David L Levens

List of Publications by Year
in descending order

106 papers	9,442 citations	41344 49 h-index	40979 93 g-index
112 all docs	112 docs citations	112 times ranked	13033 citing authors

#	Article	IF	Citations
1	c-Myc Is a Universal Amplifier of Expressed Genes in Lymphocytes and Embryonic Stem Cells. Cell, 2012, 151, 68-79.	28.9	907
2	Revisiting Global Gene Expression Analysis. Cell, 2012, 151, 476-482.	28.9	526
3	The Energetics and Physiological Impact of Cohesin Extrusion. Cell, 2018, 173, 1165-1178.e20.	28.9	399
4	Ribosomal Protein S3: A KH Domain Subunit in NF-Î°B Complexes that Mediates Selective Gene Regulation. Cell, 2007, 131, 927-939.	28.9	305
5	Genome-wide detection of DNase I hypersensitive sites in single cells and FFPE tissue samples. Nature, 2015, 528, 142-146.	27.8	303
6	The MMSET histone methyl transferase switches global histone methylation and alters gene expression in t(4;14) multiple myeloma cells. Blood, 2011, 117, 211-220.	1.4	300
7	H2A.Z Facilitates Access of Active and Repressive Complexes to Chromatin in Embryonic Stem Cell Self-Renewal and Differentiation. Cell Stem Cell, 2013, 12, 180-192.	11.1	272
8	Transcription-dependent dynamic supercoiling is a short-range genomic force. Nature Structural and Molecular Biology, 2013, 20, 396-403.	8.2	270
9	The functional response of upstream DNA to dynamic supercoiling in vivo. Nature Structural and Molecular Biology, 2008, 15, 146-154.	8.2	266
10	Cooperative Epigenetic Modulation by Cancer Amplicon Genes. Cancer Cell, 2010, 18, 590-605.	16.8	263
11	Cellular Nucleic Acid Binding Protein Regulates the CT Element of the Human c- myc Protooncogene. Journal of Biological Chemistry, 1995, 270, 9494-9499.	3.4	214
12	RNA Polymerase II Regulates Topoisomerase 1 Activity to Favor Efficient Transcription. Cell, 2016, 165, 357-371.	28.9	211
13	Myc Regulates Chromatin Decompaction and Nuclear Architecture during B Cell Activation. Molecular Cell, 2017, 67, 566-578.e10.	9.7	174
14	Heterogeneous Nuclear Ribonucleoprotein K Is a DNA-binding Transactivator. Journal of Biological Chemistry, 1995, 270, 4875-4881.	3.4	172
15	Permanganate/S1 Nuclease Footprinting Reveals Non-B DNA Structures with Regulatory Potential across a Mammalian Genome. Cell Systems, 2017, 4, 344-356.e7.	6.2	169
16	Marking of active genes on mitotic chromosomes. Nature, 1997, 388, 895-899.	27.8	161
17	The Far Upstream Element-binding Proteins Comprise an Ancient Family of Single-strand DNA-binding Transactivators. Journal of Biological Chemistry, 1996, 271, 31679-31687.	3.4	156
18	Structure and dynamics of KH domains from FBP bound to single-stranded DNA. Nature, 2002, 415, 1051-1056.	27.8	150

#	Article	IF	Citations
19	The FBP Interacting Repressor Targets TFIIH to Inhibit Activated Transcription. Molecular Cell, 2000, 5, 331-341.	9.7	149
20	The dynamic response of upstream DNA to transcription-generated torsional stress. Nature Structural and Molecular Biology, 2004, 11, 1092-1100.	8.2	146
21	Global Regulation of Promoter Melting in Naive Lymphocytes. Cell, 2013, 153, 988-999.	28.9	145
22	Loss of FBP function arrests cellular proliferation and extinguishes c-myc expression. EMBO Journal, 2000, 19, 1034-1044.	7.8	141
23	The FUSE/FBP/FIR/TFIIH system is a molecular machine programming a pulse of c-myc expression. EMBO Journal, 2006, 25, 2119-2130.	7.8	140
24	Molecular basis of sequence-specific single-stranded DNA recognition by KH domains: solution structure of a complex between hnRNP K KH3 and single-stranded DNA. EMBO Journal, 2002, 21, 3476-3485.	7.8	128
25	JTV1 co-activates FBP to induce USP29 transcription and stabilize p53 in response to oxidative stress. EMBO Journal, 2011, 30, 846-858.	7.8	124
26	Thrombospondin-1 Signaling through CD47 Inhibits Self-renewal by Regulating c-Myc and Other Stem Cell Transcription Factors. Scientific Reports, 2013, 3, 1673.	3.3	124
27	Reconstructing MYC: Figure 1.. Genes and Development, 2003, 17, 1071-1077.	5.9	121
28	Taming of the beast: shaping Myc-dependent amplification. Trends in Cell Biology, 2015, 25, 241-248.	7.9	119
29	Defective Interplay of Activators and Repressors with TFIIH in Xeroderma Pigmentosum. Cell, 2001, 104, 353-363.	28.9	117
30	Transcriptional Consequences of Topoisomerase Inhibition. Molecular and Cellular Biology, 2001, 21, 8437-8451.	2.3	112
31	Disentangling the MYC web. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 5757-5759.	7.1	112
32	Isolation and Characterization of a Novel H1.2 Complex That Acts as a Repressor of p53-mediated Transcription. Journal of Biological Chemistry, 2008, 283, 9113-9126.	3.4	104
33	Cardiac involvement by Kaposi's sarcoma in acquired immune deficiency syndrome (AIDS). American Journal of Cardiology, 1984, 53, 983-985.	1.6	102
34	Supercoil-driven DNA structures regulate genetic transactions. Frontiers in Bioscience - Landmark, 2007, 12, 4409.	3.0	93
35	High Precision Solution Structure of the C-terminal KH Domain of Heterogeneous Nuclear Ribonucleoprotein K, a c-myc Transcription Factor. Journal of Molecular Biology, 1999, 289, 949-962.	4.2	92
36	MYC protein stability is negatively regulated by BRD4. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 13457-13467.	7.1	85

#	Article	IF	Citations
37	Analysis of transcriptional initiation of yeast mitochondrial DNA in a homologous in vitro transcription system. Cell, 1982, 31, 337-346.	28.9	84
38	The importance of being supercoiled: How DNA mechanics regulate dynamic processes. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2012, 1819, 632-638.	1.9	83
39	"You Don't Muck with MYC". Genes and Cancer, 2010, 1, 547-554.	1.9	81
40	An Essential Role of Alternative Splicing of c-myc Suppressor FUSE-Binding Proteinâ€“Interacting Repressor in Carcinogenesis. Cancer Research, 2006, 66, 1409-1417.	0.9	80
41	Overexpression of the far upstream element binding protein 1 in hepatocellular carcinoma is required for tumor growth. Hepatology, 2009, 50, 1121-1129.	7.3	77
42	c-myc expression: keep the noise down!. Molecules and Cells, 2005, 20, 157-66.	2.6	73
43	ChIP bias as a function of cross-linking time. Chromosome Research, 2016, 24, 175-181.	2.2	72
44	DNA Break Mapping Reveals Topoisomerase II Activity Genome-Wide. International Journal of Molecular Sciences, 2014, 15, 13111-13122.	4.1	70
45	Targeted Melting and Binding of a DNA Regulatory Element by a Transactivator of c-myc. Journal of Biological Chemistry, 1995, 270, 8241-8248.	3.4	64
46	FBPs Are Calibrated Molecular Tools To Adjust Gene Expression. Molecular and Cellular Biology, 2006, 26, 6584-6597.	2.3	64
47	TFIIH Operates through an Expanded Proximal Promoter To Fine-Tune c -myc Expression. Molecular and Cellular Biology, 2005, 25, 147-161.	2.3	57
48	The genome-wide distribution of non-B DNA motifs is shaped by operon structure and suggests the transcriptional importance of non-B DNA structures in Escherichia coli. Nucleic Acids Research, 2013, 41, 5965-5977.	14.5	55
49	Global Inhibition with Specific Activation: How p53 and MYC Redistribute the Transcriptome in the DNA Double-Strand Break Response. Molecular Cell, 2017, 67, 1013-1025.e9.	9.7	55
50	Dimerization of FIR upon FUSE DNA binding suggests a mechanism of c-myc inhibition. EMBO Journal, 2008, 27, 277-289.	7.8	54
51	DNA topology and transcription. Nucleus, 2014, 5, 195-202.	2.2	51
52	GTF2E2 Mutations Destabilize the General Transcription Factor Complex TFIIE in Individuals with DNA Repair-Proficient Trichothiodystrophy. American Journal of Human Genetics, 2016, 98, 627-642.	6.2	49
53	Cellular MYCro Economics: Balancing MYC Function with MYC Expression. Cold Spring Harbor Perspectives in Medicine, 2013, 3, a014233-a014233.	6.2	48
54	How the c-myc Promoter Works and Why It Sometimes Does Not. Journal of the National Cancer Institute Monographs, 2008, 2008, 41-43.	2.1	47

#	Article	IF	Citations
55	Potential non-B DNA regions in the human genome are associated with higher rates of nucleotide mutation and expression variation. Nucleic Acids Research, 2014, 42, 12367-12379.	14.5	45
56	Unrestraining Genetic Processes with a Proteinâ€“DNA Hinge. Molecular Cell, 1998, 1, 759-764.	9.7	43
57	NMR-Driven Discovery of Benzoylanthranilic Acid Inhibitors of Far Upstream Element Binding Protein Binding to the Human Oncogene c-myc Promoter. Journal of Medicinal Chemistry, 2004, 47, 4851-4857.	6.4	43
58	DNA Topoisomerases. Transcription, 2013, 4, 232-237.	3.1	43
59	Dissecting transcriptional amplification by MYC. ELife, 2020, 9, .	6.0	41
60	Nm23/PuF Does Not Directly Stimulate Transcription through the CT Element in Vivo. Journal of Biological Chemistry, 1997, 272, 22526-22530.	3.4	40
61	The influence of DNA repair on neurological degeneration, cachexia, skin cancer and internal neoplasms: autopsy report of four xeroderma pigmentosum patients (XP-A, XP-C and XP-D). Acta Neuropathologica Communications, 2013, 1, 4.	5.2	40
62	Histone deacetylase inhibitorâ€•mediated cell death is distinct from its global effect on chromatin. Molecular Oncology, 2014, 8, 1379-1392.	4.6	39
63	Hierarchical mechanisms build the DNA-binding specificity of FUSE binding protein. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 18296-18301.	7.1	35
64	Far Upstream Element Binding Protein Plays a Crucial Role in Embryonic Development, Hematopoiesis, and Stabilizing Myc Expression Levels. American Journal of Pathology, 2016, 186, 701-715.	3.8	32
65	Rapid genome-scale mapping of chromatin accessibility in tissue. Epigenetics and Chromatin, 2012, 5, 10.	3.9	30
66	MYC assembles and stimulates topoisomerases 1 and 2 in a â€œtopoisomeâ€• Molecular Cell, 2022, 82, 140-158.e12.	9.7	30
67	SAP155-Mediated Splicing of FUSE-Binding Protein-Interacting Repressor Serves as a Molecular Switch for <i>c-myc</i> Gene Expression. Molecular Cancer Research, 2012, 10, 787-799.	3.4	25
68	CTCF and cohesin cooperate to organize the 3D structure of the mammalian genome. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 889-890.	7.1	25
69	Drugging the â€œUndruggableâ€•MYCN Oncogenic Transcription Factor: Overcoming Previous Obstacles to Impact Childhood Cancers. Cancer Research, 2021, 81, 1627-1632.	0.9	25
70	MYC amplifies gene expression through global changes in transcription factor dynamics. Cell Reports, 2022, 38, 110292.	6.4	25
71	Interactions between SAP155 and FUSE-Binding Protein-Interacting Repressor Bridges <i>c-Myc</i> and P27Kip1 Expression. Molecular Cancer Research, 2013, 11, 689-698.	3.4	23
72	Controlling gene expression by DNA mechanics: emerging insights and challenges. Biophysical Reviews, 2016, 8, 259-268.	3.2	22

#	Article	IF	Citations
73	Visualizing structure-mediated interactions in supercoiled DNA molecules. Nucleic Acids Research, 2018, 46, 4622-4631.	14.5	21
74	Teasing Apart Translational and Transcriptional Components of Stochastic Variations in Eukaryotic Gene Expression. PLoS Computational Biology, 2012, 8, e1002644.	3.2	21
75	Chemical Shift Mapped DNA-Binding Sites and 15N Relaxation Analysis of the C-Terminal KH Domain of Heterogeneous Nuclear Ribonucleoprotein K. Biochemistry, 2000, 39, 6022-6032.	2.5	20
76	Mechanical determinants of chromatin topology and gene expression. Nucleus, 2022, 13, 95-116.	2.2	20
77	Myelopathy following intrathecal chemotherapy in a patient with extensive burkitt's lymphoma and altered immune status. American Journal of Medicine, 1985, 78, 697-702.	1.5	19
78	Synergistic effect of nonâ€transmissible Sendai virus vector encoding the <i>câ€myc</i> suppressor FUSEâ€binding proteinâ€interacting repressor plus cisplatin in the treatment of malignant pleural mesothelioma. Cancer Science, 2011, 102, 1366-1373.	3.9	19
79	DNA stress and strain,<i>in silico</i>,<i>in vitro</i>and<i>in vivo</i>. Physical Biology, 2011, 8, 035011.	1.8	18
80	Protein expression profiles distinguish between experimental invasive pulmonary aspergillosis and Pseudomonas pneumonia. Proteomics, 2010, 10, 4270-4280.	2.2	16
81	Defining the essential function of FBP/KSRP proteins:<i>Drosophila</i>Psi interacts with the mediator complex to modulate<i>MYC</i>transcription and tissue growth. Nucleic Acids Research, 2016, 44, 7646-7658.	14.5	16
82	Defective Hfp-dependent transcriptional repression of dMYC is fundamental to tissue overgrowth in Drosophila XPB models. Nature Communications, 2015, 6, 7404.	12.8	13
83	In Vivo Chemical Probing for G-Quadruplex Formation. Methods in Molecular Biology, 2019, 2035, 369-382.	0.9	12
84	Targeting CDK9 for the Treatment of Glioblastoma. Cancers, 2021, 13, 3039.	3.7	12
85	Single-molecule visualization of the effects of ionic strength and crowding on structure-mediated interactions in supercoiled DNA molecules. Nucleic Acids Research, 2019, 47, 6360-6368.	14.5	11
86	A New Twist on Transcriptional Bursting. Cell, 2014, 158, 241-242.	28.9	9
87	FUBP1 and FUBP2 enforce distinct epigenetic setpoints for MYC expression in primary single murine cells. Communications Biology, 2020, 3, 545.	4.4	8
88	Reliable Noise. Science, 2010, 327, 1088-1089.	12.6	7
89	Partition of Myc into Immobile vs. Mobile Complexes within Nuclei. Scientific Reports, 2013, 3, 1953.	3.3	7
90	Controlling gene expression by DNA mechanics: emerging insights and challenges. Biophysical Reviews, 2016, 8, 23-32.	3.2	7

#	Article	IF	Citations
91	Mapping DNA Breaks by Next-Generation Sequencing. Methods in Molecular Biology, 2018, 1672, 155-166.	0.9	6
92	FBP1 Is an Interacting Partner of Menin. International Journal of Endocrinology, 2014, 2014, 1-6.	1.5	5
93	The Texture of Chromatin. Cell, 2019, 179, 579-581.	28.9	5
94	The Use of Psoralen Photobinding to Study Transcription-Induced Supercoiling. Methods in Molecular Biology, 2018, 1703, 95-108.	0.9	4
95	Transcriptional repression of Myc underlies the tumour suppressor function of AGO1 in Drosophila. Development (Cambridge), 2020, 147, .	2.5	4
96	Non-equilibrium structural dynamics of supercoiled DNA plasmids exhibits asymmetrical relaxation. Nucleic Acids Research, 2022, 50, 2754-2764.	14.5	4
97	Notching Up MYC Gives a LIC. Cell Stem Cell, 2013, 13, 8-9.	11.1	3
98	Shapely DNA attracts the right partner. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4516-4517.	7.1	3
99	INITIATION AND TRANSCRIPTION OF YEAST MITOCHONDRIAL RNA. , 1983, , 69-78.		2
100	Ups and Downs of Poised RNA Polymerase II in B-Cells. PLoS Computational Biology, 2016, 12, e1004821.	3.2	2
101	Tuning the MYC response. ELife, 2016, 5, .	6.0	2
102	Editorial overview: Genome architecture and expression: The nucleus, top and bottom. Current Opinion in Genetics and Development, 2014, 25, v-vii.	3.3	1
103	Single Molecule Visualization of Topology-Mediated Interactions in Supercoiled DNA. Biophysical Journal, 2017, 112, 474a.	0.5	0
104	Single Molecule Analysis of Transcription in Live Cells Reveals the Gene Regulatory Function of MYC In Vivo. Biophysical Journal, 2017, 112, 210a-211a.	0.5	0
105	DNA Supercoiling(omics). , 2018, , 81-99.		0
106	Enhancers not required. ELife, 2017, 6, .	6.0	0