Edward R O brien

List of Publications by Citations

106 papers	4,807 citations	34 h-index	68 g-index
116 ext. papers	5,247 ext. citations	6.4 avg, IF	4.95 L-index

#	Paper	IF	Citations
106	The intima. Soil for atherosclerosis and restenosis. *Circulation Research*, **1995**, 77, 445-65	15.7	638
105	A citywide protocol for primary PCI in ST-segment elevation myocardial infarction. *New England Journal of Medicine*, **2008**, 358, 231-40	59.2	323
104	Proliferation in primary and restenotic coronary atherectomy tissue. Implications for antiproliferative therapy. *Circulation Research*, **1993**, 73, 223-31	15.7	301
103	Detection of Chlamydia pneumoniae TWAR in human coronary atherectomy tissues. *Journal of Infectious Diseases*, **1995**, 172, 585-8	7	300
102	Point-of-care genetic testing for personalisation of antiplatelet treatment (RAPID GENE): a prospective, randomised, proof-of-concept trial. *Lancet, The*, **2012**, 379, 1705-11	40	285
101	Combined angioplasty and pharmacological intervention versus thrombolysis alone in acute myocardial infarction (CAPITAL AMI study). *Journal of the American College of Cardiology*, **2005**, 46, 417-24	15.1	175
100	In vitro susceptibility of human vascular wall cells to infection with Chlamydia pneumoniae. *Journal of Clinical Microbiology*, **1995**, 33, 2411-4	9.7	136
99	Gene dosage of the common variant 9p21 predicts severity of coronary artery disease. *Journal of the American College of Cardiology*, **2010**, 56, 479-86	15.1	121
98	17beta-estradiol downregulates tissue angiotensin-converting enzyme and ANG II type 1 receptor in female rats. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2005**, 288, R759-66	3.2	109
97	Extracellular release of the atheroprotective heat shock protein 27 is mediated by estrogen and competitively inhibits acLDL binding to scavenger receptor-A. *Circulation Research*, **2008**, 103, 133-41	15.7	102
96	The evolution of coronary stents: a brief review. *Canadian Journal of Cardiology*, **2014**, 30, 35-45	3.8	101
95	Neuroimmune guidance cue Semaphorin 3E is expressed in atherosclerotic plaques and regulates macrophage retention. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2013**, 33, 886-93	9.4	91
94	Natural history and management of aortocoronary saphenous vein graft aneurysms: a systematic review of published cases. *Circulation*, **2012**, 126, 2248-56	16.7	90
93	Extracellular HSP27 acts as a signaling molecule to activate NF-B in macrophages. *Cell Stress and Chaperones*, **2013**, 18, 53-63	4	88
92	Comparison of early mortality of paramedic-diagnosed ST-segment elevation myocardial infarction with immediate transport to a designated primary percutaneous coronary intervention center to that of similar patients transported to the nearest hospital. *American Journal of Cardiology*, **2006**, 98, 1329-33	3	84
91	Stenting versus thrombolysis in acute myocardial infarction trial (STAT). *Journal of the American College of Cardiology*, **2001**, 37, 985-91	15.1	83
90	Beta ig-h3, a transforming growth factor-beta-inducible gene, is overexpressed in atherosclerotic and restenotic human vascular lesions. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **1996**, 16, 576-84	9.4	79

89	Extracellular Release and Signaling by Heat Shock Protein 27: Role in Modifying Vascular Inflammation. *Frontiers in Immunology*, **2016**, 7, 285	8.4	73
88	Endoglin is overexpressed after arterial injury and is required for transforming growth factor-beta-induced inhibition of smooth muscle cell migration. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2000**, 20, 2546-52	9.4	70
87	Modulation of estrogen signaling by the novel interaction of heat shock protein 27, a biomarker for atherosclerosis, and estrogen receptor beta: mechanistic insight into the vascular effects of estrogens. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2005**, 25, e10-4	9.4	67
86	Usefulness of mean platelet volume as a biomarker for long-term outcomes after percutaneous coronary intervention. *American Journal of Cardiology*, **2011**, 107, 204-9	3	59
85	Heat shock protein 27 protects against atherogenesis via an estrogen-dependent mechanism: role of selective estrogen receptor beta modulation. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2009**, 29, 1751-6	9.4	59
84	Transradial versus transfemoral artery approach for coronary angiography and percutaneous coronary intervention in the extremely obese. *JACC: Cardiovascular Interventions*, **2012**, 5, 819-26	5	58
83	Reduction in mortality as a result of direct transport from the field to a receiving center for primary percutaneous coronary intervention. *Journal of the American College of Cardiology*, **2012**, 60, 1223-30	15.1	55
82	Comparison of processing and sectioning methodologies for arteries containing metallic stents. *Journal of Histochemistry and Cytochemistry*, **2006**, 54, 673-81	3.4	52
81	Serum heat shock protein 27 levels represent a potential therapeutic target for atherosclerosis: observations from a human cohort and treatment of female mice. *Journal of the American College of Cardiology*, **2013**, 62, 1446-54	15.1	48
80	Adventitial angiogenesis early after coronary angioplasty : correlation with arterial remodeling. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **1999**, 19, 229-38	9.4	43
79	Delayed re-endothelialization with rapamycin-coated stents is rescued by the addition of a glycogen synthase kinase-3beta inhibitor. *Cardiovascular Research*, **2010**, 86, 338-45	9.9	42
78	Primary percutaneous coronary angioplasty with and without eptifibatide in ST-segment elevation myocardial infarction: a safety and efficacy study of integrilin-facilitated versus primary percutaneous coronary intervention in ST-segment elevation myocardial infarction (ASSIST). *Circulation: Cardiovascular Interventions*, **2009**, 2, 330-8	6	40
77	Involvement of progenitor cells in vascular repair. *Trends in Cardiovascular Medicine*, **2003**, 13, 322-6	6.9	40
76	Time course and importance of neoadventitial formation in arterial remodeling following balloon angioplasty of porcine coronary arteries. *Cardiovascular Research*, **1999**, 41, 255-66	9.9	40
75	Inhibition of endothelial progenitor cell glycogen synthase kinase-3beta results in attenuated neointima formation and enhanced re-endothelialization after arterial injury. *Cardiovascular Research*, **2009**, 83, 16-23	9.9	39
74	c-kit-immunopositive vascular progenitor cells populate human coronary in-stent restenosis but not primary atherosclerotic lesions. *American Journal of Physiology - Heart and Circulatory Physiology*, **2004**, 287, H518-24	5.2	39
73	Update on the biology and clinical study of restenosis. *Trends in Cardiovascular Medicine*, **1994**, 4, 169-78	6.9	37
72	The interaction and cellular localization of HSP27 and ERbeta are modulated by 17beta-estradiol and HSP27 phosphorylation. *Molecular and Cellular Endocrinology*, **2007**, 270, 33-42	4.4	34

71	Human in-stent restenosis tissue obtained by means of coronary atherectomy consists of an abundant proteoglycan matrix with a paucity of cell proliferation. *American Heart Journal*, **2002**, 144, 702-709	4.9	34
70	Predictors of long-term outcome after stent implantation in a saphenous vein graft. *American Journal of Cardiology*, **1999**, 83, 681-6	3	33
69	Hospitalization costs of primary stenting versus thrombolysis in acute myocardial infarction: cost analysis of the Canadian STAT Study. *Circulation*, **2003**, 108, 2624-30	16.7	32
68	Chronic over-expression of heat shock protein 27 attenuates atherogenesis and enhances plaque remodeling: a combined histological and mechanical assessment of aortic lesions. *PLoS ONE*, **2013**, 8, e55867	3.7	31
67	The effect of statins on circulating endothelial progenitor cells in humans: a systematic review. *Journal of Cardiovascular Pharmacology*, **2013**, 62, 491-6	3.1	30
66	Discovery of NM23-H2 as an estrogen receptor beta-associated protein: role in estrogen-induced gene transcription and cell migration. *Journal of Steroid Biochemistry and Molecular Biology*, **2008**, 108, 72-81	5.1	30
65	Heat shock protein 27: clue to understanding estrogen-mediated atheroprotection?. *Trends in Cardiovascular Medicine*, **2010**, 20, 54-8	6.9	29
64	Bivalirudin for primary percutaneous coronary interventions: outcome assessment in the Ottawa STEMI registry. *Circulation: Cardiovascular Interventions*, **2012**, 5, 805-12	6	28
63	Pre-procedural atorvastatin mobilizes endothelial progenitor cells: clues to the salutary effects of statins on healing of stented human arteries. *PLoS ONE*, **2011**, 6, e16413	3.7	28
62	Characterization of heat shock protein 27 in extracellular vesicles: a potential anti-inflammatory therapy. *FASEB Journal*, **2019**, 33, 1617-1630	0.9	27
61	Heat shock protein 27-derived atheroprotection involves reverse cholesterol transport that is dependent on GM-CSF to maintain ABCA1 and ABCG1 expression in ApoE mice. *FASEB Journal*, **2017**, 31, 2364-2379	0.9	21
60	Ethyl isopropyl amiloride inhibits smooth muscle cell proliferation and migration by inducing apoptosis and antagonizing urokinase plasminogen activator activity. *Canadian Journal of Physiology and Pharmacology*, **2003**, 81, 730-9	2.4	20
59	Usefulness of intracoronary stenting in acute myocardial infarction. *American Journal of Cardiology*, **1996**, 78, 148-152	3	20
58	Heat shock protein-27 attenuates foam cell formation and atherogenesis by down-regulating scavenger receptor-A expression via NF-B signaling. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2013**, 1831, 1721-8	5	19
57	Arterial wall neovascularization--potential role in atherosclerosis and restenosis. *Japanese Circulation Journal*, **1997**, 61, 893-904		19
56	Heat shock protein 27 attenuates neointima formation and accelerates reendothelialization after arterial injury and stent implantation: importance of vascular endothelial growth factor up-regulation. *FASEB Journal*, **2014**, 28, 594-602	0.9	18
55	Arterial expression of the plasminogen activator system early after cardiac transplantation. *Cardiovascular Research*, **1997**, 35, 241-9	9.9	18
54	Attenuation of atherogenesis via the anti-inflammatory effects of the selective estrogen receptor beta modulator 8VE2. *Journal of Cardiovascular Pharmacology*, **2011**, 58, 399-405	3.1	17

53	Cardiovascular complications of Salmonella enteritidis infection. *Canadian Journal of Cardiology*, **2010**, 26, 323-5	3.8	17
52	Replication in restenotic atherectomy tissue. *Atherosclerosis*, **2000**, 152, 117-26	3.1	17
51	Circulating endothelial progenitor cell levels are not reduced in HIV-infected men. *Journal of Infectious Diseases*, **2012**, 205, 713-7	7	16
50	NM23-H2, an estrogen receptor beta-associated protein, shows diminished expression with progression of atherosclerosis. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2007**, 292, R743-50	3.2	15
49	Impact of Center Experience on Patient Radiation Exposure During Transradial Coronary Angiography and Percutaneous Intervention: A Patient-Level, International, Collaborative, Multi-Center Analysis. *Journal of the American Heart Association*, **2016**, 5,	6	15
48	Recombinant heat shock protein 27 (HSP27/HSPB1) protects against cadmium-induced oxidative stress and toxicity in human cervical cancer cells. *Cell Stress and Chaperones*, **2017**, 22, 357-369	4	14
47	Current understanding of in-stent restenosis and the potential benefit of drug eluting stents. *Current Drug Targets Cardiovascular & Haematological Disorders*, **2004**, 4, 103-17		14
46	Novel antiinflammatory vascular benefits of systemic and stent-based delivery of ethylisopropylamiloride. *Circulation*, **2004**, 110, 3721-6	16.7	14
45	Evaluation of myocardial perfusion using rubidium-82 positron emission tomography after myocardial infarction in patients receiving primary stent implantation or thrombolytic therapy. *American Journal of Cardiology*, **2001**, 88, 886-9, A6	3	12
44	Coronary artery disease in post-menopausal women: are there appropriate means of assessment?. *Clinical Science*, **2018**, 132, 1937-1952	6.5	12
43	Circulating endothelial progenitor cells in HIV infection: a systematic review. *Trends in Cardiovascular Medicine*, **2013**, 23, 192-200	6.9	11
42	Infective endocarditis presenting as ST-elevation myocardial infarction: an angiographic diagnosis. *Canadian Journal of Cardiology*, **2012**, 28, 515.e15-7	3.8	11
41	Glycogen synthase kinase-3 inhibition augments diabetic endothelial progenitor cell abundance and functionality via cathepsin B: a novel therapeutic opportunity for arterial repair. *Diabetes*, **2014**, 63, 1410-21	0.9	10
40	Percutaneous coronary intervention with or without on-site coronary artery bypass surgery: a systematic review and meta-analysis. *International Journal of Cardiology*, **2013**, 167, 197-204	3.2	10
39	Regulation of components of the brain and cardiac renin-angiotensin systems by 17beta-estradiol after myocardial infarction in female rats. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2006**, 291, R155-62	3.2	10
38	Contribution of recipient-derived cells in allograft neointima formation and the response to stent implantation. *PLoS ONE*, **2008**, 3, e1894	3.7	10
37	4-Phenylbutyrate protects against atherosclerotic lesion growth by increasing the expression of HSP25 in macrophages and in the circulation of mice. *FASEB Journal*, **2019**, 33, 8406-8422	0.9	9
36	Human in-stent restenosis tissue obtained by means of coronary atherectomy consists of an abundant proteoglycan matrix with a paucity of cell proliferation. *American Heart Journal*, **2002**, 144, 702-9	4.9	9

35	Unprotected left main coronary artery stenting with zotarolimus (Endeavor) drug-eluting stents: a single center retrospective experience. *Catheterization and Cardiovascular Interventions*, **2012**, 80, E15-22	2.7	8
34	Antagonism of the alpha4 integrin subunit attenuates the acute inflammatory response to stent implantation yet is insufficient to prevent late intimal formation. *Journal of Leukocyte Biology*, **2004**, 75, 1016-21	6.5	8
33	The effects of knockdown of rho-associated kinase 1 and zipper-interacting protein kinase on gene expression and function in cultured human arterial smooth muscle cells. *PLoS ONE*, **2015**, 10, e0116969	3.7	8
32	Role of Heat Shock Protein 27 in Modulating Atherosclerotic Inflammation. *Journal of Cardiovascular Translational Research*, **2021**, 14, 3-12	3.3	8
31	Role of mutation and pharmacologic block of human KCNH2 in vasculogenesis and fetal mortality: partial rescue by transforming growth factor-*Circulation: Arrhythmia and Electrophysiology*, **2015**, 8, 420-8	6.4	7
30	Heat shock protein-27 and sex-selective regulation of muscarinic and proteinase-activated receptor 2-mediated vasodilatation: differential sensitivity to endothelial NOS inhibition. *British Journal of Pharmacology*, **2018**, 175, 2063-2076	8.6	6
29	Coronary stent fracture. *Cmaj*, **2011**, 183, E756	3.5	6
28	Sex differences in COVID-19 mortality: opportunity to develop HSP27 (HSPB1) immunotherapy to treat hyper-inflammation?. *Cell Stress and Chaperones*, **2020**, 25, 725-729	4	6
27	Reduced expression of cardiac ryanodine receptor protects against stress-induced ventricular tachyarrhythmia, but increases the susceptibility to cardiac alternans. *Biochemical Journal*, **2018**, 475, 169-183	3.8	6
26	Granulocyte colony-stimulating factor therapy for stem cell mobilization following anterior wall myocardial infarction: the CAPITAL STEM MI randomized trial. *Cmaj*, **2014**, 186, E427-34	3.5	5
25	Establishing an approach for patients with recent coronary occlusion: identification of viable myocardium. *Journal of Nuclear Cardiology*, **1999**, 6, 298-305	2.1	5
24	Clinical outcomes among patients with extreme obesity undergoing elective coronary revascularization: Evaluation of major complications in contemporary practice. *International Journal of Cardiology*, **2015**, 186, 266-72	3.2	4
23	Giant saphenous vein graft aneurysm presenting as ST-elevation myocardial infarction. *Circulation Journal*, **2014**, 78, 769-71	2.9	4
22	A novel stretching platform for applications in cell and tissue mechanobiology. *Journal of Visualized Experiments*, **2014**,	1.6	4
21	The importance of thrombus organization and stellate cell phenotype in collagen I gene expression in human, coronary atherosclerotic and restenotic lesions. *Cardiovascular Research*, **1996**, 32, 496-502	9.9	4
20	Unlike estrogens that increase PCSK9 levels post-menopause HSP27 vaccination lowers cholesterol levels and atherogenesis due to divergent effects on PCSK9 and LDLR. *Pharmacological Research*, **2020**, 161, 105222	10.2	4
19	Heat shock protein 27 immune complex altered signaling and transport (ICAST): Novel mechanisms of attenuating inflammation. *FASEB Journal*, **2020**, 34, 14287-14301	0.9	4
18	RACER renal stents for large diameter left main coronary artery intervention. *International Journal of Cardiology*, **2012**, 156, e68-70	3.2	3

17	968-23 Evaluation of Proliferation in Human Atherectomy Specimens Using In Situ Hybridization for Histone H3. *Journal of the American College of Cardiology*, **1995**, 25, 240A	15.1	3
16	Heat Shock Protein 27 Immune Complex Upregulates LDLR Expression Thereby Reducing Plasma Cholesterol and Atherogenesis		3
15	HSP25 Vaccination Attenuates Atherogenesis via Upregulation of LDLR Expression, Lowering of PCSK9 Levels and Curbing of Inflammation. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2021**, 41, e338-e353	9.4	3
14	Biophysical analyses and functional implications of the interaction between Heat Shock Protein 27 and antibodies to HSP27. *Biochimica Et Biophysica Acta - General Subjects*, **2019**, 1863, 1536-1546	4	2
13	Prophylactic salpingo-oophorectomy & surgical menopause for inherited risks of cancer: the need to identify biomarkers to assess the theoretical risk of premature coronary artery disease. *Womenls Midlife Health*, **2018**, 4, 7	2.3	2
12	Late clinical and angiographic follow-up after stenting in evolving and recent myocardial infarction. *American Heart Journal*, **1998**, 135, 714-8	4.9	2
11	The importance of thrombus organization and stellate cell phenotype in collagen I gene expression in human, coronary atherosclerotic and restenotic lesions. *Cardiovascular Research*, **1996**, 32, 496-502	9.9	2
10	Heat Shock Protein 27 Immune Complex Altered Signaling and Transport (ICAST): Novel Mechanisms of Attenuating Inflammation		2
9	Coronary Stenting **2018**, 623-639		1
8	Platelet reactivity following high loading doses of clopidogrel in patients undergoing primary percutaneous coronary angioplasty: A pilot study. *Clinical Trials and Regulatory Science in Cardiology* , **2015**, 10, 7-12		1
7	Transbrachial insertion of an intra-aortic balloon pump for high-risk percutaneous coronary intervention. *Clinical Research in Cardiology*, **2012**, 101, 857-60	6.1	1
6	Letter by Hibbert et al regarding article, "Smooth muscle cells healing atherosclerotic plaque disruptions are of local, not blood, origin in apolipoprotein E knockout mice". *Circulation*, **2008**, 117, e317; author reply e318	16.7	1
5	Abundance of plaque microvessels is associated with constrictive remodeling in angioplastied human coronary arteries. *Japanese Circulation Journal*, **2001**, 65, 429-33		1
4	Response to letter regarding article, "Bivalirudin for primary percutaneous coronary interventions: outcome assessment in the Ottawa STEMI registry". *Circulation: Cardiovascular Interventions*, **2013**, 6, e27	6	
3	Reply to: Cardiovascular Disease Risk in HIV Infection and Endothelial Progenitor Cells. *Journal of Infectious Diseases*, **2012**, 206, 1480-1481	7	
2	Novel anti-inflammatory properties of the Na+/H+ exchange inhibitor ethylisopropylamiloride result in attenuation of atherogenesis in apolipoprotein E-deficient mice. *International Congress Series*, **2004**, 1262, 418-421		
1	Endothelial Progenitors and Repair of Cardiovascular Disease **2012**, 97-107		