

# Bronwen Martin

## List of Publications by Year in descending order

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122  
papers

9,819  
citations

41627

51  
h-index

42259

96  
g-index

123  
all docs

123  
docs citations

123  
times ranked

13947  
citing authors

#	ARTICLE	IF	CITATIONS
1	Systems Pharmacology: Enabling Multidimensional Therapeutics. , 2022, , 725-769.		1
2	Making Biomedical Sciences publications more accessible for machines. Medicine, Health Care and Philosophy, 2022, , 1.	0.9	2
3	The Relaxin-3 Receptor, RXFP3, Is a Modulator of Aging-Related Disease. International Journal of Molecular Sciences, 2022, 23, 4387.	1.8	7
4	Aging-related modifications to G protein-coupled receptor signaling diversity. , 2021, 223, 107793.		12
5	High-dimensionality Data Analysis of Pharmacological Systems Associated with Complex Diseases. Pharmacological Reviews, 2020, 72, 191-217.	7.1	17
6	Enhanced Molecular Appreciation of Psychiatric Disorders Through High-Dimensionality Data Acquisition and Analytics. Methods in Molecular Biology, 2019, 2011, 671-723.	0.4	13
7	Multidimensional informatic deconvolution defines gender-specific roles of hypothalamic GIT2 in aging trajectories. Mechanisms of Ageing and Development, 2019, 184, 111150.	2.2	9
8	G Protein-Coupled Receptor Systems and Their Role in Cellular Senescence. Computational and Structural Biotechnology Journal, 2019, 17, 1265-1277.	1.9	28
9	The RXFP3 receptor is functionally associated with cellular responses to oxidative stress and DNA damage. Aging, 2019, 11, 11268-11313.	1.4	10
10	GIT2â€”A keystone in ageing and age-related disease. Ageing Research Reviews, 2018, 43, 46-63.	5.0	29
11	Intelligent and effective informatic deconvolution of â€œBig Dataâ€”and its future impact on the quantitative nature of neurodegenerative disease therapy. Alzheimer's and Dementia, 2018, 14, 961-975.	0.4	33
12	Î²-Arrestin Based Receptor Signaling Paradigms: Potential Therapeutic Targets for Complex Age-Related Disorders. Frontiers in Pharmacology, 2018, 9, 1369.	1.6	75
13	GRK5 â€” A Functional Bridge Between Cardiovascular and Neurodegenerative Disorders. Frontiers in Pharmacology, 2018, 9, 1484.	1.6	19
14	G Protein-Coupled Receptor Systems as Crucial Regulators of DNA Damage Response Processes. International Journal of Molecular Sciences, 2018, 19, 2919.	1.8	26
15	Altered learning, memory, and social behavior in type 1 taste receptor subunit 3 knock-out mice are associated with neuronal dysfunction. Journal of Biological Chemistry, 2017, 292, 11508-11530.	1.6	20
16	Genomic deletion of GIT2 induces a premature age-related thymic dysfunction and systemic immune system disruption. Aging, 2017, 9, 706-740.	1.4	15
17	A randomized pilot study comparing zeroâ€”calorie alternateâ€”day fasting to daily caloric restriction in adults with obesity. Obesity, 2016, 24, 1874-1883.	1.5	214
18	Informatic deconvolution of biased GPCR signaling mechanisms from in vivo pharmacological experimentation. Methods, 2016, 92, 51-63.	1.9	33

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19	Human Obesity Associated with an Intronic SNP in the Brain-Derived Neurotrophic Factor Locus. <i>Cell Reports</i> , 2015, 13, 1073-1080.	2.9	64
20	Hippocampal Transcriptomic and Proteomic Alterations in the BTBR Mouse Model of Autism Spectrum Disorder. <i>Frontiers in Physiology</i> , 2015, 6, 324.	1.3	70
21	Nuclear GIT2 Is an ATM Substrate and Promotes DNA Repair. <i>Molecular and Cellular Biology</i> , 2015, 35, 1081-1096.	1.1	28
22	Amitriptyline Improves Motor Function via Enhanced Neurotrophin Signaling and Mitochondrial Functions in the Murine N171-82Q Huntington Disease Model. <i>Journal of Biological Chemistry</i> , 2015, 290, 2728-2743.	1.6	18
23	Delineation of a Conserved Arrestin-Biased Signaling Repertoire In Vivo. <i>Molecular Pharmacology</i> , 2015, 87, 706-717.	1.0	40
24	GIT2 Acts as a Systems-Level Coordinator of Neurometabolic Activity and Pathophysiological Aging. <i>Frontiers in Endocrinology</i> , 2015, 6, 191.	1.5	25
25	Higher TNF- $\alpha$ , IGF-1, and leptin levels are found in tasters than non-tasters. <i>Frontiers in Endocrinology</i> , 2014, 5, 125.	1.5	13
26	The effects of aging on the BTBR mouse model of autism spectrum disorder. <i>Frontiers in Aging Neuroscience</i> , 2014, 6, 225.	1.7	45
27	Systems-Level G Protein-Coupled Receptor Therapy Across a Neurodegenerative Continuum by the GLP-1 Receptor System. <i>Frontiers in Endocrinology</i> , 2014, 5, 142.	1.5	28
28	Metabolic and hormonal signatures in pre-manifest and manifest Huntington's disease patients. <i>Frontiers in Physiology</i> , 2014, 5, 231.	1.3	69
29	Longitudinal Analysis of Calorie Restriction on Rat Taste Bud Morphology and Expression of Sweet Taste Modulators. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2014, 69, 532-544.	1.7	13
30	Pharmacophore model of the quercetin binding site of the SIRT6 protein. <i>Journal of Molecular Graphics and Modelling</i> , 2014, 49, 38-46.	1.3	32
31	What Is the Role of Metabolic Hormones in Taste Buds of the Tongue. <i>Frontiers of Hormone Research</i> , 2014, 42, 134-146.	1.0	14
32	Toll-like receptors 2 and 4 modulate autonomic control of heart rate and energy metabolism. <i>Brain, Behavior, and Immunity</i> , 2014, 36, 90-100.	2.0	35
33	Metabolic abnormalities and hypoleptinemia in $\alpha$ -synuclein A53T mutant mice. <i>Neurobiology of Aging</i> , 2014, 35, 1153-1161.	1.5	23
34	Resveratrol Prevents High Fat/Sucrose Diet-Induced Central Arterial Wall Inflammation and Stiffening in Nonhuman Primates. <i>Cell Metabolism</i> , 2014, 20, 183-190.	7.2	186
35	Systems Analysis of Arrestin Pathway Functions. <i>Progress in Molecular Biology and Translational Science</i> , 2013, 118, 431-467.	0.9	14
36	The effect of intermittent energy and carbohydrate restriction <i>v</i>. daily energy restriction on weight loss and metabolic disease risk markers in overweight women. <i>British Journal of Nutrition</i> , 2013, 110, 1534-1547.	1.2	336

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37	Î²-Arrestin-Selective G Protein-Coupled Receptor Agonists Engender Unique Biological Efficacy in Vivo. <i>Molecular Endocrinology</i> , 2013, 27, 296-314.	3.7	62
38	Classification of Alzheimer Diagnosis from ADNI Plasma Biomarker Data. , 2013, 2013, 569.		4
39	BRET Biosensor Analysis of Receptor Tyrosine Kinase Functionality. <i>Frontiers in Endocrinology</i> , 2013, 4, 46.	1.5	13
40	Plurigon: three dimensional visualization and classification of high-dimensionality data. <i>Frontiers in Physiology</i> , 2013, 4, 190.	1.3	17
41	Neuronal Expression of Familial Parkinson's Disease A53T Î±-Synuclein Causes Early Motor Impairment, Reduced Anxiety and Potential Sleep Disturbances in Mice. <i>Journal of Parkinson's Disease</i> , 2013, 3, 215-229.	1.5	44
42	The role of Thyrotropin Releasing Hormone in aging and neurodegenerative diseases. <i>American Journal of Alzheimer's Disease (Columbia, Mo )</i> , 2013, 1, .	0.3	32
43	Long-Term Artificial Sweetener Acesulfame Potassium Treatment Alters Neurometabolic Functions in C57BL/6J Mice. <i>PLoS ONE</i> , 2013, 8, e70257.	1.1	50
44	Altered Lipid and Salt Taste Responsivity in Ghrelin and GOAT Null Mice. <i>PLoS ONE</i> , 2013, 8, e76553.	1.1	53
45	Pancreas++: Automated Quantification of Pancreatic Islet Cells in Microscopy Images. <i>Frontiers in Physiology</i> , 2013, 3, 482.	1.3	12
46	Effective use of latent semantic indexing and computational linguistics in biological and biomedical applications. <i>Frontiers in Physiology</i> , 2013, 4, 8.	1.3	32
47	VennPlexâ€”A Novel Venn Diagram Program for Comparing and Visualizing Datasets with Differentially Regulated Datapoints. <i>PLoS ONE</i> , 2013, 8, e53388.	1.1	97
48	Textrousl!: Extracting Semantic Textual Meaning from Gene Sets. <i>PLoS ONE</i> , 2013, 8, e62665.	1.1	23
49	Metabolic Context Regulates Distinct Hypothalamic Transcriptional Responses to Antiaging Interventions. <i>International Journal of Endocrinology</i> , 2012, 2012, 1-15.	0.6	14
50	Endocrine Function in Aging. <i>International Journal of Endocrinology</i> , 2012, 2012, 1-3.	0.6	12
51	Central Role of the EGF Receptor in Neurometabolic Aging. <i>International Journal of Endocrinology</i> , 2012, 2012, 1-14.	0.6	50
52	Aging and Bone Health in Individuals with Developmental Disabilities. <i>International Journal of Endocrinology</i> , 2012, 2012, 1-10.	0.6	25
53	Age-Related Changes in Mouse Taste Bud Morphology, Hormone Expression, and Taste Responsivity. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2012, 67A, 336-344.	1.7	55
54	Metabolic Dysfunction in Alzheimers Disease and Related Neurodegenerative Disorders. <i>Current Alzheimer Research</i> , 2012, 9, 5-17.	0.7	261

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55	Anti-Inflammatory Effects of Physical Activity in Relationship to Improved Cognitive Status in Humans and Mouse Models of Alzheimers Disease. <i>Current Alzheimer Research</i> , 2012, 9, 86-92.	0.7	65
56	Euglycemic Agent-mediated Hypothalamic Transcriptomic Manipulation in the N171 $\hat{=}$ 82Q Model of Huntington Disease Is Related to Their Physiological Efficacy*. <i>Journal of Biological Chemistry</i> , 2012, 287, 31766-31782.	1.6	30
57	Therapeutic Targeting of the Endoplasmic Reticulum in Alzheimers Disease. <i>Current Alzheimer Research</i> , 2012, 9, 110-119.	0.7	30
58	3xTgAD mice exhibit altered behavior and elevated A $\hat{=}$ 2 after chronic mild social stress. <i>Neurobiology of Aging</i> , 2012, 33, 830.e1-830.e12.	1.5	73
59	Effective correction of experimental errors in quantitative proteomics using stable isotope labeling by amino acids in cell culture (SILAC). <i>Journal of Proteomics</i> , 2012, 75, 3720-3732.	1.2	55
60	The effects of the ketogenic diet on behavior and cognition. <i>Epilepsy Research</i> , 2012, 100, 304-309.	0.8	68
61	Neuroprotective role of Sirt1 in mammalian models of Huntington's disease through activation of multiple Sirt1 targets. <i>Nature Medicine</i> , 2012, 18, 153-158.	15.2	300
62	Plasma BDNF Is Associated with Age-Related White Matter Atrophy but Not with Cognitive Function in Older, Non-Demented Adults. <i>PLoS ONE</i> , 2012, 7, e35217.	1.1	88
63	Precursor ion exclusion for enhanced identification of plasma biomarkers. <i>Proteomics - Clinical Applications</i> , 2012, 6, 304-308.	0.8	8
64	Stromal factors SDF1 $\hat{=}$ , sFRP1, and VEGFD induce dopaminergic neuron differentiation of human pluripotent stem cells. <i>Journal of Neuroscience Research</i> , 2012, 90, 1367-1381.	1.3	40
65	Discovery- and target-based protein quantification using iTRAQ and pulsed Q collision induced dissociation (PQD). <i>Journal of Proteomics</i> , 2012, 75, 2480-2487.	1.2	13
66	VENNTURE $\hat{=}$ A Novel Venn Diagram Investigational Tool for Multiple Pharmacological Dataset Analysis. <i>PLoS ONE</i> , 2012, 7, e36911.	1.1	71
67	GIT2 Acts as a Potential Keystone Protein in Functional Hypothalamic Networks Associated with Age-Related Phenotypic Changes in Rats. <i>PLoS ONE</i> , 2012, 7, e36975.	1.1	40
68	Altered Hypothalamic Protein Expression in a Rat Model of Huntington's Disease. <i>PLoS ONE</i> , 2012, 7, e47240.	1.1	23
69	Repetitive Peroxide Exposure Reveals Pleiotropic Mitogen-Activated Protein Kinase Signaling Mechanisms. <i>Journal of Signal Transduction</i> , 2011, 2011, 1-15.	2.0	16
70	Bioinformatic Approaches to Metabolic Pathways Analysis. <i>Methods in Molecular Biology</i> , 2011, 756, 99-130.	0.4	37
71	Identification of Proteins and Phosphoproteins Using Pulsed Q Collision Induced Dissociation (PQD). <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 1753-1762.	1.2	9
72	Cortical gene transcription response patterns to water maze training in aged mice. <i>BMC Neuroscience</i> , 2011, 12, 63.	0.8	21

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73	Rapid and enhanced proteolytic digestion using electric-field-oriented enzyme reactor. <i>Journal of Proteomics</i> , 2011, 74, 1030-1035.	1.2	18
74	To Be or Not To Be "Obese. <i>Endocrinology</i> , 2011, 152, 3592-3596.	1.4	9
75	The effects of intermittent or continuous energy restriction on weight loss and metabolic disease risk markers: a randomized trial in young overweight women. <i>International Journal of Obesity</i> , 2011, 35, 714-727.	1.6	573
76	Cannabinoids Inhibit Insulin Receptor Signaling in Pancreatic $\beta$ -Cells. <i>Diabetes</i> , 2011, 60, 1198-1209.	0.3	112
77	Multiple Oxygen Tension Environments Reveal Diverse Patterns of Transcriptional Regulation in Primary Astrocytes. <i>PLoS ONE</i> , 2011, 6, e21638.	1.1	24
78	Amitriptyline-Mediated Cognitive Enhancement in Aged 3 $\times$ Tg Alzheimer's Disease Mice Is Associated with Neurogenesis and Neurotrophic Activity. <i>PLoS ONE</i> , 2011, 6, e21660.	1.1	82
79	Chemical modification of Class II G protein-coupled receptor ligands: Frontiers in the development of peptide analogs as neuroendocrine pharmacological therapies. , 2010, 125, 39-54.		38
80	Plasma BDNF concentration, Val66Met genetic variant and depression-related personality traits. <i>Genes, Brain and Behavior</i> , 2010, 9, 512-518.	1.1	54
81	Complex and Multidimensional Lipid Raft Alterations in a Murine Model of Alzheimer's Disease. <i>International Journal of Alzheimer's Disease</i> , 2010, 2010, 1-56.	1.1	63
82	Minimal Peroxide Exposure of Neuronal Cells Induces Multifaceted Adaptive Responses. <i>PLoS ONE</i> , 2010, 5, e14352.	1.1	61
83	Vasoactive Intestinal Peptide-Null Mice Demonstrate Enhanced Sweet Taste Preference, Dysglycemia, and Reduced Taste Bud Leptin Receptor Expression. <i>Diabetes</i> , 2010, 59, 1143-1152.	0.3	96
84	"Control" laboratory rodents are metabolically morbid: Why it matters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 6127-6133.	3.3	317
85	Hippocampal gene expression patterns underlying the enhancement of memory by running in aged mice. <i>Neurobiology of Aging</i> , 2010, 31, 1937-1949.	1.5	135
86	Transferrin Fusion Technology: A Novel Approach to Prolonging Biological Half-Life of Insulinotropic Peptides. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2010, 334, 682-692.	1.3	65
87	Couch Potato: The Antithesis of Hormesis. , 2010, , 139-151.		1
88	Circulating Brain-Derived Neurotrophic Factor and Indices of Metabolic and Cardiovascular Health: Data from the Baltimore Longitudinal Study of Aging. <i>PLoS ONE</i> , 2010, 5, e10099.	1.1	180
89	Ghrelin Is Produced in Taste Cells and Ghrelin Receptor Null Mice Show Reduced Taste Responsivity to Salty (NaCl) and Sour (Citric Acid) Tastants. <i>PLoS ONE</i> , 2010, 5, e12729.	1.1	93
90	The Mammalian Tachykinin Ligand-Receptor System: An Emerging Target for Central Neurological Disorders. <i>CNS and Neurological Disorders - Drug Targets</i> , 2010, 9, 627-635.	0.8	30

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91	Ghrelin Receptor Signaling: A Promising Therapeutic Target for Metabolic Syndrome and Cognitive Dysfunction. <i>CNS and Neurological Disorders - Drug Targets</i> , 2010, 9, 557-563.	0.8	45
92	Gonadotropin-Releasing Hormone Receptor System: Modulatory Role in Aging and Neurodegeneration. <i>CNS and Neurological Disorders - Drug Targets</i> , 2010, 9, 651-660.	0.8	57
93	Therapeutic Potential of Vasoactive Intestinal Peptide and its Receptors in Neurological Disorders. <i>CNS and Neurological Disorders - Drug Targets</i> , 2010, 9, 661-666.	0.8	46
94	Dietary Energy Intake, Hormesis, and Health. , 2010, , 123-137.		1
95	Gonadal Transcriptome Alterations in Response to Dietary Energy Intake: Sensing the Reproductive Environment. <i>PLoS ONE</i> , 2009, 4, e4146.	1.1	33
96	Allosteric Modulators of G Protein-Coupled Receptors: Future Therapeutics for Complex Physiological Disorders. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2009, 331, 340-348.	1.3	88
97	Growth Factor Signals in Neural Cells. <i>Journal of Biological Chemistry</i> , 2009, 284, 2493-2511.	1.6	44
98	Exendin-4 Improves Glycemic Control, Ameliorates Brain and Pancreatic Pathologies, and Extends Survival in a Mouse Model of Huntington's Disease. <i>Diabetes</i> , 2009, 58, 318-328.	0.3	160
99	Voluntary exercise and caloric restriction enhance hippocampal dendritic spine density and BDNF levels in diabetic mice. <i>Hippocampus</i> , 2009, 19, 951-961.	0.9	292
100	Neonatal Estrogenic Effects upon the Male Rat Pituitary: Early Gonadotrophin Attenuation Precedes Long-term Recovery. <i>NeuroMolecular Medicine</i> , 2009, 11, 76-86.	1.8	2
101	Modulation of Taste Sensitivity by GLP-1 Signaling in Taste Buds. <i>Annals of the New York Academy of Sciences</i> , 2009, 1170, 98-101.	1.8	100
102	Diminished iron concentrations increase adenosine A2A receptor levels in mouse striatum and cultured human neuroblastoma cells. <i>Experimental Neurology</i> , 2009, 215, 236-242.	2.0	22
103	Hormones in the naso-oropharynx: endocrine modulation of taste and smell. <i>Trends in Endocrinology and Metabolism</i> , 2009, 20, 163-170.	3.1	57
104	Modulation of taste sensitivity by GLP-1 signaling. <i>Journal of Neurochemistry</i> , 2008, 106, 455-463.	2.1	240
105	Caloric restriction: Impact upon pituitary function and reproduction. <i>Ageing Research Reviews</i> , 2008, 7, 209-224.	5.0	77
106	Targeting TNF- $\alpha$ receptors for neurotherapeutics. <i>Trends in Neurosciences</i> , 2008, 31, 504-511.	4.2	72
107	Conserved and Differential Effects of Dietary Energy Intake on the Hippocampal Transcriptomes of Females and Males. <i>PLoS ONE</i> , 2008, 3, e2398.	1.1	46
108	iTRAQ Analysis of Complex Proteome Alterations in 3xTgAD Alzheimer's Mice: Understanding the Interface between Physiology and Disease. <i>PLoS ONE</i> , 2008, 3, e2750.	1.1	110

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109	Therapeutic perspectives for the treatment of Huntington's disease: treating the whole body. <i>Histology and Histopathology</i> , 2008, 23, 237-50.	0.5	46
110	G Protein-Coupled Receptor Signaling Complexity in Neuronal Tissue: Implications for Novel Therapeutics. <i>Current Alzheimer Research</i> , 2007, 4, 3-19.	0.7	53
111	Prophylactic treatment with paroxetine ameliorates behavioral deficits and retards the development of amyloid and tau pathologies in 3xTgAD mice. <i>Experimental Neurology</i> , 2007, 205, 166-176.	2.0	159
112	Sex-Dependent Metabolic, Neuroendocrine, and Cognitive Responses to Dietary Energy Restriction and Excess. <i>Endocrinology</i> , 2007, 148, 4318-4333.	1.4	167
113	Impact of reduced meal frequency without caloric restriction on glucose regulation in healthy, normal-weight middle-aged men and women. <i>Metabolism: Clinical and Experimental</i> , 2007, 56, 1729-1734.	1.5	191
114	Alternate day calorie restriction improves clinical findings and reduces markers of oxidative stress and inflammation in overweight adults with moderate asthma. <i>Free Radical Biology and Medicine</i> , 2007, 42, 665-674.	1.3	513
115	GnRH-Mediated DAN Production Regulates the Transcription of the GnRH Receptor in Gonadotrope Cells. <i>NeuroMolecular Medicine</i> , 2007, 9, 230-248.	1.8	17
116	Reduced energy intake: the secret to a long and healthy life?. <i>IBS Journal of Science</i> , 2007, 2, 35-39.	0.0	18
117	Caloric restriction and intermittent fasting: Two potential diets for successful brain aging. <i>Ageing Research Reviews</i> , 2006, 5, 332-353.	5.0	340
118	Class II G Protein-Coupled Receptors and Their Ligands in Neuronal Function and Protection. <i>NeuroMolecular Medicine</i> , 2005, 7, 003-036.	1.8	80
119	The Origins of Diversity and Specificity in G Protein-Coupled Receptor Signaling. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2005, 314, 485-494.	1.3	182
120	BDNF and 5-HT: a dynamic duo in age-related neuronal plasticity and neurodegenerative disorders. <i>Trends in Neurosciences</i> , 2004, 27, 589-594.	4.2	795
121	A neural signaling triumvirate that influences ageing and age-related disease: insulin/IGF-1, BDNF and serotonin. <i>Ageing Research Reviews</i> , 2004, 3, 445-464.	5.0	242
122	Infant feeding with soy formula milk: effects on the testis and on blood testosterone levels in marmoset monkeys during the period of neonatal testicular activity. <i>Human Reproduction</i> , 2002, 17, 1692-1703.	0.4	112