

Naguib Mechawar

List of Publications by Year in descending order

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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	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
2	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
3	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
4	Neural biomarkers of suicidal behavior: from cognition and circuits to cells (and back). , 2022, , 19-38.		0
5	Microglia phenotypes are associated with subregional patterns of concomitant tau, amyloid- β^2 and β -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
6	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
7	Targeting microglia-oligodendrocyte crosstalk in neurodegenerative and psychiatric disorders. <i>Drug Discovery Today</i> , 2022, 27, 2562-2573.	3.2	6
8	Regulation of impulsive and aggressive behaviours by a novel lncRNA. <i>Molecular Psychiatry</i> , 2021, 26, 3751-3764.	4.1	24
9	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
10	miR-323a regulates ERBB4 and is involved in depression. <i>Molecular Psychiatry</i> , 2021, 26, 4191-4204.	4.1	47
11	Widespread Decrease of Cerebral Vimentin-Immunoreactive Astrocytes in Depressed Suicides. <i>Frontiers in Psychiatry</i> , 2021, 12, 640963.	1.3	24
12	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
13	Extraction of nuclei from archived postmortem tissues for single-nucleus sequencing applications. <i>Nature Protocols</i> , 2021, 16, 2788-2801.	5.5	15
14	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
15	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
16	Methylation of the tyrosine hydroxylase gene is dysregulated by cocaine dependence in the human striatum. <i>iScience</i> , 2021, 24, 103169.	1.9	8
17	Parvalbumin interneuron alterations in stress-related mood disorders: A systematic review. <i>Neurobiology of Stress</i> , 2021, 15, 100380.	1.9	26
18	The emerging tale of microglia in psychiatric disorders. <i>Neuroscience and Biobehavioral Reviews</i> , 2021, 131, 1-29.	2.9	53

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19	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
20	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
21	Characterization of Vimentin-Immunoreactive Astrocytes in the Human Brain. <i>Frontiers in Neuroanatomy</i> , 2020, 14, 31.	0.9	21
22	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
23	Social Stress Induces Blood-Brain Barrier Leakiness and Molecular Alterations Promoting Depression or Stress Resilience. <i>Biological Psychiatry</i> , 2020, 87, S14-S15.	0.7	0
24	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
25	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
26	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
27	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
28	GPR56/ADGRG1 is associated with response to antidepressant treatment. <i>Nature Communications</i> , 2020, 11, 1635.	5.8	38
29	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
30	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
31	Role of D3 dopamine receptors in modulating neuroanatomical changes in response to antipsychotic administration. <i>Scientific Reports</i> , 2019, 9, 7850.	1.6	14
32	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
33	Assessment of Striatal Dopamine Transporter Binding in Individuals With Major Depressive Disorder. <i>JAMA Psychiatry</i> , 2019, 76, 854.	6.0	61
34	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
35	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
36	202. Impaired Astrocyte-Oligodendrocyte Gap Junction Coupling in the Anterior Cingulate Cortex of Depressed Suicides. <i>Biological Psychiatry</i> , 2019, 85, S84.	0.7	0

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37	The Consortium for the early identification of Alzheimer's disease—Quebec (CIMA—Q). Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2019, 11, 787-796.	1.2	21
38	Moderate decline in select synaptic markers in the prefrontal cortex (BA9) of patients with Alzheimer's disease at various cognitive stages. Scientific Reports, 2018, 8, 938.	1.6	51
39	Regional brain volume changes following chronic antipsychotic administration are mediated by the dopamine D2 receptor. NeuroImage, 2018, 176, 226-238.	2.1	29
40	Netrin G1: its downregulation in the nucleus accumbens of cocaine-conditioned mice and genetic association in human cocaine dependence. Addiction Biology, 2018, 23, 448-460.	1.4	3
41	Neuropeptide and Small Transmitter Coexistence: Fundamental Studies and Relevance to Mental Illness. Frontiers in Neural Circuits, 2018, 12, 106.	1.4	87
42	Expression map of 78 brain-expressed mouse orphan GPCRs provides a translational resource for neuropsychiatric research. Communications Biology, 2018, 1, 102.	2.0	49
43	Disruption of GRIN2B Impairs Differentiation in Human Neurons. Stem Cell Reports, 2018, 11, 183-196.	2.3	53
44	Translational control of depression-like behavior via phosphorylation of eukaryotic translation initiation factor 4E. Nature Communications, 2018, 9, 2459.	5.8	65
45	Antidepressive effects of targeting ELK-1 signal transduction. Nature Medicine, 2018, 24, 591-597.	15.2	33
46	Repression of Astrocytic Connexins in Cortical and Subcortical Brain Regions and Prefrontal Enrichment of H3K9me3 in Depression and Suicide. International Journal of Neuropsychopharmacology, 2017, 20, pyw071.	1.0	63
47	Down-regulation of cholinergic signaling in the habenula induces anhedonia-like behavior. Scientific Reports, 2017, 7, 900.	1.6	45
48	MicroRNAs 146a/b-5 and 425-3p and 24-3p are markers of antidepressant response and regulate MAPK/Wnt-system genes. Nature Communications, 2017, 8, 15497.	5.8	144
49	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
50	— Glycine receptors modulate adult hippocampal neurogenesis and spatial memory. Developmental Neurobiology, 2017, 77, 1430-1441.	1.5	13
51	Sex-specific transcriptional signatures in human depression. Nature Medicine, 2017, 23, 1102-1111.	15.2	532
52	Resilient protein co-expression network in male orbitofrontal cortex layer 2/3 during human aging. Neurobiology of Aging, 2017, 58, 180-190.	1.5	10
53	Association of a History of Child Abuse With Impaired Myelination in the Anterior Cingulate Cortex: Convergent Epigenetic, Transcriptional, and Morphological Evidence. American Journal of Psychiatry, 2017, 174, 1185-1194.	4.0	146
54	Medium throughput bisulfite sequencing for accurate detection of 5-methylcytosine and 5-hydroxymethylcytosine. BMC Genomics, 2017, 18, 96.	1.2	29

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55	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
56	High Resolution Dissection of Reactive Glial Nets in Alzheimer's Disease. <i>Scientific Reports</i> , 2016, 6, 24544.	1.6	56
57	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
58	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
59	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
60	Resilience to chronic stress is mediated by noradrenergic regulation of dopamine neurons. <i>Nature Neuroscience</i> , 2016, 19, 560-563.	7.1	130
61	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
62	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
63	MG-124...The investigate project: Identification of new variation, establishment of stem cells, and tissue collection advancing treatment efforts. <i>Journal of Medical Genetics</i> , 2015, 52, A9.2-A9.	1.5	0
64	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
65	Distribution of vesicular glutamate transporters in the human brain. <i>Frontiers in Neuroanatomy</i> , 2015, 9, 23.	0.9	88
66	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
67	Cellular and Molecular Inflammatory Profile of the Choroid Plexus in Depression and Suicide. <i>Frontiers in Psychiatry</i> , 2015, 6, 138.	1.3	29
68	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
69	Deficit in sustained attention following selective cholinergic lesion of the pedunclopontine 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
70	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
71	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
72	PET imaging with [18F]fluoroethoxybenzovesamicol ([18F]FEOBV) following selective lesion of cholinergic pedunclopontine tegmental neurons in rat. <i>Nuclear Medicine and Biology</i> , 2014, 41, 96-101.	0.3	18

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73	Morphometric characterization of microglial phenotypes in human cerebral cortex. <i>Journal of Neuroinflammation</i> , 2014, 11, 12.	3.1	258
74	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
75	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
76	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
77	P4-091: CIMA-Q: QUEBEC'S CONSORTIUM TO IDENTIFY PRODROMAL ALZHEIMER'S DISEASE. , 2014, 10, P817-P818.		0
78	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
79	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
80	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
81	Genome-Wide Methylation Changes in the Brains of Suicide Completers. <i>American Journal of Psychiatry</i> , 2013, 170, 511-520.	4.0	165
82	Analysis of oxysterols and cholesterol in prefrontal cortex of suicides. <i>International Journal of Neuropsychopharmacology</i> , 2013, 16, 1241-1249.	1.0	38
83	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
84	The neurodevelopmental origins of suicidal behavior. <i>Trends in Neurosciences</i> , 2012, 35, 14-23.	4.2	250
85	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
86	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
87	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
88	Developmental Hippocampal Neuroplasticity in a Model of Nicotine Replacement Therapy during Pregnancy and Breastfeeding. <i>PLoS ONE</i> , 2012, 7, e37219.	1.1	18
89	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
90	Astrocytic Hypertrophy in Anterior Cingulate White Matter of Depressed Suicides. <i>Neuropsychopharmacology</i> , 2011, 36, 2650-2658.	2.8	185

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91	Expression of apoptosis-inducing factor (AIF) in the aged rat brain. <i>Neurobiology of Aging</i> , 2011, 32, 179-180.	1.5	4
92	±7 Nicotinic receptor activation reduces ±7 amyloid±7 induced apoptosis by inhibiting caspase±7 independent death through phosphatidylinositol 3±7 kinase signaling. <i>Journal of Neurochemistry</i> , 2011, 119, 848-858.	2.1	57
93	Subchronic Peripheral Neuregulin-1 Increases Ventral Hippocampal Neurogenesis and Induces Antidepressant-Like Effects. <i>PLoS ONE</i> , 2011, 6, e26610.	1.1	50
94	Anterior cingulate pyramidal neurons display altered dendritic branching in depressed suicides. <i>Journal of Psychiatric Research</i> , 2010, 44, 286-293.	1.5	49
95	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
96	Evidence of Altered Polyamine Concentrations in Cerebral Cortex of Suicide Completers. <i>Neuropsychopharmacology</i> , 2010, 35, 1477-1484.	2.8	52
97	Evidence for the Involvement of Apoptosis-Inducing Factor±7 Mediated Caspase-Independent Neuronal Death in Alzheimer Disease. <i>American Journal of Pathology</i> , 2010, 176, 2209-2218.	1.9	47
98	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
99	Identification and Characterization of Spermidine/Spermine N1-Acetyltransferase Promoter Variants in Suicide Completers. <i>Biological Psychiatry</i> , 2009, 66, 460-467.	0.7	33
100	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
101	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
102	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
103	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
104	Developmental profile of neuregulin receptor ErbB4 in postnatal rat cerebral cortex and hippocampus. <i>Neuroscience</i> , 2007, 148, 126-139.	1.1	21
105	Molecular basis of programmed cell death involved in neurodegeneration. <i>Trends in Neurosciences</i> , 2005, 28, 670-676.	4.2	146
106	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
107	Structural determinants of the roles of acetylcholine in cerebral cortex. <i>Progress in Brain Research</i> , 2004, 145, 45-58.	0.9	31
108	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

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109	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
110	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
111	Cholinergic innervation in adult rat cerebral cortex: A quantitative immunocytochemical description. <i>Journal of Comparative Neurology</i> , 2000, 428, 305-318.	0.9	130
112	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
113	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
114	Microglial Inflammatory-Metabolic Pathways and Their Potential Therapeutic Implication in Major Depressive Disorder. <i>Frontiers in Psychiatry</i> , 0, 13, .	1.3	27