Garth J S Cooper

List of Publications by Year in Descending Order

232 papers	12,197 citations	54 h-index	104 g-index
241 ext. papers	13,180 ext. citations	5.4 avg, IF	5.87 L-index

#	Paper	IF	Citations
232	Contrasting Sodium and Potassium Perturbations in the Hippocampus Indicate Potential Na/K-ATPase Dysfunction in Vascular Dementia.. *Frontiers in Aging Neuroscience*, **2022**, 14, 822787	5.3	0
231	Vesiculin derived from IGF-II drives increased islet cell mass in a mouse model of pre-diabetes. *Islets* , **2022**, 14, 14-22	2	
230	Pancreas Fat, an Early Marker of Metabolic Risk? A Magnetic Resonance Study of Chinese and Caucasian Women: TOFI_Asia Study.. *Frontiers in Physiology*, **2022**, 13, 819606	4.6	0
229	Mechanisms Underlying the Antidiabetic Activities of Polyphenolic Compounds: A Review.. *Frontiers in Pharmacology*, **2021**, 12, 798329	5.6	3
228	Severe and Regionally Widespread Increases in Tissue Urea in the Human Brain Represent a Novel Finding of Pathogenic Potential in Parkinson's Disease Dementia. *Frontiers in Molecular Neuroscience*, **2021**, 14, 711396	6.1	1
227	Widespread Decreases in Cerebral Copper Are Common to Parkinson's Disease Dementia and Alzheimer's Disease Dementia. *Frontiers in Aging Neuroscience*, **2021**, 13, 641222	5.3	5
226	Widespread severe cerebral elevations of haptoglobin and haemopexin in sporadic Alzheimer's disease: Evidence for a pervasive microvasculopathy. *Biochemical and Biophysical Research Communications*, **2021**, 555, 89-94	3.4	0
225	Untargeted metabolomics reveals plasma metabolites predictive of ectopic fat in pancreas and liver as assessed by magnetic resonance imaging: the TOFI_Asia study. *International Journal of Obesity*, **2021**, 45, 1844-1854	5.5	2
224	A Multi-Omic Huntington's Disease Transgenic Sheep-Model Database for Investigating Disease Pathogenesis. *Journal of Huntington's Disease*, **2021**, 10, 423-434	1.9	1
223	Effects of Alterations of Post-Mortem Delay and Other Tissue-Collection Variables on Metabolite Levels in Human and Rat Brain. *Metabolites*, **2020**, 10,	5.6	1
222	Evidence that levels of nine essential metals in post-mortem human-Alzheimer's-brain and ex vivo rat-brain tissues are unaffected by differences in post-mortem delay, age, disease staging, and brain bank location. *Metallomics*, **2020**, 12, 952-962	4.5	8
221	Cerebral deficiency of vitamin B5 (d-pantothenic acid; pantothenate) as a potentially-reversible cause of neurodegeneration and dementia in sporadic Alzheimer's disease. *Biochemical and Biophysical Research Communications*, **2020**, 527, 676-681	3.4	14
220	Intravitreal Pharmacokinetic Study of the Antiangiogenic Glycoprotein Opticin. *Molecular Pharmaceutics*, **2020**, 17, 2390-2397	5.6	1
219	Restoration of myocellular copper-trafficking proteins and mitochondrial copper enzymes repairs cardiac function in rats with diabetes-evoked heart failure. *Metallomics*, **2020**, 12, 259-272	4.5	5
218	Vitamin B5 (d-pantothenic acid) localizes in myelinated structures of the rat brain: Potential role for cerebral vitamin B5 stores in local myelin homeostasis. *Biochemical and Biophysical Research Communications*, **2020**, 522, 220-225	3.4	21
217	Shared perturbations in the metallome and metabolome of Alzheimer's, Parkinson's, Huntington's, and dementia with Lewy bodies: A systematic review. *Ageing Research Reviews*, **2020**, 63, 101152	12	10
216	Metabolomic signatures for visceral adiposity and dysglycaemia in Asian Chinese and Caucasian European adults: the cross-sectional TOFI_Asia study. *Nutrition and Metabolism*, **2020**, 17, 95	4.6	3

215	Cognitive dysfunction in diabetic rats is prevented by pyridoxamine treatment. A multidisciplinary investigation. *Molecular Metabolism*, **2019**, 28, 107-119	8.8	15
214	Regional protein expression in human Alzheimer's brain correlates with disease severity. *Communications Biology*, **2019**, 2, 43	6.7	79
213	Glucoregulatory activity of vesiculin in insulin sensitive and resistant mice. *Peptides*, **2019**, 116, 1-7	3.8	1
212	Cerebral Vitamin B5 (D-Pantothenic Acid) Deficiency as a Potential Cause of Metabolic Perturbation and Neurodegeneration in Huntington's Disease. *Metabolites*, **2019**, 9,	5.6	26
211	Tissue-Specific Sample Dilution: An Important Parameter to Optimise Prior to Untargeted LC-MS Metabolomics. *Metabolites*, **2019**, 9,	5.6	7
210	Altered metabolic gene expression in the brain of a triprolyl-human amylin transgenic mouse model of type 2 diabetes. *Scientific Reports*, **2019**, 9, 14588	4.9	1
209	Plasma metals as potential biomarkers in dementia: a case-control study in patients with sporadic Alzheimer's disease. *BioMetals*, **2018**, 31, 267-276	3.4	8
208	Quantitative data describing the impact of the flavonol rutin on in-vivo blood-glucose and fluid-intake profiles, and survival of human-amylin transgenic mice. *Data in Brief*, **2017**, 10, 298-303	1.2	1
207	Incorporation of 'click' chemistry glycomimetics dramatically alters triple-helix stability in an adiponectin model peptide. *Organic and Biomolecular Chemistry*, **2017**, 15, 5602-5608	3.9	3
206	Evidence for widespread, severe brain copper deficiency in Alzheimer's dementia. *Metallomics*, **2017**, 9, 1106-1119	4.5	47
205	Brain urea increase is an early Huntington's disease pathogenic event observed in a prodromal transgenic sheep model and HD cases. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E11293-E11302	11.5	43
204	Complex formation equilibria of Cu and Zn with Irbesartan and Losartan. *European Journal of Pharmaceutical Sciences*, **2017**, 97, 158-169	5.1	6
203	Rutin suppresses human-amylin/hIAPP misfolding and oligomer formation in-vitro, and ameliorates diabetes and its impacts in human-amylin/hIAPP transgenic mice. *Biochemical and Biophysical Research Communications*, **2017**, 482, 625-631	3.4	19
202	Metabolic Dysfunction Is Restricted to the Sciatic Nerve in Experimental Diabetic Neuropathy. *Diabetes*, **2016**, 65, 228-38	0.9	56
201	Harmine Induces Adipocyte Thermogenesis through RAC1-MEK-ERK-CHD4 Axis. *Scientific Reports*, **2016**, 6, 36382	4.9	11
200	Metabolite mapping reveals severe widespread perturbation of multiple metabolic processes in Huntington's disease human brain. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2016**, 1862, 1650-62	6.9	27
199	Graded perturbations of metabolism in multiple regions of human brain in Alzheimer's disease: Snapshot of a pervasive metabolic disorder. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2016**, 1862, 1084-92	6.9	85
198	Integrity of the Human Faecal Microbiota following Long-Term Sample Storage. *PLoS ONE*, **2016**, 11, e0163666	3.7	27

197	Elevation of brain glucose and polyol-pathway intermediates with accompanying brain-copper deficiency in patients with Alzheimer's disease: metabolic basis for dementia. *Scientific Reports*, **2016**, 6, 27524	4.9	46
196	Misrepresentation of the National Women's Hospital in Auckland, New Zealand. *American Journal of Public Health*, **2016**, 106, 1208-9	5.1	2
195	Thalamic amplification of sensory input in experimental diabetes. *European Journal of Neuroscience*, **2016**, 44, 1779-86	3.5	9
194	Abnormalities of selenium but not of copper homeostasis may drive tissue fibrosis in patients with systemic sclerosis. *Rheumatology*, **2015**, 54, 747-8	3.9	4
193	Diabetes-induced alterations in tissue collagen and carboxymethyllysine in rat kidneys: Association with increased collagen-degrading proteinases and amelioration by Cu(II)-selective chelation. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2015**, 1852, 1610-8	6.9	14
192	Low-dose copper infusion into the coronary circulation induces acute heart failure in diabetic rats: New mechanism of heart disease. *Biochemical Pharmacology*, **2015**, 97, 62-76	6	3
191	Modelling atherosclerosis by proteomics: Molecular changes in the ascending aortas of cholesterol-fed rabbits. *Atherosclerosis*, **2015**, 242, 268-76	3.1	9
190	Deficient copper concentrations in dried-defatted hepatic tissue from ob/ob mice: A potential model for study of defective copper regulation in metabolic liver disease. *Biochemical and Biophysical Research Communications*, **2015**, 460, 549-54	3.4	21
189	Conversion of non-adipogenic fibroblasts into adipocytes by a defined hormone mixture. *Biochemical Journal*, **2015**, 467, 487-94	3.8	4
188	Adiponectin induces A20 expression in adipose tissue to confer metabolic benefit. *Diabetes*, **2015**, 64, 128-36	0.9	24
187	Essential roles of insulin, AMPK signaling and lysyl and prolyl hydroxylases in the biosynthesis and multimerization of adiponectin. *Molecular and Cellular Endocrinology*, **2015**, 399, 164-77	4.4	11
186	Using mass spectrometry to detect, differentiate, and semiquantitate closely related peptide hormones in complex milieu: measurement of IGF-II and vesiculin. *Endocrinology*, **2015**, 156, 1194-9	4.8	2
185	Replacement of the CysA7-CysB7 disulfide bond with a 1,2,3-triazole linker causes unfolding in insulin glargine. *Organic and Biomolecular Chemistry*, **2015**, 13, 4059-63	3.9	30
184	On the structure of the copper□amylin complex. *International Journal of Mass Spectrometry*, **2015**, 391, 47-53	1.9	12
183	Glicentin-related pancreatic polypeptide inhibits glucose-stimulated insulin secretion from the isolated pancreas of adult male rats. *Physiological Reports*, **2015**, 3, e12638	2.6	11
182	Identification of elevated urea as a severe, ubiquitous metabolic defect in the brain of patients with Huntington's disease. *Biochemical and Biophysical Research Communications*, **2015**, 468, 161-6	3.4	39
181	Physicochemical studies on the copper(II) binding by glycated collagen telopeptides. *Organic and Biomolecular Chemistry*, **2015**, 13, 3058-63	3.9	10
180	A new strategy for MS/MS data acquisition applying multiple data dependent experiments on Orbitrap mass spectrometers in non-targeted metabolomic applications. *Metabolomics*, **2015**, 11, 1068-1080	4.7	37

179	Site-specific cross-linking of collagen peptides by lysyl advanced glycation endproducts. *Chemical Communications*, **2014**, 50, 4944-6	5.8	13
178	The pathogenic mechanism of diabetes varies with the degree of overexpression and oligomerization of human amylin in the pancreatic islet β cells. *FASEB Journal*, **2014**, 28, 5083-96	0.9	35
177	α-Calcitonin gene related peptide (α-CGRP) mediated lipid mobilization in 3T3-L1 adipocytes. *Peptides*, **2014**, 58, 14-9	3.8	9
176	Expedient Synthesis of Peptides Containing N ε-Carboxymethyllysine. *Synlett*, **2014**, 25, 1835-1838	2.2	2
175	Diabetic cardiomyopathy is associated with defective myocellular copper regulation and both defects are rectified by divalent copper chelation. *Cardiovascular Diabetology*, **2014**, 13, 100	8.7	42
174	Evidence that multiple defects in lipid regulation occur before hyperglycemia during the prodrome of type-2 diabetes. *PLoS ONE*, **2014**, 9, e103217	3.7	28
173	Treatment with a copper-selective chelator causes substantive improvement in cardiac function of diabetic rats with left-ventricular impairment. *Cardiovascular Diabetology*, **2013**, 12, 28	8.7	24
172	Synthesis of stable isotope-labelled monolysyl advanced glycation endproducts. *Amino Acids*, **2013**, 45, 319-25	3.5	6
171	Protection of the heart by treatment with a divalent-copper-selective chelator reveals a novel mechanism underlying cardiomyopathy in diabetic rats. *Cardiovascular Diabetology*, **2013**, 12, 123	8.7	28
170	Complex formation equilibria of Cu(II) and Zn(II) with triethylenetetramine and its mono- and di-acetyl metabolites. *Dalton Transactions*, **2013**, 42, 6161-70	4.3	41
169	Synthesis of the IGF-II-like hormone vesiculin using regioselective formation of disulfide bonds. *Organic and Biomolecular Chemistry*, **2013**, 11, 3145-50	3.9	10
168	A label-free selected reaction monitoring workflow identifies a subset of pregnancy specific glycoproteins as potential predictive markers of early-onset pre-eclampsia. *Molecular and Cellular Proteomics*, **2013**, 12, 3148-59	7.6	39
167	Proteomic analysis of the human brain in Huntington's Disease indicates pathogenesis by molecular processes linked to other neurodegenerative diseases and to type-2 diabetes. *Journal of Huntington's Disease*, **2013**, 2, 89-99	1.9	14
166	Synthesis, crystal structure, and protonation behaviour in solution of the recently-discovered drug metabolite, N1,N10-diacetyltriethylenetetramine. *Journal of Molecular Structure*, **2012**, 1012, 37-42	3.4	2
165	Synthesis of glycosylated 5-hydroxylysine, an important amino acid present in collagen-like proteins such as adiponectin. *Organic and Biomolecular Chemistry*, **2012**, 10, 1137-44	3.9	20
164	Synthesis of monolysyl advanced glycation endproducts and their incorporation into collagen model peptides. *Organic Letters*, **2012**, 14, 5740-3	6.2	22
163	Plasma clusterin increased prior to small for gestational age (SGA) associated with preeclampsia and decreased prior to SGA in normotensive pregnancies. *Reproductive Sciences*, **2012**, 19, 650-7	3	9
162	3,12-Diaza-6,9-diazo-nia-2,13-dioxotetra-decane bis-(perchlorate). *Acta Crystallographica Section E: Structure Reports Online*, **2012**, 68, o333-4		

161	Therapeutic potential of copper chelation with triethylenetetramine in managing diabetes mellitus and Alzheimer's disease. *Drugs*, **2011**, 71, 1281-320	12.1	62
160	Early organ-specific mitochondrial dysfunction of jejunum and lung found in rats with experimental acute pancreatitis. *Hpb*, **2011**, 13, 332-41	3.8	16
159	A simple and rapid method for identifying and semi-quantifying peptide hormones in isolated pancreatic islets by direct-tissue matrix-assisted laser desorption ionization time-of-flight mass spectrometry. *Rapid Communications in Mass Spectrometry*, **2011**, 25, 3387-95	2.2	8
158	A unique case of neural amyloidoma diagnosed by mass spectrometry of formalin-fixed tissue using a novel preparative technique. *Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis*, **2011**, 18, 147-55	2.7	3
157	Proteomic Analysis of the Pancreatic Islet CellSecretory Granule: Current Understanding and Future Opportunities **2011**, 327-362		1
156	Robust early pregnancy prediction of later preeclampsia using metabolomic biomarkers. *Hypertension*, **2010**, 56, 741-9	8.5	215
155	Mice lacking the neuropeptide alpha-calcitonin gene-related peptide are protected against diet-induced obesity. *Endocrinology*, **2010**, 151, 4257-69	4.8	56
154	Pharmacokinetics, pharmacodynamics, and metabolism of triethylenetetramine in healthy human participants: an open-label trial. *Journal of Clinical Pharmacology*, **2010**, 50, 647-58	2.9	19
153	Tetracycline treatment retards the onset and slows the progression of diabetes in human amylin/islet amyloid polypeptide transgenic mice. *Diabetes*, **2010**, 59, 161-71	0.9	44
152	A novel two-chain IGF-II-derived peptide from purified cell granules. *Growth Hormone and IGF Research*, **2010**, 20, 360-6	2	7
151	The chaperone proteins HSP70, HSP40/DnaJ and GRP78/BiP suppress misfolding and formation of sheet-containing aggregates by human amylin: a potential role for defective chaperone biology in Type 2 diabetes. *Biochemical Journal*, **2010**, 432, 113-21	3.8	37
150	Changes in the mesenteric lymph proteome induced by hemorrhagic shock. *Shock*, **2010**, 34, 140-9	3.4	27
149	Copper(II)-selective chelation improves function and antioxidant defences in cardiovascular tissues of rats as a model of diabetes: comparisons between triethylenetetramine and three less copper-selective transition-metal-targeted treatments. *Diabetologia*, **2010**, 53, 1217-26	10.3	30
148	Is type 2 diabetes an amyloidosis and does it really matter (to patients)?. *Diabetologia*, **2010**, 53, 1011-6	10.3	23
147	Illuminating the molecular basis of diabetic arteriopathy: a proteomic comparison of aortic tissue from diabetic and healthy rats. *Proteomics*, **2010**, 10, 3367-78	4.8	8
146	The redox status of experimental hemorrhagic shock as measured by cyclic voltammetry. *Shock*, **2010**, 33, 460-6	3.4	11
145	Adiponectin haploinsufficiency promotes mammary tumor development in MMTV-PyVT mice by modulation of phosphatase and tensin homolog activities. *PLoS ONE*, **2009**, 4, e4968	3.7	62
144	Pharmacokinetic and pharmacodynamic modeling of a copper-selective chelator (TETA) in healthy adults. *Journal of Clinical Pharmacology*, **2009**, 49, 916-28	2.9	19

143	Aberrant processing of plasma vitronectin and high-molecular-weight kininogen precedes the onset of preeclampsia. *Reproductive Sciences*, **2009**, 16, 1144-52	3	12
142	An altered pattern of circulating apolipoprotein E3 isoforms is implicated in preeclampsia. *Journal of Lipid Research*, **2009**, 50, 71-80	6.3	37
141	A copper(II)-selective chelator ameliorates left-ventricular hypertrophy in type 2 diabetic patients: a randomised placebo-controlled study. *Diabetologia*, **2009**, 52, 715-22	10.3	54
140	A proteomic approach identifies early pregnancy biomarkers for preeclampsia: novel linkages between a predisposition to preeclampsia and cardiovascular disease. *Proteomics*, **2009**, 9, 2929-45	4.8	80
139	Quantitative proteomic profiling identifies new renal targets of copper(II)-selective chelation in the reversal of diabetic nephropathy in rats. *Proteomics*, **2009**, 9, 4309-20	4.8	30
138	Impaired ATP turnover and ADP supply depress cardiac mitochondrial respiration and elevate superoxide in nonfailing spontaneously hypertensive rat hearts. *American Journal of Physiology - Cell Physiology*, **2009**, 297, C766-74	5.4	25
137	Proteins associated with immunopurified granules from a model pancreatic islet beta-cell system: proteomic snapshot of an endocrine secretory granule. *Journal of Proteome Research*, **2009**, 8, 178-86	5.6	35
136	Coordination of mammary metabolism and blood flow after refeeding in rats. *Journal of Dairy Science*, **2009**, 92, 1543-53	4	3
135	No evidence of an effect of alterations in dietary fatty acids on fasting adiponectin over 3 weeks. *Obesity*, **2008**, 16, 592-9	8	20
134	Three-colour fluorescence immunohistochemistry reveals the diversity of cells staining for macrophage markers in murine spleen and liver. *Journal of Immunological Methods*, **2008**, 334, 70-81	2.5	53
133	Acute pancreatitis severity is exacerbated by intestinal ischemia-reperfusion conditioned mesenteric lymph. *Surgery*, **2008**, 143, 404-13	3.6	17
132	Postprandial response of adiponectin, interleukin-6, tumor necrosis factor-alpha, and C-reactive protein to a high-fat dietary load. *Nutrition*, **2008**, 24, 322-9	4.8	85
131	BS4-A Applications of proteomics in diabetes: route to new and improved understanding of disease mechanisms and the generation of new therapeutic approaches. *Diabetes Research and Clinical Practice*, **2008**, 79, S5	7.4	
130	Fas-associated death receptor signaling evoked by human amylin in islet beta-cells. *Diabetes*, **2008**, 57, 348-56	0.9	53
129	Spontaneous diabetes in hemizygous human amylin transgenic mice that developed neither islet amyloid nor peripheral insulin resistance. *Diabetes*, **2008**, 57, 2737-44	0.9	24
128	The proteome of rodent mesenteric lymph. *American Journal of Physiology - Renal Physiology*, **2008**, 295, G895-903	5.1	28
127	Evidence that alpha-calcitonin gene-related peptide is a neurohormone that controls systemic lipid availability and utilization. *Endocrinology*, **2008**, 149, 154-60	4.8	28
126	Altered calcium homeostasis does not explain the contractile deficit of diabetic cardiomyopathy. *Diabetes*, **2008**, 57, 2158-66	0.9	43

125	Mapping of the ATP-binding domain of human fructosamine 3-kinase-related protein by affinity labelling with 5'-[p-(fluorosulfonyl)benzoyl]adenosine. *Biochemical Journal*, **2008**, 416, 281-8	3.8	10
124	Redox status of acute pancreatitis as measured by cyclic voltammetry: initial rodent studies to assess disease severity. *Critical Care Medicine*, **2008**, 36, 866-72	1.4	34
123	A copper(II)-selective chelator ameliorates diabetes-evoked renal fibrosis and albuminuria, and suppresses pathogenic TGF-beta activation in the kidneys of rats used as a model of diabetes. *Diabetologia*, **2008**, 51, 1741-51	10.3	44
122	Is the failing heart out of fuel or a worn engine running rich? A study of mitochondria in old spontaneously hypertensive rats. *Proteomics*, **2008**, 8, 2556-72	4.8	66
121	Characterization of Dicarboxylic Salts of Protonated Triethylenetetramine Useful for the Treatment of Copper-Related Pathologies *Crystal Growth and Design*, **2007**, 7, 1844-1850	3.5	14
120	Determination of triethylenetetramine (TETA) and its metabolites in human plasma and urine by liquid chromatography-mass spectrometry (LC-MS). *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2007**, 859, 62-8	3.2	19
119	Development and validation of a rapid HPLC method for the simultaneous determination of triethylenetetramine and its two main metabolites in human serum. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2007**, 860, 42-8	3.2	10
118	Direct visualisation of peptide hormones in cultured pancreatic islet alpha- and beta-cells by intact-cell mass spectrometry. *Rapid Communications in Mass Spectrometry*, **2007**, 21, 3452-8	2.2	17
117	Reversal of diabetes-evoked changes in mitochondrial protein expression of cardiac left ventricle by treatment with a copper(II)-selective chelator. *Proteomics - Clinical Applications*, **2007**, 1, 387-99	3.1	18
116	Characterization of proteomic changes in cardiac mitochondria in streptozotocin-diabetic rats using iTRAQ isobaric tags. *Proteomics - Clinical Applications*, **2007**, 1, 565-76	3.1	33
115	Preptin, another peptide product of the pancreatic beta-cell, is osteogenic in vitro and in vivo. *American Journal of Physiology - Endocrinology and Metabolism*, **2007**, 292, E117-22	6	60
114	Triethylenetetramine and metabolites: levels in relation to copper and zinc excretion in urine of healthy volunteers and type 2 diabetic patients. *Drug Metabolism and Disposition*, **2007**, 35, 221-7	4	28
113	Transcriptomic analysis of the cardiac left ventricle in a rodent model of diabetic cardiomyopathy: molecular snapshot of a severe myocardial disease. *Physiological Genomics*, **2007**, 28, 284-93	3.6	22
112	Proteomic analysis of whey and casein proteins in early milk from the marsupial Trichosurus vulpecula, the common brushtail possum. *Comparative Biochemistry and Physiology Part D: Genomics and Proteomics*, **2007**, 2, 112-20	2	12
111	Adiponectin modulates the glycogen synthase kinase-3beta/beta-catenin signaling pathway and attenuates mammary tumorigenesis of MDA-MB-231 cells in nude mice. *Cancer Research*, **2006**, 66, 11462-70	10.1	227
110	Peripherally administered desacetyl alpha-MSH and alpha-MSH both influence postnatal rat growth and associated rat hypothalamic protein expression. *American Journal of Physiology - Endocrinology and Metabolism*, **2006**, 291, E1372-80	6	2
109	Molecular changes evoked by triethylenetetramine treatment in the extracellular matrix of the heart and aorta in diabetic rats. *Molecular Pharmacology*, **2006**, 70, 2045-51	4.3	35
108	Crystal structure of a substrate complex of myo-inositol oxygenase, a di-iron oxygenase with a key role in inositol metabolism. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 15032-7	11.5	77

107	Post-translational modifications of the four conserved lysine residues within the collagenous domain of adiponectin are required for the formation of its high molecular weight oligomeric complex. *Journal of Biological Chemistry*, **2006**, 281, 16391-400	5.4	193
106	Purification, crystallization and preliminary crystallographic analysis of mouse myo-inositol oxygenase. *Acta Crystallographica Section F: Structural Biology Communications*, **2006**, 62, 811-3		10
105	Human colostrum: identification of minor proteins in the aqueous phase by proteomics. *Proteomics*, **2006**, 6, 2208-16	4.8	79
104	Characterization of bovine seminal plasma by proteomics. *Proteomics*, **2006**, 6, 5826-33	4.8	58
103	Proteomic characterization of human serum proteins associated with the fat-derived hormone adiponectin. *Proteomics*, **2006**, 6, 3862-70	4.8	49
102	The aggregation potential of human amylin determines its cytotoxicity towards islet beta-cells. *FEBS Journal*, **2006**, 273, 3614-24	5.7	185
101	Activation of activating transcription factor 2 by p38 MAP kinase during apoptosis induced by human amylin in cultured pancreatic beta-cells. *FEBS Journal*, **2006**, 273, 3779-91	5.7	31
100	Fates intertwined. *Nature Biotechnology*, **2006**, 24, 252-4	44.5	1
99	Effect of high-fat meals and fatty acid saturation on postprandial levels of the hormones ghrelin and leptin in healthy men. *European Journal of Clinical Nutrition*, **2006**, 60, 77-84	5.2	40
98	Thiol reducing compounds prevent human amylin-evoked cytotoxicity. *FEBS Journal*, **2005**, 272, 4949-59	5.7	43
97	Insulin resistance in the Zucker diabetic fatty rat: a metabolic characterisation of obese and lean phenotypes. *Acta Diabetologica*, **2005**, 42, 162-70	3.9	72
96	Adiponectin inhibits cell proliferation by interacting with several growth factors in an oligomerization-dependent manner. *Journal of Biological Chemistry*, **2005**, 280, 18341-7	5.4	292
95	Testosterone selectively reduces the high molecular weight form of adiponectin by inhibiting its secretion from adipocytes. *Journal of Biological Chemistry*, **2005**, 280, 18073-80	5.4	311
94	Demonstration of a hyperglycemia-driven pathogenic abnormality of copper homeostasis in diabetes and its reversibility by selective chelation: quantitative comparisons between the biology of copper and eight other nutritionally essential elements in normal and diabetic individuals. *Diabetes*, **2005**, 54, 1468-74	0.9	78
93	Regeneration of the heart in diabetes by selective copper chelation. *Diabetes*, **2004**, 53, 2501-8	0.9	121
92	Effect of moderate changes in dietary fatty acid profile on postprandial lipaemia, haemostatic and related CVD risk factors in healthy men. *European Journal of Clinical Nutrition*, **2004**, 58, 819-27	5.2	17
91	Human amylin oligomer growth and fibril elongation define two distinct phases in amyloid formation. *Journal of Biological Chemistry*, **2004**, 279, 12206-12	5.4	127
90	Proteomic analysis of adipocyte differentiation: Evidence that alpha2 macroglobulin is involved in the adipose conversion of 3T3 L1 preadipocytes. *Proteomics*, **2004**, 4, 1840-8	4.8	27

89	Proteomic and functional characterization of endogenous adiponectin purified from fetal bovine serum. *Proteomics*, **2004**, 4, 3933-42	4.8	66
88	Chronic treatment with growth hormone stimulates adiponectin gene expression in 3T3-L1 adipocytes. *FEBS Letters*, **2004**, 572, 129-34	3.8	25
87	GSK3 involvement in amylin signaling in isolated rat soleus muscle. *Peptides*, **2004**, 25, 2119-25	3.8	3
86	Atomic force microscopy reveals defects within mica supported lipid bilayers induced by the amyloidogenic human amylin peptide. *Journal of Molecular Biology*, **2004**, 342, 877-87	6.5	134
85	The fat-derived hormone adiponectin alleviates alcoholic and nonalcoholic fatty liver diseases in mice. *Journal of Clinical Investigation*, **2003**, 112, 91-100	15.9	890
84	Suppression by polycyclic compounds of the conversion of human amylin into insoluble amyloid. *Biochemical Journal*, **2003**, 374, 779-84	3.8	65
83	Integrin shedding as a mechanism of cellular adaptation during cardiac growth. *American Journal of Physiology - Heart and Circulatory Physiology*, **2003**, 284, H2227-34	5.2	32
82	Amylin gene promoter mutations predispose to Type 2 diabetes in New Zealand Maori. *Diabetologia*, **2003**, 46, 574-8	10.3	22
81	Hepatocyte nuclear factor 1 negatively regulates amylin gene expression. *Biochemical and Biophysical Research Communications*, **2003**, 310, 464-9	3.4	2
80	Full-length rat amylin forms fibrils following substitution of single residues from human amylin. *Journal of Molecular Biology*, **2003**, 326, 1147-56	6.5	113
79	Fibrillogenic amylin evokes islet beta-cell apoptosis through linked activation of a caspase cascade and JNK1. *Journal of Biological Chemistry*, **2003**, 278, 52810-9	5.4	84
78	The fat-derived hormone adiponectin alleviates alcoholic and nonalcoholic fatty liver diseases in mice. *Journal of Clinical Investigation*, **2003**, 112, 91-100	15.9	394
77	Gall bladder cancer, extrahepatic bile duct cancer and ampullary carcinoma in New Zealand: Demographics, pathology and survival. *ANZ Journal of Surgery*, **2002**, 72, 857-61	1	14
76	Ethnic disparity of pancreatic cancer in New Zealand. *International Journal of Gastrointestinal Cancer*, **2002**, 31, 137-45		17
75	Lipid-lowering effects of a modified butter-fat: a controlled intervention trial in healthy men. *European Journal of Clinical Nutrition*, **2002**, 56, 64-71	5.2	53
74	Hydroxylation and glycosylation of the four conserved lysine residues in the collagenous domain of adiponectin. Potential role in the modulation of its insulin-sensitizing activity. *Journal of Biological Chemistry*, **2002**, 277, 19521-9	5.4	244
73	Combined endopeptidase inhibition and adrenomedullin in sheep with experimental heart failure. *Hypertension*, **2002**, 39, 93-8	8.5	40
72	Combined angiotensin-converting enzyme inhibition and adrenomedullin in an ovine model of heart failure. *Clinical Science*, **2002**, 102, 653-660	6.5	16

71	Combined angiotensin-converting enzyme inhibition and adrenomedullin in an ovine model of heart failure. *Clinical Science*, **2002**, 102, 653	6.5	5
70	Identification of novel putative membrane proteins selectively expressed during adipose conversion of 3T3-L1 cells. *Biochemical and Biophysical Research Communications*, **2002**, 293, 1161-7	3.4	45
69	Increased expression and activation of c-Jun contributes to human amylin-induced apoptosis in pancreatic islet beta-cells. *Journal of Molecular Biology*, **2002**, 324, 271-85	6.5	56
68	Amylin evokes protein p20 phosphorylation and insulin resistance in rat skeletal muscle extensor digitorum longus. *Science in China Series C: Life Sciences*, **2002**, 45, 159-65		1
67	Preptin derived from proinsulin-like growth factor II (proIGF-II) is secreted from pancreatic islet beta-cells and enhances insulin secretion. *Biochemical Journal*, **2001**, 360, 431-9	3.8	46
66	Preptin derived from proinsulin-like growth factor II (proIGF-II) is secreted from pancreatic islet cells and enhances insulin secretion. *Biochemical Journal*, **2001**, 360, 431-439	3.8	77
65	Ultrastructural evidence that apoptosis is the mechanism by which human amylin evokes death in RINm5F pancreatic islet beta-cells. *Cell Biology International*, **2001**, 25, 339-50	4.5	62
64	Identification and characterization of a bovine myosin light chain-1 fast polymorphism. *Proteomics*, **2001**, 1, 1495-502	4.8	5
63	Proteomic analysis of the brain in Alzheimer's disease: molecular phenotype of a complex disease process. *Proteomics*, **2001**, 1, 1519-28	4.8	161
62	Systemic administration of adrenomedullin(27-52) increases bone volume and strength in male mice. *Journal of Endocrinology*, **2001**, 170, 251-7	4.7	28
61	Alteration in phosphorylation of P20 is associated with insulin resistance. *Diabetes*, **2001**, 50, 1821-7	0.9	26
60	Plasma amylin concentration is related to the severity of intestinal ischemic injury in rats. *Surgery*, **2001**, 129, 730-5	3.6	8
59	Effects of calcitonin, amylin, and calcitonin gene-related peptide on osteoclast development. *Bone*, **2001**, 29, 162-8	4.7	133
58	A method using laser Doppler flowmetry to study intestinal and pancreatic perfusion during an acute intestinal ischaemic injury in rats with pancreatitis. *European Surgical Research*, **2001**, 33, 361-9	1.1	9
57	Evidence that amylin stimulates lipolysis in vivo: a possible mediator of induced insulin resistance. *American Journal of Physiology - Endocrinology and Metabolism*, **2001**, 280, E562-9	6	18
56	Amylin and Related Proteins: Physiology and Pathophysiology **2001**, 303-396		
55	Synthesis of biologically active tritiated amylin and salmon calcitonin analogues. *Analytical Biochemistry*, **2000**, 285, 100-4	3.1	2
54	Comparative proteome analysis of the hippocampus implicates chromosome 6q in schizophrenia. *Molecular Psychiatry*, **2000**, 5, 85-90	15.1	78

53	Determination of protein for studies of marine herbivory: a comparison of methods. *Journal of Experimental Marine Biology and Ecology*, **2000**, 244, 45-65	2.1	30
52	Systemic administration of a novel octapeptide, amylin-(1---8), increases bone volume in male mice. *American Journal of Physiology - Endocrinology and Metabolism*, **2000**, 279, E730-5	6	25
51	Amyloid fibril formation from full-length and fragments of amylin. *Journal of Structural Biology*, **2000**, 130, 352-62	3.4	288
50	Amyloid-like inclusions in Huntington's disease. *Neuroscience*, **2000**, 100, 677-80	3.9	83
49	Adrenomedullin attenuates pressor response to angiotensin II in conscious sheep. *Journal of Cardiovascular Pharmacology*, **2000**, 36, 526-32	3.1	15
48	Amylin and severe acute pancreatitis. *Pancreas*, **2000**, 20, 105-6	2.6	9
47	Intestinal ischaemia-reperfusion increases plasma amylin concentration in rats. *European Surgical Research*, **1999**, 31, 457-64	1.1	3
46	A comparative proteome analysis of hippocampal tissue from schizophrenic and Alzheimer's disease individuals. *Molecular Psychiatry*, **1999**, 4, 173-8	15.1	72
45	Comparison of the effects of calcitonin gene-related peptide and amylin on osteoblasts. *Journal of Bone and Mineral Research*, **1999**, 14, 1302-9	6.3	90
44	Proteome map of the human hippocampus. *Hippocampus*, **1999**, 9, 644-50	3.5	27
43	Induction of apoptosis by human amylin in RINm5F islet beta-cells is associated with enhanced expression of p53 and p21WAF1/CIP1. *FEBS Letters*, **1999**, 455, 315-20	3.8	51
42	Amylin evokes phosphorylation of P20 in rat skeletal muscle. *FEBS Letters*, **1999**, 457, 149-52	3.8	4
41	Insulin and insulin antagonists evoke phosphorylation of P20 at serine 157 and serine 16 respectively in rat skeletal muscle. *FEBS Letters*, **1999**, 462, 25-30	3.8	23
40	Watching amyloid fibrils grow by time-lapse atomic force microscopy. *Journal of Molecular Biology*, **1999**, 285, 33-9	6.5	308
39	Role of Ca2+ in apoptosis evoked by human amylin in pancreatic islet ╫cells. *Biochemical Journal*, **1999**, 343, 53-61	3.8	42
38	Phosphorylation of P20 is associated with the actions of insulin in rat skeletal and smooth muscle. *Biochemical Journal*, **1999**, 344, 971-976	3.8	15
37	Phosphorylation of P20 is associated with the actions of insulin in rat skeletal and smooth muscle. *Biochemical Journal*, **1999**, 344, 971	3.8	7
36	Role of Ca2+ in apoptosis evoked by human amylin in pancreatic islet ╫cells. *Biochemical Journal*, **1999**, 343, 53	3.8	18

35	Therapeutic potential of human amylin analogues in diabetes mellitus. *BioDrugs*, **1998**, 10, 1-9	7.9	1
34	Hemodynamic, hormonal, and renal effects of intracerebroventricular adrenomedullin in conscious sheep. *Endocrinology*, **1998**, 139, 1746-51	4.8	27
33	Systemic administration of amylin increases bone mass, linear growth, and adiposity in adult male mice. *American Journal of Physiology - Endocrinology and Metabolism*, **1998**, 275, E694-9	6	46
32	Acute application of human amylin, unlike beta-amyloid peptides, kills undifferentiated PC12 cells by apoptosis. *NeuroReport*, **1997**, 8, 3945-50	1.7	17
31	Adrenomedullin: a hypotensive hormone in man. *Clinical Science*, **1997**, 92, 467-72	6.5	89
30	Polymorphic fibrillar assembly of human amylin. *Journal of Structural Biology*, **1997**, 119, 17-27	3.4	258
29	Beneficial hemodynamic and renal effects of adrenomedullin in an ovine model of heart failure. *Circulation*, **1997**, 96, 1983-90	16.7	84
28	Amylin, amyloid and age-related disease. *Drugs and Aging*, **1996**, 9, 202-12	4.7	6
27	Amylin stimulates osteoblast proliferation and increases mineralized bone volume in adult mice. *Biochemical and Biophysical Research Communications*, **1995**, 207, 133-9	3.4	109
26	A reappraisal of current hypotheses concerning the possible roles of amylin in physiology, pathology and therapeutics. *Clinical Science*, **1995**, 88, 7-12	6.5	5
25	Amylin compared with calcitonin gene-related peptide: structure, biology, and relevance to metabolic disease. *Endocrine Reviews*, **1994**, 15, 163-201	27.2	262
24	Nucleotide sequence of a cDNA for canine amylin. *Biochimica Et Biophysica Acta Gene Regulatory Mechanisms*, **1992**, 1130, 97-9		2
23	Synthesis and activity of human amylin and analogs **1992**, 441-442		2
22	Amylin secretion from the perfused pancreas: dissociation from insulin and abnormal elevation in insulin-resistant diabetic rats. *Biochemical and Biophysical Research Communications*, **1991**, 180, 782-9	3.4	45
21	Amylin and insulin co-replacement therapy for insulin-dependent (type I) diabetes mellitus. *Medical Hypotheses*, **1991**, 36, 284-8	3.8	22
20	Co-secretion of amylin and insulin from cultured islet beta-cells: modulation by nutrient secretagogues, islet hormones and hypoglycemic agents. *Biochemical and Biophysical Research Communications*, **1991**, 179, 1-9	3.4	134
19	Daily amylin replacement reverses hepatic glycogen depletion in insulin-treated streptozotocin diabetic rats. *FEBS Letters*, **1991**, 287, 203-5	3.8	20
18	Amylin activates glycogen phosphorylase in the isolated soleus muscle of the rat. *FEBS Letters*, **1991**, 281, 149-51	3.8	59

17	Amylin injection causes elevated plasma lactate and glucose in the rat. *FEBS Letters*, **1991**, 291, 101-4	3.8	59
16	8-37h-CGRP antagonizes actions of amylin on carbohydrate metabolism in vitro and in vivo. *FEBS Letters*, **1991**, 291, 195-8	3.8	40
15	The role of amylin in the insulin resistance of non-insulin-dependent diabetes mellitus. *Trends in Biochemical Sciences*, **1990**, 15, 295-9	10.3	37
14	Amylin hormone. *Nature*, **1989**, 340, 272	50.4	18
13	A possible mechanism of toxicity by the antidepressant amoxapine based on its effects in three in vitro models. *Toxicology in Vitro*, **1989**, 3, 285-91	3.6	3
12	Amylin and the amylin gene: structure, function and relationship to islet amyloid and to diabetes mellitus. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **1989**, 1014, 247-58	4.9	123
11	Calcitonin gene-related peptide-1 (CGRP-1) is a potent regulator of glycogen metabolism in rat skeletal muscle. *FEBS Letters*, **1989**, 249, 357-61	3.8	36
10	The amylin superfamily: a novel grouping of biologically active polypeptides related to the insulin A-chain. *Progress in Growth Factor Research*, **1989**, 1, 99-105		22
9	Effects of rat calcitonin-gene-related peptide-1 on cyclic AMP levels in skeletal muscle of the rat. *Biochemical Society Transactions*, **1989**, 17, 511-512	5.1	1
8	Pancreatic amylin and calcitonin gene-related peptide cause resistance to insulin in skeletal muscle in vitro. *Nature*, **1988**, 335, 632-5	50.4	441
7	Biochemical evidence that high concentrations of the antidepressant amoxapine may cause inhibition of mitochondrial electron transport. *Toxicology and Applied Pharmacology*, **1988**, 93, 118-26	4.6	7
6	Calcitonin gene-related peptide and somatostatin inhibit insulin release from individual rat B cells. *Molecular and Cellular Endocrinology*, **1988**, 57, 41-9	4.4	42
5	Purification and characterization of a peptide from amyloid-rich pancreases of type 2 diabetic patients. *Proceedings of the National Academy of Sciences of the United States of America*, **1987**, 84, 8628-32	11.5	1139
4	Diabetes-associated peptide. *Lancet, The*, **1987**, 2, 966	40	22
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