

Assam El-Osta

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

190
papers

10,391
citations

54
h-index

97
g-index

210
ext. papers

12,141
ext. citations

7.2
avg, IF

6.45
L-index

#	Paper	IF	Citations
190	Transient high glucose causes persistent epigenetic changes and altered gene expression during subsequent normoglycemia. <i>Journal of Experimental Medicine</i> , 2008 , 205, 2409-17	16.6	784
189	gammaH2AX: a sensitive molecular marker of DNA damage and repair. <i>Leukemia</i> , 2010 , 24, 679-86	10.7	717
188	High-Fiber Diet and Acetate Supplementation Change the Gut Microbiota and Prevent the Development of Hypertension and Heart Failure in Hypertensive Mice. <i>Circulation</i> , 2017 , 135, 964-977	16.7	415
187	Hyperglycemia induces a dynamic cooperativity of histone methylase and demethylase enzymes associated with gene-activating epigenetic marks that coexist on the lysine tail. <i>Diabetes</i> , 2009 , 58, 1229-36	9.9	399
186	Microparticles: major transport vehicles for distinct microRNAs in circulation. <i>Cardiovascular Research</i> , 2012 , 93, 633-44	9.9	354
185	NADPH oxidase 1 plays a key role in diabetes mellitus-accelerated atherosclerosis. <i>Circulation</i> , 2013 , 127, 1888-902	16.7	273
184	Brahma links the SWI/SNF chromatin-remodeling complex with MeCP2-dependent transcriptional silencing. <i>Nature Genetics</i> , 2005 , 37, 254-64	36.3	251
183	Genetic targeting or pharmacologic inhibition of NADPH oxidase nox4 provides renoprotection in long-term diabetic nephropathy. <i>Journal of the American Society of Nephrology: JASN</i> , 2014 , 25, 1237-54	12.7	246
182	Epigenetics and metabolism. <i>Circulation Research</i> , 2015 , 116, 715-36	15.7	189
181	Modulation of soluble receptor for advanced glycation end products by angiotensin-converting enzyme-1 inhibition in diabetic nephropathy. <i>Journal of the American Society of Nephrology: JASN</i> , 2005 , 16, 2363-72	12.7	180
180	Epigenetic phenomena linked to diabetic complications. <i>Nature Reviews Endocrinology</i> , 2010 , 6, 665-75	15.2	170
179	Epigenetic changes to the MDR1 locus in response to chemotherapeutic drugs. <i>Oncogene</i> , 2005 , 24, 8061-75	11.7	169
178	Precipitous release of methyl-CpG binding protein 2 and histone deacetylase 1 from the methylated human multidrug resistance gene (MDR1) on activation. <i>Molecular and Cellular Biology</i> , 2002 , 22, 1844-57	4.8	169
177	Genome-wide analysis distinguishes hyperglycemia regulated epigenetic signatures of primary vascular cells. <i>Genome Research</i> , 2011 , 21, 1601-15	9.7	166
176	Epigenetics: mechanisms and implications for diabetic complications. <i>Circulation Research</i> , 2010 , 107, 1403-13	15.7	157
175	Multicellular Transcriptional Analysis of Mammalian Heart Regeneration. <i>Circulation</i> , 2017 , 136, 1123-1130	30.7	145
174	Deep sequencing reveals increased DNA methylation in chronic rat epilepsy. <i>Acta Neuropathologica</i> , 2013 , 126, 741-56	14.3	134

173	Distinguishing hyperglycemic changes by Set7 in vascular endothelial cells. <i>Circulation Research</i> , 2012 , 110, 1067-76	15.7	121
172	Reactive Oxygen Species Can Provide Atheroprotection via NOX4-Dependent Inhibition of Inflammation and Vascular Remodeling. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016 , 36, 295-307	9.4	109
171	DNA methylation and histone deacetylation in the control of gene expression: basic biochemistry to human development and disease. <i>Gene Expression</i> , 2000 , 9, 63-75	3.4	108
170	Epigenetic regulation and fetal programming. <i>Best Practice and Research in Clinical Endocrinology and Metabolism</i> , 2008 , 22, 1-16	6.5	103
169	Altered methylation of the human MDR1 promoter is associated with acquired multidrug resistance. <i>Clinical Cancer Research</i> , 1997 , 3, 2025-32	12.9	103
168	RNA interference and potential therapeutic applications of short interfering RNAs. <i>Cancer Gene Therapy</i> , 2005 , 12, 787-95	5.4	100
167	Analysis of the IGF2/H19 imprinting control region uncovers new genetic defects, including mutations of OCT-binding sequences, in patients with 11p15 fetal growth disorders. <i>Human Molecular Genetics</i> , 2010 , 19, 803-14	5.6	98
166	Survival motor neuron gene 2 silencing by DNA methylation correlates with spinal muscular atrophy disease severity and can be bypassed by histone deacetylase inhibition. <i>Human Molecular Genetics</i> , 2009 , 18, 304-17	5.6	98
165	GammaH2AX as a molecular marker of aging and disease. <i>Epigenetics</i> , 2010 , 5, 129-36	5.7	97
164	Phosphoinositide 3-kinase as a novel functional target for the regulation of the insulin signaling pathway by SIRT1. <i>Molecular and Cellular Endocrinology</i> , 2011 , 335, 166-76	4.4	94
163	Clonogenic assay: adherent cells. <i>Journal of Visualized Experiments</i> , 2011 ,	1.6	94
162	Metabolic memory and diabetic nephropathy: potential role for epigenetic mechanisms. <i>Nature Reviews Nephrology</i> , 2010 , 6, 332-41	14.9	90
161	Will broad-spectrum histone deacetylase inhibitors be superseded by more specific compounds?. <i>Leukemia</i> , 2007 , 21, 61-5	10.7	90
160	HDAC inhibition attenuates cardiac hypertrophy by acetylation and deacetylation of target genes. <i>Epigenetics</i> , 2015 , 10, 418-30	5.7	83
159	FOXO1 regulates the expression of 4E-BP1 and inhibits mTOR signaling in mammalian skeletal muscle. <i>Journal of Biological Chemistry</i> , 2007 , 282, 21176-86	5.4	81
158	Atypical Diabetes Mellitus Associated With Kabuki Syndrome: A Model of Epigenetic Disturbance in Insulin Resistance?. <i>Journal of the Endocrine Society</i> , 2021 , 5, A369-A369	0.4	78
157	The Circadian Syndrome: is the Metabolic Syndrome and much more!. <i>Journal of Internal Medicine</i> , 2019 , 286, 181-191	10.8	77
156	Epigenetic Changes in Diabetes and Cardiovascular Risk. <i>Circulation Research</i> , 2016 , 118, 1706-22	15.7	76

155	The rise of DNA methylation and the importance of chromatin on multidrug resistance in cancer. <i>Experimental Cell Research</i> , 2003 , 290, 177-94	4.2	74
154	Contraction-induced interleukin-6 gene transcription in skeletal muscle is regulated by c-Jun terminal kinase/activator protein-1. <i>Journal of Biological Chemistry</i> , 2012 , 287, 10771-9	5.4	73
153	Glycemic memory associated epigenetic changes. <i>Biochemical Pharmacology</i> , 2010 , 80, 1853-9	6	73
152	Modulation of cellular radiation responses by histone deacetylase inhibitors. <i>Oncogene</i> , 2006 , 25, 3885-93	9.2	73
151	Epigenetic programming, early life nutrition and the risk of metabolic disease. <i>Atherosclerosis</i> , 2017 , 266, 31-40	3.1	72
150	DNMT cooperativity--the developing links between methylation, chromatin structure and cancer. <i>BioEssays</i> , 2003 , 25, 1071-84	4.1	72
149	Downstream targets of methyl CpG binding protein 2 and their abnormal expression in the frontal cortex of the human Rett syndrome brain. <i>BMC Neuroscience</i> , 2010 , 11, 53	3.2	71
148	Human sympathetic nerve biology: parallel influences of stress and epigenetics in essential hypertension and panic disorder. <i>Annals of the New York Academy of Sciences</i> , 2008 , 1148, 338-48	6.5	71
147	Gene name errors are widespread in the scientific literature. <i>Genome Biology</i> , 2016 , 17, 177	18.3	70
146	The methylation hypothesis of pharmacoresistance in epilepsy. <i>Epilepsia</i> , 2013 , 54 Suppl 2, 41-7	6.4	68
145	Epigenetic changes in diabetes. <i>Clinical Genetics</i> , 2013 , 84, 1-10	4	66
144	Vascular histone deacetylation by pharmacological HDAC inhibition. <i>Genome Research</i> , 2014 , 24, 1271-84	5.7	64
143	The neuronal noradrenaline transporter, anxiety and cardiovascular disease. <i>Journal of Psychopharmacology</i> , 2006 , 20, 60-6	4.6	64
142	Etiology matters - Genomic DNA Methylation Patterns in Three Rat Models of Acquired Epilepsy. <i>Scientific Reports</i> , 2016 , 6, 25668	4.9	61
141	Disparity of histone deacetylase inhibition on repair of radiation-induced DNA damage on euchromatin and constitutive heterochromatin compartments. <i>Oncogene</i> , 2007 , 26, 3963-71	9.2	61
140	Hepatitis C virus leaves an epigenetic signature post cure of infection by direct-acting antivirals. <i>PLoS Genetics</i> , 2019 , 15, e1008181	6	60
139	Deficiency of Prebiotic Fiber and Insufficient Signaling Through Gut Metabolite-Sensing Receptors Leads to Cardiovascular Disease. <i>Circulation</i> , 2020 , 141, 1393-1403	16.7	58
138	Epidemic T2DM, early development and epigenetics: implications of the Chinese Famine. <i>Nature Reviews Endocrinology</i> , 2018 , 14, 738-746	15.2	58

137	Double-strand breaks: signaling pathways and repair mechanisms. <i>Cellular and Molecular Life Sciences</i> , 2004 , 61, 2137-47	10.3	54
136	Transcriptional regulation by the Set7 lysine methyltransferase. <i>Epigenetics</i> , 2013 , 8, 361-72	5.7	51
135	Epigenetics and precision medicine in cardiovascular patients: from basic concepts to the clinical arena. <i>European Heart Journal</i> , 2018 , 39, 4150-4158	9.5	49
134	Maternal overnutrition programs changes in the expression of skeletal muscle genes that are associated with insulin resistance and defects of oxidative phosphorylation in adult male rat offspring. <i>Journal of Nutrition</i> , 2014 , 144, 237-44	4.1	49
133	Genetic examination of SETD7 and SUV39H1/H2 methyltransferases and the risk of diabetes complications in patients with type 1 diabetes. <i>Diabetes</i> , 2011 , 60, 3073-80	0.9	49
132	Dynamic changes in the cardiac methylome during postnatal development. <i>FASEB Journal</i> , 2015 , 29, 1329-43	0.9	47
131	The primary microRNA-208b interacts with Polycomb-group protein, Ezh2, to regulate gene expression in the heart. <i>Nucleic Acids Research</i> , 2014 , 42, 790-803	20.1	47
130	Epigenetics in diabetic nephropathy, immunity and metabolism. <i>Diabetologia</i> , 2018 , 61, 6-20	10.3	47
129	New insights into the pathogenesis of Beckwith-Wiedemann and Silver-Russell syndromes: contribution of small copy number variations to 11p15 imprinting defects. <i>Human Mutation</i> , 2011 , 32, 1171-82	4.7	46
128	MDR1, chemotherapy and chromatin remodeling. <i>Cancer Biology and Therapy</i> , 2004 , 3, 819-24	4.6	43
127	Chromatin modifications remodel cardiac gene expression. <i>Cardiovascular Research</i> , 2014 , 103, 7-16	9.9	42
126	Glycemic memories and the epigenetic component of diabetic nephropathy. <i>Current Diabetes Reports</i> , 2013 , 13, 574-81	5.6	42
125	Epigenetic modification of the norepinephrine transporter gene in postural tachycardia syndrome. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012 , 32, 1910-6	9.4	42
124	Genetic and epigenetic events in diabetic wound healing. <i>International Wound Journal</i> , 2011 , 8, 12-21	2.6	41
123	Development of novel activin-targeted therapeutics. <i>Molecular Therapy</i> , 2015 , 23, 434-44	11.7	40
122	Chromatin context and ncRNA highlight targets of MeCP2 in brain. <i>RNA Biology</i> , 2013 , 10, 1741-57	4.8	40
121	Effect of valproic acid on radiation-induced DNA damage in euchromatic and heterochromatic compartments. <i>Cell Cycle</i> , 2008 , 7, 468-76	4.7	40
120	The epigenetic modifier, valproic acid, enhances radiation sensitivity. <i>Epigenetics</i> , 2006 , 1, 131-7	5.7	39

119	Cardiac ventricular chambers are epigenetically distinguishable. <i>Cell Cycle</i> , 2010 , 9, 612-7	4.7	38
118	The histone deacetylase inhibitor, Trichostatin A, enhances radiation sensitivity and accumulation of gammaH2A.X. <i>Cancer Biology and Therapy</i> , 2005 , 4, 787-93	4.6	38
117	Immunomodulatory effects of histone deacetylase inhibitors. <i>Current Molecular Medicine</i> , 2013 , 13, 640-7.5	3.8	38
116	Evaluation of microRNA alignment techniques. <i>Rna</i> , 2016 , 22, 1120-38	5.8	37
115	siRNAs: mechanism of RNA interference, in vivo and potential clinical applications. <i>Cancer Biology and Therapy</i> , 2004 , 3, 1069-74	4.6	37
114	Transient Intermittent Hyperglycemia Accelerates Atherosclerosis by Promoting Myelopoiesis. <i>Circulation Research</i> , 2020 , 127, 877-892	15.7	35
113	Role of histone acetylation in the stimulatory effect of valproic acid on vascular endothelial tissue-type plasminogen activator expression. <i>PLoS ONE</i> , 2012 , 7, e31573	3.7	34
112	Investigation into the biological properties of the olive polyphenol, hydroxytyrosol: mechanistic insights by genome-wide mRNA-Seq analysis. <i>Genes and Nutrition</i> , 2012 , 7, 343-55	4.3	34
111	Glycemic memory. <i>Current Opinion in Lipidology</i> , 2012 , 23, 24-9	4.4	34
110	The paradox of histone deacetylase inhibitor-mediated modulation of cellular responses to radiation. <i>Cell Cycle</i> , 2006 , 5, 288-95	4.7	34
109	Demethylation using the epigenetic modifier, 5-azacytidine, increases the efficiency of transient transfection of macrophages. <i>Journal of Lipid Research</i> , 2005 , 46, 356-65	6.3	34
108	Trichostatin A accentuates doxorubicin-induced hypertrophy in cardiac myocytes. <i>Aging</i> , 2010 , 2, 659-685.6	5.6	34
107	The Set7 Lysine Methyltransferase Regulates Plasticity in Oxidative Phosphorylation Necessary for Trained Immunity Induced by β -Glucan. <i>Cell Reports</i> , 2020 , 31, 107548	10.6	34
106	The rise and fall of genomic methylation in cancer. <i>Leukemia</i> , 2004 , 18, 233-7	10.7	33
105	Lipoxins Regulate the Early Growth Response-1 Network and Reverse Diabetic Kidney Disease. <i>Journal of the American Society of Nephrology: JASN</i> , 2018 , 29, 1437-1448	12.7	32
104	Clinical potential of histone deacetylase inhibitors as stand alone therapeutics and in combination with other chemotherapeutics or radiotherapy for cancer. <i>Epigenetics</i> , 2006 , 1, 121-6	5.7	32
103	Chromatin modifications and DNA double-strand breaks: the current state of play. <i>Leukemia</i> , 2007 , 21, 195-200	10.7	31
102	Analysis of the barley leaf transcriptome under salinity stress using mRNA-Seq. <i>Acta Physiologiae Plantarum</i> , 2013 , 35, 1915-1924	2.6	30

101	Methylation of the SLC6a2 gene promoter in major depression and panic disorder. <i>PLoS ONE</i> , 2013 , 8, e83223	3.7	30
100	Genomic DNA methylation distinguishes subtypes of human focal cortical dysplasia. <i>Epilepsia</i> , 2019 , 60, 1091-1103	6.4	29
99	Chromatin modifications associated with diabetes. <i>Journal of Cardiovascular Translational Research</i> , 2012 , 5, 399-412	3.3	29
98	Chromatin modifying agents - the cutting edge of anticancer therapy. <i>Drug Discovery Today</i> , 2011 , 16, 543-7	8.8	29
97	Interplay of chromatin modifications and non-coding RNAs in the heart. <i>Epigenetics</i> , 2014 , 9, 101-12	5.7	28
96	Galectin-3 deficiency ameliorates fibrosis and remodeling in dilated cardiomyopathy mice with enhanced Mst1 signaling. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019 , 316, H45-H60	5.2	28
95	Processed foods drive intestinal barrier permeability and microvascular diseases. <i>Science Advances</i> , 2021 , 7,	14.3	27
94	Expression analysis of the epigenetic methyltransferases and methyl-CpG binding protein families in the normal B-cell and B-cell chronic lymphocytic leukemia (CLL). <i>Cancer Biology and Therapy</i> , 2004 , 3, 989-94	4.6	26
93	Digital expression explorer 2: a repository of uniformly processed RNA sequencing data. <i>GigaScience</i> , 2019 , 8,	7.6	25
92	The emerging role of epigenetic modifications and chromatin remodeling in spinal muscular atrophy. <i>Journal of Neurochemistry</i> , 2009 , 109, 1557-69	6	25
91	Cardiac genes show contextual SWI/SNF interactions with distinguishable gene activities. <i>Epigenetics</i> , 2011 , 6, 760-8	5.7	25
90	gamma-radiation-induced gammaH2AX formation occurs preferentially in actively transcribing euchromatic loci. <i>Cellular and Molecular Life Sciences</i> , 2010 , 67, 291-4	10.3	25
89	Ubiquitin-specific protease 2-69 in macrophages potentially modulates metaflammation. <i>FASEB Journal</i> , 2013 , 27, 4940-53	0.9	24
88	Epigenetic and genetic mechanisms of abnormal 11p15 genomic imprinting in Silver-Russell and Beckwith-Wiedemann syndromes. <i>Current Medicinal Chemistry</i> , 2011 , 18, 1740-50	4.3	24
87	Deep sequencing reveals novel Set7 networks. <i>Cellular and Molecular Life Sciences</i> , 2014 , 71, 4471-86	10.3	23
86	Effects of the histone deacetylase inhibitor, trichostatin A, in a chronic allergic airways disease model in mice. <i>Archivum Immunologiae Et Therapiae Experimentalis</i> , 2012 , 60, 295-306	4	23
85	Alleviating transcriptional inhibition of the norepinephrine slc6a2 transporter gene in depolarized neurons. <i>Journal of Neuroscience</i> , 2010 , 30, 1494-501	6.6	23
84	Functional links between transcription, DNA repair and apoptosis. <i>Cellular and Molecular Life Sciences</i> , 2004 , 61, 2173-80	10.3	21

83	Evaluation of the efficacy of radiation-modifying compounds using γ H2AX as a molecular marker of DNA double-strand breaks. <i>Genome Integrity</i> , 2011 , 2, 3	0.8	20
82	Complement C5a Induces Renal Injury in Diabetic Kidney Disease by Disrupting Mitochondrial Metabolic Agility. <i>Diabetes</i> , 2020 , 69, 83-98	0.9	20
81	Histone deacetylase inhibitors augment doxorubicin-induced DNA damage in cardiomyocytes. <i>Cellular and Molecular Life Sciences</i> , 2011 , 68, 4101-14	10.3	19
80	Protective effects of valproic acid against airway hyperresponsiveness and airway remodeling in a mouse model of allergic airways disease. <i>Epigenetics</i> , 2011 , 6, 1463-70	5.7	19
79	Analysis of chromatin-immunopurified MeCP2-associated fragments. <i>Biochemical and Biophysical Research Communications</i> , 2001 , 289, 733-7	3.4	19
78	Transcription factors Tp73, Cebp, Pax6, and Spi1 rather than DNA methylation regulate chronic transcriptomics changes after experimental traumatic brain injury. <i>Acta Neuropathologica Communications</i> , 2018 , 6, 17	7.3	18
77	Rapid development of non-alcoholic steatohepatitis in Psammomys obesus (Israeli sand rat). <i>PLoS ONE</i> , 2014 , 9, e92656	3.7	18
76	Epigenetic mechanisms in the pathogenesis of diabetic foot ulcers. <i>Journal of Diabetes and Its Complications</i> , 2012 , 26, 554-61	3.2	17
75	Epigenetic regulation of multidrug resistance 1 gene expression: profiling CpG methylation status using bisulphite sequencing. <i>Methods in Molecular Biology</i> , 2010 , 596, 183-98	1.4	17
74	Epigenetics, cardiovascular disease, and cellular reprogramming. <i>Journal of Molecular and Cellular Cardiology</i> , 2019 , 128, 129-133	5.8	16
73	Systems approach to the pharmacological actions of HDAC inhibitors reveals EP300 activities and convergent mechanisms of regulation in diabetes. <i>Epigenetics</i> , 2017 , 12, 991-1003	5.7	16
72	Profiling methyl-CpG specific determinants on transcriptionally silent chromatin. <i>Molecular Biology Reports</i> , 2001 , 28, 209-15	2.8	16
71	Metabolic Karma-The Atherogenic Legacy of Diabetes: The 2017 Edwin Bierman Award Lecture. <i>Diabetes</i> , 2018 , 67, 785-790	0.9	15
70	Quantification of gammaH2AX foci in response to ionising radiation. <i>Journal of Visualized Experiments</i> , 2010 ,	1.6	15
69	Reply to "Testing for association between MeCP2 and the brahma-associated SWI/SNF chromatin-remodeling complex" <i>Nature Genetics</i> , 2006 , 38, 964-967	36.3	15
68	FMR1 silencing and the signals to chromatin: a unified model of transcriptional regulation. <i>Biochemical and Biophysical Research Communications</i> , 2002 , 295, 575-81	3.4	15
67	silencing by in postural tachycardia syndrome. <i>JCI Insight</i> , 2017 , 2, e90183	9.9	15
66	Utility of γ H2AX as a molecular marker of DNA double-strand breaks in nuclear medicine: applications to radionuclide therapy employing auger electron-emitting isotopes. <i>Current Radiopharmaceuticals</i> , 2011 , 4, 59-67	1.8	14

65	Double-strand breaks and the concept of short- and long-term epigenetic memory. <i>Chromosoma</i> , 2011 , 120, 129-49	2.8	14
64	Histone modifications regulate the norepinephrine transporter gene. <i>Cell Cycle</i> , 2010 , 9, 4600-1	4.7	14
63	Metabolism and chromatin dynamics in health and disease. <i>Molecular Aspects of Medicine</i> , 2017 , 54, 1-1516.7	13	
62	Pharmacological inhibition of arginine and lysine methyltransferases induces nuclear abnormalities and suppresses angiogenesis in human endothelial cells. <i>Biochemical Pharmacology</i> , 2016 , 121, 18-32	6	13
61	Genetic variants within the second intron of the KCNQ1 gene affect CTCF binding and confer a risk of Beckwith-Wiedemann syndrome upon maternal transmission. <i>Journal of Medical Genetics</i> , 2014 , 51, 502-11	5.8	12
60	MeCP2 interacts with chromosomal microRNAs in brain. <i>Epigenetics</i> , 2017 , 12, 1028-1037	5.7	12
59	HDAC Inhibition in Vascular Endothelial Cells Regulates the Expression of ncRNAs. <i>Non-coding RNA</i> , 2016 , 2,	7.1	12
58	Set7 mediated interactions regulate transcriptional networks in embryonic stem cells. <i>Nucleic Acids Research</i> , 2016 , 44, 9206-9217	20.1	10
57	Applicability of histone deacetylase inhibition for the treatment of spinal muscular atrophy. <i>Neurotherapeutics</i> , 2013 , 10, 677-87	6.4	10
56	Influence of natural and synthetic histone deacetylase inhibitors on chromatin. <i>Antioxidants and Redox Signaling</i> , 2012 , 17, 340-54	8.4	10
55	Transient high glucose causes persistent epigenetic changes and altered gene expression during subsequent normoglycemia. <i>Journal of Experimental Medicine</i> , 2008 , 205, 2683-2683	16.6	10
54	DNA damage detection and repair, and the involvement of epigenetic states. <i>Human Mutation</i> , 2005 , 25, 101-9	4.7	10
53	RAGE Deletion Confers Renoprotection by Reducing Responsiveness to Transforming Growth Factor- β and Increasing Resistance to Apoptosis. <i>Diabetes</i> , 2018 , 67, 960-973	0.9	9
52	Atherogenic factors and their epigenetic relationships. <i>International Journal of Vascular Medicine</i> , 2010 , 2010, 437809	1.2	9
51	Molecular model of naphthalene-induced DNA damage in the murine lung. <i>Human and Experimental Toxicology</i> , 2012 , 31, 42-50	3.4	9
50	Diet during Pregnancy is Implicated in the Regulation of Hypothalamic RNA Methylation and Risk of Obesity in Offspring. <i>Molecular Nutrition and Food Research</i> , 2018 , 62, e1800134	5.9	8
49	Silencing Lysine-Specific Histone Demethylase 1 (LSD1) Causes Increased HP1-Positive Chromatin, Stimulation of DNA Repair Processes, and Dysregulation of Proliferation by Chk1 Phosphorylation in Human Endothelial Cells. <i>Cells</i> , 2019 , 8,	7.9	8
48	Endothelial transcriptome in response to pharmacological methyltransferase inhibition. <i>ChemMedChem</i> , 2014 , 9, 1755-62	3.7	8

47	RNA sequencing supports distinct reactive oxygen species-mediated pathways of apoptosis by high and low size mass fractions of Bay leaf (<i>Lauris nobilis</i>) in HT-29 cells. <i>Food and Function</i> , 2015 , 6, 2507-24	6.1	8
46	Pharmacological Histone Deacetylation Distinguishes Transcriptional Regulators. <i>Current Topics in Medicinal Chemistry</i> , 2017 , 17, 1611-1622	3	8
45	DNA methylation regulates hypothalamic gene expression linking parental diet during pregnancy to the offspring's risk of obesity in <i>Psammomys obesus</i> . <i>International Journal of Obesity</i> , 2016 , 40, 1079-88	5.5	8
44	Understanding the consequences of epigenetic mechanisms and its effects on transcription in health and disease. <i>Cancer Biology and Therapy</i> , 2004 , 3, 816-8	4.6	7
43	Epigenetic changes activate widespread signals in response to double-strand breaks. <i>Cancer Biology and Therapy</i> , 2004 , 3, 617-23	4.6	7
42	Absolute quantitation of MDR1 transcripts using heterologous DNA standards--validation of the competitive RT-PCR (CRT-PCR) approach. <i>BioTechniques</i> , 1999 , 26, 1114-6, 1118-20, 1122 passim	2.5	7
41	Valproic acid influences the expression of genes implicated with hyperglycaemia-induced complement and coagulation pathways. <i>Scientific Reports</i> , 2021 , 11, 2163	4.9	7
40	Epigenomic changes associated with impaired norepinephrine transporter function in postural tachycardia syndrome. <i>Neuroscience and Biobehavioral Reviews</i> , 2017 , 74, 342-355	9	6
39	Epigenetic Contribution to the Development and Progression of Vascular Diabetic Complications. <i>Antioxidants and Redox Signaling</i> , 2018 , 29, 1074-1091	8.4	6
38	Age-Related Differential Structural and Transcriptomic Responses in the Hypertensive Heart. <i>Frontiers in Physiology</i> , 2018 , 9, 817	4.6	6
37	Evaluation of the spatial distribution of gammaH2AX following ionizing radiation. <i>Journal of Visualized Experiments</i> , 2010 ,	1.6	6
36	On the use of DNA methylation inhibitors and the reversal of transcriptional silencing. <i>Blood</i> , 2003 , 101, 1656; author reply 1657-8	2.2	6
35	Sex-Specific Control of Human Heart Maturation by the Progesterone Receptor. <i>Circulation</i> , 2021 , 143, 1614-1628	16.7	6
34	DNA methylation patterns from peripheral blood separate coronary artery disease patients with and without heart failure. <i>ESC Heart Failure</i> , 2020 , 7, 2468-2478	3.7	5
33	Sex-Based Mhrt Methylation Chromatinizes MeCP2 in the Heart. <i>IScience</i> , 2019 , 17, 288-301	6.1	5
32	A pipeline for the identification and characterization of chromatin modifications derived from ChIP-Seq datasets. <i>Biochimie</i> , 2012 , 94, 2353-9	4.6	5
31	The circadian syndrome predicts cardiovascular disease better than metabolic syndrome in Chinese adults. <i>Journal of Internal Medicine</i> , 2021 , 289, 851-860	10.8	5
30	Remodeling is at the heart of chromatin: the heartaches of chromatin. <i>Epigenetics</i> , 2011 , 6, 884-7	5.7	4

29	Quantitation of gammaH2AX foci in tissue samples. <i>Journal of Visualized Experiments</i> , 2010 ,	1.6	4
28	Chinese Famine and the diabetes mellitus epidemic. <i>Nature Reviews Endocrinology</i> , 2020 , 16, 123	15.2	4
27	Epigenetic evidence of an Ac/Dc axis by VPA and SAHA. <i>Clinical Epigenetics</i> , 2021 , 13, 58	7.7	4
26	Dysregulation of the cohesin subunit RAD21 by Hepatitis C virus mediates host-virus interactions. <i>Nucleic Acids Research</i> , 2019 , 47, 2455-2471	20.1	3
25	Pathological hypertrophy reverses β -adrenergic receptor-induced angiogenesis in mouse heart. <i>Physiological Reports</i> , 2015 , 3, e12340	2.6	3
24	Non-referenced genome assembly from epigenomic short-read data. <i>Epigenetics</i> , 2014 , 9, 1329-38	5.7	3
23	Mechanisms of abnormal gene expression in tumor cells. <i>Exs</i> , 2006 , 351-61		3
22	Yap regulates skeletal muscle fatty acid oxidation and adiposity in metabolic disease. <i>Nature Communications</i> , 2021 , 12, 2887	17.4	3
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