

Roger D Hurst

List of Publications by Year in descending order

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Version: 2024-02-01

74
papers

3,814
citations

279798

23
h-index

123424

61
g-index

75
all docs

75
docs citations

75
times ranked

5309
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen peroxide and nitric oxide as signalling molecules in plants. <i>Journal of Experimental Botany</i> , 2002, 53, 1237-1247.	4.8	810
2	Polyphenolic phytochemicals – just antioxidants or much more?. <i>Cellular and Molecular Life Sciences</i> , 2007, 64, 2900-2916.	5.4	457
3	NO way back: nitric oxide and programmed cell death in <i>Arabidopsis thaliana</i> suspension cultures. <i>Plant Journal</i> , 2000, 24, 667-677.	5.7	406
4	In vitro models for the blood–brain barrier. <i>Toxicology in Vitro</i> , 2005, 19, 299-334.	2.4	365
5	Enteric Glia Regulate Intestinal Barrier Function and Inflammation Via Release of S-Nitrosoglutathione. <i>Gastroenterology</i> , 2007, 132, 1344-1358.	1.3	349
6	Effect of New Zealand blueberry consumption on recovery from eccentric exercise-induced muscle damage. <i>Journal of the International Society of Sports Nutrition</i> , 2012, 9, 19.	3.9	112
7	Cell signalling following plant/pathogen interactions involves the generation of reactive oxygen and reactive nitrogen species. <i>Plant Physiology and Biochemistry</i> , 2002, 40, 611-617.	5.8	94
8	Standardising the Lactulose Mannitol Test of Gut Permeability to Minimise Error and Promote Comparability. <i>PLoS ONE</i> , 2014, 9, e99256.	2.5	88
9	Upregulation of intercellular adhesion molecule-1 expression on human endothelial cells by tumour necrosis factor- α in an in vitro model of the blood–brain barrier. <i>Brain Research</i> , 1999, 830, 330-336.	2.2	79
10	Peroxynitrite Mediates Nitric Oxide–Induced Blood–Brain Barrier Damage. <i>Neurochemical Research</i> , 2004, 29, 579-587.	3.3	68
11	Blueberry fruit polyphenolics suppress oxidative stress–induced skeletal muscle cell damage <i>in vitro</i> . <i>Molecular Nutrition and Food Research</i> , 2010, 54, 353-363.	3.3	59
12	A comparison of the induction of immortalized endothelial cell impermeability by astrocytes. <i>NeuroReport</i> , 2001, 12, 1329-1334.	1.2	49
13	Preservation of extracellular glutathione by an astrocyte derived factor with properties comparable to extracellular superoxide dismutase. <i>Journal of Neurochemistry</i> , 2002, 83, 984-991.	3.9	49
14	Alterations in transendothelial electrical resistance by vasoactive agonists and cyclic AMP in a blood-brain barrier model system. <i>Neurochemical Research</i> , 1998, 23, 149-154.	3.3	47
15	Decreased endothelial cell glutathione and increased sensitivity to oxidative stress in an in vitro blood–brain barrier model system. <i>Brain Research</i> , 1998, 802, 232-240.	2.2	36
16	Blackcurrant proanthocyanidins augment IFN- β –induced suppression of IL-4 stimulated CCL26 secretion in alveolar epithelial cells. <i>Molecular Nutrition and Food Research</i> , 2010, 54, S159-70.	3.3	35
17	Nitric Oxide-Induced Blood–Brain Barrier Dysfunction Is Not Mediated by Inhibition of Mitochondrial Respiratory Chain Activity and/or Energy Depletion. <i>Nitric Oxide - Biology and Chemistry</i> , 1997, 1, 121-129.	2.7	33
18	Nitric-oxide-induced inhibition of glyceraldehyde-3-phosphate dehydrogenase may mediate reduced endothelial cell monolayer integrity in an in vitro model blood–brain barrier. <i>Brain Research</i> , 2001, 894, 181-188.	2.2	33

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19	Nitric oxide-induced perturbations in a cell culture model of the blood-brain barrier. , 1996, 167, 89-94.		31
20	Daily Consumption of an Anthocyanin-Rich Extract Made From New Zealand Blackcurrants for 5 Weeks Supports Exercise Recovery Through the Management of Oxidative Stress and Inflammation: A Randomized Placebo Controlled Pilot Study. <i>Frontiers in Nutrition</i> , 2020, 7, 16.	3.7	29
21	Blackcurrant anthocyanins modulate CCL11 secretion and suppress allergic airway inflammation. <i>Molecular Nutrition and Food Research</i> , 2017, 61, 1600868.	3.3	28
22	Astrocyte Nitric Oxide Causes Neuronal Mitochondrial Damage, but Antioxidant Release Limits Neuronal Cell Death. <i>Annals of the New York Academy of Sciences</i> , 1999, 893, 400-403.	3.8	27
23	Assessment of the Effect of Intestinal Permeability Probes (Lactulose And Mannitol) and Other Liquids on Digesta Residence Times in Various Segments of the Gut Determined by Wireless Motility Capsule: A Randomised Controlled Trial. <i>PLoS ONE</i> , 2015, 10, e0143690.	2.5	26
24	Post-mortem metmyoglobin reduction in fresh venison. <i>Meat Science</i> , 2007, 75, 53-60.	5.5	25
25	In vitro studies of modulation of pathogenic and probiotic bacterial proliferation and adhesion to intestinal cells by blackcurrant juices. <i>Journal of Functional Foods</i> , 2014, 8, 35-44.	3.4	24
26	Procyanidin A2 Modulates IL-4-Induced CCL26 Production in Human Alveolar Epithelial Cells. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1888.	4.1	23
27	Post-Exercise Skeletal Muscle Glycogen Related to Plasma Cytokines and Muscle IL-6 Protein Content, but not Muscle Cytokine mRNA Expression. <i>Frontiers in Nutrition</i> , 2015, 2, 27.	3.7	22
28	Blackcurrant cultivar polyphenolic extracts suppress CCL26 secretion from alveolar epithelial cells. <i>Food and Function</i> , 2014, 5, 671.	4.6	21
29	Increased inducible nitric oxide synthase protein but limited nitric oxide formation occurs in astrocytes of the hph-1 (tetrahydrobiopterin deficient) mouse. <i>Brain Research</i> , 1998, 804, 1-6.	2.2	20
30	Investigations into the Mechanism of Action of a Novel Nitric Oxide Generator on Cellular Respiration. <i>Journal of Neurochemistry</i> , 2002, 67, 1200-1207.	3.9	20
31	The Utility of the Nitric Oxide Electrochemical Sensor in Biomedical Research. <i>Sensors</i> , 2003, 3, 321-329.	3.8	19
32	Consumption of an Anthocyanin-Rich Extract Made From New Zealand Blackcurrants Prior to Exercise May Assist Recovery From Oxidative Stress and Maintains Circulating Neutrophil Function: A Pilot Study. <i>Frontiers in Nutrition</i> , 2019, 6, 73.	3.7	18
33	The effect of New Zealand Blackcurrant on sport performance and related biomarkers: a systematic review and meta-analysis. <i>Journal of the International Society of Sports Nutrition</i> , 2020, 17, 25.	3.9	18
34	Evidence for differential effects of noradrenaline and somatostatin on intracellular messenger systems in rat islets of Langerhans. <i>Journal of Molecular Endocrinology</i> , 1990, 4, 231-237.	2.5	17
35	The effect of aspirin and smoking on urinary excretion profiles of lactulose and mannitol in young women: toward a dynamic, aspirin augmented, test of gut mucosal permeability. <i>Neurogastroenterology and Motility</i> , 2012, 24, e401-11.	3.0	17
36	Isolated rat glomerular cells demonstrate L-type Ca ²⁺ -channel activity. <i>Cell Calcium</i> , 1993, 14, 387-396.	2.4	16

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37	Evaluating the health benefits of fruits for physical fitness: A research platform. <i>Journal of Berry Research</i> , 2010, 1, 35-44.	1.4	16
38	Timed consumption of a New Zealand blackcurrant juice support positive affective responses during a self-motivated moderate walking exercise in healthy sedentary adults. <i>Journal of the International Society of Sports Nutrition</i> , 2019, 16, 33.	3.9	14
39	Effects of $\hat{I}\pm$ -adrenergic antagonists on insulin secretion from rat pancreatic islets. <i>Biochemical Society Transactions</i> , 1988, 16, 1005-1006.	3.4	13
40	Chloride is required for receptor-mediated divalent cation entry in mesangial cells. <i>Journal of Cellular Physiology</i> , 1995, 162, 15-25.	4.1	13
41	Kiwifruit with high anthocyanin content modulates NF- \hat{I} B activation and reduces CCL11 secretion in human alveolar epithelial cells. <i>Journal of Functional Foods</i> , 2020, 65, 103734.	3.4	13
42	Differential trafficking of saccharidic probes following aspirin in clinical tests of intestinal permeability in young healthy women. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2014, 41, 107-117.	1.9	12
43	Boysenberry ingestion supports fibrolytic macrophages with the capacity to ameliorate chronic lung remodeling. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2016, 311, L628-L638.	2.9	12
44	Plant-derived Foods for the Attenuation of Allergic Airway Inflammation. <i>Current Pharmaceutical Design</i> , 2014, 20, 869-878.	1.9	12
45	Glomerular mesangial cell altered contractility in high glucose is Ca ²⁺ independent. <i>Diabetes</i> , 1995, 44, 759-766.	0.6	12
46	Ascorbic Acid may Exacerbate Aspirin-Induced Increase in Intestinal Permeability. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2015, 117, 195-203.	2.5	11
47	Anthocyanin-Rich New Zealand Blackcurrant Extract Supports the Maintenance of Forearm Blood-Flow During Prolonged Sedentary Sitting. <i>Frontiers in Nutrition</i> , 2020, 7, 74.	3.7	11
48	Butyric acid mediated induction of enhanced transendothelial resistance in an in vitro model blood-brain barrier system. <i>Neurochemistry International</i> , 1999, 35, 261-267.	3.8	10
49	Suppression of CCL26 and CCL11 generation in human alveolar epithelial cells by apple extracts containing procyanidins. <i>Journal of Functional Foods</i> , 2017, 31, 141-151.	3.4	10
50	Potential of Beetroot and Blackcurrant Compounds to Improve Metabolic Syndrome Risk Factors. <i>Metabolites</i> , 2021, 11, 338.	2.9	10
51	Exercise-induced elevation in plasma oxidative generating capability augments the temporal inflammatory response stimulated by lipopolysaccharide. <i>European Journal of Applied Physiology</i> , 2009, 107, 61-72.	2.5	9
52	The in vitro evaluation of isolated procyanidins as modulators of cytokine-induced eotaxin production in human alveolar epithelial cells. <i>Journal of Berry Research</i> , 2016, 6, 115-124.	1.4	9
53	Cognitive function and blood-brain barrier permeability during exercise in the heat: Effect of fitness and bovine colostrum supplementation. <i>Journal of Thermal Biology</i> , 2013, 38, 374-383.	2.5	7
54	Muscle Glycogen Depletion Following 75-km of Cycling Is Not Linked to Increased Muscle IL-6, IL-8, and MCP-1 mRNA Expression and Protein Content. <i>Frontiers in Physiology</i> , 2016, 7, 431.	2.8	6

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55	Boysenberry and apple juice concentrate reduced acute lung inflammation and increased M2 macrophage-associated cytokines in an acute mouse model of allergic airways disease. <i>Food Science and Nutrition</i> , 2021, 9, 1491-1503.	3.4	6
56	A useful in vitro blood-brain barrier model. <i>NeuroReport</i> , 2000, 11, L1-L2.	1.2	5
57	Activated T cells mediate direct blood-brain barrier endothelial cell death and dysfunction. <i>NeuroReport</i> , 2002, 13, 2587-2591.	1.2	5
58	Progress in Blueberry Research in New Zealand. <i>International Journal of Fruit Science</i> , 2012, 12, 304-315.	2.4	4
59	Different immune and functional effects of urban dust and diesel particulate matter inhalation in a mouse model of acute air pollution exposure. <i>Immunology and Cell Biology</i> , 2021, 99, 419-427.	2.3	4
60	Dissociation between intracellular calcium mobilization and insulin secretion in isolated rat islets of Langerhans. <i>FEBS Letters</i> , 1988, 227, 153-156.	2.8	3
61	Immunoprecipitation of a pertussis toxin substrate of the Go family from rat islets of Langerhans. <i>Bioscience Reports</i> , 1992, 12, 95-100.	2.4	3
62	RCT of the effect of berryfruit polyphenolic cultivar extract in mild steroid-naive asthma: a cross-over, placebo-controlled study. <i>BMJ Open</i> , 2017, 7, e013850.	1.9	3
63	Effects of benextramine on the adrenergic inhibition of insulin secretion in isolated rat pancreatic islets. <i>Journal of Molecular Endocrinology</i> , 1989, 2, 99-105.	2.5	2
64	Intracellular events responsible for the inhibition of insulin secretion by somatostatin. <i>Biochemical Society Transactions</i> , 1989, 17, 1085-1086.	3.4	2
65	A Simple, Robust, and Convenient HPLC Assay for Urinary Lactulose and Mannitol in the Dual Sugar Absorption Test. <i>Molecules</i> , 2022, 27, 2677.	3.8	2
66	Calcium handling by stimulated islets of Langerhans. <i>Biochemical Society Transactions</i> , 1989, 17, 64-66.	3.4	1
67	Investigations into the action of a novel nitric oxide donor on cellular respiration. <i>Biochemical Society Transactions</i> , 1996, 24, 460S-460S.	3.4	1
68	Dietary New Zealand propolis supplementation reduced proinflammatory cytokines in an acute mouse model of air pollution exposure, without impacting on immune cell infiltration or lung function. <i>Journal of Functional Foods</i> , 2021, 86, 104722.	3.4	1
69	Intracellular Ca ²⁺ mobilization in isolated rat islets of Langerhans. <i>Biochemical Society Transactions</i> , 1987, 15, 939-940.	3.4	0
70	61 An Immortalized <i>In Vitro</i> Model of the Blood-Brain Barrier: Effects of Cellular Differentiating Agents. <i>Biochemical Society Transactions</i> , 1998, 26, S353-S353.	3.4	0
71	119 An Immortalized <i>In Vitro</i> Model of the Blood-Brain Barrier: Glutathione Levels and Sensitivity to Oxidative Stress. <i>Biochemical Society Transactions</i> , 1998, 26, S354-S354.	3.4	0
72	Mucosal permeability testing: response. <i>Neurogastroenterology and Motility</i> , 2013, 25, 855-855.	3.0	0

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73	Post-Exercise Skeletal Muscle Glycogen Related to Plasma Cytokine but Not Muscle mRNA Expression. <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 715.	0.4	0
74	Predictors of Change in Plasma Cytokines and Muscle Cytokine mRNA and Protein After 75-km Cycling. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 816.	0.4	0