

Roger D Hurst

List of Publications by Year in descending order

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Version: 2024-02-01

74
papers

3,814
citations

279487

23
h-index

123241

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.	2.4	810
2	Polyphenolic phytochemicals – just antioxidants or much more?. <i>Cellular and Molecular Life Sciences</i> , 2007, 64, 2900-2916.	2.4	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.	2.8	406
4	In vitro models for the blood–brain barrier. <i>Toxicology in Vitro</i> , 2005, 19, 299-334.	1.1	365
5	Enteric Glia Regulate Intestinal Barrier Function and Inflammation Via Release of S-Nitrosoglutathione. <i>Gastroenterology</i> , 2007, 132, 1344-1358.	0.6	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.	1.7	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.	2.8	94
8	Standardising the Lactulose Mannitol Test of Gut Permeability to Minimise Error and Promote Comparability. <i>PLoS ONE</i> , 2014, 9, e99256.	1.1	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.	1.1	79
10	Peroxynitrite Mediates Nitric Oxide–Induced Blood–Brain Barrier Damage. <i>Neurochemical Research</i> , 2004, 29, 579-587.	1.6	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.	1.5	59
12	A comparison of the induction of immortalized endothelial cell impermeability by astrocytes. <i>NeuroReport</i> , 2001, 12, 1329-1334.	0.6	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.	2.1	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.	1.6	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.	1.1	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.	1.5	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.	1.2	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.	1.1	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.	1.6	29
21	Blackcurrant anthocyanins modulate CCL11 secretion and suppress allergic airway inflammation. <i>Molecular Nutrition and Food Research</i> , 2017, 61, 1600868.	1.5	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.	1.8	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.	1.1	26
24	Post-mortem metmyoglobin reduction in fresh venison. <i>Meat Science</i> , 2007, 75, 53-60.	2.7	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.	1.6	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.	1.8	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.	1.6	22
28	Blackcurrant cultivar polyphenolic extracts suppress CCL26 secretion from alveolar epithelial cells. <i>Food and Function</i> , 2014, 5, 671.	2.1	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.	1.1	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.	2.1	20
31	The Utility of the Nitric Oxide Electrochemical Sensor in Biomedical Research. <i>Sensors</i> , 2003, 3, 321-329.	2.1	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.	1.6	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.	1.7	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.	1.1	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.	1.6	17
36	Isolated rat glomerular cells demonstrate L-type Ca ²⁺ -channel activity. <i>Cell Calcium</i> , 1993, 14, 387-396.	1.1	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.	0.7	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.	1.7	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.	1.6	13
40	Chloride is required for receptor-mediated divalent cation entry in mesangial cells. <i>Journal of Cellular Physiology</i> , 1995, 162, 15-25.	2.0	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.	1.6	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.	0.9	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.	1.3	12
44	Plant-derived Foods for the Attenuation of Allergic Airway Inflammation. <i>Current Pharmaceutical Design</i> , 2014, 20, 869-878.	0.9	12
45	Glomerular mesangial cell altered contractility in high glucose is Ca ²⁺ independent. <i>Diabetes</i> , 1995, 44, 759-766.	0.3	12
46	Ascorbic Acid may Exacerbate Aspirin-Induced Increase in Intestinal Permeability. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2015, 117, 195-203.	1.2	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.	1.6	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.	1.9	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.	1.6	10
50	Potential of Beetroot and Blackcurrant Compounds to Improve Metabolic Syndrome Risk Factors. <i>Metabolites</i> , 2021, 11, 338.	1.3	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.	1.2	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.	0.7	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.	1.1	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.	1.3	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. Food Science and Nutrition, 2021, 9, 1491-1503.	1.5	6
56	A useful in vitro blood-brain barrier model. NeuroReport, 2000, 11, L1-L2.	0.6	5
57	Activated T cells mediate direct blood-brain barrier endothelial cell death and dysfunction. NeuroReport, 2002, 13, 2587-2591.	0.6	5
58	Progress in Blueberry Research in New Zealand. International Journal of Fruit Science, 2012, 12, 304-315.	1.2	4
59	Different immune and functional effects of urban dust and diesel particulate matter inhalation in a mouse model of acute air pollution exposure. Immunology and Cell Biology, 2021, 99, 419-427.	1.0	4
60	Dissociation between intracellular calcium mobilization and insulin secretion in isolated rat islets of Langerhans. FEBS Letters, 1988, 227, 153-156.	1.3	3
61	Immunoprecipitation of a pertussis toxin substrate of the Go family from rat islets of Langerhans. Bioscience Reports, 1992, 12, 95-100.	1.1	3
62	RCT of the effect of berryfruit polyphenolic cultivar extract in mild steroid-naive asthma: a cross-over, placebo-controlled study. BMJ Open, 2017, 7, e013850.	0.8	3
63	Effects of benextramine on the adrenergic inhibition of insulin secretion in isolated rat pancreatic islets. Journal of Molecular Endocrinology, 1989, 2, 99-105.	1.1	2
64	Intracellular events responsible for the inhibition of insulin secretion by somatostatin. Biochemical Society Transactions, 1989, 17, 1085-1086.	1.6	2
65	A Simple, Robust, and Convenient HPLC Assay for Urinary Lactulose and Mannitol in the Dual Sugar Absorption Test. Molecules, 2022, 27, 2677.	1.7	2
66	Calcium handling by stimulated islets of Langerhans. Biochemical Society Transactions, 1989, 17, 64-66.	1.6	1
67	Investigations into the action of a novel nitric oxide donor on cellular respiration. Biochemical Society Transactions, 1996, 24, 460S-460S.	1.6	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. Journal of Functional Foods, 2021, 86, 104722.	1.6	1
69	Intracellular Ca ²⁺ mobilization in isolated rat islets of Langerhans. Biochemical Society Transactions, 1987, 15, 939-940.	1.6	0
70	61 An Immortalized <i>In Vitro</i> Model of the Blood-Brain Barrier: Effects of Cellular Differentiating Agents. Biochemical Society Transactions, 1998, 26, S353-S353.	1.6	0
71	119 An Immortalized <i>In Vitro</i> Model of the Blood-Brain Barrier: Glutathione Levels and Sensitivity to Oxidative Stress. Biochemical Society Transactions, 1998, 26, S354-S354.	1.6	0
72	Mucosal permeability testing: response. Neurogastroenterology and Motility, 2013, 25, 855-855.	1.6	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.	0.2	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.	0.2	0