

Jane B Lian

List of Publications by Year in descending order

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123
papers

6,947
citations

61984

43
h-index

64796

79
g-index

124
all docs

124
docs citations

124
times ranked

9490
citing authors

#	ARTICLE	IF	CITATIONS
1	A microRNA signature for a BMP2-induced osteoblast lineage commitment program. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 13906-13911.	7.1	503
2	MicroRNA control of bone formation and homeostasis. Nature Reviews Endocrinology, 2012, 8, 212-227.	9.6	503
3	Networks and hubs for the transcriptional control of osteoblastogenesis. Reviews in Endocrine and Metabolic Disorders, 2006, 7, 1-16.	5.7	397
4	Transcriptional autoregulation of the bone related CBFA1/RUNX2 gene. Journal of Cellular Physiology, 2000, 184, 341-350.	4.1	236
5	Mitotic occupancy and lineage-specific transcriptional control of rRNA genes by Runx2. Nature, 2007, 445, 442-446.	27.8	218
6	Chromatin interaction analysis reveals changes in small chromosome and telomere clustering between epithelial and breast cancer cells. Genome Biology, 2015, 16, 214.	8.8	206
7	tsRNA signatures in cancer. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 8071-8076.	7.1	202
8	Regulatory controls for osteoblast growth and differentiation: role of Runx/Cbfa/AML factors. Critical Reviews in Eukaryotic Gene Expression, 2004, 14, 1-41.	0.9	194
9	Expression and regulation of Runx2/Cbfa1 and osteoblast phenotypic markers during the growth and differentiation of human osteoblasts. Journal of Cellular Biochemistry, 2001, 80, 424-440.	2.6	177
10	Targeting of Runx2 by miR-135 and miR-203 Impairs Progression of Breast Cancer and Metastatic Bone Disease. Cancer Research, 2015, 75, 1433-1444.	0.9	164
11	Mitotic retention of gene expression patterns by the cell fate-determining transcription factor Runx2. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 3189-3194.	7.1	152
12	Nuclear microenvironments in biological control and cancer. Nature Reviews Cancer, 2007, 7, 454-463.	28.4	144
13	Mitotic bookmarking of genes: a novel dimension to epigenetic control. Nature Reviews Genetics, 2010, 11, 583-589.	16.3	142
14	Osteocalcin gene promoter: Unlocking the secrets for regulation of osteoblast growth and differentiation. , 1998, 72, 62-72.		112
15	The BRG1 ATPase of human SWI/SNF chromatin remodeling enzymes as a driver of cancer. Epigenomics, 2017, 9, 919-931.	2.1	108
16	The dynamic organization of geneâ€ regulatory machinery in nuclear microenvironments. EMBO Reports, 2005, 6, 128-133.	4.5	107
17	MicroRNA-34c Inversely Couples the Biological Functions of the Runt-related Transcription Factor RUNX2 and the Tumor Suppressor p53 in Osteosarcoma. Journal of Biological Chemistry, 2013, 288, 21307-21319.	3.4	95
18	Reduced CpG methylation is associated with transcriptional activation of the bone-specific rat osteocalcin gene in osteoblasts*. Journal of Cellular Biochemistry, 2002, 85, 112-122.	2.6	93

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19	Runx1/AML1 hematopoietic transcription factor contributes to skeletal development in vivo. <i>Journal of Cellular Physiology</i> , 2003, 196, 301-311.	4.1	93
20	Non-coding RNAs: Epigenetic regulators of bone development and homeostasis. <i>Bone</i> , 2015, 81, 746-756.	2.9	93
21	The abbreviated pluripotent cell cycle. <i>Journal of Cellular Physiology</i> , 2013, 228, 9-20.	4.1	92
22	SMARCA4 regulates gene expression and higher-order chromatin structure in proliferating mammary epithelial cells. <i>Genome Research</i> , 2016, 26, 1188-1201.	5.5	90
23	Histone H3 lysine 4 acetylation and methylation dynamics define breast cancer subtypes. <i>Oncotarget</i> , 2016, 7, 5094-5109.	1.8	89
24	Mitotic partitioning and selective reorganization of tissue-specific transcription factors in progeny cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 14852-14857.	7.1	88
25	Phenotypic transcription factors epigenetically mediate cell growth control. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 6632-6637.	7.1	86
26	Synovium-Derived MicroRNAs Regulate Bone Pathways in Rheumatoid Arthritis. <i>Journal of Bone and Mineral Research</i> , 2017, 32, 461-472.	2.8	85
27	Epithelial to mesenchymal transition and cancer stem cells contribute to breast cancer heterogeneity. <i>Journal of Cellular Physiology</i> , 2018, 233, 9136-9144.	4.1	80
28	Could lncRNAs be the Missing Links in Control of Mesenchymal Stem Cell Differentiation?. <i>Journal of Cellular Physiology</i> , 2015, 230, 526-534.	4.1	72
29	Co-stimulation of the Bone-related Runx2 P1 Promoter in Mesenchymal Cells by SP1 and ETS Transcription Factors at Polymorphic Purine-rich DNA Sequences (Y-repeats). <i>Journal of Biological Chemistry</i> , 2009, 284, 3125-3135.	3.4	70
30	Antagonizing miR-218-5p attenuates Wnt signaling and reduces metastatic bone disease of triple negative breast cancer cells. <i>Oncotarget</i> , 2016, 7, 79032-79046.	1.8	68
31	Runx1 is associated with breast cancer progression in MMTV- <i>PyMT</i> transgenic mice and its depletion in vitro inhibits migration and invasion. <i>Journal of Cellular Physiology</i> , 2015, 230, 2522-2532.	4.1	63
32	MicroRNAs in the control of metastatic bone disease. <i>Trends in Endocrinology and Metabolism</i> , 2014, 25, 320-327.	7.1	60
33	RUNX1 contributes to higher-order chromatin organization and gene regulation in breast cancer cells. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2016, 1859, 1389-1397.	1.9	60
34	The SWI/SNF ATPases Are Required for Triple Negative Breast Cancer Cell Proliferation. <i>Journal of Cellular Physiology</i> , 2015, 230, 2683-2694.	4.1	58
35	Runx2/Cbfa1 Functions: Diverse Regulation of Gene Transcription by Chromatin Remodeling and Co-Regulatory Protein Interactions. <i>Connective Tissue Research</i> , 2003, 44, 141-148.	2.3	56
36	Chromatin dynamics regulate mesenchymal stem cell lineage specification and differentiation to osteogenesis. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2017, 1860, 438-449.	1.9	55

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37	Genome-Wide Studies Reveal that H3K4me3 Modification in Bivalent Genes Is Dynamically Regulated during the Pluripotent Cell Cycle and Stabilized upon Differentiation. <i>Molecular and Cellular Biology</i> , 2016, 36, 615-627.	2.3	53
38	Runx1 stabilizes the mammary epithelial cell phenotype and prevents epithelial to mesenchymal transition. <i>Oncotarget</i> , 2017, 8, 17610-17627.	1.8	53
39	Transcriptional element H4-site II of cell cycle regulated human H4 histone genes is a multipartite protein/DNA interaction site for factors HiNF-D, HiNF-M, and HiNF-P: Involvement of phosphorylation. <i>Journal of Cellular Biochemistry</i> , 1991, 46, 174-189.	2.6	51
40	The BRG1 chromatin remodeling enzyme links cancer cell metabolism and proliferation. <i>Oncotarget</i> , 2016, 7, 38270-38281.	1.8	51
41	ChIPing the Genome: A Compendium of Chromosome Conformation Capture Methods to Study Higher-Order Chromatin Organization. <i>Journal of Cellular Physiology</i> , 2016, 231, 31-35.	4.1	50
42	The leukemogenic t(8;21) fusion protein AML1-ETO controls rRNA genes and associates with nucleolar-organizing regions at mitotic chromosomes. <i>Journal of Cell Science</i> , 2008, 121, 3981-3990.	2.0	48
43	Suppression of Breast Cancer Stem Cells and Tumor Growth by the RUNX1 Transcription Factor. <i>Molecular Cancer Research</i> , 2018, 16, 1952-1964.	3.4	48
44	RUNX1-independent mechanisms in biological control and dysregulation in cancer. <i>Journal of Cellular Physiology</i> , 2019, 234, 8597-8609.	4.1	48
45	Identification of tRNA-derived small RNA (tsRNA) responsive to the tumor suppressor, RUNX1, in breast cancer. <i>Journal of Cellular Physiology</i> , 2020, 235, 5318-5327.	4.1	48
46	hsa-mir-30c promotes the invasive phenotype of metastatic breast cancer cells by targeting NOV/CCN3. <i>Cancer Cell International</i> , 2014, 14, 73.	4.1	46
47	Regulation of Bone Metabolism by Serotonin. <i>Advances in Experimental Medicine and Biology</i> , 2017, 1033, 35-46.	1.6	46
48	Runx2/DICER/miRNA Pathway in Regulating Osteogenesis. <i>Journal of Cellular Physiology</i> , 2017, 232, 182-191.	4.1	45
49	Bivalent Epigenetic Control of Oncofetal Gene Expression in Cancer. <i>Molecular and Cellular Biology</i> , 2017, 37, .	2.3	42
50	Properties of blood-contacting surfaces of clinically implanted cardiac assist devices: Gene expression, matrix composition, and ultrastructural characterization of cellular linings. <i>Journal of Cellular Biochemistry</i> , 1995, 57, 557-573.	2.6	41
51	MicroRNA-378-mediated suppression of Runx1 alleviates the aggressive phenotype of triple-negative MDA-MB-231 human breast cancer cells. <i>Tumor Biology</i> , 2016, 37, 8825-8839.	1.8	41
52	Subnuclear targeting of the Runx3 tumor suppressor and its epigenetic association with mitotic chromosomes. <i>Journal of Cellular Physiology</i> , 2009, 218, 473-479.	4.1	40
53	Chromosomes at Work: Organization of Chromosome Territories in the Interphase Nucleus. <i>Journal of Cellular Biochemistry</i> , 2016, 117, 9-19.	2.6	39
54	Epigenetic Modulation in Periodontitis: Interaction of Adiponectin and JMJD3-IRF4 Axis in Macrophages. <i>Journal of Cellular Physiology</i> , 2016, 231, 1090-1096.	4.1	38

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55	Interaction of the 1 α ,25-dihydroxyvitamin D3 receptor at the distal promoter region of the bone-specific osteocalcin gene requires nucleosomal remodelling. <i>Biochemical Journal</i> , 2002, 363, 667-676.	3.7	37
56	Effect of sodium warfarin on vitamin K-dependent proteins and skeletal development in the rat fetus. <i>Journal of Bone and Mineral Research</i> , 1990, 5, 885-894.	2.8	34
57	Effect of caffeine on parameters of osteoblast growth and differentiation of a mineralized extracellular matrix in vitro. <i>Journal of Bone and Mineral Research</i> , 1991, 6, 1029-1036.	2.8	34
58	RUNX1 and RUNX2 transcription factors function in opposing roles to regulate breast cancer stem cells. <i>Journal of Cellular Physiology</i> , 2020, 235, 7261-7272.	4.1	34
59	Bookmarking Target Genes in Mitosis: A Shared Epigenetic Trait of Phenotypic Transcription Factors and Oncogenes?. <i>Cancer Research</i> , 2014, 74, 420-425.	0.9	33
60	Genome-wide co-occupancy of AML1-ETO and N-CoR defines the t(8;21) AML signature in leukemic cells. <i>BMC Genomics</i> , 2015, 16, 309.	2.8	30
61	Development of a predictive miRNA signature for breast cancer risk among high-risk women. <i>Oncotarget</i> , 2017, 8, 112170-112183.	1.8	30
62	Participation of integrin β 3 in osteoblast differentiation induced by titanium with nano or microtopography. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 1303-1313.	4.0	29
63	The bone-specific Runx2-P1 promoter displays conserved three-dimensional chromatin structure with the syntenic Supt3h promoter. <i>Nucleic Acids Research</i> , 2014, 42, 10360-10372.	14.5	28
64	Epigenetic landscape during osteoblastogenesis defines a differentiation-dependent Runx2 promoter region. <i>Gene</i> , 2014, 550, 1-9.	2.2	28
65	Chromatin Remodeling by SWI/SNF Results in Nucleosome Mobilization to Preferential Positions in the Rat Osteocalcin Gene Promoter. <i>Journal of Biological Chemistry</i> , 2007, 282, 9445-9457.	3.4	27
66	Loss of RUNX1 is associated with aggressive lung adenocarcinomas. <i>Journal of Cellular Physiology</i> , 2018, 233, 3487-3497.	4.1	27
67	Thyroid Hormone Receptor- β 2 (TR β 2) Mediates Runt-Related Transcription Factor 2 (Runx2) Expression in Thyroid Cancer Cells: A Novel Signaling Pathway in Thyroid Cancer. <i>Endocrinology</i> , 2016, 157, 3278-3292.	2.8	26
68	Runx1 Activities in Superficial Zone Chondrocytes, Osteoarthritic Chondrocyte Clones and Response to Mechanical Loading. <i>Journal of Cellular Physiology</i> , 2015, 230, 440-448.	4.1	25
69	Oncofetal Epigenetic Bivalency in Breast Cancer Cells: H3K4 and H3K27 Tri-Methylation as a Biomarker for Phenotypic Plasticity. <i>Journal of Cellular Physiology</i> , 2016, 231, 2474-2481.	4.1	25
70	Ethanol Extract of <i>Cissus quadrangularis</i> Enhances Osteoblast Differentiation and Mineralization of Murine Pre-Osteoblastic MC3T3-E1 Cells. <i>Journal of Cellular Physiology</i> , 2017, 232, 540-547.	4.1	25
71	The connection between BRG1, CTCF and topoisomerases at TAD boundaries. <i>Nucleus</i> , 2017, 8, 150-155.	2.2	24
72	Leukemia-associated AML1/ETO (8;21) chromosomal translocation protein increases the cellular representation of PML bodies. <i>Journal of Cellular Biochemistry</i> , 2000, 79, 103-112.	2.6	22

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73	Subnuclear organization and trafficking of regulatory proteins: Implications for biological control and cancer. <i>Journal of Cellular Biochemistry</i> , 2000, 79, 84-92.	2.6	21
74	Subnuclear domain proteins in cancer cells support transcription factor RUNX2 functions in DNA damage response. <i>Journal of Cell Science</i> , 2015, 128, 728-40.	2.0	21
75	Transient RUNX1 Expression during Early Mesendodermal Differentiation of hESCs Promotes Epithelial to Mesenchymal Transition through TGF β 2 Signaling. <i>Stem Cell Reports</i> , 2016, 7, 884-896.	4.8	21
76	Regulation of osteogenesis by long noncoding RNAs: An epigenetic mechanism contributing to bone formation. <i>Connective Tissue Research</i> , 2018, 59, 35-41.	2.3	21
77	A microRNA/Runx1/Runx2 network regulates prostate tumor progression from onset to adenocarcinoma in TRAMP mice. <i>Oncotarget</i> , 2016, 7, 70462-70474.	1.8	21
78	Runx2/Cbfa1 functions: diverse regulation of gene transcription by chromatin remodeling and co-regulatory protein interactions. <i>Connective Tissue Research</i> , 2003, 44 Suppl 1, 141-8.	2.3	20
79	Molecular Approaches to the Characterization of Cell and Blood/Biomaterial Interactions. <i>Journal of Cardiac Surgery</i> , 1992, 7, 177-187.	0.7	19
80	Identifying Nuclear Matrix-Associated DNA Across the Genome. <i>Journal of Cellular Physiology</i> , 2017, 232, 1295-1305.	4.1	19
81	Mitotic Gene Bookmarking: An Epigenetic Program to Maintain Normal and Cancer Phenotypes. <i>Molecular Cancer Research</i> , 2018, 16, 1617-1624.	3.4	19
82	Thyroid Hormone Receptor β 2 Suppression of RUNX2 Is Mediated by Brahma-Related Gene 1-Dependent Chromatin Remodeling. <i>Endocrinology</i> , 2018, 159, 2484-2494.	2.8	15
83	Mll-COMPASS complexes mediate H3K4me3 enrichment and transcription of the osteoblast master gene Runx2/p57 in osteoblasts. <i>Journal of Cellular Physiology</i> , 2019, 234, 6244-6253.	4.1	15
84	The Thyroid Hormone Receptor-RUNX2 Axis: A Novel Tumor Suppressive Pathway in Breast Cancer. <i>Hormones and Cancer</i> , 2020, 11, 34-41.	4.9	15
85	Mitotic Gene Bookmarking: An Epigenetic Mechanism for Coordination of Lineage Commitment, Cell Identity and Cell Growth. <i>Advances in Experimental Medicine and Biology</i> , 2017, 962, 95-102.	1.6	14
86	Maternal expression and early induction of histone gene transcription factor Hinf1 sustains development in pre-implantation embryos. <i>Developmental Biology</i> , 2016, 419, 311-320.	2.0	13
87	Expression of Ribosomal RNA and Protein Genes in Human Embryonic Stem Cells Is Associated With the Activating H3K4me3 Histone Mark. <i>Journal of Cellular Physiology</i> , 2016, 231, 2007-2013.	4.1	13
88	Osteogenic potential of hexane and dichloromethane fraction of <i>Cissus quadrangularis</i> on murine preosteoblast cell line MC3T3-G1 (subclone 4). <i>Journal of Cellular Physiology</i> , 2019, 234, 23082-23096.	4.1	13
89	Protein-DNA interactions at the H4-Site III upstream transcriptional element of a cell cycle regulated histone H4 gene: Differences in normal versus tumor cells. <i>Journal of Cellular Biochemistry</i> , 1992, 49, 93-110.	2.6	12
90	Nuclear structure/gene expression interrelationships. , 1999, 181, 240-250.		11

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91	The Dynamic Architectural and Epigenetic Nuclear Landscape: Developing the Genomic Almanac of Biology and Disease. <i>Journal of Cellular Physiology</i> , 2014, 229, 711-727.	4.1	11
92	Ethyl acetate and n-butanol fraction of <i>Cissus quadrangularis</i> promotes the mineralization potential of murine pre-osteoblast cell line MC3T3-E1 (subclone 4). <i>Journal of Cellular Physiology</i> , 2019, 234, 10300-10314.	4.1	11
93	Modified intranuclear organization of regulatory factors in human acute leukemias: Reversal after treatment. , 2000, 77, 30-43.		10
94	Bone tissue specific transcriptional control. <i>Cancer</i> , 2000, 88, 2899-2902.	4.1	10
95	Redefining the activity of a bone-specific transcription factor: Novel insights for understanding bone formation. <i>Journal of Bone and Mineral Research</i> , 2013, 28, 2060-2063.	2.8	10
96	Dissection of Individual Prostate Lobes in Mouse Models of Prostate Cancer to Obtain High Quality RNA. <i>Journal of Cellular Physiology</i> , 2017, 232, 14-18.	4.1	10
97	Genome-wide DNase hypersensitivity, and occupancy of RUNX2 and CTCF reveal a highly dynamic gene regulome during MC3T3 pre-osteoblast differentiation. <i>PLoS ONE</i> , 2017, 12, e0188056.	2.5	10
98	Nuclear organization mediates cancer-compromised genetic and epigenetic control. <i>Advances in Biological Regulation</i> , 2018, 69, 1-10.	2.3	10
99	Switches in histone modifications epigenetically control vitamin D3-dependent transcriptional upregulation of the CYP24A1 gene in osteoblastic cells. <i>Journal of Cellular Physiology</i> , 2020, 235, 5328-5339.	4.1	10
100	Transcriptional control within the three-dimensional context of nuclear architecture: Requirements for boundaries and direction. <i>Journal of Cellular Biochemistry</i> , 1999, 75, 24-31.	2.6	9
101	Towards a more precise and individualized assessment of breast cancer risk. <i>Aging</i> , 2019, 11, 1305-1316.	3.1	9
102	Acidic fibroblast growth factor modulates gene expression in the rat thyroid in vivo. <i>Journal of Cellular Biochemistry</i> , 1992, 50, 392-399.	2.6	8
103	Nanoparticle-based targeted cancer strategies for non-invasive prostate cancer intervention. <i>Journal of Cellular Physiology</i> , 2018, 233, 6408-6417.	4.1	8
104	Inhibition of the RUNX1-CBF β transcription factor complex compromises mammary epithelial cell identity: a phenotype potentially stabilized by mitotic gene bookmarking. <i>Oncotarget</i> , 2020, 11, 2512-2530.	1.8	8
105	Ezh2-dependent H3K27me3 modification dynamically regulates vitamin D3-dependent epigenetic control of CYP24A1 gene expression in osteoblastic cells. <i>Journal of Cellular Physiology</i> , 2020, 235, 5404-5412.	4.1	6
106	Developmental Regulation of Thyrotropin Receptor Gene Expression in the Fetal and Neonatal Rat Thyroid: Relation to Thyroid Morphology and to Thyroid-Specific Gene Expression. <i>Endocrinology</i> , 2000, 141, 340-345.	2.8	6
107	Transcriptional autoregulation of the bone related CBFA1/RUNX2 gene. <i>Journal of Cellular Physiology</i> , 2000, 184, 341-350.	4.1	5
108	Subnuclear Localization and Intranuclear Trafficking of Transcription Factors. <i>Methods in Molecular Biology</i> , 2010, 647, 77-93.	0.9	4

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109	Hypoxia-inducible factor 2 β is a novel inhibitor of chondrocyte maturation. <i>Journal of Cellular Physiology</i> , 2021, 236, 6963-6973.	4.1	4
110	Osteocalcin gene promoter: Unlocking the secrets for regulation of osteoblast growth and differentiation. <i>Journal of Cellular Biochemistry</i> , 1998, 72, 62-72.	2.6	4
111	LncMIR181A1HG is a novel chromatin-bound epigenetic suppressor of early stage osteogenic lineage commitment. <i>Scientific Reports</i> , 2022, 12, 7770.	3.3	4
112	Aneurysmal bone cysts and pathologic fracture associated with supernumerary ring chromosome 6 in two unrelated patients. <i>American Journal of Medical Genetics, Part A</i> , 2017, 173, 3205-3210.	1.2	3
113	Unique Regulatory Mechanisms for the Human Embryonic Stem Cell Cycle. <i>Journal of Cellular Physiology</i> , 2017, 232, 1254-1257.	4.1	3
114	Precocious Phenotypic Transcription Factor Expression During Early Development. <i>Journal of Cellular Biochemistry</i> , 2017, 118, 953-958.	2.6	3
115	Bioactivity-Guided Isolation and Identification of Anti-adipogenic Constituents from the n-Butanol Fraction of <i>Cissus quadrangularis</i> . <i>Critical Reviews in Eukaryotic Gene Expression</i> , 2020, 30, 519-541.	0.9	3
116	Expression and regulation of Runx2/Cbfa1 and osteoblast phenotypic markers during the growth and differentiation of human osteoblasts*. , 2001, 80, 424.		2
117	Control of the Human Pluripotent Cell Cycle. , 2010, , 235-251.		2
118	Oncogenic epigenetic control. <i>Aging</i> , 2016, 8, 565-566.	3.1	2
119	Sustained Morphine Delivery Suppresses Bone Formation and Alters Metabolic and Circulating miRNA Profiles in Mice. <i>Journal of the Endocrine Society</i> , 2021, 5, A239-A240.	0.2	1
120	Reduced CpG methylation is associated with transcriptional activation of the bone-specific rat osteocalcin gene in osteoblasts*The contents are solely the responsibility of the authors and do not necessarily represent the official views of the National Institutes of Health.. <i>Journal of Cellular Biochemistry</i> , 2002, 85, 112.	2.6	1
121	Architectural Organization of the Regulatory Machinery for Transcription, Replication, and Repair: Dynamic Temporal-Spatial Parameters of Cell Cycle Control. , 2004, , 15-92.		0
122	Synergistic regulation of the Runx2 P1 promoter in mesenchymal cells by a conserved HLH box and purine-rich elements (GAY motifs). <i>FASEB Journal</i> , 2008, 22, 782.17.	0.5	0
123	Increased Serotonin Availability Contributes to Decreased Bone Density in Colitis. <i>FASEB Journal</i> , 2015, 29, 854.5.	0.5	0