## Olivier Lichtarge

List of Publications by Year in descending order

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61945 28275 12,312 160 43 105 citations h-index g-index papers 168 168 168 20119 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Comprehensive and Integrative Genomic Characterization of Hepatocellular Carcinoma. Cell, 2017, 169, 1327-1341.e23.	13.5	1,794
2	An Evolutionary Trace Method Defines Binding Surfaces Common to Protein Families. Journal of Molecular Biology, 1996, 257, 342-358.	2.0	1,169
3	A large-scale evaluation of computational protein function prediction. Nature Methods, 2013, 10, 221-227.	9.0	789
4	Identification of a candidate therapeutic autophagy-inducing peptide. Nature, 2013, 494, 201-206.	13.7	669
5	$\hat{l}^2$ -Arrestin-dependent, G Protein-independent ERK1/2 Activation by the $\hat{l}^2$ 2 Adrenergic Receptor. Journal of Biological Chemistry, 2006, 281, 1261-1273.	1.6	651
6	Pathogenic Germline Variants in 10,389 Adult Cancers. Cell, 2018, 173, 355-370.e14.	13.5	620
7	Rhodopsin activation blocked by metal-ion-binding sites linking transmembrane helices C and F. Nature, 1996, 383, 347-350.	13.7	429
8	Integrated Analysis of TP53 Gene and Pathway Alterations in The Cancer Genome Atlas. Cell Reports, 2019, 28, 1370-1384.e5.	2.9	382
9	Influence of mutation type and X chromosome inactivation on Rett syndrome phenotypes. Annals of Neurology, 2000, 47, 670-679.	2.8	314
10	The CAFA challenge reports improved protein function prediction and new functional annotations for hundreds of genes through experimental screens. Genome Biology, 2019, 20, 244.	3.8	261
11	Evolutionary predictions of binding surfaces and interactions. Current Opinion in Structural Biology, 2002, 12, 21-27.	2.6	256
12	Identity and Function of a Large Gene Network Underlying Mutagenic Repair of DNA Breaks. Science, 2012, 338, 1344-1348.	6.0	195
13	Structural clusters of evolutionary trace residues are statistically significant and common in proteins. Journal of Molecular Biology, 2002, 316, 139-154.	2.0	190
14	Evolutionary Trace of G Protein-coupled Receptors Reveals Clusters of Residues That Determine Global and Class-specific Functions. Journal of Biological Chemistry, 2004, 279, 8126-8132.	1.6	179
15	An Accurate, Sensitive, and Scalable Method to Identify Functional Sites in Protein Structures. Journal of Molecular Biology, 2003, 326, 255-261.	2.0	174
16	Evolutionary Action Score of <i>TP53</i> Identifies High-Risk Mutations Associated with Decreased Survival and Increased Distant Metastases in Head and Neck Cancer. Cancer Research, 2015, 75, 1527-1536.	0.4	139
17	Prediction and confirmation of a site critical for effector regulation of RGS domain activity. Nature Structural Biology, 2001, 8, 234-237.	9.7	125
18	A formal perturbation equation between genotype and phenotype determines the Evolutionary Action of protein-coding variations on fitness. Genome Research, 2014, 24, 2050-2058.	2.4	122

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19	Deleterious Effect of RAS and Evolutionary High-risk TP53 Double Mutation in Colorectal Liver Metastases. Annals of Surgery, 2019, 269, 917-923.	2.1	121
20	C5a Receptor Activation. Journal of Biological Chemistry, 1999, 274, 15757-15765.	1.6	120
21	Supergenomic Network Compression and the Discovery of EXP1 as a Glutathione Transferase Inhibited by Artesunate. Cell, 2014, 158, 916-928.	13.5	113
22	Identification of functional surfaces of the zinc binding domains of intracellular receptors. Journal of Molecular Biology, 1997, 274, 325-337.	2.0	107
23	A Mild PUM1 Mutation Is Associated with Adult-Onset Ataxia, whereas Haploinsufficiency Causes Developmental Delay and Seizures. Cell, 2018, 172, 924-936.e11.	13.5	103
24	Wee-1 Kinase Inhibition Overcomes Cisplatin Resistance Associated with High-Risk <i>TP53</i> Mutations in Head and Neck Cancer through Mitotic Arrest Followed by Senescence. Molecular Cancer Therapeutics, 2015, 14, 608-619.	1.9	97
25	Single nucleotide variations: Biological impact and theoretical interpretation. Protein Science, 2014, 23, 1650-1666.	3.1	94
26	Distinct faces of the Ku heterodimer mediate DNA repair and telomeric functions. Nature Structural and Molecular Biology, 2007, 14, 301-307.	3.6	88
27	Evolution-guided discovery and recoding of allosteric pathway specificity determinants in psychoactive bioamine receptors. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 7787-7792.	3.3	86
28	Automated hypothesis generation based on mining scientific literature. , 2014, , .		82
29	Evolutionary Action Score of <i>TP53</i> Coding Variants Is Predictive of Platinum Response in Head and Neck Cancer Patients. Cancer Research, 2015, 75, 1205-1215.	0.4	78
30	Elucidation of G-protein and $\hat{l}^2$ -arrestin functional selectivity at the dopamine D2 receptor. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7097-7102.	3.3	75
31	Functional Rescue of β <sub>1</sub> â€Adrenoceptor Dimerization and Trafficking by Pharmacological Chaperones. Traffic, 2009, 10, 1019-1033.	1.3	71
32	Separation of Recombination and SOS Response in Escherichia coli RecA Suggests LexA Interaction Sites. PLoS Genetics, 2011, 7, e1002244.	1.5	71
33	Prediction of enzyme function based on 3D templates of evolutionarily important amino acids. BMC Bioinformatics, 2008, 9, 17.	1.2	70
34	Molecular defects in human carbamoy phosphate synthetase I: mutational spectrum, diagnostic and protein structure considerations. Human Mutation, 2011, 32, 579-589.	1.1	67
35	ET viewer: an application for predicting and visualizing functional sites in protein structures. Bioinformatics, 2006, 22, 2049-2050.	1.8	62
36	Evolutionary action and structural basis of the allosteric switch controlling $\hat{I}^2$ 2AR functional selectivity. Nature Communications, 2017, 8, 2169.	5.8	61

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37	Evolution of neural precursor selection: functional divergence of proneural proteins. Development (Cambridge), 2004, 131, 1679-1689.	1.2	59
38	Evolutionary Trace for Prediction and Redesign of Protein Functional Sites. Methods in Molecular Biology, 2012, 819, 29-42.	0.4	59
39	Graph sharpening plus graph integration: a synergy that improves protein functional classification. Bioinformatics, 2007, 23, 3217-3224.	1.8	57
40	Genetic Mapping of the Human C5a Receptor. Journal of Biological Chemistry, 2000, 275, 35393-35401.	1.6	55
41	Essential Helix Interactions in the Anion Transporter Domain of Prestin Revealed by Evolutionary Trace Analysis. Journal of Neuroscience, 2006, 26, 12727-12734.	1.7	52
42	Desmosterolosisâ€"phenotypic and molecular characterization of a third case and review of the literature. American Journal of Medical Genetics, Part A, 2011, 155, 1597-1604.	0.7	52
43	Role for the Regulator of G-Protein Signaling Homology Domain of G Protein-Coupled Receptor Kinases 5 and 6 in $\hat{I}^2$ 2-Adrenergic Receptor and Rhodopsin Phosphorylation. Molecular Pharmacology, 2010, 77, 405-415.	1.0	47
44	Combinatorial inhibition of PTPN12-regulated receptors leads to a broadly effective therapeutic strategy in triple-negative breast cancer. Nature Medicine, 2018, 24, 505-511.	15.2	47
45	PyETV: a PyMOL evolutionary trace viewer to analyze functional site predictions in protein complexes. Bioinformatics, 2010, 26, 2981-2982.	1.8	46
46	Type 2 diabetes $\hat{a} \in \hat{a}$ associated variants of the MT $\langle a \rangle 2 <  a \rangle \rangle$ melatonin receptor affect distinct modes of signaling. Science Signaling, 2018, 11, .	1.6	45
47	Uncovering DNA-PKcs ancient phylogeny, unique sequence motifs and insights for human disease. Progress in Biophysics and Molecular Biology, 2021, 163, 87-108.	1.4	45
48	Protein function prediction: towards integration of similarity metrics. Current Opinion in Structural Biology, 2011, 21, 180-188.	2.6	42
49	Comprehensive Genomic Characterization of Parathyroid Cancer Identifies Novel Candidate Driver Mutations and Core Pathways. Journal of the Endocrine Society, 2019, 3, 544-559.	0.1	40
50	Targeting SARS-CoV-2 Nsp3 macrodomain structure with insights from human poly(ADP-ribose) glycohydrolase (PARG) structures with inhibitors. Progress in Biophysics and Molecular Biology, 2021, 163, 171-186.	1.4	39
51	Accurate and scalable identification of functional sites by evolutionary tracing. Journal of Structural and Functional Genomics, 2003, 4, 159-166.	1.2	38
52	Evolutionary Trace Annotation of Protein Function in the Structural Proteome. Journal of Molecular Biology, 2010, 396, 1451-1473.	2.0	38
53	Intramolecular allosteric communication in dopamine D2 receptor revealed by evolutionary amino acid covariation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3539-3544.	3.3	38
54	Prediction and experimental validation of enzyme substrate specificity in protein structures.  Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E4195-202.	3.3	37

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55	Specific TP53 Mutants Overrepresented in Ovarian Cancer Impact CNV, TP53 Activity, Responses to Nutlin-3a, and Cell Survival. Neoplasia, 2015, 17, 789-803.	2.3	37
56	Predicting phenotype from genotype: Improving accuracy through more robust experimental and computational modeling. Human Mutation, 2017, 38, 569-580.	1.1	36
57	Evolutionary Traces of Functional Surfaces along G Protein Signaling Pathway. Methods in Enzymology, 2002, 344, 536-556.	0.4	35
58	Evolution: a guide to perturb protein function and networks. Current Opinion in Structural Biology, 2010, 20, 351-359.	2.6	35
59	Literature-based automated discovery of tumor suppressor p53 phosphorylation and inhibition by NEK2. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 10666-10671.	3.3	33
60	Differential Effects of Collagen Prolyl 3-Hydroxylation on Skeletal Tissues. PLoS Genetics, 2014, 10, e1004121.	1.5	31
61	UET: a database of evolutionarily-predicted functional determinants of protein sequences that cluster as functional sites in protein structures. Nucleic Acids Research, 2016, 44, D308-D312.	6.5	31
62	Exploring use of unsupervised clustering to associate signaling profiles of GPCR ligands to clinical response. Nature Communications, 2019, 10, 4075.	5.8	31
63	Recurrent use of evolutionary importance for functional annotation of proteins based on local structural similarity. Protein Science, 2006, 15, 1530-1536.	3.1	30
64	Rapid detection of similarity in protein structure and function through contact metric distances. Nucleic Acids Research, 2006, 34, e152-e152.	6.5	30
65	Mutational Landscape of the BAP1 Locus Reveals an Intrinsic Control to Regulate the miRNA Network and the Binding of Protein Complexes in Uveal Melanoma. Cancers, 2019, 11, 1600.	1.7	30
66	Evolutionary Trace-based Peptides Identify a Novel Asymmetric Interaction That Mediates Oligomerization in Nuclear Receptors. Journal of Biological Chemistry, 2005, 280, 31818-31829.	1.6	28
67	Character and evolution of protein–protein interfaces. Physical Biology, 2005, 2, S36-S43.	0.8	28
68	Evolutionary Trace Annotation Server: automated enzyme function prediction in protein structures using 3D templates. Bioinformatics, 2009, 25, 1426-1427.	1.8	28
69	The use of evolutionary patterns in protein annotation. Current Opinion in Structural Biology, 2012, 22, 316-325.	2.6	28
70	Protein stabilization improves STAT3 function in autosomal dominant hyper-lgE syndrome. Blood, 2016, 128, 3061-3072.	0.6	28
71	FARS2 deficiency; new cases, review of clinical, biochemical, and molecular spectra, and variants interpretation based on structural, functional, and evolutionary significance. Molecular Genetics and Metabolism, 2018, 125, 281-291.	0.5	28
72	Cdkn2asuppresses metastasis in squamous cell carcinomas induced by the gain-of-function mutantp53R172H. Journal of Pathology, 2016, 240, 224-234.	2.1	27

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73	Objective assessment of the evolutionary action equation for the fitness effect of missense mutations across CAGlâ€blinded contests. Human Mutation, 2017, 38, 1072-1084.	1.1	26
74	CAGI5: Objective performance assessments of predictions based on the Evolutionary Action equation. Human Mutation, 2019, 40, 1436-1454.	1.1	26
75	Genome interpretation using in silico predictors of variant impact. Human Genetics, 2022, 141, 1549-1577.	1.8	26
76	Prediction and redesign of protein–protein interactions. Progress in Biophysics and Molecular Biology, 2014, 116, 194-202.	1.4	25
77	Computational and Biochemical Identification of a Nuclear Pore Complex Binding Site on the Nuclear Transport Carrier NTF2. Journal of Molecular Biology, 2004, 344, 303-310.	2.0	23
78	Correlated Evolutionary Pressure at Interacting Transcription Factors and DNA Response Elements Can Guide the Rational Engineering of DNA Binding Specificity. Journal of Molecular Biology, 2005, 350, 402-415.	2.0	23
79	Regulation of Ras Localization and Cell Transformation by Evolutionarily Conserved Palmitoyltransferases. Molecular and Cellular Biology, 2014, 34, 374-385.	1.1	23
80	Gnathodiaphyseal dysplasia: Severe atypical presentation with novel heterozygous mutation of the anoctamin gene (ANO5). Bone, 2018, 107, 161-171.	1.4	23
81	Accounting for epistatic interactions improves the functional analysis of protein structures. Bioinformatics, 2013, 29, 2714-2721.	1.8	22
82	Predicting Future Scientific Discoveries Based on a Networked Analysis of the Past Literature. , 2015, , .		22
83	De-Orphaning the Structural Proteome through Reciprocal Comparison of Evolutionarily Important Structural Features. PLoS ONE, 2008, 3, e2136.	1.1	21
84	Negative Feedback in Genetic Circuits Confers Evolutionary Resilience and Capacitance. Cell Reports, 2014, 7, 1789-1795.	2.9	20
85	Determinants of Endogenous Ligand Specificity Divergence among Metabotropic Glutamate Receptors. Journal of Biological Chemistry, 2015, 290, 2870-2878.	1.6	20
86	Lysine 270 in the Third Intracellular Domain of the Oxytocin Receptor is an Important Determinant for Gî±qCoupling Specificity. Molecular Endocrinology, 2002, 16, 814-823.	3.7	19
87	Assessment of blind predictions of the clinical significance of <i>BRCA1</i> and <i>BRCA2</i> variants. Human Mutation, 2019, 40, 1546-1556.	1.1	19
88	A method to delineate de novo missense variants across pathways prioritizes genes linked to autism. Science Translational Medicine, 2021, 13, .	5.8	19
89	Evolutionary identification of a subtype specific functional site in the ligand binding domain of steroid receptors. Proteins: Structure, Function and Bioinformatics, 2006, 64, 1046-1057.	1.5	18
90	Rank information: A structure-independent measure of evolutionary trace quality that improves identification of protein functional sites. Proteins: Structure, Function and Bioinformatics, 2006, 65, 111-123.	1.5	17

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91	The Maternal-to-Zygotic Transition Targets Actin to Promote Robustness during Morphogenesis. PLoS Genetics, 2013, 9, e1003901.	1.5	17
92	Benchmarking predictions of allostery in liver pyruvate kinase in CAGI4. Human Mutation, 2017, 38, 1123-1131.	1.1	17
93	Protein Kinase A and Phosphodiesterase-4D3 Binding to Coding Polymorphisms of Cardiac Muscle Anchoring Protein (mAKAP). Journal of Molecular Biology, 2013, 425, 3277-3288.	2.0	16
94	Evaluating the predictions of the protein stability change upon single amino acid substitutions for the FXN CAGI5 challenge. Human Mutation, 2019, 40, 1392-1399.	1.1	16
95	Assessment of methods for predicting the effects of PTEN and TPMT protein variants. Human Mutation, 2019, 40, 1495-1506.	1.1	16
96	Accurate Protein Structure Annotation through Competitive Diffusion of Enzymatic Functions over a Network of Local Evolutionary Similarities. PLoS ONE, 2010, 5, e14286.	1.1	16
97	Role of Transmembrane Domain/Transmembrane Domain Interfaces of PGlycoprotein (ABCB1) in Solute Transport. Convergent Information from Photoaffinity Labeling, Site Directed Mutagenesis and in Silico Importance Prediction. Current Medicinal Chemistry, 2006, 13, 793-805.	1.2	14
98	Selectivity and Evolutionary Divergence of Metabotropic Glutamate Receptors for Endogenous Ligands and G Proteins Coupled to Phospholipase C or TRP Channels. Journal of Biological Chemistry, 2014, 289, 29961-29974.	1.6	14
99	Multimodal network diffusion predicts future disease–gene–chemical associations. Bioinformatics, 2019, 35, 1536-1543.	1.8	14
100	Harnessing the paradoxical phenotypes of APOE $\cancel{6}$ , 2 and APOE $\cancel{6}$ , 4 to identify genetic modifiers in Alzheimer's disease. Alzheimer's and Dementia, 2021, 17, 831-846.	0.4	14
101	Performance of in silico tools for the evaluation of p16INK4a (CDKN2A) variants in CAGI. Human Mutation, 2017, 38, 1042-1050.	1.1	13
102	REPURPOSING GERMLINE EXOMES OF THE CANCER GENOME ATLAS DEMANDS A CAUTIOUS APPROACH AND SAMPLE-SPECIFIC VARIANT FILTERING. Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing, 2016, 21, 207-18.	0.7	13
103	ETAscape: analyzing protein networks to predict enzymatic function and substrates in Cytoscape. Bioinformatics, 2012, 28, 2186-2188.	1.8	12
104	Using interpretable deep learning to model cancer dependencies. Bioinformatics, 2021, 37, 2675-2681.	1.8	12
105	Influence of mutation type and X chromosome inactivation on Rett syndrome phenotypes. Annals of Neurology, 2000, 47, 670-679.	2.8	12
106	Untangling complex networks: Risk minimization in financial markets through accessible spin glass ground states. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 3250-3253.	1.2	11
107	Assessment of patient clinical descriptions and pathogenic variants from gene panel sequences in the CAGIâ€5 intellectual disability challenge. Human Mutation, 2019, 40, 1330-1345.	1.1	11
108	Evolutionary action of mutations reveals antimicrobial resistance genes in Escherichia coli. Nature Communications, 2022, 13, .	5.8	11

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109	Getting past appearances: the many-fold consequences of remote homology. , 2001, 8, 918-920.		10
110	Human muscle-specific A-kinase anchoring protein polymorphisms modulate the susceptibility to cardiovascular diseases by altering cAMP/PKA signaling. American Journal of Physiology - Heart and Circulatory Physiology, 2018, 315, H109-H121.	1.5	10
111	CAGI SickKids challenges: Assessment of phenotype and variant predictions derived from clinical and genomic data of children with undiagnosed diseases. Human Mutation, 2019, 40, 1373-1391.	1.1	10
112	Assessment of predicted enzymatic activity of α― <i>N</i> â€acetylglucosaminidase variants of unknown significance for CAGI 2016. Human Mutation, 2019, 40, 1519-1529.	1.1	10
113	Predicting venous thromboembolism risk from exomes in the Critical Assessment of Genome Interpretation (CAGI) challenges. Human Mutation, 2019, 40, 1314-1320.	1.1	10
114	Variants in PRKAR1B cause a neurodevelopmental disorder with autism spectrum disorder, apraxia, and insensitivity to pain. Genetics in Medicine, 2021, 23, 1465-1473.	1.1	10
115	REPURPOSING GERMLINE EXOMES OF THE CANCER GENOME ATLAS DEMANDS A CAUTIOUS APPROACH AND SAMPLE-SPECIFIC VARIANT FILTERING. , 2016, , .		10
116	A statistical model to correct systematic bias introduced by algorithmic thresholds in protein structural comparison algorithms. , 2008, , .		9
117	Function prediction from networks of local evolutionary similarity in protein structure. BMC Bioinformatics, 2013, 14, S6.	1.2	9
118	Cooperativity of Negative Autoregulation Confers Increased Mutational Robustness. Physical Review Letters, 2016, 116, 258104.	2.9	9
119	Identification of Functionally Important Residues/Domains in Membrane Proteins Using an Evolutionary Approach Coupled with Systematic Mutational Analysis. Methods in Molecular Biology, 2009, 493, 287-297.	0.4	9
120	CRISPR-FRT targets shared sites in a knock-out collection for off-the-shelf genome editing. Nature Communications, 2018, 9, 2231.	5.8	8
121	Assessing predictions on fitness effects of missense variants in calmodulin. Human Mutation, 2019, 40, 1463-1473.	1.1	8
122	Performance of computational methods for the evaluation of pericentriolar material 1 missense variants in CAGIâ€5. Human Mutation, 2019, 40, 1474-1485.	1.1	8
123	Assessing the performance of in silico methods for predicting the pathogenicity of variants in the gene CHEK2, among Hispanic females with breast cancer. Human Mutation, 2019, 40, 1612-1622.	1.1	8
124	Recurrent high-impact mutations at cognate structural positions in class A G protein-coupled receptors expressed in tumors. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	8
125	An Angiotensin II type 1 receptor activation switch patch revealed through Evolutionary Trace analysis. Biochemical Pharmacology, 2010, 80, 86-94.	2.0	7
126	DISCOVERY OF FUNCTIONAL AND DISEASE PATHWAYS BY COMMUNITY DETECTION IN PROTEIN-PROTEIN INTERACTION NETWORKS. , 2017, 22, 336-347.		7

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127	EPIMUTESTR: a nearest neighbor machine learning approach to predict cancer driver genes from the evolutionary action of coding variants. Nucleic Acids Research, 2022, 50, e70-e70.	6.5	7
128	A general calculus of fitness landscapes finds genes under selection in cancers. Genome Research, 2022, , gr.275811.121.	2.4	7
129	Potential role of Plasmodium falciparum exported protein 1 in the chloroquine mode of action. International Journal for Parasitology: Drugs and Drug Resistance, 2018, 8, 31-35.	1.4	6
130	Structure and evolutionary trace-assisted screening of a residue swapping the substrate ambiguity and chiral specificity in an esterase. Computational and Structural Biotechnology Journal, 2021, 19, 2307-2317.	1.9	6
131	Identification of evolutionarily stable functional and immunogenic sites across the SARS-CoV-2 proteome and greater coronavirus family. Bioinformatics, 2021, 37, 4033-4040.	1.8	6
132	Assessing computational predictions of the phenotypic effect of cystathionineâ€betaâ€synthase variants. Human Mutation, 2019, 40, 1530-1545.	1.1	5
133	Evolutionary action score identifies a subset of TP53 mutated myelodysplastic syndrome with favorable prognosis. Blood Cancer Journal, $2021,11,52.$	2.8	5
134	COMPOSITE MOTIFS INTEGRATING MULTIPLE PROTEIN STRUCTURES INCREASE SENSITIVITY FOR FUNCTION PREDICTION. , 2007, , .		5
135	Codon-level co-occurrences of germline variants and somatic mutations in cancer are rare but often lead to incorrect variant annotation and underestimated impact prediction. PLoS ONE, 2017, 12, e0174766.	1.1	4
136	Discovery of disease- and drug-specific pathways through community structures of a literature network. Bioinformatics, 2020, 36, 1881-1888.	1.8	4
137	Identification of Key Regions Mediating Human Melatonin Type 1 Receptor Functional Selectivity Revealed by Natural Variants. ACS Pharmacology and Translational Science, 2021, 4, 1614-1627.	2.5	4
138	Graph-based information diffusion method for prioritizing functionally related genes in protein-protein interaction networks. , 2019, , .		4
139	An efficient chemical screening method for structure-based inhibitors to nucleic acid enzymes targeting the DNA repair-replication interface and SARS CoV-2. Methods in Enzymology, 2021, 661, 407-431.	0.4	4
140	Decoding Cancer Variants of Unknown Significance for Helicase–Nuclease–RPA Complexes Orchestrating DNA Repair During Transcription and Replication. Frontiers in Molecular Biosciences, 2021, 8, 791792.	1.6	4
141	Residues and residue pairs of evolutionary importance differentially direct signaling bias of D2 dopamine receptors. Journal of Biological Chemistry, 2019, 294, 19279-19291.	1.6	3
142	Graph-based information diffusion method for prioritizing functionally related genes in protein-protein interaction networks. Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing, 2020, 25, 439-450.	0.7	3
143	An Evolutionary Trace method defines functionally important bases and sites common to RNA families. PLoS Computational Biology, 2020, 16, e1007583.	1.5	2
144	PPAR-Responsive Elements Enriched with Alu Repeats May Contribute to Distinctive PPARγ–DNMT1 Interactions in the Genome. Cancers, 2021, 13, 3993.	1.7	2

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145	COMPUTING THERAPY FOR PRECISION MEDICINE: COLLABORATIVE FILTERING INTEGRATES AND PREDICTS MULTI-ENTITY INTERACTIONS. Pacific Symposium on Biocomputing, 2016, 21, 21-32.	0.7	2
146	An efficient chemical screening method for structure-based inhibitors to nucleic acid enzymes targeting the DNA repair-replication interface and SARS CoV-2. Methods in Enzymology, 2021, 661, 407-431.	0.4	2
147	Structural Elements Directing G Proteins and $\hat{l}^2$ -Arrestin Interactions with the Human Melatonin Type 2 Receptor Revealed by Natural Variants. ACS Pharmacology and Translational Science, 2022, 5, 89-101.	2.5	2
148	HUMAN KINASES DISPLAY MUTATIONAL HOTSPOTS AT COGNATE POSITIONS WITHIN CANCER. , 2017, 22, 414-425.		1
149	COMPUTING THERAPY FOR PRECISION MEDICINE: COLLABORATIVE FILTERING INTEGRATES AND PREDICTS MULTI-ENTITY INTERACTIONS. , 2016, , .		1
150	Incidence of PI3K pathway aberrations and their impact on response to neoadjuvant chemotherapy (NACT) in triple-negative breast cancer (TNBC) subtypes Journal of Clinical Oncology, 2018, 36, 588-588.	0.8	1
151	Abstract 24010: Muscle-specific A-Kinase Anchoring Protein Polymorphisms Pre-dispose Humans to Cardiovascular Diseases by Affecting cyclic AMP/PKA Signaling. Circulation, 2017, 136, .	1.6	1
152	Evolutionary Action Score of TP53 Analysis in Pathologically High-Risk Human Papillomavirus-Negative Head and Neck Cancer From a Phase 2 Clinical Trial: NRG Oncology Radiation Therapy Oncology Group 0234. Advances in Radiation Oncology, 2022, 7, 100989.	0.6	1
153	Evolutionary Trace of Protein Functional Determinants. , 2010, , 119-146.		O
154	Computational Approaches to Studying Molecular Phylogenetics. , 2018, , 173-190.		0
155	P4â€493: IDENTIFYING GENETIC MODIFIERS OF APOE VIA IMPUTATION OF DEVIATION IN EVOLUTIONARY ACTION LOAD IN ALZHEIMER'S DISEASE. Alzheimer's and Dementia, 2019, 15, P1502.	0.4	0
156	Integration of largeâ€scale molecular networks and exomic data can identify Alzheimer's disease genes. Alzheimer's and Dementia, 2020, 16, e041965.	0.4	0
157	Identifying genetic modifiers of APOE in Alzheimer's disease using evolutionary information and regression analyses. Alzheimer's and Dementia, 2020, 16, e043497.	0.4	O
158	AN EVOLUTIONARY PERSPECTIVE ON THE DETERMINANTS OF PROTEIN FUNCTION AND ASSEMBLY. , 2004, , .		0
159	Network Analytics: Evolutionary Compression, Diffusion and the Action Equation for Mutations. FASEB Journal, 2016, 30, 255.1.	0.2	O
160	Evolutionary Action Score Identifies a Subset of TP53 Mutated Myelodysplastic Syndrome with Favorable Prognosis. Blood, 2020, 136, 4-5.	0.6	0