research</i> , <b>1997</b> , 34, 425-35   | 1.9  | 31 |
| 79 | Resveratrol, a polyphenolic phytoestrogen, inhibits endothelial monocyte chemoattractant protein-1 synthesis and secretion. <i>Journal of Vascular Research</i> , <b>2007</b> , 44, 75-84  | 1.9  | 30 |
| 78 | Microvascular retinal endothelial and pericyte cell apoptosis in vitro: role of hedgehog and Notch signaling <b>2011</b> , 52, 4472-83   |      | 29 |
| 77 | The role of cAMP-MAPK signalling in the regulation of human hepatocellular carcinoma growth in vitro. <i>European Journal of Gastroenterology and Hepatology</i> , <b>1999</b> , 11, 1393-9  | 2.2  | 29 |
| 76 | Investigation of a small-diameter decellularised artery as a potential scaffold for vascular tissue engineering; biomechanical evaluation and preliminary cell seeding. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2012</b> , 14, 130-42 | 4.1  | 27 |
| 75 | Nonanticoagulant heparin prevents coronary endothelial dysfunction after brief ischemia-reperfusion injury in the dog. <i>Circulation</i> , <b>1999</b> , 99, 1062-8   | 16.7 | 27 |
| 74 | Endogenous nitric oxide promotes ileal absorption. <i>Journal of Surgical Research</i> , <b>1995</b> , 58, 687-92  | 2.5  | 27 |
| 73 | Alcohol inhibits smooth muscle cell proliferation via regulation of the Notch signaling pathway. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2010</b> , 30, 2597-603  | 9.4  | 26 |
| 72 | Acute laminar shear stress reversibly increases human glomerular endothelial cell permeability via activation of endothelial nitric oxide synthase. <i>American Journal of Physiology - Renal Physiology</i> , <b>2011</b> , 301, F733-42                            | 4.3  | 26 |
| 71 | Altered adenylyl cyclase activities and G-protein abnormalities in portal hypertensive rabbits. <i>Journal of Clinical Investigation</i> , <b>1994</b> , 93, 2691-700  | 15.9 | 26 |
| 70 | Differential expression of Hedgehog/Notch and transforming growth factor- $\beta$ in human abdominal aortic aneurysms. <i>Journal of Vascular Surgery</i> , <b>2015</b> , 62, 464-70   | 3.5  | 25 |
| 69 | Enhanced Gi-protein-mediated mitogenesis following chronic ethanol exposure in a rat model of experimental hepatocellular carcinoma. <i>Hepatology</i> , <b>1999</b> , 29, 412-20  | 11.2 | 25 |
| 68 | Mechanical and morphological characteristics of poly(vinyl alcohol)/chitosan hydrogels. <i>Journal of Applied Polymer Science</i> , <b>2008</b> , 109, 1129-1137   | 2.9  | 24 |
| 67 | Cell encapsulation and cryostorage in PVA-gelatin cryogels: incorporation of carboxylated E-poly-L-lysine as cryoprotectant. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2012</b> , 6, 280-90  | 4.4  | 23 |
| 66 | Novel roles of neuropeptide processing enzymes: EC3.4.24.15 in the neurome. <i>Journal of Neuroscience Research</i> , <b>2003</b> , 74, 456-67   | 4.4  | 23 |
| 65 | Non-anticoagulant heparin increases endothelial nitric oxide synthase activity: role of inhibitory guanine nucleotide proteins. <i>Journal of Molecular and Cellular Cardiology</i> , <b>1998</b> , 30, 2669-82  | 5.8  | 23 |

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|----|---|------|----|
| 64 | Heparin and nonanticoagulant heparin preserve regional myocardial contractility after ischemia-reperfusion injury: role of nitric oxide. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>1998</b> , 115, 440-8; discussion 448-9 | 1.5  | 22 |
| 63 | Alterations in guanine nucleotide regulatory protein expression and activity in human hepatocellular carcinoma. <i>Hepatology</i> , <b>1997</b> , 26, 1189-94   | 11.2 | 21 |
| 62 | Epstein-Barr virus nuclear antigen 2 trans-activates the cellular antiapoptotic bfl-1 gene by a CBF1/RBPJ kappa-dependent pathway. <i>Journal of Virology</i> , <b>2006</b> , 80, 8133-44   | 6.6  | 21 |
| 61 | Microencapsulation of engineered cells to deliver sustained high circulating levels of interleukin-6 to study hepatocellular carcinoma progression. <i>Cell Transplantation</i> , <b>2006</b> , 15, 785-98                                  | 4    | 21 |
| 60 | PVA hydrogels loaded with a Brazilian propolis for burn wound healing applications. <i>Journal of Applied Polymer Science</i> , <b>2015</b> , 132, n/a-n/a  | 2.9  | 20 |
| 59 | A method to develop mock arteries suitable for cell seeding and in-vitro cell culture experiments. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2010</b> , 3, 470-7   | 4.1  | 20 |
| 58 | Elevated glucose attenuates agonist- and flow-stimulated endothelial nitric oxide synthase activity in microvascular retinal endothelial cells. <i>Endothelium: Journal of Endothelial Cell Research</i> , <b>2007</b> , 14, 17-24          |      | 20 |
| 57 | Eicosanoids in cirrhosis and portal hypertension. <i>Prostaglandins and Other Lipid Mediators</i> , <b>2003</b> , 72, 3-18;7  |      | 20 |
| 56 | Interleukin-6 inhibits cell proliferation in a rat model of hepatocellular carcinoma. <i>Liver International</i> , <b>2005</b> , 25, 445-57   | 7.9  | 20 |
| 55 | Perivascular delivery of Notch 1 siRNA inhibits injury-induced arterial remodeling. <i>PLoS ONE</i> , <b>2014</b> , 9, e84122   | 3.7  | 20 |
| 54 | Repression of the proapoptotic cellular BIK/NBK gene by Epstein-Barr virus antagonizes transforming growth factor $\beta$ -induced B-cell apoptosis. <i>Journal of Virology</i> , <b>2014</b> , 88, 5001-13                                 | 6.6  | 19 |
| 53 | Embryonic rat vascular smooth muscle cells revisited - a model for neonatal, neointimal SMC or differentiated vascular stem cells?. <i>Vascular Cell</i> , <b>2014</b> , 6, 6   | 1    | 19 |
| 52 | Modulation of nitric oxide and 6-keto-prostaglandin F(1 $\alpha$ ) 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 |
| 51 | 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 |
| 50 | Ethanol inhibits basal and flow-induced vascular smooth muscle cell migration in vitro. <i>Journal of Surgical Research</i> , <b>1999</b> , 84, 64-70   | 2.5  | 19 |
| 49 | Heparin preserves nitric oxide activity in coronary endothelium during ischemia-reperfusion injury. <i>Annals of Thoracic Surgery</i> , <b>1998</b> , 66, 1210-5  | 2.7  | 18 |
| 48 | 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 |
| 47 | Atrial natriuretic factor recognizes two receptor subtypes in endothelial cells cultured from bovine pulmonary artery. <i>FEBS Letters</i> , <b>1990</b> , 269, 157-62  | 3.8  | 18 |



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| 46 | Inhibitory guanine nucleotide regulatory protein activation of mitogen-activated protein kinase in experimental hepatocellular carcinoma in vitro. <i>European Journal of Gastroenterology and Hepatology</i> , <b>1999</b> , 11, 761-8                      | 2.2  | 17 |
| 45 | Novel injectable gallium-based self-setting glass-alginate hydrogel composite for cardiovascular tissue engineering. <i>Carbohydrate Polymers</i> , <b>2019</b> , 217, 152-159   | 10.3 | 16 |
| 44 | Hedgehog and Resident Vascular Stem Cell Fate. <i>Stem Cells International</i> , <b>2015</b> , 2015, 468428  | 5    | 16 |
| 43 | Inhibition of patched-1 prevents injury-induced neointimal hyperplasia. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2013</b> , 33, 1960-4   | 9.4  | 16 |
| 42 | Endothelialization of PVA/gelatin cryogels for vascular tissue engineering: effect of disturbed shear stress conditions. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2010</b> , 94, 1080-90  | 5.4  | 16 |
| 41 | Altered expression of inhibitory guanine nucleotide regulatory proteins (Gi-proteins) in experimental hepatocellular carcinoma. <i>Journal of Cellular Physiology</i> , <b>1998</b> , 175, 295-304   | 7    | 16 |
| 40 | Ethanol inhibits monocyte chemotactic protein-1 expression in interleukin-1{beta}-activated human endothelial cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2005</b> , 289, H1669-75                                  | 5.2  | 16 |
| 39 | Cyclic strain amplitude dictates the growth response of vascular smooth muscle cells in vitro: role in in-stent restenosis and inhibition with a sirolimus drug-eluting stent. <i>Biomechanics and Modeling in Mechanobiology</i> , <b>2013</b> , 12, 671-83 | 3.8  | 15 |
| 38 | Why Is COVID-19 More Severe in Patients With Diabetes? The Role of Angiotensin-Converting Enzyme 2, Endothelial Dysfunction and the Immunoinflammatory System. <i>Frontiers in Cardiovascular Medicine</i> , <b>2020</b> , 7, 629933                         | 5.4  | 15 |
| 37 | Towards functional 3D-stacked electrospun composite scaffolds of PHBV, silk fibroin and nanohydroxyapatite: Mechanical properties and surface osteogenic differentiation. <i>Journal of Biomaterials Applications</i> , <b>2016</b> , 30, 1334-49            | 2.9  | 14 |
| 36 | Adult vascular smooth muscle cells in culture express neural stem cell markers typical of resident multipotent vascular stem cells. <i>Cell and Tissue Research</i> , <b>2014</b> , 358, 203-16  | 4.2  | 14 |
| 35 | Flk-1/KDR mediates ethanol-stimulated endothelial cell Notch signaling and angiogenic activity. <i>Journal of Vascular Research</i> , <b>2014</b> , 51, 315-24   | 1.9  | 14 |
| 34 | Glucose attenuates hypoxia-induced changes in endothelial cell growth by inhibiting HIF-1 $\beta$ expression. <i>Diabetes and Vascular Disease Research</i> , <b>2014</b> , 11, 270-280  | 3.3  | 13 |
| 33 | The role of pulsatile flow in controlling microvascular retinal endothelial and pericyte cell apoptosis and proliferation. <i>Cardiovascular Research</i> , <b>2011</b> , 89, 661-70   | 9.9  | 13 |
| 32 | 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 |
| 31 | Plasminogen activator inhibitor-1 deficiency enhances flow-induced smooth muscle cell migration. <i>Thrombosis Research</i> , <b>2004</b> , 114, 57-65   | 8.2  | 13 |
| 30 | Unusual degree of selectivity in diamantane derivatizations. <i>Tetrahedron Letters</i> , <b>1990</b> , 31, 5417-5420  | 2    | 12 |
| 29 | Enhanced G-protein-induced relaxation in portal hypertensive rats: role of nitric oxide. <i>Hepatology</i> , <b>1997</b> , 26, 27-33   | 11.2 | 11 |

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|----|---|------|----|
| 28 | Ethanol inhibits pulse pressure-induced vascular smooth muscle cell migration by differentially modulating plasminogen activator inhibitor type 1, matrix metalloproteinase-2 and -9. <i>Thrombosis and Haemostasis</i> , <b>2005</b> , 94, 639-45                                  | 7    | 11 |
| 27 | Altered Gq/G11 guanine nucleotide regulatory protein expression in a rat model of hepatocellular carcinoma: role in mitogenesis. <i>Hepatology</i> , <b>1999</b> , 29, 371-8  | 11.2 | 11 |
| 26 | Compliance properties of a composite electrospun fibre hydrogel blood vessel scaffold. <i>Materials Letters</i> , <b>2016</b> , 178, 296-299  | 3.3  | 11 |
| 25 | Investigational Notch and Hedgehog inhibitors--therapies for cardiovascular disease. <i>Expert Opinion on Investigational Drugs</i> , <b>2011</b> , 20, 1649-64   | 5.9  | 10 |
| 24 | 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 |
| 23 | Loss of angiotensin-II receptors in portal hypertensive rabbits. <i>Hepatology</i> , <b>1995</b> , 22, 559-564  | 11.2 | 10 |
| 22 | Nitric oxide synthase activity in portal hypertension. <i>Hepatology</i> , <b>1993</b> , 18, A141   | 11.2 | 9  |
| 21 | Alcohol Reduces Arterial Remodeling by Inhibiting Sonic Hedgehog-Stimulated Stem Cell Antigen-1 Positive Progenitor Stem Cell Expansion. <i>Alcoholism: Clinical and Experimental Research</i> , <b>2017</b> , 41, 2051-2065  | 3.7  | 8  |
| 20 | Ethanol inhibits secretase proteolytic activity in vascular smooth muscle cells. <i>Alcoholism: Clinical and Experimental Research</i> , <b>2015</b> , 39, 2115-22  | 3.7  | 7  |
| 19 | Decreased angiotensin II receptors mediate decreased vascular response in hepatocellular cancer. <i>Annals of Surgery</i> , <b>1996</b> , 223, 225-31   | 7.8  | 7  |
| 18 | Label-free discrimination analysis of de-differentiated vascular smooth muscle cells, mesenchymal stem cells and their vascular and osteogenic progeny using vibrational spectroscopy. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2018</b> , 1865, 343-353 | 4.9  | 7  |
| 17 | The BlueScreen HCS assay as a decision making test in the genotoxicity assessment of flavour and fragrance materials. <i>Toxicology in Vitro</i> , <b>2015</b> , 29, 1425-35  | 3.6  | 6  |
| 16 | Hemodynamic regulation of metalloproteinases within the vasculature. <i>Protein and Peptide Letters</i> , <b>2004</b> , 11, 433-42  | 1.9  | 5  |
| 15 | Vasoconstrictor responsiveness of portal hypertensive vessels. <i>Clinical Science</i> , <b>1999</b> , 96, 3-4  | 6.5  | 4  |
| 14 | Regulation of atrial natriuretic factor receptors in portal hypertensive rabbits. <i>Journal of Hepatology</i> , <b>1996</b> , 24, 185-93   | 13.4 | 4  |
| 13 | Differential effects of alcohol and its metabolite acetaldehyde on vascular smooth muscle cell Notch signaling and growth. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2018</b> , 314, H131-H137  | 5.2  | 3  |
| 12 | Nitric oxide and portal hypertension. <i>Journal of Hepatology</i> , <b>1995</b> , 23, 355-356  | 13.4 | 3  |
| 11 | Resident multipotent vascular stem cells exhibit amplitude dependent strain avoidance similar to that of vascular smooth muscle cells. <i>Biochemical and Biophysical Research Communications</i> , <b>2020</b> , 521, 762-768  | 3.4  | 3  |



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| 10 | Label-Free Multi Parameter Optical Interrogation of Endothelial Activation in Single Cells using a Lab on a Disc Platform. <i>Scientific Reports</i> , <b>2019</b> , 9, 4157   | 4.9  | 2 |
| 9  | Hemodynamic Control of Vascular Smooth Muscle Function <b>2012</b> , 1231-1242   |      | 2 |
| 8  | Vasoconstrictor responsiveness of portal hypertensive vessels. <i>Clinical Science</i> , <b>1999</b> , 96, 3   | 6.5  | 2 |
| 7  | Moderate dose alcohol protects against serum amyloid protein A1-induced endothelial dysfunction via both notch-dependent and notch-independent pathways. <i>Alcoholism: Clinical and Experimental Research</i> , <b>2021</b> , 45, 2217-2230                                 | 3.7  | 2 |
| 6  | Assembly of aligned polyvinyl alcohol-4-vinylpyridinium pendent group nanofibres for vascular tissue engineering applications. <i>Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems</i> , <b>2009</b> , 223, 99-111 |      | 1 |
| 5  | Moderate Alcohol Consumption Targets S100 $\beta$ Vascular Stem Cells and Attenuates Injury-Induced Neointimal Hyperplasia. <i>Alcoholism: Clinical and Experimental Research</i> , <b>2020</b> , 44, 1734-1746  | 3.7  | 1 |
| 4  | The calcium binding protein S100 $\beta$ marks hedgehog-responsive resident vascular stem cells within vascular lesions. <i>Npj Regenerative Medicine</i> , <b>2021</b> , 6, 10  | 15.8 | 0 |
| 3  | Biosynthesis of Gold Nanoparticles by Vascular Cells .. <i>Frontiers in Microbiology</i> , <b>2022</b> , 13, 813511  | 5.7  | 0 |
| 2  | Pathogenetic Mechanisms in A lagille Syndrome1-10  |      |   |
| 1  | Disease-Relevant Single Cell Photonic Signatures Identify S100 $\beta$ Stem Cells and their Myogenic Progeny in Vascular Lesions. <i>Stem Cell Reviews and Reports</i> , <b>2021</b> , 17, 1713-1740   | 7.3  |   |