

# Mojgan Rastegar

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

2,954  
citations

117571

34  
h-index

168321

53  
g-index

63  
all docs

63  
docs citations

63  
times ranked

3370  
citing authors

#	ARTICLE	IF	CITATIONS
1	Epigenetic control. <i>Journal of Cellular Physiology</i> , 2009, 219, 243-250.	2.0	319
2	Cellular commitment in the developing cerebellum. <i>Frontiers in Cellular Neuroscience</i> , 2014, 8, 450.	1.8	152
3	DNA Modifications: Function and Applications in Normal and Disease States. <i>Biology</i> , 2014, 3, 670-723.	1.3	129
4	Rett Syndrome and MeCP2. <i>NeuroMolecular Medicine</i> , 2014, 16, 231-264.	1.8	124
5	Oxytocin mitigated the depressive-like behaviors of maternal separation stress through modulating mitochondrial function and neuroinflammation. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2017, 76, 169-178.	2.5	123
6	Involvement of STAT5 (Signal Transducer and Activator of Transcription 5) and HNF-4 (Hepatocyte Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Endocrinology, 2000, 14, 285-294.	3.7	112
7	Epigenetic control of Hox genes during neurogenesis, development, and disease. <i>Annals of Anatomy</i> , 2010, 192, 261-274.	1.0	85
8	Brain Region-Specific Expression of MeCP2 Isoforms Correlates with DNA Methylation within Mecp2 Regulatory Elements. <i>PLoS ONE</i> , 2014, 9, e90645.	1.1	85
9	Sequential Histone Modifications at Hoxd4 Regulatory Regions Distinguish Anterior from Posterior Embryonic Compartments. <i>Molecular and Cellular Biology</i> , 2004, 24, 8090-8103.	1.1	74
10	Linking Epigenetics to Human Disease and Rett Syndrome: The Emerging Novel and Challenging Concepts in MeCP2 Research. <i>Neural Plasticity</i> , 2012, 2012, 1-10.	1.0	72
11	The multiple functions of melatonin in regenerative medicine. <i>Ageing Research Reviews</i> , 2018, 45, 33-52.	5.0	70
12	MEIS C Termini Harbor Transcriptional Activation Domains That Respond to Cell Signaling. <i>Journal of Biological Chemistry</i> , 2005, 280, 10119-10127.	1.6	69
13	MECP2 Isoform-Specific Vectors with Regulated Expression for Rett Syndrome Gene Therapy. <i>PLoS ONE</i> , 2009, 4, e6810.	1.1	66
14	Mice with an isoform-ablating Mecp2 exon 1 mutation recapitulate the neurologic deficits of Rett syndrome. <i>Human Molecular Genetics</i> , 2014, 23, 2447-2458.	1.4	63
15	Novel MeCP2 Isoform-Specific Antibody Reveals the Endogenous MeCP2E1 Expression in Murine Brain, Primary Neurons and Astrocytes. <i>PLoS ONE</i> , 2012, 7, e49763.	1.1	61
16	Decitabine alters the expression of Mecp2 isoforms via dynamic DNA methylation at the Mecp2 regulatory elements in neural stem cells. <i>Molecular Autism</i> , 2013, 4, 46.	2.6	53
17	Ethanol deregulates Mecp2/MeCP2 in differentiating neural stem cells via interplay between 5-methylcytosine and 5-hydroxymethylcytosine at the Mecp2 regulatory elements. <i>Experimental Neurology</i> , 2015, 265, 102-117.	2.0	53
18	Involvement of D1 and D2 dopamine receptors in the antidepressant-like effects of selegiline in maternal separation model of mouse. <i>Physiology and Behavior</i> , 2016, 163, 107-114.	1.0	52

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19	CCAAT/Enhancer-Binding Protein-1 Is a Component of the Growth Hormone-Regulated Network of Liver Transcription Factors*. <i>Endocrinology</i> , 2000, 141, 1686-1692.	1.4	51
20	Interplay between Chromatin and Trans-acting Factors Regulating the <i>Hoxd4</i> Promoter during Neural Differentiation. <i>Journal of Biological Chemistry</i> , 2006, 281, 25926-25939.	1.6	51
21	Simvastatin Induces Apoptosis in Medulloblastoma Brain Tumor Cells via Mevalonate Cascade Prenylation Substrates. <i>Cancers</i> , 2019, 11, 994.	1.7	50
22	Stereospecificity and PAX6 function direct <i>Hoxd4</i> neural enhancer activity along the antero-posterior axis. <i>Developmental Biology</i> , 2006, 299, 582-593.	0.9	49
23	The Genetic and Epigenetic Journey of Embryonic Stem Cells into Mature Neural Cells. <i>Frontiers in Genetics</i> , 2012, 3, 81.	1.1	49
24	MeCP2-Related Diseases and Animal Models. <i>Diseases (Basel, Switzerland)</i> , 2014, 2, 45-70.	1.0	49
25	Attenuation of oxidative and nitrosative stress in cortical area associates with antidepressant-like effects of tropisetron in male mice following social isolation stress. <i>Brain Research Bulletin</i> , 2016, 124, 150-163.	1.4	45
26	Recent advances in FRET-Based biosensors for biomedical applications. <i>Analytical Biochemistry</i> , 2021, 630, 114323.	1.1	42
27	Perturbation of redox balance after thioredoxin reductase deficiency interrupts autophagy-lysosomal degradation pathway and enhances cell death in nutritionally stressed SH-SY5Y cells. <i>Free Radical Biology and Medicine</i> , 2016, 101, 53-70.	1.3	41
28	$\beta$ 2-microglobulin induces caspase-dependent apoptosis in the CCRF-HSB-2 human leukemia cell line independently of the caspase-3, -8 and -9 pathways but through increased reactive oxygen species. <i>International Journal of Cancer</i> , 2003, 103, 316-327.	2.3	39
29	Overview of the Genetic Basis and Epigenetic Mechanisms that Contribute to FASD Pathobiology. <i>Current Topics in Medicinal Chemistry</i> , 2017, 17, 808-828.	1.0	38
30	Control of gene expression by growth hormone in liver: key role of a network of transcription factors. <i>Molecular and Cellular Endocrinology</i> , 2000, 164, 1-4.	1.6	37
31	Loss of HLTf function promotes intestinal carcinogenesis. <i>Molecular Cancer</i> , 2012, 11, 18.	7.9	37
32	Dynamic expression of MEIS1 homeoprotein in E14.5 forebrain and differentiated forebrain-derived neural stem cells. <i>Annals of Anatomy</i> , 2013, 195, 431-440.	1.0	37
33	MECP2 Mutation Interrupts Nucleolin-mTOR-p70S6K Signaling in Rett Syndrome Patients. <i>Frontiers in Genetics</i> , 2018, 9, 635.	1.1	37
34	$\beta$ 2-microglobulin induces apoptosis in HL-60 human leukemia cell line and its multidrug resistant variants overexpressing MRP1 but lacking Bax or overexpressing P-glycoprotein. <i>Oncogene</i> , 2001, 20, 7006-7020.	2.6	36
35	Streptozotocin induced oxidative stress, innate immune system responses and behavioral abnormalities in male mice. <i>Neuroscience</i> , 2017, 340, 373-383.	1.1	35
36	NMDA receptors are involved in the antidepressant-like effects of capsaicin following amphetamine withdrawal in male mice. <i>Neuroscience</i> , 2016, 329, 122-133.	1.1	32

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37	Experiencing neonatal maternal separation increased pain sensitivity in adult male mice: Involvement of oxytocinergic system. <i>Neuropeptides</i> , 2017, 61, 77-85.	0.9	32
38	Involvement of STAT5 (Signal Transducer and Activator of Transcription 5) and HNF-4 (Hepatocyte Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Endocrinology, 2000, 14, 285-294.	3.7	32
39	Role of DNA Methyl-CpG-Binding Protein MeCP2 in Rett Syndrome Pathobiology and Mechanism of Disease. <i>Biomolecules</i> , 2021, 11, 75.	1.8	31
40	DNA Methylation Contributes to the Differential Expression Levels of Mecp2 in Male Mice Neurons and Astrocytes. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1845.	1.8	30
41	Retrovirus Silencing by an Epigenetic TRIM. <i>Cell</i> , 2007, 131, 13-14.	13.5	29
42	Hepatocyte nuclear factor 6: organization and chromosomal assignment of the rat gene and characterization of its promoter. <i>Biochemical Journal</i> , 1998, 334, 565-569.	1.7	28
43	Chronic Ethanol Exposure Alters DNA Methylation in Neural Stem Cells: Role of Mouse Strain and Sex. <i>Molecular Neurobiology</i> , 2020, 57, 650-667.	1.9	28
44	Nanoparticle-based drug delivery systems to overcome gastric cancer drug resistance. <i>Journal of Drug Delivery Science and Technology</i> , 2022, 70, 103231.	1.4	27
45	Genome-Wide Transcriptome Landscape of Embryonic Brain-Derived Neural Stem Cells Exposed to Alcohol with Strain-Specific Cross-Examination in BL6 and CD1 Mice. <i>Scientific Reports</i> , 2019, 9, 206.	1.6	25
46	The MeCP2E1/E2-BDNF-miR132 Homeostasis Regulatory Network Is Region-Dependent in the Human Brain and Is Impaired in Rett Syndrome Patients. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 763.	1.8	22
47	Differential brain region-specific expression of MeCP2 and BDNF in Rett Syndrome patients: a distinct grey-white matter variation. <i>Neuropathology and Applied Neurobiology</i> , 2020, 46, 735-750.	1.8	20
48	Proteinase-3, a serine protease which mediates doxorubicin-induced apoptosis in the HL-60 leukemia cell line, is downregulated in its doxorubicin-resistant variant. <i>Oncogene</i> , 2002, 21, 5160-5174.	2.6	19
49	Lithium attenuates the proconvulsant effect of adolescent social isolation stress via involvement of the nitreergic system. <i>Epilepsy and Behavior</i> , 2016, 61, 6-13.	0.9	17
50	Protective effects of gabapentin against the seizure susceptibility and comorbid behavioral abnormalities in the early socially isolated mice. <i>European Journal of Pharmacology</i> , 2017, 797, 106-114.	1.7	15
51	Mice with an isoform-ablating Mecp2 exon 1 mutation recapitulate the neurologic deficits of Rett syndrome. <i>Human Molecular Genetics</i> , 2014, 23, 6695-6695.	1.4	13
52	Editorial: Epigenetic Mechanisms and Their Involvement in Rare Diseases. <i>Frontiers in Genetics</i> , 2021, 12, 755076.	1.1	11
53	Transcriptional Regulation of MECP2E1-E2 Isoforms and BDNF by Metformin and Simvastatin through Analyzing Nascent RNA Synthesis in a Human Brain Cell Line. <i>Biomolecules</i> , 2021, 11, 1253.	1.8	10
54	Editorial (Thematic Issue: NeuroEpigenetics and Neurodevelopmental Disorders: From Molecular) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6 Medicinal Chemistry, 2017, 17, 769-770.	1.0	8

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55	Differential Sensitivity of the Protein Translation Initiation Machinery and mTOR Signaling to MECP2 Gain- and Loss-of-Function Involves MeCP2 Isoform-Specific Homeostasis in the Brain. <i>Cells</i> , 2022, 11, 1442.	1.8	8
56	MeCP2 and transcriptional control of eukaryotic gene expression. <i>European Journal of Cell Biology</i> , 2022, 101, 151237.	1.6	8
57	Epigenetics and Cerebellar Neurodevelopmental Disorders. , 2017, , 197-218.		7
58	Ubiquitin ligases and medulloblastoma: genetic markers of the four consensus subgroups identified through transcriptome datasets. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2020, 1866, 165839.	1.8	7
59	ISDN2014_0210: Investigating MeCP2 isoform-specific functions in neurons; Insights on the role of MeCP2 in Rett Syndrome. <i>International Journal of Developmental Neuroscience</i> , 2015, 47, 62-62.	0.7	0
60	ISDN2014_0213: Epigenetic regulation of MeCP2 in neural stem cells and adult brain: Implication of therapeutic strategies for MeCP2-related neurodevelopmental disorders. <i>International Journal of Developmental Neuroscience</i> , 2015, 47, 64-64.	0.7	0
61	Epigenetics: Chromatin Organization and Function. <i>Cardiac and Vascular Biology</i> , 2016, , 1-35.	0.2	0