

# Philip W J Burnet

## List of Publications by Citations

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90 papers	5,476 citations	39 h-index	73 g-index
91 ext. papers	6,201 ext. citations	6.2 avg, IF	5.62 L-index

#	Paper	IF	Citations
90	Psychobiotics and the Manipulation of Bacteria-Gut-Brain Signals. <i>Trends in Neurosciences</i> , <b>2016</b> , 39, 763-781	13.3	446
89	The relative importance of premortem acidosis and postmortem interval for human brain gene expression studies: selective mRNA vulnerability and comparison with their encoded proteins. <i>Neuroscience Letters</i> , <b>1995</b> , 200, 151-4	3.3	306
88	Prebiotic intake reduces the waking cortisol response and alters emotional bias in healthy volunteers. <i>Psychopharmacology</i> , <b>2015</b> , 232, 1793-801	4.7	287
87	The distribution of 5-HT1A and 5-HT2A receptor mRNA in human brain. <i>Brain Research</i> , <b>1995</b> , 676, 157-68	6.7	244
86	5-HT1A and 5-HT2A receptor mRNAs and binding site densities are differentially altered in schizophrenia. <i>Neuropsychopharmacology</i> , <b>1996</b> , 15, 442-55	8.7	231
85	Prebiotic feeding elevates central brain derived neurotrophic factor, N-methyl-D-aspartate receptor subunits and D-serine. <i>Neurochemistry International</i> , <b>2013</b> , 63, 756-64	4.4	229
84	Altered synaptophysin expression as a marker of synaptic pathology in schizophrenia. <i>Neuroscience</i> , <b>1995</b> , 66, 309-19	3.9	181
83	Decreased expression of mRNAs encoding non-NMDA glutamate receptors GluR1 and GluR2 in medial temporal lobe neurons in schizophrenia. <i>Molecular Brain Research</i> , <b>1995</b> , 29, 211-23		178
82	[3H]WAY-100635 for 5-HT1A receptor autoradiography in human brain: a comparison with [3H]8-OH-DPAT and demonstration of increased binding in the frontal cortex in schizophrenia. <i>Neurochemistry International</i> , <b>1997</b> , 30, 565-74	4.4	150
81	Prebiotic administration normalizes lipopolysaccharide (LPS)-induced anxiety and cortical 5-HT2A receptor and IL1- $\beta$ levels in male mice. <i>Brain, Behavior, and Immunity</i> , <b>2016</b> , 52, 120-131	16.6	145
80	d-Amino acid oxidase and serine racemase in human brain: normal distribution and altered expression in schizophrenia. <i>European Journal of Neuroscience</i> , <b>2007</b> , 26, 1657-69	3.5	143
79	RNA editing of the 5-HT(2C) receptor is reduced in schizophrenia. <i>Molecular Psychiatry</i> , <b>2001</b> , 6, 373-9	15.1	141
78	The group II metabotropic glutamate receptor 3 (mGluR3, mGlu3, GRM3): expression, function and involvement in schizophrenia. <i>Journal of Psychopharmacology</i> , <b>2008</b> , 22, 308-22	4.6	136
77	The neurobiology of D-amino acid oxidase and its involvement in schizophrenia. <i>Molecular Psychiatry</i> , <b>2010</b> , 15, 122-37	15.1	115
76	The Microbiome in Psychology and Cognitive Neuroscience. <i>Trends in Cognitive Sciences</i> , <b>2018</b> , 22, 611-634	6.4	97
75	Genetic variation of the 5-HT2A receptor and response to clozapine. <i>Lancet, The</i> , <b>1995</b> , 346, 908-9	4.0	97
74	Characterization of glucagon-like peptide-1-(7-36)amide in the hypothalamus. <i>Brain Research</i> , <b>1989</b> , 502, 325-31	3.7	93

73	The effect of chronic imipramine administration on the densities of 5-HT <sub>1A</sub> and 5-HT <sub>2</sub> receptors and the abundances of 5-HT receptor and transporter mRNA in the cortex, hippocampus and dorsal raphe of three strains of rat. <i>Brain Research</i> , <b>1994</b> , 638, 311-24	3.7	92
72	Expression of ZNF804A in human brain and alterations in schizophrenia, bipolar disorder, and major depressive disorder: a novel transcript fetally regulated by the psychosis risk variant rs1344706. <i>JAMA Psychiatry</i> , <b>2014</b> , 71, 1112-20	14.5	89
71	D-amino acid oxidase activity and expression are increased in schizophrenia. <i>Molecular Psychiatry</i> , <b>2008</b> , 13, 658-60	15.1	84
70	GluR2 glutamate receptor subunit flip and flop isoforms are decreased in the hippocampal formation in schizophrenia: a reverse transcriptase-polymerase chain reaction (RT-PCR) study. <i>Molecular Brain Research</i> , <b>1997</b> , 44, 92-8		81
69	5-HT <sub>6</sub> receptor binding sites in schizophrenia and following antipsychotic drug administration: autoradiographic studies with [ <sup>125</sup> I]SB-258585. <i>Synapse</i> , <b>2002</b> , 45, 191-9	2.4	81
68	Synaptophysin gene expression in human brain: a quantitative in situ hybridization and immunocytochemical study. <i>Neuroscience</i> , <b>1994</b> , 59, 881-92	3.9	81
67	Catechol-o-methyltransferase (COMT) and proline dehydrogenase (PRODH) mRNAs in the dorsolateral prefrontal cortex in schizophrenia, bipolar disorder, and major depression. <i>Synapse</i> , <b>2004</b> , 51, 112-8	2.4	75
66	Hippocampal 8-[ <sup>3</sup> H]hydroxy-2-(di-n-propylamino) tetralin binding site densities, serotonin receptor (5-HT <sub>1A</sub> ) messenger ribonucleic acid abundance, and serotonin levels parallel the activity of the hypothalamopituitary-adrenal axis in rat. <i>Journal of Neurochemistry</i> , <b>1992</b> , 59, 1062-70	6	73
65	The effects of clozapine and haloperidol on serotonin-1A, -2A and -2C receptor gene expression and serotonin metabolism in the rat forebrain. <i>Neuroscience</i> , <b>1996</b> , 73, 531-40	3.9	70
64	Expression of serotonin 5-HT <sub>2A</sub> receptors in the human cerebellum and alterations in schizophrenia. <i>Synapse</i> , <b>2001</b> , 42, 104-14	2.4	68
63	Prebiotic attenuation of olanzapine-induced weight gain in rats: analysis of central and peripheral biomarkers and gut microbiota. <i>Translational Psychiatry</i> , <b>2018</b> , 8, 66	8.6	66
62	Decreased hippocampal expression of the susceptibility gene PPP3CC and other calcineurin subunits in schizophrenia. <i>Biological Psychiatry</i> , <b>2005</b> , 57, 702-10	7.9	62
61	Neonatal prebiotic (BGOS) supplementation increases the levels of synaptophysin, GluN2A-subunits and BDNF proteins in the adult rat hippocampus. <i>Synapse</i> , <b>2016</b> , 70, 121-4	2.4	58
60	Detection and quantitation of 5-HT <sub>1A</sub> and 5-HT <sub>2A</sub> receptor mRNAs in human hippocampus using a reverse transcriptase-polymerase chain reaction (RT-PCR) technique and their correlation with binding site densities and age. <i>Neuroscience Letters</i> , <b>1994</b> , 178, 85-9	3.3	57
59	Substance P (NK1) receptors in the cingulate cortex in unipolar and bipolar mood disorder and schizophrenia. <i>Biological Psychiatry</i> , <b>2000</b> , 47, 80-3	7.9	53
58	An RT-PCR study of 5-HT <sub>6</sub> and 5-HT <sub>7</sub> receptor mRNAs in the hippocampal formation and prefrontal cortex in schizophrenia. <i>Schizophrenia Research</i> , <b>2002</b> , 57, 15-26	3.6	52
57	Repeated ECS differentially affects rat brain 5-HT <sub>1A</sub> and 5-HT <sub>2A</sub> receptor expression. <i>NeuroReport</i> , <b>1995</b> , 6, 901-4	1.7	51
56	Increased cortical neuronal responses to NMDA and improved attentional set-shifting performance in rats following prebiotic (B-GOS) ingestion. <i>European Neuropsychopharmacology</i> , <b>2018</b> , 28, 211-224	1.2	50

55	Fractionation of spatial memory in GRM2/3 (mGlu2/mGlu3) double knockout mice reveals a role for group II metabotropic glutamate receptors at the interface between arousal and cognition. <i>Neuropsychopharmacology</i> , <b>2011</b> , 36, 2616-28	8.7	49
54	Microbial transmission in animal social networks and the social microbiome. <i>Nature Ecology and Evolution</i> , <b>2020</b> , 4, 1020-1035	12.3	47
53	Measuring Disturbance of the Endocannabinoid System in Psychosis: A Systematic Review and Meta-analysis. <i>JAMA Psychiatry</i> , <b>2019</b> , 76, 914-923	14.5	46
52	Altered hippocampal expression of glutamate receptors and transporters in GRM2 and GRM3 knockout mice. <i>Synapse</i> , <b>2008</b> , 62, 842-50	2.4	43
51	Expression of complexin I and II mRNAs and their regulation by antipsychotic drugs in the rat forebrain. <i>Synapse</i> , <b>2000</b> , 36, 167-77	2.4	38
50	The Gut Microbiome and Schizophrenia: The Current State of the Field and Clinical Applications. <i>Frontiers in Psychiatry</i> , <b>2020</b> , 11, 156	5	38
49	Microbiome: Should we diversify from diversity?. <i>Gut Microbes</i> , <b>2016</b> , 7, 455-458	8.8	36
48	A rapid new assay to detect RNA editing reveals antipsychotic-induced changes in serotonin-2C transcripts. <i>Molecular Pharmacology</i> , <b>2005</b> , 68, 711-9	4.3	34
47	Striatal synaptophysin expression and haloperidol-induced synaptic plasticity. <i>NeuroReport</i> , <b>1994</b> , 5, 677-80	1.9	34
46	Expression of D-serine and glycine transporters in the prefrontal cortex and cerebellum in schizophrenia. <i>Schizophrenia Research</i> , <b>2008</b> , 102, 283-94	3.6	33
45	The role of the microbiome in the neurobiology of social behaviour. <i>Biological Reviews</i> , <b>2020</b> , 95, 1131-1165	16.5	30
44	Expression of 5-HT receptors and the 5-HT transporter in rat brain after electroconvulsive shock. <i>Neuroscience Letters</i> , <b>1999</b> , 277, 79-82	3.3	30
43	Nutrition and the ageing brain: Moving towards clinical applications. <i>Ageing Research Reviews</i> , <b>2020</b> , 62, 101079	12	29
42	The role of group II metabotropic glutamate receptors in cognition and anxiety: comparative studies in GRM2(-/-), GRM3(-/-) and GRM2/3(-/-) knockout mice. <i>Neuropharmacology</i> , <b>2015</b> , 89, 19-32	5.5	28
41	Psychobiotics highlight the pathways to happiness. <i>Biological Psychiatry</i> , <b>2013</b> , 74, 708-9	7.9	25
40	The Influence of Prebiotics on Neurobiology and Behavior. <i>International Review of Neurobiology</i> , <b>2016</b> , 131, 21-48	4.4	24
39	Antipsychotics increase microtubule-associated protein 2 mRNA but not spinophilin mRNA in rat hippocampus and cortex. <i>Journal of Neuroscience Research</i> , <b>2004</b> , 76, 376-82	4.4	23
38	Hippocampal mossy fiber long-term depression in Grm2/3 double knockout mice. <i>Synapse</i> , <b>2011</b> , 65, 945-54	2.4	22

37	Hippocampal 5-HT1A receptor binding site densities, 5-HT1A receptor messenger ribonucleic acid abundance and serotonin levels parallel the activity of the hypothalamo-pituitary-adrenal axis in rats. <i>Behavioural Brain Research</i> , <b>1996</b> , 73, 365-68	3.4	22
36	AMPA glutamate receptors and their flip and flop mRNAs in human hippocampus. <i>NeuroReport</i> , <b>1994</b> , 5, 1325-1328	1.7	22
35	Gene expression and neuronal activity in schizophrenia: a study of polyadenylated mRNA in the hippocampal formation and cerebral cortex. <i>Schizophrenia Research</i> , <b>1997</b> , 26, 93-102	3.6	21
34	The 5-HT2A (serotonin2A) receptor gene in the aetiology, pathophysiology and pharmacotherapy of schizophrenia. <i>Journal of Psychopharmacology</i> , <b>1997</b> , 11, 18-20	4.6	20
33	Differential changes in glutamate receptor subunit messenger RNAs in rat brain after haloperidol treatment. <i>Journal of Psychopharmacology</i> , <b>1994</b> , 8, 196-203	4.6	19
32	D-Serine metabolism in C6 glioma cells: Involvement of alanine-serine-cysteine transporter (ASCT2) and serine racemase (SRR) but not D-amino acid oxidase (DAO). <i>Journal of Neuroscience Research</i> , <b>2010</b> , 88, 1829-40	4.4	18
31	Hippocampal and cortical G protein (Gs alpha, G(o) alpha and Gi2 alpha) mRNA expression after electroconvulsive shock or lithium carbonate treatment. <i>European Journal of Pharmacology</i> , <b>1996</b> , 306, 249-55	5.3	18
30	Pro-cognitive effect of a prebiotic in psychosis: A double blind placebo controlled cross-over study. <i>Schizophrenia Research</i> , <b>2019</b> , 208, 460-461	3.6	16
29	ON or OFF?: Modulating the N-Methyl-D-Aspartate Receptor in Major Depression. <i>Frontiers in Molecular Neuroscience</i> , <b>2016</b> , 9, 169	6.1	16
28	Genetic mouse models relevant to schizophrenia: taking stock and looking forward. <i>Neuropharmacology</i> , <b>2012</b> , 62, 1164-7	5.5	16
27	Critical issues in the antisense inhibition of brain gene expression in vivo: experiences targetting the 5-HT1A receptor. <i>Neurochemistry International</i> , <b>1997</b> , 31, 349-62	4.4	16
26	D-amino acid oxidase knockdown in the mouse cerebellum reduces NR2A mRNA. <i>Molecular and Cellular Neurosciences</i> , <b>2011</b> , 46, 167-75	4.8	15
25	Laser-assisted microdissection: methods for the molecular analysis of psychiatric disorders at a cellular resolution. <i>Biological Psychiatry</i> , <b>2004</b> , 55, 107-11	7.9	15
24	Effect of ACTH on VIP and galanin release from the pituitary. <i>Endocrinology</i> , <b>1990</b> , 126, 1283-7	4.8	15
23	Prebiotic reduction of brain histone deacetylase (HDAC) activity and olanzapine-mediated weight gain in rats, are acetate independent. <i>Neuropharmacology</i> , <b>2019</b> , 150, 184-191	5.5	15
22	Contrasting effects of electroconvulsive shock on mRNAs encoding the high affinity kainate receptor subunits (KA1 and KA2) and cyclophilin in the rat. <i>Brain Research</i> , <b>1996</b> , 710, 97-102	3.7	13
21	Gut dysbiosis in severe mental illness and chronic fatigue: a novel trans-diagnostic construct? A systematic review and meta-analysis. <i>Molecular Psychiatry</i> , <b>2021</b> ,	15.1	12
20	Increased burst-firing of ventral tegmental area dopaminergic neurons in D-amino acid oxidase knockout mice in vivo. <i>European Journal of Neuroscience</i> , <b>2014</b> , 40, 2999-3009	3.5	11

19	D-amino acid oxidase is expressed in the ventral tegmental area and modulates cortical dopamine. <i>Frontiers in Synaptic Neuroscience</i> , <b>2014</b> , 6, 11	3.5	10
18	The gut-microbiome as a target for the treatment of schizophrenia: A systematic review and meta-analysis of randomised controlled trials of add-on strategies. <i>Schizophrenia Research</i> , <b>2021</b> , 234, 1-13	3.6	10
17	Anxiolytic effects of a galacto-oligosaccharides prebiotic in healthy females (18-25 years) with corresponding changes in gut bacterial composition. <i>Scientific Reports</i> , <b>2021</b> , 11, 8302	4.9	9
16	Can prebiotics assist in the management of cognition and weight gain in schizophrenia?. <i>Psychoneuroendocrinology</i> , <b>2018</b> , 95, 179-185	5	9
15	Post-inflammatory behavioural despair in male mice is associated with reduced cortical glutamate-glutamine ratios, and circulating lipid and energy metabolites. <i>Scientific Reports</i> , <b>2020</b> , 10, 16857	4.9	8
14	Electroconvulsive shock increases tachykinin NK(1) receptors, but not the encoding mRNA, in rat cortex. <i>European Journal of Pharmacology</i> , <b>2001</b> , 413, 213-9	5.3	7
13	Mom's diet matters: Maternal prebiotic intake in mice reduces anxiety and alters brain gene expression and the fecal microbiome in offspring. <i>Brain, Behavior, and Immunity</i> , <b>2021</b> , 91, 230-244	16.6	7
12	A single administration of the antibiotic, minocycline, reduces fear processing and improves implicit learning in healthy volunteers: analysis of the serum metabolome. <i>Translational Psychiatry</i> , <b>2020</b> , 10, 148	8.6	6
11	Gut bacteria and brain function: the challenges of a growing field. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, E175; author reply E176	11.5	6
10	Endocannabinoid system mediates the association between gut-microbial diversity and anhedonia/amotivation in a general population cohort. <i>Molecular Psychiatry</i> , <b>2021</b> ,	15.1	5
9	A single administration of microbial L-alanine to healthy volunteers augments reaction to negative emotions: A comparison with D-serine. <i>Journal of Psychopharmacology</i> , <b>2020</b> , 34, 557-566	4.6	4
8	Opposing effects of antibiotics and germ-free status on neuropeptide systems involved in social behaviour and pain regulation. <i>BMC Neuroscience</i> , <b>2020</b> , 21, 32	3.2	4
7	The Gut Microbiome in Anorexia Nervosa: Friend or Foe?. <i>Frontiers in Psychiatry</i> , <b>2020</b> , 11, 611677	5	4
6	Modifying the maternal microbiota alters the gut-brain metabolome and prevents emotional dysfunction in the adult offspring of obese dams.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119,	11.5	3
5	Multispecies probiotic administration reduces emotional salience and improves mood in subjects with moderate depression: a randomised, double-blind, placebo-controlled study.. <i>Psychological Medicine</i> , <b>2022</b> , 1-11	6.9	2
4	What Is Our Understanding of the Influence of Gut Microbiota on the Pathophysiology of Parkinson's Disease?. <i>Frontiers in Neuroscience</i> , <b>2021</b> , 15, 708587	5.1	2
3	Postnatal prebiotic supplementation in rats affects adult anxious behaviour, hippocampus, electrophysiology, metabolomics, and gut microbiota. <i>iScience</i> , <b>2021</b> , 24, 103113	6.1	2
2	Anxiolytic effects of a galacto-oligosaccharides prebiotic in healthy female volunteers are associated with reduced negative bias and the gut bacterial composition		1

1	Prebiotic supplementation does not affect reading and cognitive performance in children: A randomised placebo-controlled study. <i>Journal of Psychopharmacology</i> , <b>2020</b> , 34, 148-152	4.6	1
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