Philip Newsholme

List of Publications by Year
in descending order

191 papers	12,045 citations	26610 56 h-index	29127 104 g-index
194 all docs	194 docs citations	194 times ranked	17779 citing authors

#	Article	IF	Citations
1	Activation of the NLRP3 inflammasome by islet amyloid polypeptide provides a mechanism for enhanced IL-1Î² in type 2 diabetes. Nature Immunology, 2010, 11, 897-904.	7.0	1,149
2	Molecular mechanisms of ROS production and oxidative stress in diabetes. Biochemical Journal, 2016, 473, 4527-4550.	1.7	617
3	Glutamine: Metabolism and Immune Function, Supplementation and Clinical Translation. Nutrients, 2018, 10, 1564.	1.7	616
4	Glutamine and glutamate?their central role in cell metabolism and function. Cell Biochemistry and Function, 2003, 21, 1-9.	1.4	478
5	Why Is L-Glutamine Metabolism Important to Cells of the Immune System in Health, Postinjury, Surgery or Infection?. Journal of Nutrition, 2001, 131, 2515S-2522S.	1.3	457
6	Inflammation and Oxidative Stress: The Molecular Connectivity between Insulin Resistance, Obesity, and Alzheimerâ€™s Disease. Mediators of Inflammation, 2015, 2015, 1-17.	1.4	360
7	Rates of utilization and fates of glucose, glutamine, pyruvate, fatty acids and ketone bodies by mouse macrophages. Biochemical Journal, 1987, 242, 631-636.	1.7	286
8	The Impact of Vitamin D Levels on Inflammatory Status: A Systematic Review of Immune Cell Studies. PLoS ONE, 2015, 10, e0141770.	1.1	279
9	Molecular Events Linking Oxidative Stress and Inflammation to Insulin Resistance andÎ²-Cell Dysfunction. Oxidative Medicine and Cellular Longevity, 2015, 2015, 1-15.	1.9	261
10	Rates of utilization of glucose, glutamine and oleate and formation of end-products by mouse peritoneal macrophages in culture. Biochemical Journal, 1989, 261, 211-218.	1.7	213
11	Regulation of SIRT1 in aging: Roles in mitochondrial function and biogenesis. Mechanisms of Ageing and Development, 2016, 155, 10-21.	2.2	212
12	New insights into amino acid metabolism, Î²-cell function and diabetes. Clinical Science, 2005, 108, 185-194.	1.8	198
13	Nutrient regulation of insulin secretion and action. Journal of Endocrinology, 2014, 221, R105-R120.	1.2	170
14	Pleiotropic Effects of GLP-1 and Analogs on Cell Signaling, Metabolism, and Function. Frontiers in Endocrinology, 2018, 9, 672.	1.5	170
15	Cancer stem cell metabolism: a potential target for cancer therapy. Molecular Cancer, 2016, 15, 69.	7.9	154
16	The Link between Type 2 Diabetes and Neurodegeneration: Roles for Amyloid-Î², Amylin, and Tau Proteins. Journal of Alzheimer's Disease, 2017, 59, 421-432.	1.2	154
17	Glutamine delays spontaneous apoptosis in neutrophils. American Journal of Physiology - Cell Physiology, 2003, 284, C1355-C1361.	2.1	148
18	Epigenetic effects of metformin: From molecular mechanisms to clinical implications. Diabetes, Obesity and Metabolism, 2018, 20, 1553-1562.	2.2	138

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19	Metabolism of pyruvate by isolated rat mesenteric lymphocytes, lymphocyte mitochondria and isolated mouse macrophages. Biochemical Journal, 1988, 250, 383-388.	1.7	136
20	Life and death decisions of the pancreatic Î²-cell: the role of fatty acids. Clinical Science, 2007, 112, 27-42.	1.8	136
21	Reactive oxygen and nitrogen species generation, antioxidant defenses, and Î²-cell function: a critical role for amino acids. Journal of Endocrinology, 2012, 214, 11-20.	1.2	129
22	A Nuclear Magnetic Resonance-Based Demonstration of Substantial Oxidative L-Alanine Metabolism and L-Alanine-Enhanced Glucose Metabolism in a Clonal Pancreatic Â-Cell Line : Metabolism of L-Alanine Is Important to the Regulation of Insulin Secretion. Diabetes, 2002, 51, 1714-1721.	0.3	124
23	The Chaperone Balance Hypothesis: The Importance of the Extracellular to Intracellular HSP70 Ratio to Inflammation-Driven Type 2 Diabetes, the Effect of Exercise, and the Implications for Clinical Management. Mediators of Inflammation, 2015, 2015, 1-12.	1.4	124
24	Statin therapy causes gut dysbiosis in mice through a PXR-dependent mechanism. Microbiome, 2017, 5, 95.	4.9	124
25	Glucose metabolism in lymphoid and inflammatory cells and tissues. Current Opinion in Clinical Nutrition and Metabolic Care, 2007, 10, 531-540.	1.3	123
26	Oxidative stress pathways in pancreatic Î²-cells and insulin-sensitive cells and tissues: importance to cell metabolism, function, and dysfunction. American Journal of Physiology - Cell Physiology, 2019, 317, C420-C433.	2.1	120
27	Comparative toxicity of oleic and linoleic acid on human lymphocytes. Life Sciences, 2006, 78, 1448-1456.	2.0	118
28	Glutamine, gene expression, and cell function. Frontiers in Bioscience - Landmark, 2007, 12, 344.	3.0	112
29	Amino acid supplementation and impact on immune function in the context of exercise. Journal of the International Society of Sports Nutrition, 2014, 11, 61.	1.7	106
30	Importance of glutamine metabolism in murine macrophages and human monocytes to L-arginine biosynthesis and rates of nitrite or urea production. Clinical Science, 1998, 95, 397-407.	1.8	101
31	The importance of fuel metabolism to macrophage function. Cell Biochemistry and Function, 1996, 14, 1-10.	1.4	97
32	Effects of short chain fatty acids on effector mechanisms of neutrophils. Cell Biochemistry and Function, 2009, 27, 48-55.	1.4	95
33	Divergence of intracellular and extracellular HSP72 in type 2 diabetes: does fat matter?. Cell Stress and Chaperones, 2012, 17, 293-302.	1.2	94
34	New Insights into Fatty Acid Modulation of Pancreatic Î²â€Cell Function. International Review of Cytology, 2006, 248, 1-41.	6.2	89
35	Exercise and possible molecular mechanisms of protection from vascular disease and diabetes: the central role of ROS and nitric oxide. Clinical Science, 2010, 118, 341-349.	1.8	88
36	The effects of aerobic exercise training at two different intensities in obesity and type 2 diabetes: implications for oxidative stress, low-grade inflammation and nitric oxide production. European Journal of Applied Physiology, 2014, 114, 251-260.	1.2	87

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37	A past and present overview of macrophage metabolism and functional outcomes. Clinical Science, 2017, 131, 1329-1342.	1.8	87
38	Multi-lineage differentiation of mesenchymal stem cells â€“ To Wnt, or not Wnt. International Journal of Biochemistry and Cell Biology, 2015, 68, 139-147.	1.2	85
39	Mitochondria and Diabetes. An Intriguing Pathogenetic Role. Advances in Experimental Medicine and Biology, 2012, 942, 235-247.	0.8	81
40	l-Arginine is essential for pancreatic Î²-cell functional integrity, metabolism and defense from inflammatory challenge. Journal of Endocrinology, 2011, 211, 87-97.	1.2	77
41	The fat cell senescence hypothesis. Current Opinion in Clinical Nutrition and Metabolic Care, 2014, 17, 295-305.	1.3	75
42	Effect of docosahexaenoic acid-rich fish oil supplementation on human leukocyte function. Clinical Nutrition, 2006, 25, 923-938.	2.3	74
43	A Whey Protein Hydrolysate Promotes Insulinotropic Activity in a Clonal Pancreatic Î²-Cell Line and Enhances Glycemic Function in ob/ob Mice1â€“3. Journal of Nutrition, 2013, 143, 1109-1114.	1.3	72
44	GLP-1 receptor signalling promotes Î²-cell glucose metabolism via mTOR-dependent HIF-1Î± activation. Scientific Reports, 2017, 7, 2661.	1.6	72
45	Nutritional regulation of insulin secretion: implications for diabetes. Clinical Biochemist Reviews, 2012, 33, 35-47.	3.3	67
46	Elevated levels of extracellular heat-shock protein 72 (eHSP72) are positively correlated with insulin resistancein vivoand cause pancreatic Î²-cell dysfunction and deathin vitro. Clinical Science, 2014, 126, 739-752.	1.8	66
47	Regulatory principles in metabolismâ€“then and now. Biochemical Journal, 2016, 473, 1845-1857.	1.7	66
48	Pro-inflammatory cytokines increase glucose, alanine and triacylglycerol utilization but inhibit insulin secretion in a clonal pancreatic Î²-cell line. Journal of Endocrinology, 2007, 195, 113-123.	1.2	65
49	Arachidonic acid, palmitic acid and glucose are important for the modulation of clonal pancreatic Î²-cell insulin secretion, growth and functional integrity. Clinical Science, 2004, 106, 191-199.	1.8	64
50	Nutrient Regulation of Insulin Secretion and Î²-Cell Functional Integrity. Advances in Experimental Medicine and Biology, 2010, 654, 91-114.	0.8	64
51	Mechanisms of vitamin D action in skeletal muscle. Nutrition Research Reviews, 2019, 32, 192-204.	2.1	64
52	Determination of the anti-inflammatory and cytoprotective effects of <scp>l</scp>-glutamine and <scp>l</scp>-alanine, or dipeptide, supplementation in rats submitted to resistance exercise. British Journal of Nutrition, 2016, 116, 470-479.	1.2	63
53	The effect of cigarette smoking, alcohol consumption and fruit and vegetable consumption on IVF outcomes: a review and presentation of original data. Reproductive Biology and Endocrinology, 2015, 13, 134.	1.4	61
54	Attenuation of obesity and insulin resistance by fish oil supplementation is associated with improved skeletal muscle mitochondrial function in mice fed a high-fat diet. Journal of Nutritional Biochemistry, 2018, 55, 76-88.	1.9	61

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55	L-Alanine induces changes in metabolic and signal transduction gene expression in a clonal rat pancreatic Î²-cell line and protects from pro-inflammatory cytokine-induced apoptosis. Clinical Science, 2005, 109, 447-455.	1.8	60
56	Mesenchymal stem cell-conditioned media ameliorate diabetic endothelial dysfunction by improving mitochondrial bioenergetics via the Sirt1/AMPK/PGC-1Î± pathway. Clinical Science, 2016, 130, 2181-2198.	1.8	59
57	Insulin resistance is associated with reductions in specific cognitive domains and increases in CSF tau in cognitively normal adults. Scientific Reports, 2017, 7, 9766.	1.6	59
58	Effects of EPA and DHA on proliferation, cytokine production, and gene expression in Raji cells. Lipids, 2004, 39, 857-864.	0.7	58
59	Butyrate generated by gut microbiota and its therapeutic role in metabolic syndrome. Pharmacological Research, 2020, 160, 105174.	3.1	57
60	Peroxiredoxin III protects pancreatic Î² cells from apoptosis. Journal of Endocrinology, 2010, 207, 163-175.	1.2	55
61	The Critical Role of Cell Metabolism for Essential Neutrophil Functions. Cellular Physiology and Biochemistry, 2020, 54, 629-647.	1.1	54
62	Effects of pharmacological inhibition of NADPH oxidase or iNOS on pro-inflammatory cytokine, palmitic acid or H2O2-induced mouse islet or clonal pancreatic Î²-cell dysfunction. Bioscience Reports, 2010, 30, 445-453.	1.1	53
63	The regulatory roles of NADPH oxidase, intra- and extra-cellular HSP70Âin pancreatic islet function, dysfunction and diabetes. Clinical Science, 2015, 128, 789-803.	1.8	53
64	Housekeeping proteins: How useful are they in skeletal muscle diabetes studies and muscle hypertrophy models?. Analytical Biochemistry, 2016, 504, 38-40.	1.1	53
65	Glutamine regulates expression of key transcription factor, signal transduction, metabolic gene, and protein expression in a clonal pancreatic Î²-cell line. Journal of Endocrinology, 2006, 190, 719-727.	1.2	52
66	Arachidonic acid actions on functional integrity and attenuation of the negative effects of palmitic acid in a clonal pancreatic Î²-cell line. Clinical Science, 2011, 120, 195-206.	1.8	52
67	Importance of glutamine metabolism in murine macrophages and human monocytes to L-arginine biosynthesis and rates of nitrite or urea production. Clinical Science, 1998, 95, 397.	1.8	49
68	Mitochondria-derived glutamate at the interplay between branched-chain amino acid and glucose-induced insulin secretion. FEBS Letters, 2003, 545, 167-172.	1.3	49
69	Differential nitric oxide levels in the blood and skeletal muscle of type 2 diabetic subjects may be consequence of adiposity: a preliminary study. Metabolism: Clinical and Experimental, 2012, 61, 1528-1537.	1.5	49
70	Intracellular distribution of some enzymes of the glutamine utilisation pathway in rat lymphocytes. Biochemical and Biophysical Research Communications, 1986, 138, 318-322.	1.0	48
71	Inhibition of formyl-methionyl-leucyl-phenylalanine-stimulated respiratory burst in human neutrophils by adrenaline: inhibition of Phospholipase A2 activity but not p47phox phosphorylation and translocation. Biochemical Pharmacology, 2004, 67, 183-190.	2.0	47
72	Role of the cell membrane interface in modulating production and uptake of Alzheimer's beta amyloid protein. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 1639-1651.	1.4	47

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73	Glucose, but not glutamine, protects against spontaneous and anti-Fas antibody-induced apoptosis in human neutrophils. Clinical Science, 2002, 103, 179-189.	1.8	44
74	Physiological concentrations of interleukin-6 directly promote insulin secretion, signal transduction, nitric oxide release, and redox status in a clonal pancreatic Î²-cell line and mouse islets. Journal of Endocrinology, 2012, 214, 301-311.	1.2	44
75	Alanyl-glutamine improves pancreatic Î²-cell function following ex vivo inflammatory challenge. Journal of Endocrinology, 2015, 224, 261-271.	1.2	44
76	Amylin and beta amyloid proteins interact to form amorphous heterocomplexes with enhanced toxicity in neuronal cells. Scientific Reports, 2020, 10, 10356.	1.6	44
77	Mechanisms of PEDF-mediated protection against reactive oxygen species damage in diabetic retinopathy and neuropathy. Journal of Endocrinology, 2014, 222, R129-R139.	1.2	43
78	Macrophage-mediated lysis of a Î²-cell line, tumour necrosis factor-Î± release from bacillus Calmetteâ€“GueÂ´rin (BCG)-activated murine macrophages and interleukin-8 release from human monocytes are dependent on extracellular glutamine concentration and glutamine metabolism. Clinical Science, 1999, 96, 89-97.	1.8	41
79	Amino acids and diabetes: implications for endocrine, metabolic and immune function. Frontiers in Bioscience - Landmark, 2011, 16, 315.	3.0	41
80	Metabolomic analyses reveal profound differences in glycolytic and tricarboxylic acid cycle metabolism in glucose-responsive and -unresponsive clonal Î²-cell lines. Biochemical Journal, 2011, 435, 277-284.	1.7	41
81	Oleic, Linoleic and Linolenic Acids Increase ROS Production by Fibroblasts via NADPH Oxidase Activation. PLoS ONE, 2013, 8, e58626.	1.1	41
82	The impact of cryopreservation on human peripheral blood leucocyte bioenergetics. Clinical Science, 2015, 128, 723-733.	1.8	40
83	Saturated and unsaturated (including arachidonic acid) non-esterified fatty acid modulation of insulin secretion from pancreatic Î²-cells. Biochemical Society Transactions, 2008, 36, 955-958.	1.6	38
84	Polyunsaturated and monounsaturated fatty acids increase neutral lipid accumulation, caspase activation and apoptosis in a neutrophil-like, differentiated HL-60 cell line. Clinical Science, 2003, 104, 171.	1.8	37
85	Specific ranges of anti-Mullerian hormone and antral follicle count correlate to provide a prognostic indicator for IVF outcome. Reproductive Biology, 2017, 17, 51-59.	0.9	37
86	Phagocyte-like NADPH oxidase (Nox2) promotes activation of p38MAPK in pancreatic Î²-cells under glucotoxic conditions: Evidence for a requisite role of Ras-related C3 botulinum toxin substrate 1 (Rac1). Biochemical Pharmacology, 2015, 95, 301-310.	2.0	36
87	The effects of a combined bodyweight-based and elastic bands resistance training, with or without protein supplementation, on muscle mass, signaling and heat shock response in healthy older people. Experimental Gerontology, 2019, 115, 104-113.	1.2	36
88	Effects of vitamin D on primary human skeletal muscle cell proliferation, differentiation, protein synthesis and bioenergetics. Journal of Steroid Biochemistry and Molecular Biology, 2019, 193, 105423.	1.2	35
89	Insulinotropic properties of whey protein hydrolysates and impact of peptide fractionation on insulinotropic response. International Dairy Journal, 2013, 32, 163-168.	1.5	34
90	Prevailing vitamin D status influences mitochondrial and glycolytic bioenergetics in peripheral blood mononuclear cells obtained from adults. Redox Biology, 2016, 10, 243-250.	3.9	34

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91	Metabolic Regulation of Insulin Secretion. Vitamins and Hormones, 2014, 95, 1-33.	0.7	33
92	Effects of adrenaline on glucose and glutamine metabolism and superoxide production by rat neutrophils. Clinical Science, 1999, 96, 549-555.	1.8	31
93	Activation of survival and apoptotic signaling pathways in lymphocytes exposed to palmitic acid. Journal of Cellular Physiology, 2012, 227, 339-350.	2.0	31
94	Host cell glutamine metabolism as a potential antiviral target. Clinical Science, 2021, 135, 305-325.	1.8	31
95	Maximal activities of key enzymes of glutaminolysis, glycolysis, Krebs cycle and pentose-phosphate pathway of several tissues in mature and aged rats. International Journal of Biochemistry & Cell Biology, 1989, 21, 937-940.	0.8	30
96	Molecular actions of vitamin D in reproductive cell biology. Reproduction, 2017, 153, R29-R42.	1.1	30
97	Regulation of Cancer Stem Cell Metabolism by Secreted Frizzled-Related Protein 4 (sFRP4). Cancers, 2018, 10, 40.	1.7	29
98	Winter to summer change in vitamin D status reduces systemic inflammation and bioenergetic activity of human peripheral blood mononuclear cells. Redox Biology, 2017, 12, 814-820.	3.9	28
99	Casein Hydrolysate with Glycemic Control Properties: Evidence from Cells, Animal Models, and Humans. Journal of Agricultural and Food Chemistry, 2018, 66, 4352-4363.	2.4	28
100	Mathematical Model of Metabolism and Electrophysiology of Amino Acid and Glucose Stimulated Insulin Secretion: In Vitro Validation Using a Î²-Cell Line. PLoS ONE, 2013, 8, e52611.	1.1	27
101	Wnt Antagonist Secreted Frizzled-Related Protein 4 Upregulates Adipogenic Differentiation in Human Adipose Tissue-Derived Mesenchymal Stem Cells. PLoS ONE, 2015, 10, e0118005.	1.1	25
102	Effects of high EPA and high DHA fish oils on changes in signaling associated with protein metabolism induced by hindlimb suspension in rats. Physiological Reports, 2016, 4, e12958.	0.7	24
103	Activities of some key enzymes of carbohydrate, ketone body, adenosine and glutamine metabolism in liver, and brown and white adipose tissues of the rat. Biochemical and Biophysical Research Communications, 1986, 138, 687-692.	1.0	23
104	Polyunsaturated and monounsaturated fatty acids increase neutral lipid accumulation, caspase activation and apoptosis in a neutrophil-like, differentiated HL-60 cell line. Clinical Science, 2003, 104, 171-179.	1.8	23
105	Epigenetic demethylation of sFRPs, with emphasis on sFRP4 activation, leading to Wnt signalling suppression and histone modifications in breast, prostate, and ovary cancer stem cells. International Journal of Biochemistry and Cell Biology, 2019, 109, 23-32.	1.2	23
106	Macrophage-mediated lysis of a Î²-cell line, tumour necrosis factor-Î± release from bacillus Calmetteâ€'GuÃ©rin (BCG)-activated murine macrophages and interleukin-8 release from human monocytes are dependent on extracellular glutamine concentration and glutamine metabolism. Clinical Science, 1999, 96, 89.	1.8	22
107	Overexpression of the malateâ€“aspartate NADH shuttle member Aralar1 in the clonal Î²-cell line BRIN-BD11 enhances amino-acid-stimulated insulin secretion and cell metabolism. Clinical Science, 2009, 117, 321-330.	1.8	22
108	Lysosomal cystine accumulation promotes mitochondrial depolarization and induction of redoxâ€sensitive genes in human kidney proximal tubular cells. Journal of Physiology, 2016, 594, 3353-3370.	1.3	21

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109	Prolonged L-alanine exposure induces changes in metabolism, Ca2+ handling and desensitization of insulin secretion in clonal pancreatic Î²-cells. Clinical Science, 2009, 116, 341-351.	1.8	20
110	The Immunometabolic Roles of Various Fatty Acids in Macrophages and Lymphocytes. International Journal of Molecular Sciences, 2021, 22, 8460.	1.8	19
111	Toll-like receptor agonist induced changes in clonal rat BRIN-BD11 Î²-cell insulin secretion and signal transduction. Journal of Endocrinology, 2009, 202, 365-373.	1.2	18
112	Angiotensin-Converting Enzyme Related-Polymorphisms on Inflammation, Muscle and Myocardial Damage After a Marathon Race. Frontiers in Genetics, 2019, 10, 984.	1.1	18
113	Genes regulated by arachidonic and oleic acids in Raji cells. Lipids, 2003, 38, 1157-1165.	0.7	17
114	Role of epigenetic modulation in cancer stem cell fate. International Journal of Biochemistry and Cell Biology, 2017, 90, 9-16.	1.2	17
115	GLUTAMINE AS A POSSIBLE PRECURSOR OF L-ARGININE AND THUS NITRIC OXIDE SYNTHESIS IN MURINE MACROPHAGES. Biochemical Society Transactions, 1997, 25, 404S-404S.	1.6	16
116	Persistence of Inflammatory Response to Intense Exercise in Diabetic Rats. Experimental Diabetes Research, 2012, 2012, 1-8.	3.8	16
117	Oleoyl-lysophosphatidylinositol enhances glucagon-like peptide-1 secretion from enteroendocrine L-cells through GPR119. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2018, 1863, 1132-1141.	1.2	16
118	Glucose, but not glutamine, protects against spontaneous and anti-Fas antibody-induced apoptosis in human neutrophils. Clinical Science, 2002, 103, 179.	1.8	14
119	Elevated levels of branchedâ€chain amino acids have little effect on pancreatic islet cells, but <scp>l</scp>â€arginine impairs function through activation of the endoplasmic reticulum stress response. Experimental Physiology, 2014, 99, 538-551.	0.9	14
120	The Role of Cystinosin in the Intermediary Thiol Metabolism and Redox Homeostasis in Kidney Proximal Tubular Cells. Antioxidants, 2018, 7, 179.	2.2	14
121	Lupin seed hydrolysate promotes G-protein-coupled receptor, intracellular Ca2+ and enhanced glycolytic metabolism-mediated insulin secretion from BRIN-BD11 pancreatic beta cells. Molecular and Cellular Endocrinology, 2019, 480, 83-96.	1.6	14
122	Gut associated bacteria are critical to metabolism, inflammation and health. Current Opinion in Clinical Nutrition and Metabolic Care, 2016, 19, 245-249.	1.3	13
123	Pigment epithelium-derived factor stimulates skeletal muscle glycolytic activity through NADPH oxidase-dependent reactive oxygen species production. International Journal of Biochemistry and Cell Biology, 2016, 78, 229-236.	1.2	13
124	Pigment epithelium-derived factor (PEDF) regulates metabolism and insulin secretion from a clonal rat pancreatic beta cell line BRIN-BD11 and mouse islets. Molecular and Cellular Endocrinology, 2016, 426, 50-60.	1.6	12
125	Therapeutic approach to target mesothelioma cancer cells using the Wnt antagonist, secreted frizzled-related protein 4: Metabolic state of cancer cells. Experimental Cell Research, 2016, 341, 218-224.	1.2	12
126	UV Irradiation of Skin Enhances Glycolytic Flux and Reduces Migration Capabilities in Bone Marrowâ€“Differentiated Dendritic Cells. American Journal of Pathology, 2017, 187, 2046-2059.	1.9	12

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127	The inhibitory influence of adipose tissue-derived mesenchymal stem cell environment and Wnt antagonism on breast tumour cell lines. International Journal of Biochemistry and Cell Biology, 2018, 95, 63-72.	1.2	12
128	Glutamine deprivation induces metabolic adaptations associated with beta cell dysfunction and exacerbate lipotoxicity. Molecular and Cellular Endocrinology, 2019, 491, 110433.	1.6	12
129	Statins Do Not Directly Inhibit the Activity of Major Epigenetic Modifying Enzymes. Cancers, 2019, 11, 516.	1.7	12
130	Cystine accumulation attenuates insulin release from the pancreatic Î²â€cell due to elevated oxidative stress and decreased ATP levels. Journal of Physiology, 2015, 593, 5167-5182.	1.3	11
131	The Influence of Breast Tumour-Derived Factors and Wnt Antagonism on the Transformation of Adipose-Derived Mesenchymal Stem Cells into Tumour-Associated Fibroblasts. Cancer Microenvironment, 2018, 11, 71-84.	3.1	11
132	Are Heat Shock Proteins an Important Link between Type 2 Diabetes and Alzheimer Disease?. International Journal of Molecular Sciences, 2020, 21, 8204.	1.8	11
133	A proteomic analysis of the functional effects of fatty acids in NIH 3T3 fibroblasts. Lipids in Health and Disease, 2011, 10, 218.	1.2	10
134	Postprandial changes in glucose oxidation and insulin sensitivity in metabolic syndrome: Influence of fibroblast growth factor 21 and vitamin D status. Nutrition, 2017, 37, 37-42.	1.1	10
135	Cellular and metabolic mechanisms of nutrient actions in immune function. Nutrition and Diabetes, 2021, 11, 22.	1.5	10
136	The HDAC Inhibitor Butyrate Impairs Î² Cell Function and Activates the Disallowed Gene Hexokinase I. International Journal of Molecular Sciences, 2021, 22, 13330.	1.8	10
137	Propionate modifies lipid biosynthesis in rat peritoneal macrophages. General Pharmacology, 1995, 26, 411-416.	0.7	9
138	<u>Evidence for the Involvement of Glutamine in Nitric Oxide (NO) production by immunostimulated Neutrophils</u>. Biochemical Society Transactions, 1997, 25, 403S-403S.	1.6	9
139	Effects of adrenaline on glucose and glutamine metabolism and superoxide production by rat neutrophils. Clinical Science, 1999, 96, 549.	1.8	9
140	Insulin and IGF-1 receptor autocrine loops are not required for Exendin-4 induced changes to pancreatic Î²-cell bioenergetic parameters and metabolism in BRIN-BD11 cells. Peptides, 2018, 100, 140-149.	1.2	9
141	Investigation of the effects of sulfonylurea exposure on pancreatic beta cell metabolism. FEBS Journal, 2006, 273, 5160-5168.	2.2	8
142	Ionâ€Transfer Electrochemistry of Rat Amylin at the Waterâ€“Organogel Microinterface Array and Its Selective Detection in a Protein Mixture. Chemistry - an Asian Journal, 2013, 8, 2096-2101.	1.7	8
143	Cystine dimethylester loading promotes oxidative stress and a reduction in ATP independent of lysosomal cystine accumulation in a human proximal tubular epithelial cell line. Experimental Physiology, 2013, 98, 1505-1517.	0.9	8
144	Novel dehydroepiandrosterone troche supplementation improves the serum androgen profile of women undergoing in vitro fertilization. Drug Design, Development and Therapy, 2015, 9, 5569.	2.0	8

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145	Vitamin D Supplementation and Impact on Skeletal Muscle Function in Cell and Animal Models and an Aging Population: What Do We Know So Far?. Nutrients, 2021, 13, 1110.	1.7	8
146	Identification of a novel complement-dependent serum-elicited inward current in the Xenopus oocyte provoking Ca2+ influx and subsequent activation of Clâ˜ channels. Biochemical Pharmacology, 1999, 57, 491-501.	2.0	7
147	Vitamin D Supplementation Does Not Impact Resting Metabolic Rate, Body Composition and Strength in Vitamin D Sufficient Physically Active Adults. Nutrients, 2020, 12, 3111.	1.7	7
148	In vivo and in vitro studies of GAD-antibody positive subjects with Type 2 diabetes: A distinct sub-phenotype. Diabetes Research and Clinical Practice, 2008, 80, 365-370.	1.1	6
149	Reticulon-1 and Reduced Migration toward Chemoattractants by Macrophages Differentiated from the Bone Marrow of Ultraviolet-Irradiated and Ultraviolet-Chimeric Mice. Journal of Immunology, 2018, 200, 260-270.	0.4	6
150	Inducible nitric oxide synthase inhibitor 1400W increases Na⁺,K⁺â€<scp>ATP</scp>ase levels and activity and ameliorates mitochondrial dysfunction in Ctns null kidney proximal tubular epithelial cells. Clinical and Experimental Pharmacology and Physiology, 2018, 45, 1149-1160.	0.9	6
151	Cellular and metabolic mechanisms of nutrient actions in immune function. European Journal of Clinical Nutrition, 2021, 75, 1328-1331.	1.3	6
152	Antidiabetic effects and mechanisms of action of Î³-conglutin from lupin seeds. Journal of Functional Foods, 2021, 87, 104786.	1.6	6
153	Diet, Obesity, and Reactive Oxygen Species â€“ Implications for Diabetes and Aging. , 2014, , 3361-3374.		6
154	Overview: metabolomics and lipidomics in nutrition and metabolism research. Essays in Biochemistry, 2016, 60, 407-407.	2.1	5
155	PGE2 pulsing of murine bone marrow cells reduces migration of daughter monocytes/macrophages in vitro and in vivo. Experimental Hematology, 2017, 56, 64-68.	0.2	5
156	Insulin resistance, cognition and Alzheimer's disease biomarkers: Evidence that CSF AÎ²42 moderates the association between insulin resistance and increased CSF tau levels. Neurobiology of Aging, 2022, 114, 38-48.	1.5	5
157	The enemy within. The role played by immuno-stimulated macrophages in the pathogenesis of Insulin Dependant Diabetes Mellitus. Biochemical Society Transactions, 1997, 25, 368S-368S.	1.6	4
158	Complement Activation of Electrogenic Ion Transport in Isolated Rat Colon. Biochemical Pharmacology, 1997, 54, 1133-1137.	2.0	4
159	You, your children, your grandchildren, and their inflammatory responses are what you eat. Current Opinion in Clinical Nutrition and Metabolic Care, 2015, 18, 325-327.	1.3	4
160	Regulation of Superoxide Production in Human Polymorphonuclear Leukocytes(PMNs). Biochemical Society Transactions, 1997, 25, 366S-366S.	1.6	3
161	A Novel L-Arginine/L-Glutamine Coupling Hypothesis: Implications for Type 1 Diabetes. , 2011, , .		3
162	Î²-Cell Metabolism, Insulin Production and Secretion. , 2016, , 29-40.		3

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163	Use of virus-like particles as a native membrane model to study the interaction of insulin with the insulin receptor. Biochimica Et Biophysica Acta - Biomembranes, 2019, 1861, 1204-1212.	1.4	3
164	Serum Vitamin D status is associated with increased blastocyst development rate in women undergoing IVF. Reproductive BioMedicine Online, 2020, 41, 1101-1111.	1.1	3
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