

# Annamaria Cattaneo

## List of Publications by Year in descending order

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Version: 2024-02-01

81  
papers

7,329  
citations

57631

44  
h-index

64668

79  
g-index

89  
all docs

89  
docs citations

89  
times ranked

10604  
citing authors

#	ARTICLE	IF	CITATIONS
1	Association of brain amyloidosis with pro-inflammatory gut bacterial taxa and peripheral inflammation markers in cognitively impaired elderly. <i>Neurobiology of Aging</i> , 2017, 49, 60-68.	1.5	870
2	Glucocorticoids, cytokines and brain abnormalities in depression. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2011, 35, 722-729.	2.5	426
3	Candidate Genes Expression Profile Associated with Antidepressants Response in the GENDEP Study: Differentiating between Baseline "Predictors"™ and Longitudinal "Targets"™. <i>Neuropsychopharmacology</i> , 2013, 38, 377-385.	2.8	372
4	Antidepressants increase human hippocampal neurogenesis by activating the glucocorticoid receptor. <i>Molecular Psychiatry</i> , 2011, 16, 738-750.	4.1	371
5	Interleukin-1 $\beta$ : A New Regulator of the Kynurenine Pathway Affecting Human Hippocampal Neurogenesis. <i>Neuropsychopharmacology</i> , 2012, 37, 939-949.	2.8	328
6	Role for the kinase SGK1 in stress, depression, and glucocorticoid effects on hippocampal neurogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 8708-8713.	3.3	272
7	Glucocorticoid-Related Molecular Signaling Pathways Regulating Hippocampal Neurogenesis. <i>Neuropsychopharmacology</i> , 2013, 38, 872-883.	2.8	262
8	Stress and Inflammation Reduce Brain-Derived Neurotrophic Factor Expression in First-Episode Psychosis. <i>Journal of Clinical Psychiatry</i> , 2011, 72, 1677-1684.	1.1	245
9	Short-Chain Fatty Acids and Lipopolysaccharide as Mediators Between Gut Dysbiosis and Amyloid Pathology in Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2020, 78, 683-697.	1.2	183
10	Serum and gene expression profile of cytokines in first-episode psychosis. <i>Brain, Behavior, and Immunity</i> , 2013, 31, 90-95.	2.0	174
11	The human BDNF gene: peripheral gene expression and protein levels as biomarkers for psychiatric disorders. <i>Translational Psychiatry</i> , 2016, 6, e958-e958.	2.4	158
12	Replicable and Coupled Changes in Innate and Adaptive Immune Gene Expression in Two Case-Control Studies of Blood Microarrays in Major Depressive Disorder. <i>Biological Psychiatry</i> , 2018, 83, 70-80.	0.7	158
13	Glucocorticoid exposure during hippocampal neurogenesis primes future stress response by inducing changes in DNA methylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 23280-23285.	3.3	141
14	Peripheral whole blood microRNA alterations in major depression and bipolar disorder. <i>Journal of Affective Disorders</i> , 2016, 200, 250-258.	2.0	138
15	Epigenetic Modifications in Stress Response Genes Associated With Childhood Trauma. <i>Frontiers in Psychiatry</i> , 2019, 10, 808.	1.3	133
16	Microbiota-gut brain axis involvement in neuropsychiatric disorders. <i>Expert Review of Neurotherapeutics</i> , 2019, 19, 1037-1050.	1.4	116
17	Gene-Environment Interaction in Major Depression: Focus on Experience-Dependent Biological Systems. <i>Frontiers in Psychiatry</i> , 2015, 6, 68.	1.3	113
18	Chronic Duloxetine Treatment Induces Specific Changes in the Expression of BDNF Transcripts and in the Subcellular Localization of the Neurotrophin Protein. <i>Neuropsychopharmacology</i> , 2007, 32, 2351-2359.	2.8	110

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19	Inflammation and neuronal plasticity: a link between childhood trauma and depression pathogenesis. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 40.	1.8	110
20	Reduced function of the serotonin transporter is associated with decreased expression of BDNF in rodents as well as in humans. <i>Neurobiology of Disease</i> , 2010, 37, 747-755.	2.1	107
21	Acute Stress Responsiveness of the Neurotrophin BDNF in the Rat Hippocampus is Modulated by Chronic Treatment with the Antidepressant Duloxetine. <i>Neuropsychopharmacology</i> , 2009, 34, 1523-1532.	2.8	104
22	Interplay between the pro-oxidant and antioxidant systems and proinflammatory cytokine levels, in relation to iron metabolism and the erythron in depression. <i>Free Radical Biology and Medicine</i> , 2013, 63, 187-194.	1.3	104
23	Depression pathogenesis and treatment: what can we learn from blood mRNA expression?. <i>BMC Medicine</i> , 2013, 11, 28.	2.3	102
24	Current and emerging avenues for Alzheimer's disease drug targets. <i>Journal of Internal Medicine</i> , 2019, 286, 398-437.	2.7	102
25	Absolute Measurements of Macrophage Migration Inhibitory Factor and Interleukin-1 $\beta$ mRNA Levels Accurately Predict Treatment Response in Depressed Patients. <i>International Journal of Neuropsychopharmacology</i> , 2016, 19, pyw045.	1.0	100
26	Interplay between childhood trauma and BDNF val66met variants on blood BDNF mRNA levels and on hippocampus subfields volumes in schizophrenia spectrum and bipolar disorders. <i>Journal of Psychiatric Research</i> , 2014, 59, 14-21.	1.5	97
27	Cellular and molecular mechanisms of the brain-derived neurotrophic factor in physiological and pathological conditions. <i>Clinical Science</i> , 2017, 131, 123-138.	1.8	93
28	Ketamine: synaptogenesis, immunomodulation and glycogen synthase kinase-3 as underlying mechanisms of its antidepressant properties. <i>Molecular Psychiatry</i> , 2013, 18, 1236-1241.	4.1	92
29	Stress-induced mechanisms in mental illness: A role for glucocorticoid signalling. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2016, 160, 169-174.	1.2	89
30	Prenatal exposure to environmental insults and enhanced risk of developing Schizophrenia and Autism Spectrum Disorder: focus on biological pathways and epigenetic mechanisms. <i>Neuroscience and Biobehavioral Reviews</i> , 2020, 117, 253-278.	2.9	88
31	Borderline personality disorder and childhood trauma: exploring the affected biological systems and mechanisms. <i>BMC Psychiatry</i> , 2017, 17, 221.	1.1	85
32	Interferon-Alpha Reduces Human Hippocampal Neurogenesis and Increases Apoptosis via Activation of Distinct STAT1-Dependent Mechanisms. <i>International Journal of Neuropsychopharmacology</i> , 2018, 21, 187-200.	1.0	85
33	Reduced peripheral brain-derived neurotrophic factor mRNA levels are normalized by antidepressant treatment. <i>International Journal of Neuropsychopharmacology</i> , 2010, 13, 103.	1.0	82
34	FoxO1, A2M, and TGF $\beta$ 1: three novel genes predicting depression in gene X environment interactions are identified using cross-species and cross-tissues transcriptomic and miRNomic analyses. <i>Molecular Psychiatry</i> , 2018, 23, 2192-2208.	4.1	73
35	The Expression of VGF is Reduced in Leukocytes of Depressed Patients and it is Restored by Effective Antidepressant Treatment. <i>Neuropsychopharmacology</i> , 2010, 35, 1423-1428.	2.8	68
36	Amygdalar MicroRNA-15a Is Essential for Coping with Chronic Stress. <i>Cell Reports</i> , 2016, 17, 1882-1891.	2.9	66

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37	Microbiota and neurodegenerative diseases. <i>Current Opinion in Neurology</i> , 2017, 30, 630-638.	1.8	64
38	Whole-blood expression of inflammasome- and glucocorticoid-related mRNAs correctly separates treatment-resistant depressed patients from drug-free and responsive patients in the BIODep study. <i>Translational Psychiatry</i> , 2020, 10, 232.	2.4	62
39	Sub-chronic exposure to atomoxetine up-regulates BDNF expression and signalling in the brain of adolescent spontaneously hypertensive rats: Comparison with methylphenidate. <i>Pharmacological Research</i> , 2010, 62, 523-529.	3.1	60
40	Blood biomarkers and treatment response in major depression. <i>Expert Review of Molecular Diagnostics</i> , 2018, 18, 513-529.	1.5	58
41	Long-Term Duloxetine Treatment Normalizes Altered Brain-Derived Neurotrophic Factor Expression in Serotonin Transporter Knockout Rats through the Modulation of Specific Neurotrophin Isoforms. <i>Molecular Pharmacology</i> , 2010, 77, 846-853.	1.0	56
42	Early raise of BDNF in hippocampus suggests induction of posttranscriptional mechanisms by antidepressants. <i>BMC Neuroscience</i> , 2009, 10, 48.	0.8	53
43	Antidepressant Compounds Can Be Both Pro- and Anti-Inflammatory in Human Hippocampal Cells. <i>International Journal of Neuropsychopharmacology</i> , 2015, 18, pyu076-pyu076.	1.0	52
44	Genome-Wide Transcriptional Profiling and Structural Magnetic Resonance Imaging in the Maternal Immune Activation Model of Neurodevelopmental Disorders. <i>Cerebral Cortex</i> , 2017, 27, 3397-3413.	1.6	50
45	Transcriptomics in Interferon- $\alpha$ -Treated Patients Identifies Inflammation-, Neuroplasticity- and Oxidative Stress-Related Signatures as Predictors and Correlates of Depression. <i>Neuropsychopharmacology</i> , 2016, 41, 2502-2511.	2.8	48
46	Identification of a miRNAs signature associated with exposure to stress early in life and enhanced vulnerability for schizophrenia: New insights for the key role of miR-125b-1-3p in neurodevelopmental processes. <i>Schizophrenia Research</i> , 2019, 205, 63-75.	1.1	40
47	Gene expression studies in Depression development and treatment: an overview of the underlying molecular mechanisms and biological processes to identify biomarkers. <i>Translational Psychiatry</i> , 2021, 11, 354.	2.4	40
48	miRNAs in depression vulnerability and resilience: novel targets for preventive strategies. <i>Journal of Neural Transmission</i> , 2019, 126, 1241-1258.	1.4	37
49	Comparison of Bioinformatics Pipelines and Operating Systems for the Analyses of 16S rRNA Gene Amplicon Sequences in Human Fecal Samples. <i>Frontiers in Microbiology</i> , 2020, 11, 1262.	1.5	36
50	Glucose metabolism alterations in patients with bipolar disorder. <i>Journal of Affective Disorders</i> , 2015, 184, 293-298.	2.0	34
51	Depression, obesity and their comorbidity during pregnancy: effects on the offspring's mental and physical health. <i>Molecular Psychiatry</i> , 2021, 26, 462-481.	4.1	34
52	Glucocorticoids prime the inflammatory response of human hippocampal cells through up-regulation of inflammatory pathways. <i>Brain, Behavior, and Immunity</i> , 2020, 87, 777-794.	2.0	29
53	Nutritional and immunological factors in breast milk: A role in the intergenerational transmission from maternal psychopathology to child development. <i>Brain, Behavior, and Immunity</i> , 2020, 85, 57-68.	2.0	28
54	Copy number variants in attention-deficit hyperactive disorder. <i>Psychiatric Genetics</i> , 2015, 25, 59-70.	0.6	25

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55	Transcriptional Signatures of Cognitive Impairment in Rat Exposed to Prenatal Stress. <i>Molecular Neurobiology</i> , 2019, 56, 6251-6260.	1.9	25
56	Haloperidol and olanzapine mediate metabolic abnormalities through different molecular pathways. <i>Translational Psychiatry</i> , 2013, 3, e208-e208.	2.4	24
57	Preclinical animal models of mental illnesses to translate findings from the bench to the bedside: Molecular brain mechanisms and peripheral biomarkers associated to early life stress or immune challenges. <i>European Neuropsychopharmacology</i> , 2022, 58, 55-79.	0.3	22
58	Long-term effects of stress early in life on microRNA-30a and its network: Preventive effects of lurasidone and potential implications for depression vulnerability. <i>Neurobiology of Stress</i> , 2020, 13, 100271.	1.9	20
59	The Complex Molecular Picture of Gut and Oral Microbiotaâ€œBrain-Depression System: What We Know and What We Need to Know. <i>Frontiers in Psychiatry</i> , 2021, 12, 722335.	1.3	19
60	Transcriptomic analyses and leukocyte telomere length measurement in subjects exposed to severe recent stressful life events. <i>Translational Psychiatry</i> , 2017, 7, e1042-e1042.	2.4	18
61	BDNF Val66Met polymorphism and protein levels in Amniotic Fluid. <i>BMC Neuroscience</i> , 2010, 11, 16.	0.8	16
62	ErbB3 mRNA leukocyte levels as a biomarker for major depressive disorder. <i>BMC Psychiatry</i> , 2012, 12, 145.	1.1	16
63	Long-term reduction of brain-derived neurotrophic factor levels and signaling impairment following prenatal treatment with the cannabinoid receptorâ€œ1 receptor agonist (R)-(+)-[2,3-dihydro-5-methyl-3-(4-morpholinyl-methyl) pyrrolo[1,2,3-de]-1,4-benzoxazin-. <i>European Journal of Neuroscience</i> , 2007, 25, 3305-3311.	1.2	15
64	The relationship between physical activity, clinical and cognitive characteristics and BDNF mRNA levels in patients with severe mental disorders. <i>World Journal of Biological Psychiatry</i> , 2019, 20, 567-576.	1.3	15
65	Methodology for clinical genotyping of CYP2D6 and CYP2C19. <i>Translational Psychiatry</i> , 2021, 11, 596.	2.4	15
66	Genome-wide analysis of LPS-induced inflammatory response in the rat ventral hippocampus: Modulatory activity of the antidepressant agomelatine. <i>World Journal of Biological Psychiatry</i> , 2018, 19, 390-401.	1.3	13
67	The Long-Term Effects of Early Life Stress on the Modulation of miR-19 Levels. <i>Frontiers in Psychiatry</i> , 2020, 11, 389.	1.3	13
68	Social isolation in adolescence and long-term changes in the gut microbiota composition and in the hippocampal inflammation: Implications for psychiatric disorders â€œ Dirk Hellhammer Award Paper 2021. <i>Psychoneuroendocrinology</i> , 2021, 133, 105416.	1.3	12
69	Identifying causative mechanisms linking early-life stress to psycho-cardio-metabolic multi-morbidity: The EarlyCause project. <i>PLoS ONE</i> , 2021, 16, e0245475.	1.1	9
70	A novel murine model to study the impact of maternal depression and antidepressant treatment on biobehavioral functions in the offspring. <i>Molecular Psychiatry</i> , 2021, 26, 6756-6772.	4.1	9
71	Alterations in â€œinflammatoryâ€™ pathways in the rat prefrontal cortex as early biological predictors of the long-term negative consequences of exposure to stress early in life. <i>Psychoneuroendocrinology</i> , 2021, 124, 104794.	1.3	7
72	High-fat diet during adulthood interacts with prenatal stress, affecting both brain inflammatory and neuroendocrine markers in male rats. <i>European Journal of Neuroscience</i> , 2022, 55, 2326-2340.	1.2	7

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73	Cause or consequence? Understanding the role of cortisol in the increased inflammation observed in depression. <i>Current Opinion in Endocrine and Metabolic Research</i> , 2022, 24, 100356.	0.6	7
74	Integrating "Omics" Approaches to Prioritize New Pathogenetic Mechanisms for Mental Disorders. <i>Neuropsychopharmacology</i> , 2018, 43, 227-228.	2.8	5
75	Neurotrophic factors, childhood trauma and psychiatric disorders: A systematic review of genetic, biochemical, cognitive and imaging studies to identify potential biomarkers. <i>Journal of Affective Disorders</i> , 2022, 308, 76-88.	2.0	4
76	Convergent Functional Genomics approach to prioritize molecular targets of risk in early life stress-related psychiatric disorders. <i>Brain, Behavior, &amp; Immunity - Health</i> , 2020, 8, 100120.	1.3	2
77	Effect of a probiotic administration on inflammatory profile and clinical features in patients with Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2020, 16, e042737.	0.4	1
78	Exploring the role of immune pathways in the risk and development of depression in adolescence: Research protocol of the IDEA-FLAME study. <i>Brain, Behavior, &amp; Immunity - Health</i> , 2021, 18, 100396.	1.3	1
79	Genetic Variations and Association. <i>International Review of Neurobiology</i> , 2010, 94, 129-151.	0.9	0
80	S18. THE RELATIONSHIP BETWEEN PHYSICAL ACTIVITY, CLINICAL AND COGNITIVE CHARACTERISTICS AND BDNF MRNA LEVELS IN PATIENTS WITH SEVERE MENTAL DISORDERS. <i>Schizophrenia Bulletin</i> , 2019, 45, S312-S312.	2.3	0
81	Association between microbiota dysbiosis and endothelial dysfunction in Alzheimer's disease: An in vivo cross-sectional study. <i>Alzheimer's and Dementia</i> , 2020, 16, e042708.	0.4	0