

Naguib Mechawar

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9556124/publications.pdf>

Version: 2024-02-01

114
papers

7,949
citations

57631

44
h-index

56606

83
g-index

128
all docs

128
docs citations

128
times ranked

10680
citing authors

#	ARTICLE	IF	CITATIONS
1	Sex-specific transcriptional signatures in human depression. <i>Nature Medicine</i> , 2017, 23, 1102-1111.	15.2	532
2	Stress, serotonin, and hippocampal neurogenesis in relation to depression and antidepressant effects. <i>Neuroscience and Biobehavioral Reviews</i> , 2014, 38, 173-192.	2.9	509
3	Evidence for increased microglial priming and macrophage recruitment in the dorsal anterior cingulate white matter of depressed suicides. <i>Brain, Behavior, and Immunity</i> , 2014, 42, 50-59.	2.0	396
4	Global Brain Gene Expression Analysis Links Glutamatergic and GABAergic Alterations to Suicide and Major Depression. <i>PLoS ONE</i> , 2009, 4, e6585.	1.1	333
5	Differential Glucocorticoid Receptor Exon 1B, 1C, and 1H Expression and Methylation in Suicide Completers with a History of Childhood Abuse. <i>Biological Psychiatry</i> , 2012, 72, 41-48.	0.7	311
6	miR-1202 is a primate-specific and brain-enriched microRNA involved in major depression and antidepressant treatment. <i>Nature Medicine</i> , 2014, 20, 764-768.	15.2	266
7	Morphometric characterization of microglial phenotypes in human cerebral cortex. <i>Journal of Neuroinflammation</i> , 2014, 11, 12.	3.1	258
8	Single-nucleus transcriptomics of the prefrontal cortex in major depressive disorder implicates oligodendrocyte precursor cells and excitatory neurons. <i>Nature Neuroscience</i> , 2020, 23, 771-781.	7.1	258
9	The neurodevelopmental origins of suicidal behavior. <i>Trends in Neurosciences</i> , 2012, 35, 14-23.	4.2	250
10	Ultrastructural evidence for diffuse transmission by monoamine and acetylcholine neurons of the central nervous system. <i>Progress in Brain Research</i> , 2000, 125, 27-47.	0.9	207
11	Molecular adaptations of the blood-brain barrier promote stress resilience vs. depression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 3326-3336.	3.3	190
12	Astrocytic Hypertrophy in Anterior Cingulate White Matter of Depressed Suicides. <i>Neuropsychopharmacology</i> , 2011, 36, 2650-2658.	2.8	185
13	Genome-Wide Methylation Changes in the Brains of Suicide Completers. <i>American Journal of Psychiatry</i> , 2013, 170, 511-520.	4.0	165
14	Molecular basis of programmed cell death involved in neurodegeneration. <i>Trends in Neurosciences</i> , 2005, 28, 670-676.	4.2	146
15	Association of a History of Child Abuse With Impaired Myelination in the Anterior Cingulate Cortex: Convergent Epigenetic, Transcriptional, and Morphological Evidence. <i>American Journal of Psychiatry</i> , 2017, 174, 1185-1194.	4.0	146
16	MicroRNAs 146a/b-5 and 425-3p and 24-3p are markers of antidepressant response and regulate MAPK/Wnt-system genes. <i>Nature Communications</i> , 2017, 8, 15497.	5.8	144
17	Cholinergic innervation in adult rat cerebral cortex: A quantitative immunocytochemical description. <i>Journal of Comparative Neurology</i> , 2000, 428, 305-318.	0.9	130
18	Resilience to chronic stress is mediated by noradrenergic regulation of dopamine neurons. <i>Nature Neuroscience</i> , 2016, 19, 560-563.	7.1	130

#	ARTICLE	IF	CITATIONS
19	Through the looking glass: Examining neuroanatomical evidence for cellular alterations in major depression. <i>Journal of Psychiatric Research</i> , 2009, 43, 947-961.	1.5	129
20	Nicotinic receptors regulate the survival of newborn neurons in the adult olfactory bulb. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 9822-9826.	3.3	99
21	Regulatory role of miRNAs in polyamine gene expression in the prefrontal cortex of depressed suicide completers. <i>International Journal of Neuropsychopharmacology</i> , 2014, 17, 23-32.	1.0	99
22	Distribution of vesicular glutamate transporters in the human brain. <i>Frontiers in Neuroanatomy</i> , 2015, 9, 23.	0.9	88
23	Neuropeptide and Small Transmitter Coexistence: Fundamental Studies and Relevance to Mental Illness. <i>Frontiers in Neural Circuits</i> , 2018, 12, 106.	1.4	87
24	Vascular and blood-brain barrier-related changes underlie stress responses and resilience in female mice and depression in human tissue. <i>Nature Communications</i> , 2022, 13, 164.	5.8	75
25	Regulation of a Truncated Form of Tropomyosin-Related Kinase B (TrkB) by Hsa-miR-185* in Frontal Cortex of Suicide Completers. <i>PLoS ONE</i> , 2012, 7, e39301.	1.1	71
26	Translational control of depression-like behavior via phosphorylation of eukaryotic translation initiation factor 4E. <i>Nature Communications</i> , 2018, 9, 2459.	5.8	65
27	Repression of Astrocytic Connexins in Cortical and Subcortical Brain Regions and Prefrontal Enrichment of H3K9me3 in Depression and Suicide. <i>International Journal of Neuropsychopharmacology</i> , 2017, 20, pyw071.	1.0	63
28	Hippocampal GABAergic Neurons are Susceptible to Amyloid- β^2 Toxicity in vitro and are Decreased in Number in the Alzheimer's Disease TgCRND8 Mouse Model. <i>Journal of Alzheimer's Disease</i> , 2012, 29, 293-308.	1.2	61
29	Assessment of Striatal Dopamine Transporter Binding in Individuals With Major Depressive Disorder. <i>JAMA Psychiatry</i> , 2019, 76, 854.	6.0	61
30	Mutations in ACTL6B Cause Neurodevelopmental Deficits and Epilepsy and Lead to Loss of Dendrites in Human Neurons. <i>American Journal of Human Genetics</i> , 2019, 104, 815-834.	2.6	59
31	SORL1 and SIRT1 mRNA expression and promoter methylation levels in aging and Alzheimer's Disease. <i>Neurochemistry International</i> , 2012, 61, 973-975.	1.9	58
32	Functional DNA methylation in a transcript specific 3'UTR region of TrkB associates with suicide. <i>Epigenetics</i> , 2014, 9, 1061-1070.	1.3	58
33	$\alpha 7$ Nicotinic receptor activation reduces amyloid-induced apoptosis by inhibiting caspase-independent death through phosphatidylinositol 3-kinase signaling. <i>Journal of Neurochemistry</i> , 2011, 119, 848-858.	2.1	57
34	Regional and sub-regional differences in hippocampal GABAergic neuronal vulnerability in the TgCRND8 mouse model of Alzheimer's disease. <i>Frontiers in Aging Neuroscience</i> , 2015, 7, 30.	1.7	57
35	High Resolution Dissection of Reactive Glial Nets in Alzheimer's Disease. <i>Scientific Reports</i> , 2016, 6, 24544.	1.6	56
36	Ultrastructural features of the acetylcholine innervation in the developing parietal cortex of rat. <i>Journal of Comparative Neurology</i> , 2002, 443, 250-258.	0.9	55

#	ARTICLE	IF	CITATIONS
37	Excitatory Inputs Determine Phase-Locking Strength and Spike-Timing of CA1 Stratum Oriens/Alveus Parvalbumin and Somatostatin Interneurons during Intrinsically Generated Hippocampal Theta Rhythm. <i>Journal of Neuroscience</i> , 2016, 36, 6605-6622.	1.7	55
38	Implication of cerebral astrocytes in major depression: A review of fine neuroanatomical evidence in humans. <i>Glia</i> , 2021, 69, 2077-2099.	2.5	54
39	Analysis of HSPA8 and HSPA9 mRNA Expression and Promoter Methylation in the Brain and Blood of Alzheimer's Disease Patients. <i>Journal of Alzheimer's Disease</i> , 2013, 38, 165-170.	1.2	53
40	Disruption of GRIN2B Impairs Differentiation in Human Neurons. <i>Stem Cell Reports</i> , 2018, 11, 183-196.	2.3	53
41	The emerging tale of microglia in psychiatric disorders. <i>Neuroscience and Biobehavioral Reviews</i> , 2021, 131, 1-29.	2.9	53
42	Evidence of Altered Polyamine Concentrations in Cerebral Cortex of Suicide Completers. <i>Neuropsychopharmacology</i> , 2010, 35, 1477-1484.	2.8	52
43	Moderate decline in select synaptic markers in the prefrontal cortex (BA9) of patients with Alzheimer's disease at various cognitive stages. <i>Scientific Reports</i> , 2018, 8, 938.	1.6	51
44	Subchronic Peripheral Neuregulin-1 Increases Ventral Hippocampal Neurogenesis and Induces Antidepressant-Like Effects. <i>PLoS ONE</i> , 2011, 6, e26610.	1.1	50
45	Anterior cingulate pyramidal neurons display altered dendritic branching in depressed suicides. <i>Journal of Psychiatric Research</i> , 2010, 44, 286-293.	1.5	49
46	Expression map of 78 brain-expressed mouse orphan GPCRs provides a translational resource for neuropsychiatric research. <i>Communications Biology</i> , 2018, 1, 102.	2.0	49
47	Astrocytic Epoxyeicosatrienoic Acid Signaling in the Medial Prefrontal Cortex Modulates Depressive-like Behaviors. <i>Journal of Neuroscience</i> , 2019, 39, 4606-4623.	1.7	49
48	Comparative analysis of cholinergic innervation in the dorsal hippocampus of adult mouse and rat: A quantitative immunocytochemical study. <i>Hippocampus</i> , 2002, 12, 206-217.	0.9	48
49	Evidence for the Involvement of Apoptosis-Inducing Factor-Mediated Caspase-Independent Neuronal Death in Alzheimer Disease. <i>American Journal of Pathology</i> , 2010, 176, 2209-2218.	1.9	47
50	miR-323a regulates ERBB4 and is involved in depression. <i>Molecular Psychiatry</i> , 2021, 26, 4191-4204.	4.1	47
51	Quantified distribution of serotonin transporter and receptors during the postnatal development of the rat barrel field cortex. <i>Developmental Brain Research</i> , 1998, 107, 159-163.	2.1	46
52	Down-regulation of cholinergic signaling in the habenula induces anhedonia-like behavior. <i>Scientific Reports</i> , 2017, 7, 900.	1.6	45
53	Developmental trajectory of oligodendrocyte progenitor cells in the human brain revealed by single cell RNA sequencing. <i>Glia</i> , 2020, 68, 1291-1303.	2.5	44
54	Microenvironmental Determinants of Adult Neural Stem Cell Proliferation and Lineage Commitment in the Healthy and Injured Central Nervous System. <i>Current Stem Cell Research and Therapy</i> , 2008, 3, 163-184.	0.6	44

#	ARTICLE	IF	CITATIONS
55	Effects of Postmortem Interval on Biomolecule Integrity in the Brain. <i>Journal of Neuropathology and Experimental Neurology</i> , 2015, 74, 459-469.	0.9	43
56	Alterations in the neuropeptide galanin system in major depressive disorder involve levels of transcripts, methylation, and peptide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E8472-E8481.	3.3	43
57	Amygdalar expression of proteins associated with neuroplasticity in major depression and suicide. <i>Journal of Psychiatric Research</i> , 2013, 47, 384-390.	1.5	42
58	Phenotypic Alterations in Hippocampal NPY- and PV-Expressing Interneurons in a Presymptomatic Transgenic Mouse Model of Alzheimer's Disease. <i>Frontiers in Aging Neuroscience</i> , 2016, 8, 327.	1.7	39
59	Analysis of oxysterols and cholesterol in prefrontal cortex of suicides. <i>International Journal of Neuropsychopharmacology</i> , 2013, 16, 1241-1249.	1.0	38
60	GPR56/ADGRG1 is associated with response to antidepressant treatment. <i>Nature Communications</i> , 2020, 11, 1635.	5.8	38
61	MICMAC: An automated pipeline for high-throughput characterization and classification of three-dimensional microglia morphologies in mouse and human postmortem brain samples. <i>Glia</i> , 2019, 67, 1496-1509.	2.5	36
62	Expression of cortical and hippocampal apoptosis-inducing factor (AIF) in aging and Alzheimer's disease. <i>Neurobiology of Aging</i> , 2007, 28, 351-356.	1.5	35
63	Evidence of decreased gap junction coupling between astrocytes and oligodendrocytes in the anterior cingulate cortex of depressed suicides. <i>Neuropsychopharmacology</i> , 2019, 44, 2099-2111.	2.8	35
64	Identification and Characterization of Spermidine/Spermine N1-Acetyltransferase Promoter Variants in Suicide Completers. <i>Biological Psychiatry</i> , 2009, 66, 460-467.	0.7	33
65	Antidepressive effects of targeting ELK-1 signal transduction. <i>Nature Medicine</i> , 2018, 24, 591-597.	15.2	33
66	How stress physically re-shapes the brain: Impact on brain cell shapes, numbers and connections in psychiatric disorders. <i>Neuroscience and Biobehavioral Reviews</i> , 2021, 124, 193-215.	2.9	33
67	Structural determinants of the roles of acetylcholine in cerebral cortex. <i>Progress in Brain Research</i> , 2004, 145, 45-58.	0.9	31
68	Targeted Inactivation of <i>Mapk4</i> in Mice Reveals Specific Nonredundant Functions of Erk3/Erk4 Subfamily Mitogen-Activated Protein Kinases. <i>Molecular and Cellular Biology</i> , 2010, 30, 5752-5763.	1.1	30
69	Cellular and Molecular Inflammatory Profile of the Choroid Plexus in Depression and Suicide. <i>Frontiers in Psychiatry</i> , 2015, 6, 138.	1.3	29
70	Deficit in sustained attention following selective cholinergic lesion of the pedunculopontine tegmental nucleus in rat, as measured with both post-mortem immunocytochemistry and in vivo PET imaging with [18F]fluoroethoxybenzovesamicol. <i>Behavioural Brain Research</i> , 2015, 278, 107-114.	1.2	29
71	Medium throughput bisulfite sequencing for accurate detection of 5-methylcytosine and 5-hydroxymethylcytosine. <i>BMC Genomics</i> , 2017, 18, 96.	1.2	29
72	Regional brain volume changes following chronic antipsychotic administration are mediated by the dopamine D2 receptor. <i>NeuroImage</i> , 2018, 176, 226-238.	2.1	29

#	ARTICLE	IF	CITATIONS
73	CNP and DPYSL2 mRNA Expression and Promoter Methylation Levels in Brain of Alzheimer's Disease Patients. <i>Journal of Alzheimer's Disease</i> , 2012, 33, 349-355.	1.2	27
74	Microglial Inflammatory-Metabolic Pathways and Their Potential Therapeutic Implication in Major Depressive Disorder. <i>Frontiers in Psychiatry</i> , 0, 13, .	1.3	27
75	Fine structural features of the acetylcholine innervation in the developing neostriatum of rat. <i>Journal of Comparative Neurology</i> , 2003, 460, 280-291.	0.9	26
76	Parvalbumin interneuron alterations in stress-related mood disorders: A systematic review. <i>Neurobiology of Stress</i> , 2021, 15, 100380.	1.9	26
77	Effects of neuregulin-1 administration on neurogenesis in the adult mouse hippocampus and characterization of immature neurons along the septotemporal axis. <i>Scientific Reports</i> , 2016, 6, 30467.	1.6	24
78	Regulation of impulsive and aggressive behaviours by a novel lncRNA. <i>Molecular Psychiatry</i> , 2021, 26, 3751-3764.	4.1	24
79	Widespread Decrease of Cerebral Vimentin-Immunoreactive Astrocytes in Depressed Suicides. <i>Frontiers in Psychiatry</i> , 2021, 12, 640963.	1.3	24
80	Increased doublecortin (DCX) expression and incidence of DCX-immunoreactive multipolar cells in the subventricular zone-olfactory bulb system of suicides. <i>Frontiers in Neuroanatomy</i> , 2015, 9, 74.	0.9	22
81	Developmental profile of neuregulin receptor ErbB4 in postnatal rat cerebral cortex and hippocampus. <i>Neuroscience</i> , 2007, 148, 126-139.	1.1	21
82	The Consortium for the early identification of Alzheimer's diseaseâ€œQuebec (CIMAâ€œQ). <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2019, 11, 787-796.	1.2	21
83	Characterization of Vimentin-Immunoreactive Astrocytes in the Human Brain. <i>Frontiers in Neuroanatomy</i> , 2020, 14, 31.	0.9	21
84	Alcohol dependence-related increase of glial cell density in the anterior cingulate cortex of suicide completers. <i>Journal of Psychiatry and Neuroscience</i> , 2009, 34, 281-8.	1.4	21
85	Child abuse associates with increased recruitment of perineuronal nets in the ventromedial prefrontal cortex: a possible implication of oligodendrocyte progenitor cells. <i>Molecular Psychiatry</i> , 2022, 27, 1552-1561.	4.1	20
86	Cholesterol and phospholipids in frontal cortex and synaptosomes of suicide completers: Relationship with endosomal lipid trafficking genes. <i>Journal of Psychiatric Research</i> , 2013, 47, 272-279.	1.5	19
87	Developmental Hippocampal Neuroplasticity in a Model of Nicotine Replacement Therapy during Pregnancy and Breastfeeding. <i>PLoS ONE</i> , 2012, 7, e37219.	1.1	18
88	PET imaging with [18F]fluoroethoxybenzovesamicol ([18F]FEOBV) following selective lesion of cholinergic pedunculopontine tegmental neurons in rat. <i>Nuclear Medicine and Biology</i> , 2014, 41, 96-101.	0.3	18
89	Decreased expression of nociceptin/orphanin FQ in the dorsal anterior cingulate cortex of suicides. <i>European Neuropsychopharmacology</i> , 2015, 25, 2008-2014.	0.3	18
90	Stimulation of L-type calcium channels increases tyrosine hydroxylase and dopamine in ventral midbrain cells induced from somatic cells. <i>Stem Cells Translational Medicine</i> , 2020, 9, 697-712.	1.6	17

#	ARTICLE	IF	CITATIONS
91	Disrupting D1-NMDA or D2-NMDA receptor heteromerization prevents cocaine's rewarding effects but preserves natural reward processing. <i>Science Advances</i> , 2021, 7, eabg5970.	4.7	16
92	Cocaine-related DNA methylation in caudate neurons alters 3D chromatin structure of the IRXA gene cluster. <i>Molecular Psychiatry</i> , 2021, 26, 3134-3151.	4.1	15
93	Extraction of nuclei from archived postmortem tissues for single-nucleus sequencing applications. <i>Nature Protocols</i> , 2021, 16, 2788-2801.	5.5	15
94	Role of D3 dopamine receptors in modulating neuroanatomical changes in response to antipsychotic administration. <i>Scientific Reports</i> , 2019, 9, 7850.	1.6	14
95	Î±2â€¦glycine receptors modulate adult hippocampal neurogenesis and spatial memory. <i>Developmental Neurobiology</i> , 2017, 77, 1430-1441.	1.5	13
96	Severe childhood and adulthood stress associates with neocortical layer-specific reductions of mature spines in psychiatric disorders. <i>Neurobiology of Stress</i> , 2020, 13, 100270.	1.9	13
97	Lesch-Nyhan disease causes impaired energy metabolism and reduced developmental potential in midbrain dopaminergic cells. <i>Stem Cell Reports</i> , 2021, 16, 1749-1762.	2.3	11
98	Resilient protein co-expression network in male orbitofrontal cortex layer 2/3 during human aging. <i>Neurobiology of Aging</i> , 2017, 58, 180-190.	1.5	10
99	Oxytocin receptor expression and epigenetic regulation in the anterior cingulate cortex of individuals with a history of severe childhood abuse. <i>Psychoneuroendocrinology</i> , 2022, 136, 105600.	1.3	9
100	Methylation of the tyrosine hydroxylase gene is dysregulated by cocaine dependence in the human striatum. <i>iScience</i> , 2021, 24, 103169.	1.9	8
101	Microglia phenotypes are associated with subregional patterns of concomitant tau, amyloid-Î² and Î±-synuclein pathologies in the hippocampus of patients with Alzheimer's disease and dementia with Lewy bodies. <i>Acta Neuropathologica Communications</i> , 2022, 10, 36.	2.4	7
102	The role of H3K9 acetylation and gene expression in different brain regions of Alzheimer's disease patients. <i>Epigenomics</i> , 2022, 14, 651-670.	1.0	7
103	Targeting microglia-oligodendrocyte crosstalk in neurodegenerative and psychiatric disorders. <i>Drug Discovery Today</i> , 2022, 27, 2562-2573.	3.2	6
104	Global and Site-Specific Changes in 5-Methylcytosine and 5-Hydroxymethylcytosine after Extended Post-mortem Interval. <i>Frontiers in Genetics</i> , 2016, 7, 120.	1.1	5
105	Expression of apoptosis-inducing factor (AIF) in the aged rat brain. <i>Neurobiology of Aging</i> , 2011, 32, 179-180.	1.5	4
106	Characterization of Cerebellum-Specific Ribosomal DNA Epigenetic Modifications in Alzheimer's Disease: Should the Cerebellum Serve as a Control Tissue After All?. <i>Molecular Neurobiology</i> , 2020, 57, 2563-2571.	1.9	4
107	Netrin G1: its downregulation in the nucleus accumbens of cocaine-conditioned mice and genetic association in human cocaine dependence. <i>Addiction Biology</i> , 2018, 23, 448-460.	1.4	3
108	Fatty acid dysregulation in the anterior cingulate cortex of depressed suicides with a history of child abuse. <i>Translational Psychiatry</i> , 2021, 11, 535.	2.4	3

#	ARTICLE	IF	CITATIONS
109	P4-091: CIMA-Q: QUEBEC'S CONSORTIUM TO IDENTIFY PRODROMAL ALZHEIMER'S DISEASE. , 2014, 10, P817-P818.		0
110	MG-124â€¦The investicate project: Identification of new variation, establishment of stem cells, and tissue collection advancing treatment efforts. Journal of Medical Genetics, 2015, 52, A9.2-A9.	1.5	0
111	110. Early Life Adversity Associates with Altered Oligodendrocyte Function and Decreased Myelination in the Anterior Cingulate Cortex of Depressed Suicides. Biological Psychiatry, 2017, 81, S46.	0.7	0
112	202. Impaired Astrocyte-Oligodendrocyte Gap Junction Coupling in the Anterior Cingulate Cortex of Depressed Suicides. Biological Psychiatry, 2019, 85, S84.	0.7	0
113	Social Stress Induces Blood-Brain Barrier Leakiness and Molecular Alterations Promoting Depression or Stress Resilience. Biological Psychiatry, 2020, 87, S14-S15.	0.7	0
114	Neural biomarkers of suicidal behavior: from cognition and circuits to cells (and back). , 2022, , 19-38.		0