

Joel M Gottesfeld

List of Publications by Year in Descending Order

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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.

101 papers	6,656 citations	45 h-index	80 g-index
105 ext. papers	7,147 ext. citations	9.1 avg, IF	5.39 L-index

#	Paper	IF	Citations
101	Methylated and unmethylated epialleles support variegated epigenetic silencing in Friedreich ataxia. <i>Human Molecular Genetics</i> , 2021 , 29, 3818-3829	5.6	11
100	Milestones in transcription and chromatin published in the. <i>Journal of Biological Chemistry</i> , 2019 , 294, 1652-1660	5.4	4
99	Molecular Mechanisms and Therapeutics for the GAA/TC Expansion Disease Friedreich Ataxia. <i>Neurotherapeutics</i> , 2019 , 16, 1032-1049	6.4	18
98	Transcriptional profiling of isogenic Friedreich ataxia neurons and effect of an HDAC inhibitor on disease signatures. <i>Journal of Biological Chemistry</i> , 2019 , 294, 1846-1859	5.4	15
97	Introduction to the Thematic Minireview Series: Chromatin and transcription. <i>Journal of Biological Chemistry</i> , 2018 , 293, 13775-13777	5.4	8
96	Repeat-Associated Non-ATG (RAN) Translation in Fuchs Endothelial Corneal Dystrophy 2018 , 59, 1888-1896		32
95	Cyclic tetrapeptide HDAC inhibitors as potential therapeutics for spinal muscular atrophy: Screening with iPSC-derived neuronal cells. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017 , 27, 3289-3293	2.9	21
94	Translating HDAC inhibitors in Friedreich ataxia. <i>Expert Opinion on Orphan Drugs</i> , 2016 , 4, 961-970	1.1	23
93	The Effects of Pharmacological Inhibition of Histone Deacetylase 3 (HDAC3) in Huntington Disease Mice. <i>PLoS ONE</i> , 2016 , 11, e0152498	3.7	55
92	RNA toxicity and missplicing in the common eye disease fuchs endothelial corneal dystrophy. <i>Journal of Biological Chemistry</i> , 2015 , 290, 5979-90	5.4	80
91	Mechanism of Action of 2-Aminobenzamide HDAC Inhibitors in Reversing Gene Silencing in Friedreich Ataxia. <i>Frontiers in Neurology</i> , 2015 , 6, 44	4.1	17
90	Epigenetic therapy for Friedreich ataxia. <i>Annals of Neurology</i> , 2014 , 76, 489-508	9.4	101
89	Quantitative proteomic analysis identifies targets and pathways of a 2-aminobenzamide HDAC inhibitor in Friedreich ataxia patient iPSC-derived neural stem cells. <i>Journal of Proteome Research</i> , 2014 , 13, 4558-66	5.6	22
88	Introduction to thematic minireview series: Development of human therapeutics based on induced pluripotent stem cell (iPSC) technology. <i>Journal of Biological Chemistry</i> , 2014 , 289, 4553-4	5.4	7
87	Length-dependent CTG/CAG triplet-repeat expansion in myotonic dystrophy patient-derived induced pluripotent stem cells. <i>Human Molecular Genetics</i> , 2013 , 22, 5276-87	5.6	71
86	Increasing frataxin gene expression with histone deacetylase inhibitors as a therapeutic approach for Friedreich ataxia. <i>Journal of Neurochemistry</i> , 2013 , 126 Suppl 1, 147-54	6	42
85	Chromatin structure determines accessibility of a hairpin polyamide-chlorambucil conjugate at histone H4 genes in pancreatic cancer cells. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012 , 22, 4068-71	2.9	18

84	Histone deacetylase (HDAC) inhibitors targeting HDAC3 and HDAC1 ameliorate polyglutamine-elicited phenotypes in model systems of Huntington's disease. <i>Neurobiology of Disease</i> , 2012 , 46, 351-61	7.5	139
83	Role of mismatch repair enzymes in GAA/TTC triplet-repeat expansion in Friedreich ataxia induced pluripotent stem cells. <i>Journal of Biological Chemistry</i> , 2012 , 287, 29861-72	5.4	81
82	Minireview series on sirtuins: from biochemistry to health and disease. <i>Journal of Biological Chemistry</i> , 2012 , 287, 42417-8	5.4	8
81	Rationale for the development of 2-aminobenzamide histone deacetylase inhibitors as therapeutics for Friedreich ataxia. <i>Journal of Child Neurology</i> , 2012 , 27, 1164-73	2.5	29
80	Selecting and isolating colonies of human induced pluripotent stem cells reprogrammed from adult fibroblasts. <i>Journal of Visualized Experiments</i> , 2012 ,	1.6	6
79	Dynamic changes in the copy number of pluripotency and cell proliferation genes in human ESCs and iPSCs during reprogramming and time in culture. <i>Cell Stem Cell</i> , 2011 , 8, 106-18	18	700
78	Prolonged treatment with pimelic o-aminobenzamide HDAC inhibitors ameliorates the disease phenotype of a Friedreich ataxia mouse model. <i>Neurobiology of Disease</i> , 2011 , 42, 496-505	7.5	96
77	A gene expression phenotype in lymphocytes from Friedreich ataxia patients. <i>Annals of Neurology</i> , 2011 , 70, 790-804	9.4	49
76	Introduction to the thematic minireview series on epigenetics. <i>Journal of Biological Chemistry</i> , 2011 , 286, 18345-6	5.4	3
75	Improved Histone Deacetylase Inhibitors as Therapeutics for the Neurodegenerative Disease Friedreich's Ataxia: A New Synthetic Route. <i>Pharmaceuticals</i> , 2011 , 4, 1578-1590	5.2	10
74	Evaluation of histone deacetylase inhibitors as therapeutics for neurodegenerative diseases. <i>Methods in Molecular Biology</i> , 2011 , 793, 495-508	1.4	24
73	Reduced histone deacetylase 7 activity restores function to misfolded CFTR in cystic fibrosis. <i>Nature Chemical Biology</i> , 2010 , 6, 25-33	11.7	204
72	Two new pimelic diphenylamide HDAC inhibitors induce sustained frataxin upregulation in cells from Friedreich's ataxia patients and in a mouse model. <i>PLoS ONE</i> , 2010 , 5, e8825	3.7	111
71	Chemical biology meets biological chemistry minireview series. <i>Journal of Biological Chemistry</i> , 2010 , 285, 11031-2	5.4	5
70	Friedreich's ataxia induced pluripotent stem cells model intergenerational GAA/TTC triplet repeat instability. <i>Cell Stem Cell</i> , 2010 , 7, 631-7	18	167
69	Potent activity against K562 cells by polyamide-seco-CBI conjugates targeting histone H4 genes. <i>Bioorganic and Medicinal Chemistry</i> , 2010 , 18, 168-74	3.4	9
68	Development of histone deacetylase inhibitors as therapeutics for neurological disease. <i>Future Neurology</i> , 2009 , 4, 775-784	1.5	20
67	Chemical probes identify a role for histone deacetylase 3 in Friedreich's ataxia gene silencing. <i>Chemistry and Biology</i> , 2009 , 16, 980-9		102

66	Design and synthesis of novel hybrid benzamide-peptide histone deacetylase inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009 , 19, 3928-31	2.9	17
65	The HDAC inhibitor 4b ameliorates the disease phenotype and transcriptional abnormalities in Huntington's disease transgenic mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 15564-9	11.5	240
64	Small molecules targeting histone H4 as potential therapeutics for chronic myelogenous leukemia. <i>Molecular Cancer Therapeutics</i> , 2008 , 7, 769-78	6.1	32
63	HDAC inhibitors correct frataxin deficiency in a Friedreich ataxia mouse model. <i>PLoS ONE</i> , 2008 , 3, e1958	3.7	174
62	Growth arrest of BCR-ABL positive cells with a sequence-specific polyamide-chlorambucil conjugate. <i>PLoS ONE</i> , 2008 , 3, e3593	3.7	9
61	Pimelic diphenylamide 106 is a slow, tight-binding inhibitor of class I histone deacetylases. <i>Journal of Biological Chemistry</i> , 2008 , 283, 35402-9	5.4	160
60	The Polyamide-Chlorambucil Conjugate 1R-Chl Effectively Inhibits Proliferation and Induces Apoptosis in CML Progenitor Cells. <i>Blood</i> , 2008 , 112, 5031-5031	2.2	
59	Small molecules affecting transcription in Friedreich ataxia		58
58	Unanticipated differences between alpha- and gamma-diaminobutyric acid-linked hairpin polyamide-alkylator conjugates. <i>Nucleic Acids Research</i> , 2007 , 35, 307-16	20.1	22
57	A two-hit mechanism for pre-mitotic arrest of cancer cell proliferation by a polyamide-alkylator conjugate. <i>Cell Cycle</i> , 2006 , 5, 1537-48	4.7	24
56	DNA sequence-specific polyamides alleviate transcription inhibition associated with long GAA.TTC repeats in Friedreich's ataxia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 11497-502	11.5	114
55	Induced fit and "lock and key" recognition of 5S RNA by zinc fingers of transcription factor IIIA. <i>Journal of Molecular Biology</i> , 2006 , 357, 275-91	6.5	60
54	Alkylation of duplex DNA in nucleosome core particles by duocarmycin SA and yatakemycin. <i>Nature Chemical Biology</i> , 2006 , 2, 79-82	11.7	61
53	Histone deacetylase inhibitors reverse gene silencing in Friedreich's ataxia. <i>Nature Chemical Biology</i> , 2006 , 2, 551-8	11.7	360
52	Inhibition of DNA binding by human estrogen-related receptor 2 and estrogen receptor alpha with minor groove binding polyamides. <i>Biochemistry</i> , 2005 , 44, 4196-203	3.2	39
51	Nucleosomes in solution exist as a mixture of twist-defect states. <i>Journal of Molecular Biology</i> , 2005 , 345, 103-14	6.5	49
50	Regulation of Gene Expression with Pyrrole-Imidazole Polyamides		1
49	Role of DNA sequence in the binding specificity of synthetic basic-helix-loop-helix domains. <i>ChemBioChem</i> , 2005 , 6, 104-13	3.8	10

48	Arresting cancer proliferation by small-molecule gene regulation. <i>Chemistry and Biology</i> , 2004 , 11, 1583-94		75
47	Molecular recognition of the nucleosomal "supergroove". <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 6864-9	11.5	80
46	Regulation of gene expression with pyrrole-imidazole polyamides. <i>Journal of Biotechnology</i> , 2004 , 112, 195-220	3.7	54
45	Accessibility of nuclear chromatin by DNA binding polyamides. <i>Chemistry and Biology</i> , 2003 , 10, 859-67		56
44	RNA as a transcriptional activator. <i>Chemistry and Biology</i> , 2003 , 10, 584-5		0
43	Crystal structures of nucleosome core particles in complex with minor groove DNA-binding ligands. <i>Journal of Molecular Biology</i> , 2003 , 326, 371-80	6.5	135
42	Cyclin L is an RS domain protein involved in pre-mRNA splicing. <i>Journal of Biological Chemistry</i> , 2002 , 277, 25465-73	5.4	87
41	Blocking transcription through a nucleosome with synthetic DNA ligands. <i>Journal of Molecular Biology</i> , 2002 , 321, 249-63	6.5	85
40	Promoter scanning for transcription inhibition with DNA-binding polyamides. <i>Molecular and Cellular Biology</i> , 2002 , 22, 1723-33	4.8	36
39	Sequence-specific recognition of DNA in the nucleosome by pyrrole-imidazole polyamides. <i>Journal of Molecular Biology</i> , 2001 , 309, 615-29	6.5	100
38	Energetics and affinity of the histone octamer for defined DNA sequences. <i>Biochemistry</i> , 2001 , 40, 10923-33		70
37	Rapid identification of key amino-acid-DNA contacts through combinatorial peptide synthesis. <i>Chemistry and Biology</i> , 2000 , 7, 245-51		22
36	Asymmetric DNA binding by a homodimeric bHLH protein. <i>Biochemistry</i> , 2000 , 39, 9092-8	3.2	21
35	Inhibition of Ets-1 DNA binding and ternary complex formation between Ets-1, NF-kappaB, and DNA by a designed DNA-binding ligand. <i>Journal of Biological Chemistry</i> , 1999 , 274, 12765-73	5.4	59
34	Anti-repression of RNA polymerase II transcription by pyrrole-imidazole polyamides. <i>Biochemistry</i> , 1999 , 38, 10801-7	3.2	53
33	Characterization of the DNA binding properties of the bHLH domain of Deadpan to single and tandem sites. <i>Biochemistry</i> , 1999 , 38, 5138-46	3.2	28
32	Minor groove DNA-protein contacts upstream of a tRNA gene detected with a synthetic DNA binding ligand. <i>Journal of Molecular Biology</i> , 1999 , 286, 973-81	6.5	21
31	Identification of a minimal domain of 5 S ribosomal RNA sufficient for high affinity interactions with the RNA-specific zinc fingers of transcription factor IIIA. <i>Journal of Molecular Biology</i> , 1999 , 291, 549-60	6.5	18

30	Repression of TFIIH transcriptional activity and TFIIH-associated cdk7 kinase activity at mitosis. <i>Molecular and Cellular Biology</i> , 1998 , 18, 1467-76	4.8	78
29	Solution structure of the first three zinc fingers of TFIIIA bound to the cognate DNA sequence: determinants of affinity and sequence specificity. <i>Journal of Molecular Biology</i> , 1997 , 273, 183-206	6.5	171
28	Importance of minor groove binding zinc fingers within the transcription factor IIIA-DNA complex. <i>Journal of Molecular Biology</i> , 1997 , 274, 439-45	6.5	31
27	Domain packing and dynamics in the DNA complex of the N-terminal zinc fingers of TFIIIA. <i>Nature Structural Biology</i> , 1997 , 4, 605-8		102
26	Regulation of gene expression by small molecules. <i>Nature</i> , 1997 , 387, 202-5	50.4	443
25	Assessment of major and minor groove DNA interactions by the zinc fingers of Xenopus transcription factor IIIA. <i>Nucleic Acids Research</i> , 1996 , 24, 2567-74	20.1	9
24	Repression of RNA polymerase II and III transcription during M phase of the cell cycle. <i>Experimental Cell Research</i> , 1996 , 229, 282-8	4.2	70
23	Protein and DNA requirements for the transcription factor IIIA-induced distortion of the 5 S rRNA gene promoter. <i>Journal of Molecular Biology</i> , 1996 , 262, 600-14	6.5	12
22	Interaction of the RNA binding fingers of Xenopus transcription factor IIIA with specific regions of 5 S ribosomal RNA. <i>Journal of Molecular Biology</i> , 1995 , 248, 44-57	6.5	44
21	Repression of vertebrate RNA polymerase III transcription by DNA binding proteins located upstream from the transcription start site. <i>Journal of Molecular Biology</i> , 1995 , 250, 315-26	6.5	17
20	Relative contributions of the zinc fingers of transcription factor IIIA to the energetics of DNA binding. <i>Journal of Molecular Biology</i> , 1994 , 244, 23-35	6.5	61
19	Specific interaction of the first three zinc fingers of TFIIIA with the internal control region of the Xenopus 5 S RNA gene. <i>Journal of Molecular Biology</i> , 1992 , 223, 857-71	6.5	100
18	TFIIIA induced DNA bending: effect of low ionic strength electrophoresis buffer conditions. <i>Nucleic Acids Research</i> , 1991 , 19, 511-6	20.1	18
17	Zinc is required for folding and binding of a single zinc finger to DNA. <i>FEBS Letters</i> , 1991 , 279, 289-94	3.8	20
16	Chromosomal footprinting of transcriptionally active and inactive oocyte-type 5S RNA genes of <i>Xenopus laevis</i> . <i>Nucleic Acids Research</i> , 1990 , 18, 6031-7	20.1	27
15	Pathways of nucleoprotein assembly on 5S RNA genes in a <i>Xenopus</i> oocyte S-150 extract. <i>Nucleic Acids Research</i> , 1989 , 17, 4117-30	20.1	5
14	Transcription factor IIIA induced bending of the <i>Xenopus</i> somatic 5S gene promoter. <i>Nature</i> , 1989 , 340, 487-8	50.4	64
13	Analysis of RNA polymerase III transcription in vitro using chromatin and cloned gene templates. <i>Methods in Enzymology</i> , 1989 , 170, 347-59	1.7	3

12	Xenopus transcription factor IIIA forms a complex of covalent character with 5S DNA. <i>Nucleic Acids Research</i> , 1988 , 16, 11267-84	20.1	6
11	Novobiocin inhibits RNA polymerase III transcription in vitro by a mechanism distinct from DNA topoisomerase II. <i>Nucleic Acids Research</i> , 1986 , 14, 2075-88	20.1	40
10	Competition between Xenopus satellite I sequences and Pol III genes for stable transcription complex formation. <i>Nucleic Acids Research</i> , 1984 , 12, 7753-69	20.1	27
9	Association of an RNA polymerase III transcription factor with a ribonucleoprotein complex recognized by autoimmune sera. <i>Nucleic Acids Research</i> , 1984 , 12, 3185-200	20.1	30
8	Identifier sequences are transcribed specifically in brain. <i>Nature</i> , 1984 , 308, 237-41	50.4	150
7	Eukaryotic transcription complexes. <i>Molecular and Cellular Biochemistry</i> , 1984 , 62, 97-108	4.2	9
6	Control of 5S RNA transcription in Xenopus somatic cell chromatin: activation with an oocyte extract. <i>Nucleic Acids Research</i> , 1983 , 11, 57-75	20.1	19
5	Assembly of transcriptionally active 5S RNA gene chromatin in vitro. <i>Cell</i> , 1982 , 28, 781-91	56.2	193
4	Chromatin Fractionation and the Properties of Transcriptionally Active Regions of Chromatin 1979 , 541-560		1
3	Structure of transcriptionally-active chromatin subunits. <i>Nucleic Acids Research</i> , 1977 , 4, 3155-73	20.1	87
2	Sequence composition of the template-active fraction of rat liver chromatin. <i>Biochemistry</i> , 1976 , 15, 2473-83	3.83	61
1	Isolation of template active and inactive regions of chromatin. <i>Methods in Enzymology</i> , 1975 , 40, 97-102	1.7	18