William Raymond Pearson

List of Publications by Citations

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 77
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 86
 20,565
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 6.79

 ext. papers
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#	Paper	IF	Citations
77	Improved tools for biological sequence comparison. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1988 , 85, 2444-8	11.5	9694
76	Rapid and sensitive protein similarity searches. <i>Science</i> , 1985 , 227, 1435-41	33.3	3665
75	Hereditary differences in the expression of the human glutathione transferase active on trans-stilbene oxide are due to a gene deletion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1988 , 85, 7293-7	11.5	583
74	Comparison of DNA sequences with protein sequences. <i>Genomics</i> , 1997 , 46, 24-36	4.3	505
73	The genome of Cryptosporidium hominis. <i>Nature</i> , 2004 , 431, 1107-12	50.4	444
72	Searching protein sequence libraries: comparison of the sensitivity and selectivity of the Smith-Waterman and FASTA algorithms. <i>Genomics</i> , 1991 , 11, 635-50	4.3	444
71	An introduction to sequence similarity ("homology") searching. <i>Current Protocols in Bioinformatics</i> , 2013 , Chapter 3, Unit3.1	24.2	308
70	Empirical statistical estimates for sequence similarity searches. <i>Journal of Molecular Biology</i> , 1998 , 276, 71-84	6.5	280
69	Nomenclature for mammalian soluble glutathione transferases. <i>Methods in Enzymology</i> , 2005 , 401, 1-8	1.7	236
68	Effective protein sequence comparison. <i>Methods in Enzymology</i> , 1996 , 266, 227-58	1.7	235
67	Comparison of methods for searching protein sequence databases. <i>Protein Science</i> , 1995 , 4, 1145-60	6.3	214
66	A program for least squares analysis of reassociation and hybridization data. <i>Nucleic Acids Research</i> , 1977 , 4, 1727-37	20.1	196
65	Getting more from less: algorithms for rapid protein identification with multiple short peptide sequences. <i>Molecular and Cellular Proteomics</i> , 2002 , 1, 139-47	7.6	180
64	Identification of class-mu glutathione transferase genes GSTM1-GSTM5 on human chromosome 1p13. <i>American Journal of Human Genetics</i> , 1993 , 53, 220-33	11	143
63	Molecular characterization of alpha 1- and alpha 2-adrenoceptors. <i>Trends in Pharmacological Sciences</i> , 1991 , 12, 62-7	13.2	139
62	Characterization of the human class Mu glutathione S-transferase gene cluster and the GSTM1 deletion. <i>Journal of Biological Chemistry</i> , 1998 , 273, 3517-27	5.4	134
61	The Catalytic Site Atlas 2.0: cataloging catalytic sites and residues identified in enzymes. <i>Nucleic Acids Research</i> , 2014 , 42, D485-9	20.1	130

60	Evolution of protein sequences and structures. <i>Journal of Molecular Biology</i> , 1999 , 291, 977-95	6.5	107
59	Sensitivity and selectivity in protein structure comparison. <i>Protein Science</i> , 2004 , 13, 773-85	6.3	105
58	Increased synthesis of glutathione S-transferases in response to anticarcinogenic antioxidants. Cloning and measurement of messenger RNA. <i>Journal of Biological Chemistry</i> , 1983 , 258, 2052-62	5.4	98
57	Absence of short period interspersion of repetitive and non-repetitive sequences in the DNA of Drosophila melanogaster. <i>Chromosoma</i> , 1976 , 56, 309-26	2.8	89
56	Identification of residues in glutathione transferase capable of driving functional diversification in evolution. A novel approach to protein redesign. <i>Journal of Biological Chemistry</i> , 2003 , 278, 8733-8	5.4	77
55	Designing medical informatics research and libraryresource projects to increase what is learned. Journal of the American Medical Informatics Association: JAMIA, 1994, 1, 28-33	8.6	76
54	Phylogenies of glutathione transferase families. <i>Methods in Enzymology</i> , 2005 , 401, 186-204	1.7	66
53	The limits of protein sequence comparison?. Current Opinion in Structural Biology, 2005, 15, 254-60	8.1	64
52	The origin of nuclear receptor proteins: a single precursor distinct from other transcription factors. <i>Molecular Endocrinology</i> , 1992 , 6, 3-7		64
51	Aligning two sequences within a specified diagonal band. <i>Bioinformatics</i> , 1992 , 8, 481-7	7.2	63
50	Aligning two sequences within a specified diagonal band. <i>Bioinformatics</i> , 1992 , 8, 481-7 Rapid identification of protein phosphatase 1-binding proteins by mixed peptide sequencing and data base searching. Characterization of a novel holoenzymic form of protein phosphatase 1. <i>Journal of Biological Chemistry</i> , 1998 , 273, 24396-405	7.2 5.4	63
	Rapid identification of protein phosphatase 1-binding proteins by mixed peptide sequencing and data base searching. Characterization of a novel holoenzymic form of protein phosphatase 1.	<i>,</i>	
50	Rapid identification of protein phosphatase 1-binding proteins by mixed peptide sequencing and data base searching. Characterization of a novel holoenzymic form of protein phosphatase 1. <i>Journal of Biological Chemistry</i> , 1998 , 273, 24396-405 Cloning, expression, and characterization of a class-mu glutathione transferase from human muscle, the product of the GST4 locus. <i>Proceedings of the National Academy of Sciences of the</i>	5.4	61
50 49	Rapid identification of protein phosphatase 1-binding proteins by mixed peptide sequencing and data base searching. Characterization of a novel holoenzymic form of protein phosphatase 1. <i>Journal of Biological Chemistry</i> , 1998 , 273, 24396-405 Cloning, expression, and characterization of a class-mu glutathione transferase from human muscle, the product of the GST4 locus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991 , 88, 4443-7	5.4	61
50 49 48	Rapid identification of protein phosphatase 1-binding proteins by mixed peptide sequencing and data base searching. Characterization of a novel holoenzymic form of protein phosphatase 1. <i>Journal of Biological Chemistry</i> , 1998 , 273, 24396-405 Cloning, expression, and characterization of a class-mu glutathione transferase from human muscle, the product of the GST4 locus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991 , 88, 4443-7 MACiE: exploring the diversity of biochemical reactions. <i>Nucleic Acids Research</i> , 2012 , 40, D783-9 Dynamic programming algorithms for biological sequence comparison. <i>Methods in Enzymology</i> ,	5.4	61 61 60
50 49 48 47	Rapid identification of protein phosphatase 1-binding proteins by mixed peptide sequencing and data base searching. Characterization of a novel holoenzymic form of protein phosphatase 1. <i>Journal of Biological Chemistry</i> , 1998 , 273, 24396-405 Cloning, expression, and characterization of a class-mu glutathione transferase from human muscle, the product of the GST4 locus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991 , 88, 4443-7 MACIE: exploring the diversity of biochemical reactions. <i>Nucleic Acids Research</i> , 2012 , 40, D783-9 Dynamic programming algorithms for biological sequence comparison. <i>Methods in Enzymology</i> , 1992 , 210, 575-601 Empirical determination of effective gap penalties for sequence comparison. <i>Bioinformatics</i> , 2002 ,	5.4 11.5 20.1	61 61 60 53
50 49 48 47 46	Rapid identification of protein phosphatase 1-binding proteins by mixed peptide sequencing and data base searching. Characterization of a novel holoenzymic form of protein phosphatase 1. <i>Journal of Biological Chemistry</i> , 1998, 273, 24396-405 Cloning, expression, and characterization of a class-mu glutathione transferase from human muscle, the product of the GST4 locus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991, 88, 4443-7 MACIE: exploring the diversity of biochemical reactions. <i>Nucleic Acids Research</i> , 2012, 40, D783-9 Dynamic programming algorithms for biological sequence comparison. <i>Methods in Enzymology</i> , 1992, 210, 575-601 Empirical determination of effective gap penalties for sequence comparison. <i>Bioinformatics</i> , 2002, 18, 1500-7	5.4 11.5 20.1 1.7 7.2	61 61 60 53 50

42	Homologous over-extension: a challenge for iterative similarity searches. <i>Nucleic Acids Research</i> , 2010 , 38, 2177-89	20.1	41
41	A strategy for the rapid identification of phosphorylation sites in the phosphoproteome. <i>Molecular and Cellular Proteomics</i> , 2002 , 1, 314-22	7.6	41
40	Generalized neighbor-joining: more reliable phylogenetic tree reconstruction. <i>Molecular Biology and Evolution</i> , 1999 , 16, 806-16	8.3	41
39	Regulation of synthesis of amyloid A-related protein. <i>Annals of the New York Academy of Sciences</i> , 1982 , 389, 106-15	6.5	38
38	GOBLET: the Global Organisation for Bioinformatics Learning, Education and Training. <i>PLoS Computational Biology</i> , 2015 , 11, e1004143	5	37
37	The origin of nuclear receptor proteins: a single precursor distinct from other transcription factors. <i>Molecular Endocrinology</i> , 1992 , 6, 3-7		37
36	Computer programs for analysis of nucleic acid hybridization, thermal denaturation, and gel electrophoresis data. <i>Nucleic Acids Research</i> , 1979 , 6, 3911-21	20.1	36
35	Entamoeba histolytica: sequence conservation of the Gal/GalNAc lectin from clinical isolates. <i>Experimental Parasitology</i> , 2002 , 101, 157-63	2.1	34
34	Distinctive structure of the human GSTM3 gene-inverted orientation relative to the mu class glutathione transferase gene cluster. <i>Archives of Biochemistry and Biophysics</i> , 1999 , 361, 85-93	4.1	32
33	Stoichiometry of chromatin proteins. <i>Biochemical and Biophysical Research Communications</i> , 1974 , 58, 50-7	3.4	31
32	PSI-Search: iterative HOE-reduced profile SSEARCH searching. <i>Bioinformatics</i> , 2012 , 28, 1650-1	7.2	28
31	Globally, unrelated protein sequences appear random. <i>Bioinformatics</i> , 2010 , 26, 310-8	7.2	27
30	Exploring the relationship between sequence similarity and accurate phylogenetic trees. <i>Molecular Biology and Evolution</i> , 2006 , 23, 2090-100	8.3	27
29	Repeated DNA sequences near the 5@end of the silk fibroin gene. <i>Journal of Biological Chemistry</i> , 1981 , 256, 4033-41	5.4	26
28	Finding protein and nucleotide similarities with FASTA. <i>Current Protocols in Bioinformatics</i> , 2004 , Chapter 3, Unit3.9	24.2	25
27	Aligning a DNA sequence with a protein sequence. Journal of Computational Biology, 1997, 4, 339-49	1.7	23
26	On the primer selection problem in polymerase chain reaction experiments. <i>Discrete Applied Mathematics</i> , 1996 , 71, 231-246	1	23
25	Identification and characterization of GSTT3, a third murine Theta class glutathione transferase. <i>Biochemical Journal</i> , 2002 , 366, 323-32	3.8	22

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24	The structure of two murine class-mu glutathione transferase genes coordinately induced by butylated hydroxyanisole. <i>Archives of Biochemistry and Biophysics</i> , 1993 , 303, 383-93	4.1	22
23	Most partial domains in proteins are alignment and annotation artifacts. <i>Genome Biology</i> , 2015 , 16, 99	18.3	20
22	Long and short repeats of sea urchin DNA and their evolution. <i>Chromosoma</i> , 1981 , 84, 19-32	2.8	18
21	Applying, Evaluating and Refining Bioinformatics Core Competencies (An Update from the Curriculum Task Force of ISCB@ Education Committee). <i>PLoS Computational Biology</i> , 2016 , 12, e100494	.3 ⁵	15
20	Query-seeded iterative sequence similarity searching improves selectivity 5-20-fold. <i>Nucleic Acids Research</i> , 2017 , 45, e46	20.1	13
19	Gene structure, expression and chromosomal localization of murine Theta class glutathione transferase mGSTT1-1. <i>Biochemical Journal</i> , 1999 , 337, 141	3.8	13
18	RefProtDom: a protein database with improved domain boundaries and homology relationships. <i>Bioinformatics</i> , 2010 , 26, 2361-2	7.2	12
17	MIF proteins are not glutathione transferase homologs. <i>Protein Science</i> , 1994 , 3, 525-7	6.3	12
16	Sequence relationship between long and short repetitive DNA of the rat: a preliminary report. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1977 , 74, 4382-6	11.5	12
15	Identifying distantly related protein sequences. Current Opinion in Structural Biology, 1991, 1, 321-326	8.1	11
14	Adjusting scoring matrices to correct overextended alignments. <i>Bioinformatics</i> , 2013 , 29, 3007-13	7.2	10
13	CRP: Cleavage of Radiolabeled Phosphoproteins. <i>Nucleic Acids Research</i> , 2003 , 31, 3859-61	20.1	10
12	Improving pairwise sequence alignment accuracy using near-optimal protein sequence alignments. <i>BMC Bioinformatics</i> , 2010 , 11, 146	3.6	9
11	Primary structure of avian H+/K(+)-ATPase beta-subunit. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1994 , 1190, 189-92	3.8	9
10	No pain and gain! Experiences with Mentat on a biological application. <i>Concurrency and Computation: Practice and Experience</i> , 1993 , 5, 309-328		9
9	Visualization of near-optimal sequence alignments. <i>Bioinformatics</i> , 2004 , 20, 953-8	7.2	8
8	Differences in induction by xenobiotics in murine tissues and the Hepa1c1c7 cell line of mRNAs encoding glutathione transferase, quinone reductase, and CYP1A P450s. <i>Pharmacogenetics and Genomics</i> , 1993 , 3, 167-81		8
7	A platform for biological sequence comparison on parallel computers. <i>Bioinformatics</i> , 1991 , 7, 237-47	7.2	7

6	Discrete-length repeated sequences in eukaryotic genomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1981 , 78, 4016-20	11.5	6
5	Kinetic determination of the genome size of the pea. <i>Plant Physiology</i> , 1978 , 62, 112-5	6.6	6
4	A System for Visualizing and Analyzing Near-Optimal Protein Sequence Alignments. <i>Information Visualization</i> , 2005 , 4, 224-237	2.4	5
3	Classification of Adrenergic Receptor Subtypes: Molecular Biologic Approaches. <i>Methods</i> , 1994 , 4, 14-1	9	3
2	Comparing machine-independent versus machine-specific parallelization of a software platform for biological sequence comparison. <i>Bioinformatics</i> , 1992 , 8, 167-75	7.2	3
	biological sequence companison. <i>Bioinformatics</i> , 1992, 8, 187-73		