

# Hugh-G Patterson

## List of Publications by Year in descending order

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25  
papers

824  
citations

567281

15  
h-index

580821

25  
g-index

26  
all docs

26  
docs citations

26  
times ranked

1425  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Biochemical and Phenotypic Characterization of Hho1p, the Putative Linker Histone H1 of <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 1998, 273, 7268-7276.	3.4	132
2	H3ABioNet, a sustainable pan-African bioinformatics network for human heredity and health in Africa. <i>Genome Research</i> , 2016, 26, 271-277.	5.5	94
3	Over-expression and properties of a purified recombinant <i>Bacillus licheniformis</i> lipase: a comparative report on <i>Bacillus</i> lipases. <i>Enzyme and Microbial Technology</i> , 2001, 28, 705-712.	3.2	85
4	Bioinformatics Education–Perspectives and Challenges out of Africa. <i>Briefings in Bioinformatics</i> , 2015, 16, 355-364.	6.5	61
5	<i>Saccharomyces cerevisiae</i> Set1p is a methyltransferase specific for lysine 4 of histone H3 and is required for efficient gene expression. <i>Yeast</i> , 2003, 20, 827-835.	1.7	56
6	The <i>Saccharomyces cerevisiae</i> linker histone Hho1p is essential for chromatin compaction in stationary phase and is displaced by transcription. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 14838-14843.	7.1	45
7	RNA-seq based transcriptional analysis of <i>Saccharomyces cerevisiae</i> and <i>Lachancea thermotolerans</i> in mixed-culture fermentations under anaerobic conditions. <i>BMC Genomics</i> , 2019, 20, 145.	2.8	38
8	Bioinformatics tools for the structural elucidation of multi-subunit protein complexes by mass spectrometric analysis of protein-protein cross-links. <i>Briefings in Bioinformatics</i> , 2011, 12, 660-671.	6.5	36
9	Negative Supercoiling and Nucleosome Cores. <i>Journal of Molecular Biology</i> , 1993, 229, 623-636.	4.2	33
10	Nucleosome Positioning and Transcription. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 1993, 58, 237-245.	1.1	30
11	The epigenome of <i>Trypanosoma brucei</i> : A regulatory interface to an unconventional transcriptional machine. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2014, 1839, 743-750.	1.9	29
12	Calculating the statistical significance of physical clusters of co-regulated genes in the genome: the role of chromatin in domain-wide gene regulation. <i>Nucleic Acids Research</i> , 2004, 32, 1798-1807.	14.5	27
13	Secondary Structures of the Core Histone N-terminal Tails: Their Role in Regulating Chromatin Structure. <i>Sub-Cellular Biochemistry</i> , 2013, 61, 37-55.	2.4	20
14	An LC-MS/MS based survey of contaminants of emerging concern in drinking water in South Africa. <i>South African Journal of Science</i> , 2015, 111, 6.	0.7	20
15	The human transketolase-like proteins TKTL1 and TKTL2 are bona fide transketolases. <i>BMC Structural Biology</i> , 2019, 19, 2.	2.3	16
16	Negative Supercoiling and Nucleosome Cores. <i>Journal of Molecular Biology</i> , 1993, 229, 637-655.	4.2	15
17	Characterization of casein and alpha lactalbumin of African elephant ( <i>Loxodonta africana</i> ) milk. <i>Journal of Dairy Science</i> , 2015, 98, 8308-8318.	3.4	15
18	How Does Inflammation-Induced Hyperglycemia Cause Mitochondrial Dysfunction in Immune Cells?. <i>BioEssays</i> , 2019, 41, e1800260.	2.5	15

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19	Well-positioned nucleosomes punctuate polycistronic pol II transcription units and flank silent VSG gene arrays in <i>Trypanosoma brucei</i> . <i>Epigenetics and Chromatin</i> , 2017, 10, 14.	3.9	14
20	Modified curved DNA that could allow local DNA underwinding at the nucleosomal pseudodyad fails to position a nucleosome in vivo. <i>Nucleic Acids Research</i> , 1995, 23, 4170-4179.	14.5	10
21	Histone Octamer Helical Tubes Suggest that an Internucleosomal Four-Helix Bundle Stabilizes the Chromatin Fiber. <i>Biophysical Journal</i> , 2009, 96, 3363-3371.	0.5	9
22	The effect of epigenetic modifications on the secondary structures and possible binding positions of the N-terminal tail of histone H3 in the nucleosome: a computational study. <i>Journal of Molecular Modeling</i> , 2017, 23, 137.	1.8	8
23	The translational placement of nucleosome cores in vitro determines the access of the transacting factor suGF1 to DNA. <i>Nucleic Acids Research</i> , 1996, 24, 4349-4355.	14.5	7
24	Strategies and opportunities for promoting bioinformatics in Zimbabwe. <i>PLoS Computational Biology</i> , 2018, 14, e1006480.	3.2	6
25	AnchorMS: a bioinformatics tool to derive structural information from the mass spectra of cross-linked protein complexes. <i>Bioinformatics</i> , 2014, 30, 125-126.	4.1	3