James D Mcghee

List of Publications by Citations

67 papers	7,017 citations	33 h-index	70 g-index
70 ext. papers	7,413 ext. citations	11.8 avg, IF	5.62 L-index

#	Paper	IF	Citations
67	Theoretical aspects of DNA-protein interactions: co-operative and non-co-operative binding of large ligands to a one-dimensional homogeneous lattice. *Journal of Molecular Biology*, **1974**, 86, 469-89	6.5	2609
66	The GATA family (vertebrates and invertebrates). *Current Opinion in Genetics and Development*, **2002**, 12, 416-22	4.9	452
65	Specific DNA methylation sites in the vicinity of the chicken beta-globin genes. *Nature*, **1979**, 280, 419-20	30.4	335
64	Theoretical calculations of the helix-coil transition of DNA in the presence of large, cooperatively binding ligands. *Biopolymers*, **1976**, 15, 1345-75	2.2	294
63	DNA-protein interactions. *Annual Review of Biochemistry*, **1972**, 41, 231-300	29.1	252
62	Orientation of the nucleosome within the higher order structure of chromatin. *Cell*, **1980**, 22, 87-96	56.2	228
61	The GATA-factor elt-2 is essential for formation of the Caenorhabditis elegans intestine. *Developmental Biology*, **1998**, 198, 286-302	3.1	224
60	Higher order structure of chromatin: orientation of nucleosomes within the 30 nm chromatin solenoid is independent of species and spacer length. *Cell*, **1983**, 33, 831-41	56.2	219
59	The C. elegans intestine. *WormBook*, **2007**, 1-36		186
58	DNA synthesis and the control of embryonic gene expression in C. elegans. *Cell*, **1988**, 53, 589-99	56.2	167
57	The ELT-2 GATA-factor and the global regulation of transcription in the C. elegans intestine. *Developmental Biology*, **2007**, 302, 627-45	3.1	131
56	ELT-2 is the predominant transcription factor controlling differentiation and function of the C. elegans intestine, from embryo to adult. *Developmental Biology*, **2009**, 327, 551-65	3.1	106
55	The gut esterase gene (ges-1) from the nematodes Caenorhabditis elegans and Caenorhabditis briggsae. *Journal of Molecular Biology*, **1993**, 229, 890-908	6.5	98
54	Embryonic expression of a gut-specific esterase in Caenorhabditis elegans. *Developmental Biology*, **1986**, 114, 109-18	3.1	95
53	Another potential artifact in the study of nucleosome phasing by chromatin digestion with micrococcal nuclease. *Cell*, **1983**, 32, 1205-15	56.2	92
52	Histone hyperacetylation has little effect on the higher order folding of chromatin. *Nucleic Acids Research*, **1983**, 11, 4065-75	20.1	79
51	ELT-3: A Caenorhabditis elegans GATA factor expressed in the embryonic epidermis during morphogenesis. *Developmental Biology*, **1999**, 208, 265-80	3.1	77

50	The apical disposition of the Caenorhabditis elegans intestinal terminal web is maintained by LET-413. *Developmental Biology*, **2004**, 268, 448-56	3.1	71
49	The number of charge-charge interactions stabilizing the ends of nucleosome DNA. *Nucleic Acids Research*, **1980**, 8, 2751-69	20.1	67
48	elt-2, a second GATA factor from the nematode Caenorhabditis elegans. *Journal of Biological Chemistry*, **1995**, 270, 14666-71	5.4	66
47	A fork head/HNF-3 homolog expressed in the pharynx and intestine of the Caenorhabditis elegans embryo. *Developmental Biology*, **1996**, 178, 289-303	3.1	66
46	The C. elegans lethal gut-obstructed gob-1 gene is trehalose-6-phosphate phosphatase. *Developmental Biology*, **2005**, 287, 35-47	3.1	65
45	A gut-to-pharynx/tail switch in embryonic expression of the Caenorhabditis elegans ges-1 gene centers on two GATA sequences. *Developmental Biology*, **1995**, 170, 397-419	3.1	65
44	Subunit structure of chromatin is the same in plants and animals. *Nature*, **1975**, 254, 449-50	50.4	64
43	31P-NMR studies of DNA in nucleosome core particles. *Biopolymers*, **1980**, 19, 523-37	2.2	58
42	Homeobox containing genes in the nematode Caenorhabditis elegans. *Nucleic Acids Research*, **1990**, 18, 6101-6	20.1	46
41	Parental DNA strands segregate randomly during embryonic development of Caenorhabditis elegans. *Cell*, **1987**, 49, 329-36	56.2	42
40	Transcriptional control and patterning of the pho-1 gene, an essential acid phosphatase expressed in the C. elegans intestine. *Developmental Biology*, **2005**, 279, 446-61	3.1	41
39	The Caenorhabditis elegans intestine. *Wiley Interdisciplinary Reviews: Developmental Biology*, **2013**, 2, 347-67	5.9	40
38	The C. elegans pvf-1 gene encodes a PDGF/VEGF-like factor able to bind mammalian VEGF receptors and to induce angiogenesis. *FASEB Journal*, **2006**, 20, 227-33	0.9	39
37	The high mobility group proteins HMG 14 and 17, do not prevent the formation of chromatin higher order structure. *Nucleic Acids Research*, **1982**, 10, 2007-16	20.1	39
36	The evolutionary duplication and probable demise of an endodermal GATA factor in Caenorhabditis elegans. *Genetics*, **2003**, 165, 575-88	4	35
35	DNA-protein interactions in the Caenorhabditis elegans embryo: oocyte and embryonic factors that bind to the promoter of the gut-specific ges-1 gene. *Developmental Biology*, **1994**, 163, 367-80	3.1	31
34	Bacterial residence time in the intestine of Caenorhabditis elegans. *Nematology*, **2007**, 9, 87-91	0.9	30
33	Uracil-DNA glycosylase as a probe for protein--DNA interactions. *Nucleic Acids Research*, **1993**, 21, 3437-43	20.1	27

32	An acid phosphatase as a biochemical marker for intestinal development in the nematode Caenorhabditis elegans. *Developmental Biology*, **1991**, 147, 133-43	3.1	27
31	Reevaluation of the role of the med-1 and med-2 genes in specifying the Caenorhabditis elegans endoderm. *Genetics*, **2005**, 171, 545-55	4	24
30	Modulation of gene expression in the embryonic digestive tract of C. elegans. *Developmental Biology*, **1996**, 178, 276-88	3.1	24
29	The function and regulation of the GATA factor ELT-2 in the C. elegans endoderm. *Development (Cambridge)*, **2016**, 143, 483-91	6.6	20
28	Coordination of ges-1 expression between the Caenorhabditis pharynx and intestine. *Developmental Biology*, **2001**, 239, 350-63	3.1	19
27	Development of the C. elegans digestive tract. *Current Opinion in Genetics and Development*, **2010**, 20, 346-54	4.9	16
26	Reconstitution of nucleosome core particles containing glucosylated DNA. *Journal of Molecular Biology*, **1982**, 158, 685-98	6.5	16
25	Re-evaluating the role of ELT-3 in a GATA transcription factor circuit proposed to guide aging in C. elegans. *Mechanisms of Ageing and Development*, **2012**, 133, 50-3	5.6	15
24	Purification and characterization of a carboxylesterase from the intestine of the nematode Caenorhabditis elegans. *Biochemistry*, **1987**, 26, 4101-7	3.2	15
23	Interference between the PHA-4 and PEB-1 transcription factors in formation of the Caenorhabditis elegans pharynx. *Journal of Molecular Biology*, **2002**, 320, 697-704	6.5	14
22	A 44 bp intestine-specific hermaphrodite-specific enhancer from the C. elegans vit-2 vitellogenin gene is directly regulated by ELT-2, MAB-3, FKH-9 and DAF-16 and indirectly regulated by the germline, by daf-2/insulin signaling and by the TGF-/Sma/Mab pathway. *Developmental Biology*, **2016**, 413, 112-27	3.1	13
21	Proteome of the Caenorhabditis elegans oocyte. *Journal of Proteome Research*, **2011**, 10, 2300-5	5.6	12
20	The major gut esterase locus in the nematode Caenorhabditis elegans. *Molecular Genetics and Genomics*, **1986**, 202, 30-4		10
19	Recent advances in understanding the molecular mechanisms regulating C. elegans transcription. *Developmental Dynamics*, **2010**, 239, 1388-404	2.9	9
18	Neither maternal nor zygotic med-1/med-2 genes play a major role in specifying the Caenorhabditis elegans endoderm. *Genetics*, **2007**, 175, 969-74	4	9
17	Homologous tails? Or tales of homology?. *BioEssays*, **2000**, 22, 781-5	4.1	9
16	DNA synthesis in the early embryo of the nematode Ascaris suum. *Developmental Biology*, **1992**, 152, 89-93	3.1	9
15	Quantitating transcription factor redundancy: The relative roles of the ELT-2 and ELT-7 GATA factors in the C. elegans endoderm. *Developmental Biology*, **2018**, 435, 150-161	3.1	8

14	Cell fate decisions in the early embryo of the nematode Caenorhabditis elegans. *Genesis*, **1995**, 17, 155-66		8
13	Unusual DNA packaging characteristics in endoreduplicated Caenorhabditis elegans oocytes defined by in vivo accessibility to an endogenous nuclease activity. *Epigenetics and Chromatin*, **2013**, 6, 37	5.8	4
12	Resolution of sequencing ambiguities: a universal FokI adapter permits Maxam-Gilbert re-sequencing of single-stranded phagemid DNA. *Gene*, **1991**, 104, 71-4	3.8	4
11	Evidence for a subunit structure of chromatin in mouse myeloma cells. *Chromosoma*, **1975**, 52, 189-205	2.8	4
10	Characterization of the C. elegans erlin homologue. *BMC Cell Biology*, **2012**, 13, 2		2
9	Probing and rearranging the transcription factor network controlling the endoderm. *Worm*, **2016**, 5, e1198869		2
8	A Strategy To Isolate Modifiers of Lethal Mutations: Investigating the Endoderm Specifying Ability of the Intestinal Differentiation GATA Factor ELT-2. *G3: Genes, Genomes, Genetics*, **2018**, 8, 1425-1437	3.2	1
7	Reply to the letter from Drs. Kim, Budovskaya and Johnson. *Mechanisms of Ageing and Development* , **2012**, 133, 57-58	5.6	1
6	Reply to the second letter from Drs. Kim, Budovskaya and Johnson. *Mechanisms of Ageing and Development*, **2013**, 134, 66-7	5.6	1
5	Higher Orders of Chromatin Structure **1983**, 101-112		1
4	CHROMATIN CONFORMATION AND GENE ACTIVITY **1982**, 121-135		1
3	Analysis of the tet repressor-operator interactions using the uracil-DNA glycosylase footprinting system. *Annals of the New York Academy of Sciences*, **1994**, 726, 309-11	6.5	0
2	A carboxylesterase from the parasitic nematode Ascaris suum homologous to the intestinal-specific ges-1 esterase of Caenorhabditis elegans. *Comparative Biochemistry and Physiology Part B: Comparative Biochemistry*, **1994**, 109, 225-36		
1	Chromatin Higher Order Structure and Gene Expression. *Jerusalem Symposia on Quantum Chemistry and Biochemistry*, **1983**, 343-352		