Laszlo Patthy

List of Publications by Year
in descending order

61 papers	4,027 citations	159573 30 h-index	128286 60 g-index
64 all docs	64 docs citations	64 times ranked	3137 citing authors

#	Article	IF	Citations
1	Evolution of the proteases of blood coagulation and fibrinolysis by assembly from modules. Cell, 1985, 41, 657-663.	28.9	518
2	Genome evolution and the evolution of exon-shuffling â€" a review. Gene, 1999, 238, 103-114.	2.2	388
3	Intron-dependent evolution: Preferred types of exons and introns. FEBS Letters, 1987, 214, 1-7.	2.8	303
4	Common evolutionary origin of the fibrin-binding structures of fibronectin and tissue-type plasminogen activator. FEBS Letters, 1983, 163, 37-41.	2.8	235
5	The implications of alternative splicing in the ENCODE protein complement. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 5495-5500.	7.1	206
6	Modular exchange principles in proteins. Current Opinion in Structural Biology, 1991, 1, 351-361.	5.7	177
7	Detecting homology of distantly related proteins with consensus sequences. Journal of Molecular Biology, 1987, 198, 567-577.	4.2	152
8	Modular Assembly of Genes and the Evolution of New Functions. Genetica, 2003, 118, 217-231.	1.1	148
9	A deletion in the myostatin gene causes the compact (Cmpt) hypermuscular mutation in mice. Mammalian Genome, 1998, 9, 671-671.	2.2	147
10	Modules, multidomain proteins and organismic complexity. FEBS Journal, 2005, 272, 5064-5078.	4.7	108
11	Exon shuffling and other ways of module exchange. Matrix Biology, 1996, 15, 301-310.	3.6	97
12	Introns and exons. Current Opinion in Structural Biology, 1994, 4, 383-392.	5.7	87
13	Refined solution structure and ligand-binding properties of PDC-109 domain b. Journal of Molecular Biology, 1992, 223, 281-298.	4.2	83
14	The LCCL module. FEBS Journal, 2000, 267, 5751-5757.	0.2	83
15	Identifying protein-coding genes in genomic sequences. Genome Biology, 2009, 10, 201.	9.6	82
16	Evidence for the involvement of type II domains in collagen binding by 72 kDa type IV procollagenase. FEBS Letters, 1991, 282, 23-25.	2.8	72
17	Exons - original building blocks of proteins?. BioEssays, 1991, 13, 187-192.	2.5	71
18	Modular assembly of genes and the evolution of new functions. Genetica, 2003, 118, 217-31.	1.1	71

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19	Both WFIKKN1 and WFIKKN2 Have High Affinity for Growth and Differentiation Factors 8 and 11. Journal of Biological Chemistry, 2008, 283, 23677-23684.	3.4	67
20	The collagen-binding site of type-II units of bovine seminal fluid protein PDC-109 and fibronectin. FEBS Journal, 1990, 193, 801-806.	0.2	56
21	Gelatin-binding Region of Human Matrix Metalloproteinase-2. Journal of Biological Chemistry, 2001, 276, 27613-27621.	3.4	56
22	Identification and correction of abnormal, incomplete and mispredicted proteins in public databases. BMC Bioinformatics, 2008, 9, 353.	2.6	55
23	The second type II module from human matrix metalloproteinase 2: structure, function and dynamics. Structure, 1999, 7, 1235-S2.	3.3	50
24	Sequence-specific proton NMR assignments and structural characterization of bovine seminal fluid protein PDC-109 domain b. Biochemistry, 1991, 30, 1663-1672.	2.5	42
25	NMR Structure of the WIF Domain of the Human Wnt-Inhibitory Factor-1. Journal of Molecular Biology, 2006, 357, 942-950.	4.2	42
26	Analysis and identification of aromatic signals in the proton magnetic resonance spectrum of the kringle 4 fragment from human plasminogen. Biochemistry, 1985, 24, 748-753.	2.5	41
27	WFIKKN1 and WFIKKN2 bind growth factors TGFÎ²1, BMP2 and BMP4 but do not inhibit their signalling activity. FEBS Journal, 2010, 277, 5040-5050.	4.7	39
28	Peptide Ligands for the Fibronectin Type II Modules of Matrix Metalloproteinase 2 (MMP-2). Journal of Biological Chemistry, 2003, 278, 12241-12246.	3.4	37
29	Distinct Expression Pattern of Two Related Human Proteins Containing Multiple Types of Protease-Inhibitory Modules. Biological Chemistry, 2002, 383, 223-8.	2.5	35
30	K153R polymorphism in myostatin gene increases the rate of promyostatin activation by furin. FEBS Letters, 2015, 589, 295-301.	2.8	34
31	Modular Autonomy, Ligand Specificity, and Functional Cooperativity of the Three In-tandem Fibronectin Type II Repeats from Human Matrix Metalloproteinase 2. Journal of Biological Chemistry, 2004, 279, 46921-46929.	3.4	30
32	Latent myostatin has significant activity and this activity is controlled more efficiently by WFIKKN 1 than by WFIKKN 2. FEBS Journal, 2013, 280, 3822-3839.	4.7	30
33	Chemical modification and nuclear magnetic resonance studies on human plasminogen kringle 4. Assignment of tyrosine and histidine resonances to specific residues in the sequence. FEBS Journal, 1985, 152, 439-446.	0.2	24
34	The aromatic 1H-NMR spectrum of plasminogen kringle 4. A comparative study of human, porcine and bovine homologs. FEBS Journal, 1986, 159, 581-595.	0.2	24
35	The Col-1 Module of Human Matrix Metalloproteinase-2 (MMP-2): Structural/Functional Relatedness between Gelatin-Binding Fibronectin Type II Modules and Lysine-Binding Kringle Domains. Biological Chemistry, 2002, 383, 137-48.	2.5	24
36	Origin of fibronectin type II (FN2) modules: Structural analyses of distantly-related members of the kringle family idey the kringle domain of neurotrypsin as a potential link between FN2 domains and kringles. Protein Science, 2001, 10, 2114-2122.	7.6	23

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37	Insertion of spliceosomal introns in proto-splice sites: the case of secretory signal peptides. FEBS Letters, 2004, 575, 109-111.	2.8	22
38	Expression, purification and characterization of the second Kunitz-type protease inhibitor domain of the human WFIKKN protein. FEBS Journal, 2003, 270, 2101-2107.	0.2	20
39	Reassessing Domain Architecture Evolution of Metazoan Proteins: Major Impact of Gene Prediction Errors. Genes, 2011, 2, 449-501.	2.4	20
40	Putative extremely high rate of proteome innovation in lancelets might be explained by high rate of gene prediction errors. Scientific Reports, 2016, 6, 30700.	3.3	20
41	Reassessing Domain Architecture Evolution of Metazoan Proteins: The Contribution of Different Evolutionary Mechanisms. Genes, 2011, 2, 578-598.	2.4	18
42	Both LCCL-domains of human CRISPLD2 have high affinity for lipid A. Biochimie, 2014, 97, 66-71.	2.6	18
43	Biological functions of the WAP domain-containing multidomain proteins WFIKKN1 and WFIKKN2. Biochemical Society Transactions, 2011, 39, 1416-1420.	3.4	17
44	Characterization of a Wntâ€binding site of the WIFâ€domain of Wnt inhibitory factorâ€1. FEBS Letters, 2012, 586, 3122-3126.	2.8	17
45	MisPred: a resource for identification of erroneous protein sequences in public databases. Database: the Journal of Biological Databases and Curation, 2013, 2013, bat053.	3.0	17
46	Analysis of the aliphatic 1H-NMR spectrum of plasminogen kringle 4. A comparative study of human, porcine, bovine and chicken homologs. FEBS Journal, 1988, 170, 549-563.	0.2	15
47	Wnts grasp the WIF domain of Wnt Inhibitory Factor 1 at two distinct binding sites. FEBS Letters, 2015, 589, 3044-3051.	2.8	15
48	Structure, function and disease relevance of Wnt inhibitory factor 1, a secreted protein controlling the Wnt and hedgehog pathways. Growth Factors, 2019, 37, 29-52.	1.7	15
49	Reassessing Domain Architecture Evolution of Metazoan Proteins: Major Impact of Errors Caused by Confusing Paralogs and Epaktologs. Genes, 2011, 2, 516-561.	2.4	12
50	Use of signals of positive and negative selection to distinguish cancer genes and passenger genes. ELife, 2021, 10, .	6.0	12
51	Exon skipping-rich transcriptomes of animals reflect the significance of exon-shuffling in metazoan proteome evolution. Biology Direct, 2019, 14, 2.	4.6	11
52	NMR Solution Structure of the Neurotrypsin Kringle Domain. Biochemistry, 2008, 47, 12290-12298.	2.5	10
53	FixPred: a resource for correction of erroneous protein sequences. Database: the Journal of Biological Databases and Curation, 2014, 2014, bau032.	3.0	9
54	Exon Shuffling Played a Decisive Role in the Evolution of the Genetic Toolkit for the Multicellular Body Plan of Metazoa. Genes, 2021, 12, 382.	2.4	6

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55	Wnt Inhibitory Factor 1 Binds to and Inhibits the Activity of Sonic Hedgehog. Cells, 2021, 10, 3496.	4.1	6
56	Morphological Stasis and Proteome Innovation in Cephalochordates. Genes, 2018, 9, 353.	2.4	3
57	Influence of <scp>WFIKKN</scp>1 on <scp>BMP</scp>1â€•mediated activation of latent myostatin. FEBS Journal, 2016, 283, 4515-4527.	4.7	2
58	Identification and Correction of Erroneous Protein Sequences in Public Databases. Methods in Molecular Biology, 2016, 1415, 179-192.	0.9	1
59	Fold class and evolutionary mobility of protein modules. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 22652-22652.	7.1	1
60	Use of Publication Dynamics to Distinguish Cancer Genes and Bystander Genes. Genes, 2022, 13, 1105.	2.4	1
61	Miguel LlinÃ¡s and the Structure of the Kringle Fold. Protein Journal, 2021, 40, 450-453.	1.6	0