

Brett D Hambly

List of Publications by Year in descending order

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124
papers

2,842
citations

186265

28
h-index

206112

48
g-index

128
all docs

128
docs citations

128
times ranked

4014
citing authors

#	ARTICLE	IF	CITATIONS
1	Elite endurance athletes and the ACE I allele - the role of genes in athletic performance. <i>Human Genetics</i> , 1998, 103, 48-50.	3.8	328
2	IL-18 Contributes to Renal Damage after Ischemia-Reperfusion. <i>Journal of the American Society of Nephrology: JASN</i> , 2008, 19, 2331-2341.	6.1	175
3	Quantitative N-linked Glycoproteomics of Myocardial Ischemia and Reperfusion Injury Reveals Early Remodeling in the Extracellular Environment. <i>Molecular and Cellular Proteomics</i> , 2011, 10, M110.006833.	3.8	101
4	Proteomics of ischemia/reperfusion injury in rabbit myocardium reveals alterations to proteins of essential functional systems. <i>Proteomics</i> , 2005, 5, 1395-1410.	2.2	91
5	Bibliometric Analysis on COVID-19: A Comparison of Research Between English and Chinese Studies. <i>Frontiers in Public Health</i> , 2020, 8, 477.	2.7	83
6	Metformin inhibits the development and metastasis of ovarian cancer. <i>Oncology Reports</i> , 2012, 28, 903-908.	2.6	69
7	Localization of the phalloidin and nucleotide-binding sites on actin. <i>FEBS Journal</i> , 1987, 162, 583-588.	0.2	66
8	Granulocyte-macrophage colony-stimulating factor enhances wound healing in diabetes via upregulation of proinflammatory cytokines. <i>British Journal of Dermatology</i> , 2010, 162, 478-486.	1.5	65
9	Impaired cutaneous wound healing in granulocyte/ macrophage colony-stimulating factor knockout mice. <i>British Journal of Dermatology</i> , 2007, 157, 458-465.	1.5	62
10	Apoptosis of vascular smooth muscle cells induced by cholesterol and its oxides in vitro and in vivo. <i>Atherosclerosis</i> , 2000, 148, 365-374.	0.8	54
11	Myosin binding protein C: Structural abnormalities in familial hypertrophic cardiomyopathy. <i>Cell Research</i> , 2004, 14, 95-110.	12.0	53
12	Myosin binding protein α : Enigmatic regulator of cardiac contraction. <i>International Journal of Biochemistry and Cell Biology</i> , 2007, 39, 2161-2166.	2.8	53
13	Vascular endothelial growth factor-A: A multifunctional molecular player in diabetic retinopathy. <i>International Journal of Biochemistry and Cell Biology</i> , 2009, 41, 2368-2371.	2.8	51
14	Should an angiotensin-converting enzyme inhibitor be given at the time of reperfusion therapy in acute myocardial infarction?. <i>American Heart Journal</i> , 2008, 156, e1.	2.7	50
15	FTO associations with obesity and telomere length. <i>Journal of Biomedical Science</i> , 2017, 24, 65.	7.0	49
16	Dihydroarteminisin inhibits the growth and metastasis of epithelial ovarian cancer. <i>Oncology Reports</i> , 2012, 27, 101-8.	2.6	48
17	Structural Basis for Phosphorylation and Lysine Acetylation Cross-talk in a Kinase Motif Associated with Myocardial Ischemia and Cardioprotection. <i>Journal of Biological Chemistry</i> , 2014, 289, 25890-25906.	3.4	48
18	Structural and functional domains on actin. <i>BioEssays</i> , 1986, 4, 124-128.	2.5	44

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19	Modifications of myosin-regulatory light chain correlate with function of stunned myocardium. <i>Journal of Molecular and Cellular Cardiology</i> , 2003, 35, 833-840.	1.9	42
20	ARHGAP18 Protects Against Thoracic Aortic Aneurysm Formation by Mitigating the Synthetic and Proinflammatory Smooth Muscle Cell Phenotype. <i>Circulation Research</i> , 2017, 121, 512-524.	4.5	40
21	Interaction of phalloidin with chemically modified actin. <i>FEBS Journal</i> , 1987, 165, 125-130.	0.2	37
22	Paramagnetic probes attached to a light chain on the myosin head are highly disordered in active muscle fibers. <i>Biophysical Journal</i> , 1992, 63, 1306-1313.	0.5	37
23	Ischemia-specific phosphorylation and myofilament translocation of heat shock protein 27 precedes alpha B-crystallin and occurs independently of reactive oxygen species in rabbit myocardium. <i>Journal of Molecular and Cellular Cardiology</i> , 2006, 40, 761-774.	1.9	37
24	The Role of Inflammation and Myeloperoxidase-Related Oxidative Stress in the Pathogenesis of Genetically Triggered Thoracic Aortic Aneurysms. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7678.	4.1	34
25	Triamcinolone Acetonide Inhibits p38MAPK Activation and Neuronal Apoptosis in Early Diabetic Retinopathy. <i>Current Molecular Medicine</i> , 2013, 13, 946-958.	1.3	33
26	Orientation of spin-labeled light chain-2 exchanged onto myosin cross-bridges in glycerinated muscle fibers. <i>Biophysical Journal</i> , 1991, 59, 127-138.	0.5	32
27	IL-37 and 38 signalling in gestational diabetes. <i>Journal of Reproductive Immunology</i> , 2017, 124, 8-14.	1.9	32
28	Proteomics of ischemia and reperfusion injuries in rabbit myocardium with and without intervention by an oxygen-free radical scavenger. <i>Proteomics</i> , 2006, 6, 6221-6233.	2.2	31
29	Diabetic retinopathy: reversibility of epigenetic modifications and new therapeutic targets. <i>Cell and Bioscience</i> , 2017, 7, 42.	4.8	30
30	Forkhead box protein 3: Essential immune regulatory role. <i>International Journal of Biochemistry and Cell Biology</i> , 2008, 40, 2369-2373.	2.8	29
31	Perturbations of mechanotransduction and aneurysm formation in heritable aortopathies. <i>International Journal of Cardiology</i> , 2013, 169, 7-16.	1.7	29
32	Separation of tumor necrosis factor α isoforms by two-dimensional polyacrylamide gel electrophoresis. <i>Electrophoresis</i> , 1997, 18, 1086-1091.	2.4	28
33	Increased Total Heart Rate Variability and Enhanced Cardiac Vagal Autonomic Activity in Healthy Humans with Sinus Bradycardia. <i>Baylor University Medical Center Proceedings</i> , 2010, 23, 368-370.	0.5	26
34	P2X (purinergic) receptor redistribution in rabbit aorta following injury to endothelial cells and cholesterol feeding. <i>Journal of Neurocytology</i> , 2000, 29, 623-631.	1.5	25
35	IL-36 in the colorectal cancer: is interleukin 36 good or bad for the development of colorectal cancer?. <i>BMC Cancer</i> , 2020, 20, 92.	2.6	25
36	Expression of growth arrest-specific gene 6 and its receptors in a rat model of chronic renal transplant rejection. <i>Transplantation</i> , 2002, 73, 657-660.	1.0	25

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37	Responses of skeletal muscle fibres to lanthanide ions. Dependence of the twitch response on ionic radii. <i>Experientia</i> , 1977, 33, 1042-1044.	1.2	24
38	Fluorescence energy transfer between nucleotide binding sites in an F-actin filament. <i>BBA - Proteins and Proteomics</i> , 1986, 871, 137-141.	2.1	24
39	Measuring macromolecular diffusion using heteronuclear multiple-quantum pulsed-field-gradient NMR. <i>Journal of Biomolecular NMR</i> , 1997, 10, 1-8.	2.8	23
40	Release of Tissue-specific Proteins into Coronary Perfusate as a Model for Biomarker Discovery in Myocardial Ischemia/Reperfusion Injury. <i>Journal of Proteome Research</i> , 2012, 11, 2114-2126.	3.7	23
41	Shortened leukocyte telomere length in type 2 diabetes mellitus: genetic polymorphisms in mitochondrial uncoupling proteins and telomeric pathways. <i>Clinical and Translational Medicine</i> , 2016, 5, 8.	4.0	23
42	Oxidative stress in genetically triggered thoracic aortic aneurysm: role in pathogenesis and therapeutic opportunities. <i>Redox Report</i> , 2021, 26, 45-52.	4.5	23
43	Cofilin and DNase I Affect the Conformation of the Small Domain of Actin. <i>Biophysical Journal</i> , 2002, 82, 3134-3143.	0.5	22
44	<i>Oceanimonas smirnovii</i> sp. nov., a novel organism isolated from the Black Sea. <i>Systematic and Applied Microbiology</i> , 2005, 28, 131-136.	2.8	22
45	<sc>TRPV</sc>2 in the Development of Experimental Colitis. <i>Scandinavian Journal of Immunology</i> , 2014, 80, 307-312.	2.7	21
46	The epidemiology of reverse transmission of COVID-19 in Gansu Province, China. <i>Travel Medicine and Infectious Disease</i> , 2020, 37, 101741.	3.0	21
47	Intradomain Distances in the Regulatory Domain of the Myosin Head in Prepower and Postpower Stroke States: A Fluorescence Energy Transfer. <i>Biochemistry</i> , 1999, 38, 13026-13034.	2.5	20
48	Effect of Treatment on Ventricular Function and Troponin I Proteolysis in Reperfused Myocardium. <i>Journal of Molecular and Cellular Cardiology</i> , 2002, 34, 401-411.	1.9	20
49	IL-34, IL-36 and IL-38 in colorectal cancer—key immunoregulators of carcinogenesis. <i>Biophysical Reviews</i> , 2020, 12, 925-930.	3.2	20
50	The Impact of COVID-19 on Primary Care General Practice Consultations in a Teaching Hospital in Shanghai, China. <i>Frontiers in Medicine</i> , 2021, 8, 642496.	2.6	20
51	rs9939609 FTO genotype associations with FTO methylation level influences body mass and telomere length in an Australian rural population. <i>International Journal of Obesity</i> , 2017, 41, 1427-1433.	3.4	19
52	Expression and localisation of stanniocalcin 1 in rat bladder, kidney and ovary. <i>Electrophoresis</i> , 1999, 20, 2071-2076.	2.4	18
53	Sirolimus reduces vasculopathy but exacerbates proteinuria in association with inhibition of VEGF and VEGFR in a rat kidney model of chronic allograft dysfunction. <i>Nephrology Dialysis Transplantation</i> , 2013, 28, 327-336.	0.7	18
54	Interleukin-38 in colorectal cancer: a potential role in precision medicine. <i>Cancer Immunology, Immunotherapy</i> , 2020, 69, 69-79.	4.2	18

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55	Clinical Implications of IL-32, IL-34 and IL-37 in Atherosclerosis: Speculative Role in Cardiovascular Manifestations of COVID-19. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 630767.	2.4	18
56	EPR and CD spectroscopy of fast myosin light chain conformation during binding of trifluoperazine. <i>FEBS Journal</i> , 1998, 257, 457-465.	0.2	16
57	The Regulatory Domain of the Myosin Head Behaves as a Rigid Lever. <i>Biochemistry</i> , 2001, 40, 7868-7873.	2.5	16
58	Phytoestrogen derivatives differentially inhibit arterial neointimal proliferation in a mouse model. <i>European Journal of Pharmacology</i> , 2006, 548, 123-128.	3.5	15
59	Interferon- β deficiency reduces neointimal formation in a model of endoluminal endothelial injury combined with atherogenic diet. <i>International Journal of Molecular Medicine</i> , 2012, 30, 545-552.	4.0	15
60	Ventricular-Vascular Coupling in Marfan and Non-Marfan Aortopathies. <i>Journal of the American Heart Association</i> , 2016, 5, .	3.7	15
61	Growth arrest-specific gene 6 expression in proliferating rabbit vascular smooth muscle cells in vitro and in vivo. <i>Electrophoresis</i> , 2000, 21, 3851-3856.	2.4	14
62	Myosin Regulatory Domain Orientation in Skeletal Muscle Fibers: Application of Novel Electron Paramagnetic Resonance Spectral Decomposition and Molecular Modeling Methods. <i>Biophysical Journal</i> , 2004, 86, 3030-3041.	0.5	14
63	Models of the actin monomer and filament from fluorescence resonance-energy transfer. <i>FEBS Journal</i> , 1992, 205, 591-601.	0.2	13
64	Duration of ischaemia determines matrix metalloproteinase-2 activation in the reperfused rabbit heart. <i>Proteomics</i> , 2002, 2, 1204-1210.	2.2	13
65	Inverse correlation between Interleukin-34 and gastric cancer, a potential biomarker for prognosis. <i>Cell and Bioscience</i> , 2020, 10, 94.	4.8	13
66	Independent Movement of the Regulatory and Catalytic Domains of Myosin Heads Revealed by Phosphorescence Anisotropy. <i>Biochemistry</i> , 2001, 40, 8283-8291.	2.5	12
67	Expression of growth arrest-specific gene 6 and its receptors in dysfunctional human renal allografts. <i>Transplant International</i> , 2003, 16, 681-688.	1.6	12
68	Methodological Comparisons of Heart Rate Variability Analysis in Patients With Type 2 Diabetes and Angiotensin Converting Enzyme Polymorphism. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2016, 20, 55-63.	6.3	12
69	Functional and spectroscopic studies of a familial hypertrophic cardiomyopathy mutation in Motif X of cardiac myosin binding protein-C. <i>European Biophysics Journal</i> , 2002, 31, 400-408.	2.2	11
70	Epigenetic influences on genetically triggered thoracic aortic aneurysm. <i>Biophysical Reviews</i> , 2018, 10, 1241-1256.	3.2	11
71	The RNA-binding fragile-X mental retardation protein and its role beyond the brain. <i>Biophysical Reviews</i> , 2020, 12, 903-916.	3.2	11
72	Fluorescence resonance energy transfer within the regulatory light chain of myosin. <i>FEBS Journal</i> , 1994, 219, 603-610.	0.2	10

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73	Dendritic cell derived IL-18 production is inhibited by rapamycin and sanglifehrin A, but not cyclosporine A. <i>Transplant Immunology</i> , 2008, 20, 99-105.	1.2	10
74	Evaluation of the risks of using an oversized balloon catheter in the human infrarenal abdominal aorta. <i>European Journal of Vascular and Endovascular Surgery</i> , 1998, 16, 142-147.	1.5	8
75	Expression of growth arrest-specific gene γ 1/26 and its receptors in dysfunctional human renal allografts. <i>Transplant International</i> , 2003, 16, 681-688.	1.6	8
76	GM-CSF deficiency delays neointima formation in a normolipidemic mouse model of endoluminal endothelial damage. <i>Immunology and Cell Biology</i> , 2009, 87, 122-130.	2.3	8
77	How can food extracts consumed in the Mediterranean and East Asia suppress prostate cancer proliferation?. <i>British Journal of Nutrition</i> , 2012, 108, 424-430.	2.3	8
78	Electrocardiogram derived QRS duration associations with elevated central aortic systolic pressure (CASP) in a rural Australian population. <i>Clinical Hypertension</i> , 2015, 22, 6.	2.0	8
79	Molecular mechanisms of inherited thoracic aortic disease – from gene variant to surgical aneurysm. <i>Biophysical Reviews</i> , 2015, 7, 105-115.	3.2	8
80	Angiotensin-converting enzyme gene DD genotype is associated with increased systolic blood pressure in an Australian Rural Type 2 Diabetic Cohort. <i>Hypertension Research</i> , 2013, 36, 381-382.	2.7	7
81	Thoracic aortic dissection and heritability: forensic implications. <i>Forensic Science, Medicine, and Pathology</i> , 2016, 12, 366-368.	1.4	7
82	Interactions between UCP2 SNPs and telomere length exist in the absence of diabetes or pre-diabetes. <i>Scientific Reports</i> , 2016, 6, 33147.	3.3	7
83	Direct cloning of polymerase chain reaction products into the pinpoint Xa1-T vector protein expression system. <i>Electrophoresis</i> , 1998, 19, 860-866.	2.4	6
84	Tyramide signal amplification enhances the detectable distribution of connexin-43 positive gap junctions across the ventricular wall of the rabbit heart. <i>Archives of Histology and Cytology</i> , 2003, 66, 359-365.	0.2	6
85	Food Extracts Consumed in Mediterranean Countries and East Asia Reduce Protein Concentrations of Androgen Receptor, Phospho-Protein Kinase B, and Phospho-Cytosolic Phospholipase A2 in Human Prostate Cancer Cells. <i>Journal of Nutrition</i> , 2010, 140, 786-791.	2.9	6
86	Extraction of myosin light chains and actin from bovine cardiac muscle acetone powder. <i>Analytical Biochemistry</i> , 1986, 158, 288-293.	2.4	5
87	Chronic angiotensin-converting enzyme inhibition up-regulates mouse kidney growth arrest specific-6 protein and the AXL subfamily of receptor tyrosine kinases. <i>JRAAS - Journal of the Renin-Angiotensin-Aldosterone System</i> , 2008, 9, 238-241.	1.7	5
88	Models of cardiovascular surgery biobanking to facilitate translational research and precision medicine. <i>ESC Heart Failure</i> , 2022, 9, 21-30.	3.1	5
89	Distance measurements near the myosin head-rod junction using fluorescence spectroscopy. <i>Biophysical Journal</i> , 1996, 71, 40-47.	0.5	4
90	Electrocardiogram QRS duration and associations with telomere length: A cross-sectional analysis in Australian rural diabetic and non-diabetic population. <i>Journal of Electrocardiology</i> , 2017, 50, 450-456.	0.9	4

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91	Weka Machine Learning Classification in Identifying Autonomic Dysfunction Parameters Associated with Ace Insertion/Deletion Genotypes. , 2012, , .		4
92	Simultaneous compound disasters from <scp>COVID</scp>â€19 and catastrophic flooding. Journal of Flood Risk Management, 2022, 15, .	3.3	4
93	Stimulation of Mesangial Cells by Angiotensin II and Lipopolysaccharide Increases Expression of Interleukin-18, but Not IL-18 Receptor. Nephron Experimental Nephrology, 2010, 116, e63-e71.	2.2	3
94	Calciumâ€axonemal microtubuli interactions underlie mechanism(s) of primary cilia morphological changes. Journal of Biological Physics, 2018, 44, 53-80.	1.5	3
95	The Epidemiology of COVID-19 in the Gansu and Jinlin Provinces, China. Frontiers in Public Health, 2020, 8, 555550.	2.7	3
96	The Role of IL-37 and IL-38 in Colorectal Cancer. Frontiers in Medicine, 2022, 9, 811025.	2.6	3
97	Delay in opening the infarct related coronary artery increases plasma atrial natriuretic peptide levels. European Journal of Pharmacology, 1999, 379, R3-R4.	3.5	2
98	Transfer of mouse embryonic stem cells to sheep myocardium. Lancet, The, 2006, 367, 301-302.	13.7	2
99	Intrinsic microtubule GTP-cap dynamics in semi-confined systems: kinetochoreâ€microtubule interface. Journal of Biological Physics, 2013, 39, 81-98.	1.5	2
100	Haem-Enzymes Predictive of Coronary Artery Disease Are Present in Thoracic and Abdominal Aortic Aneurysm. Heart Lung and Circulation, 2017, 26, S405.	0.4	2
101	Growth arrest-specific gene 6 expression in proliferating rabbit vascular smooth muscle cells in vitro and in vivo. Electrophoresis, 2000, 21, 3851-3856.	2.4	2
102	A Semi-Quantitative PCR Method for the Detection of Low Levels of Apoptotic DNA Fragmentation in a Heart Failure Model.. The Japanese Journal of Physiology, 2000, 50, 281-284.	0.9	2
103	Cross-Sectional Study on Health Literacy and Internet Accessibility Among Patients With DM in Gansu, China. Frontiers in Public Health, 2021, 9, 692089.	2.7	2
104	Spinodal decomposition and the emergence of dissipative transient periodic spatio-temporal patterns in acentrosomal microtubule multitudes of different morphology. Chaos, 2013, 23, 023120.	2.5	1
105	Relationship between Heart Rate Variability and angiotensinogen gene polymorphism in diabetic and control individuals. , 2014, 2014, 6683-6.		1
106	The association of uncoupling protein 2 (UCP2) exon 8 insertion/deletion polymorphism and ECG derived QRS duration: A cross-sectional study in an Australian rural population. International Journal of Cardiology, 2017, 228, 507-510.	1.7	1
107	Matrix Metalloproteinase-3 (MMP-3) Polymorphisms Are Associated with Prolonged ECG-Derived QTc Interval: A Cross-Sectional Study of the Australian Rural Population. Journal of Personalized Medicine, 2021, 11, 705.	2.5	1
108	Connexin-43 Expression: A Therapeutic Target for the Treatment of Ventricular Tachycardia. , 2014, , 351-360.		1

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109	Cross-sectional infarct edge jaggedness does not influence ventricular electrical stability in a rabbit model of late myocardial infarct healing. Redox Report, 2000, 5, 122-123.	4.5	0
110	Protein Comparative Sequence Analysis and Computer Modeling. Methods in Molecular Medicine, 2008, 141, 245-256.	0.8	0
111	Binding Studies Between Cofilin And Actin Using Fluorescence Resonance Energy Transfer And Molecular Modeling. Biophysical Journal, 2009, 96, 124a.	0.5	0
112	Echocardiography Evaluation of a Novel Stable Ovine Heart Failure Model Suitable for Cardiovascular Device Testing., 2011, , .		0
113	Marfan Syndrome Mutations Predominantly Alter Fibrillin Domain Folding. Biophysical Journal, 2012, 102, 251a.	0.5	0
114	Mutations in Cardiac Myosin Binding Protein - C Associated with Hypertrophic Cardiomyopathy Alter Structure, F-Actin Binding and Phosphorylation. Biophysical Journal, 2013, 104, 312a.	0.5	0
115	2P039 Structural defects in fibrillin associated with Marfan syndrome(01B. Protein: Structure & Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 0	0.1	0
116	2SDP-05 The role of matrix metalloproteinases in genetic thoracic aortic aneurysm(2SDP ASB-BSJ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 0 Seibutsu Butsuri, 2013, 53, S99.	0.1	0
117	Structural basis for phosphorylation and lysine acetylation cross-talk in a kinase motif associated with myocardial ischemia and cardioprotection.. Journal of Biological Chemistry, 2014, 289, 33875.	3.4	0
118	Intrinsic synergistic-topological mechanism versus synergistic-topological matrix in microtubule self-organization. EPJ Nonlinear Biomedical Physics, 2014, 2, .	0.8	0
119	Cofilin Binding to Globular and Filamentous Actin. Biophysical Journal, 2014, 106, 569a.	0.5	0
120	Modelling of Double Hit Mutations in Thoracic Aortic Aneurysm Disease that have Variable Impact on Phenotype. Biophysical Journal, 2016, 110, 614a-615a.	0.5	0
121	LBPS 03-29 THE ASSOCIATION OF CARDIOVASCULAR FACTORS WITH BLOOD PRESSURE IN AN AUSTRALIAN RURAL COMMUNITY. Journal of Hypertension, 2016, 34, e532.	0.5	0
122	Genetics of thoracic aortic aneurysm and dissection. Pathology, 2016, 48, S23.	0.6	0
123	Actin and Its Binding Proteins in Heart Failure. , 2008, , 318-334.		0
124	Abstract 113: Thoracic Aortic Aneurysms Associated With Bicuspid Aortic Valve Have Altered MicroRNA Expression. Arteriosclerosis, Thrombosis, and Vascular Biology, 2018, 38, .	2.4	0