Alfonso Valencia

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85 180 361 34,543 h-index g-index citations papers 6.89 40,280 10.3 393 L-index avg, IF ext. papers ext. citations

#	Paper	IF	Citations
361	Identification and analysis of functional elements in 1% of the human genome by the ENCODE pilot project. <i>Nature</i> , 2007 , 447, 799-816	50.4	4121
360	GENCODE: the reference human genome annotation for The ENCODE Project. <i>Genome Research</i> , 2012 , 22, 1760-74	9.7	3142
359	International network of cancer genome projects. <i>Nature</i> , 2010 , 464, 993-8	50.4	1613
358	Whole-genome sequencing identifies recurrent mutations in chronic lymphocytic leukaemia. <i>Nature</i> , 2011 , 475, 101-5	50.4	1206
357	Exome sequencing identifies recurrent mutations of the splicing factor SF3B1 gene in chronic lymphocytic leukemia. <i>Nature Genetics</i> , 2011 , 44, 47-52	36.3	752
356	IntAct: an open source molecular interaction database. <i>Nucleic Acids Research</i> , 2004 , 32, D452-5	20.1	670
355	Correlated mutations and residue contacts in proteins. <i>Proteins: Structure, Function and Bioinformatics</i> , 1994 , 18, 309-17	4.2	662
354	The Allelic Landscape of Human Blood Cell Trait Variation and Links to Common Complex Disease. <i>Cell</i> , 2016 , 167, 1415-1429.e19	56.2	637
353	Non-coding recurrent mutations in chronic lymphocytic leukaemia. <i>Nature</i> , 2015 , 526, 519-24	50.4	565
352	Distinct DNA methylomes of newborns and centenarians. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 10522-7	11.5	563
351	The ras protein family: evolutionary tree and role of conserved amino acids. <i>Biochemistry</i> , 1991 , 30, 463	37 ₃ . <u>4</u> 8	517
350	A hierarchical unsupervised growing neural network for clustering gene expression patterns. <i>Bioinformatics</i> , 2001 , 17, 126-36	7.2	465
349	Correlated mutations contain information about protein-protein interaction. <i>Journal of Molecular Biology</i> , 1997 , 271, 511-23	6.5	443
348	Epigenomic analysis detects widespread gene-body DNA hypomethylation in chronic lymphocytic leukemia. <i>Nature Genetics</i> , 2012 , 44, 1236-42	36.3	422
347	Emerging methods in protein co-evolution. <i>Nature Reviews Genetics</i> , 2013 , 14, 249-61	30.1	415
346	Reductive genome evolution in Buchnera aphidicola. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 581-6	11.5	404
345	Multiple evidence strands suggest that there may be as few as 19,000 human protein-coding genes. <i>Human Molecular Genetics</i> , 2014 , 23, 5866-78	5.6	385

344	A gene network for navigating the literature. <i>Nature Genetics</i> , 2004 , 36, 664	36.3	373
343	Genetic Drivers of Epigenetic and Transcriptional Variation in Human Immune Cells. <i>Cell</i> , 2016 , 167, 139	8 - 6.414	4. ę 3g4
342	Similarity of phylogenetic trees as indicator of protein-protein interaction. <i>Protein Engineering, Design and Selection</i> , 2001 , 14, 609-14	1.9	337
341	A method to predict functional residues in proteins. <i>Nature Structural and Molecular Biology</i> , 1995 , 2, 171-8	17.6	329
340	Convergent evolution of similar enzymatic function on different protein folds: the hexokinase, ribokinase, and galactokinase families of sugar kinases. <i>Protein Science</i> , 1993 , 2, 31-40	6.3	307
339	Computational methods for the prediction of protein interactions. <i>Current Opinion in Structural Biology</i> , 2002 , 12, 368-73	8.1	274
338	Practical limits of function prediction. <i>Proteins: Structure, Function and Bioinformatics</i> , 2000 , 41, 98-107	4.2	266
337	BLUEPRINT to decode the epigenetic signature written in blood. <i>Nature Biotechnology</i> , 2012 , 30, 224-6	44.5	261
336	The Ras protein superfamily: evolutionary tree and role of conserved amino acids. <i>Journal of Cell Biology</i> , 2012 , 196, 189-201	7.3	247
335	Pathway and network analysis of cancer genomes. <i>Nature Methods</i> , 2015 , 12, 615-621	21.6	235
334	The International Human Epigenome Consortium: A Blueprint for Scientific Collaboration and Discovery. <i>Cell</i> , 2016 , 167, 1145-1149	56.2	232
333	An expanded evaluation of protein function prediction methods shows an improvement in accuracy. <i>Genome Biology</i> , 2016 , 17, 184	18.3	218
332	In silico two-hybrid system for the selection of physically interacting protein pairs. <i>Proteins: Structure, Function and Bioinformatics</i> , 2002 , 47, 219-27	4.2	214
331	Whole-genome fingerprint of the DNA methylome during human B cell differentiation. <i>Nature Genetics</i> , 2015 , 47, 746-56	36.3	209
330	EnrichNet: network-based gene set enrichment analysis. <i>Bioinformatics</i> , 2012 , 28, i451-i457	7.2	204
329	Prediction of proteinprotein interaction sites in heterocomplexes with neural networks. <i>FEBS Journal</i> , 2002 , 269, 1356-61		191
328	Recurrent inactivation of STAG2 in bladder cancer is not associated with aneuploidy. <i>Nature Genetics</i> , 2013 , 45, 1464-9	36.3	186
327	Alternative Splicing May Not Be the Key to Proteome Complexity. <i>Trends in Biochemical Sciences</i> , 2017 , 42, 98-110	10.3	180

326	Automatic methods for predicting functionally important residues. <i>Journal of Molecular Biology</i> , 2003 , 326, 1289-302	6.5	179
325	The implications of alternative splicing in the ENCODE protein complement. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 5495-500	11.5	177
324	MARVEL: a conserved domain involved in membrane apposition events. <i>Trends in Biochemical Sciences</i> , 2002 , 27, 599-601	10.3	170
323	Identification of amino acid residues crucial for chemokine receptor dimerization. <i>Nature Immunology</i> , 2004 , 5, 216-23	19.1	166
322	Improving contact predictions by the combination of correlated mutations and other sources of sequence information. <i>Folding & Design</i> , 1997 , 2, S25-32		161
321	Overview of the protein-protein interaction annotation extraction task of BioCreative II. <i>Genome Biology</i> , 2008 , 9 Suppl 2, S4	18.3	157
320	POLE and POLD1 mutations in 529 kindred with familial colorectal cancer and/or polyposis: review of reported cases and recommendations for genetic testing and surveillance. <i>Genetics in Medicine</i> , 2016 , 18, 325-32	8.1	153
319	Text-mining and information-retrieval services for molecular biology. <i>Genome Biology</i> , 2005 , 6, 224	18.3	151
318	Filamin-A regulates actin-dependent clustering of HIV receptors. <i>Nature Cell Biology</i> , 2007 , 9, 838-46	23.4	146
317	Transcriptome characterization by RNA sequencing identifies a major molecular and clinical subdivision in chronic lymphocytic leukemia. <i>Genome Research</i> , 2014 , 24, 212-26	9.7	143
316	Effective use of sequence correlation and conservation in fold recognition. <i>Journal of Molecular Biology</i> , 1999 , 293, 1221-39	6.5	142
315	High-confidence prediction of global interactomes based on genome-wide coevolutionary networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 934-9	11.5	138
314	Implementing the iHOP concept for navigation of biomedical literature. <i>Bioinformatics</i> , 2005 , 21 Suppl 2, ii252-8	7.2	137
313	Conserved clusters of functionally related genes in two bacterial genomes. <i>Journal of Molecular Evolution</i> , 1997 , 44, 66-73	3.1	136
312	Prediction of contact maps with neural networks and correlated mutations. <i>Protein Engineering, Design and Selection</i> , 2001 , 14, 835-43	1.9	133
311	Protein co-evolution, co-adaptation and interactions. <i>EMBO Journal</i> , 2008 , 27, 2648-55	13	132
310	Linking genes to literature: text mining, information extraction, and retrieval applications for biology. <i>Genome Biology</i> , 2008 , 9 Suppl 2, S8	18.3	131
309	EVA: Evaluation of protein structure prediction servers. <i>Nucleic Acids Research</i> , 2003 , 31, 3311-5	20.1	131

308	Computational approaches to identify functional genetic variants in cancer genomes. <i>Nature Methods</i> , 2013 , 10, 723-9	21.6	129
307	APPRIS: annotation of principal and alternative splice isoforms. <i>Nucleic Acids Research</i> , 2013 , 41, D110-7	7 20.1	128
306	Evaluation of text-mining systems for biology: overview of the Second BioCreative community challenge. <i>Genome Biology</i> , 2008 , 9 Suppl 2, S1	18.3	127
305	Eukaryotic translation elongation factor 1 gamma contains a glutathione transferase domainstudy of a diverse, ancient protein superfamily using motif search and structural modeling. <i>Protein Science</i> , 1994 , 3, 2045-54	6.3	127
304	Information Retrieval and Text Mining Technologies for Chemistry. <i>Chemical Reviews</i> , 2017 , 117, 7673-7	77681 1	124
303	CHEMDNER: The drugs and chemical names extraction challenge. <i>Journal of Cheminformatics</i> , 2015 , 7, S1	8.6	120
302	Integrated next-generation sequencing and avatar mouse models for personalized cancer treatment. <i>Clinical Cancer Research</i> , 2014 , 20, 2476-84	12.9	118
301	Molecular evidence for the inverse comorbidity between central nervous system disorders and cancers detected by transcriptomic meta-analyses. <i>PLoS Genetics</i> , 2014 , 10, e1004173	6	116
300	Progress and challenges in predicting protein-protein interaction sites. <i>Briefings in Bioinformatics</i> , 2009 , 10, 233-46	13.4	116
299	Inverse and direct cancer comorbidity in people with central nervous system disorders: a meta-analysis of cancer incidence in 577,013 participants of 50 observational studies. <i>Psychotherapy and Psychosomatics</i> , 2014 , 83, 89-105	9.4	113
298	A conserved loop in the ATPase domain of the DnaK chaperone is essential for stable binding of GrpE. <i>Nature Structural and Molecular Biology</i> , 1994 , 1, 95-101	17.6	109
297	Protein interactions and ligand binding: from protein subfamilies to functional specificity. Proceedings of the National Academy of Sciences of the United States of America, 2010 , 107, 1995-2000	11.5	108
296	Text mining for the biocuration workflow. <i>Database: the Journal of Biological Databases and Curation</i> , 2012 , 2012, bas020	5	108
295	The Protein-Protein Interaction tasks of BioCreative III: classification/ranking of articles and linking bio-ontology concepts to full text. <i>BMC Bioinformatics</i> , 2011 , 12 Suppl 8, S3	3.6	104
294	No paradox, no progress: inverse cancer comorbidity in people with other complex diseases. <i>Lancet Oncology, The</i> , 2011 , 12, 604-8	21.7	103
293	Chimeras taking shape: potential functions of proteins encoded by chimeric RNA transcripts. <i>Genome Research</i> , 2012 , 22, 1231-42	9.7	101
292	Text-mining approaches in molecular biology and biomedicine. <i>Drug Discovery Today</i> , 2005 , 10, 439-45	8.8	101
291	BioC: a minimalist approach to interoperability for biomedical text processing. <i>Database: the Journal of Biological Databases and Curation</i> , 2013 , 2013, bat064	5	100

2 90	Mosaic uniparental disomies and aneuploidies as large structural variants of the human genome. <i>American Journal of Human Genetics</i> , 2010 , 87, 129-38	11	100
289	The CHEMDNER corpus of chemicals and drugs and its annotation principles. <i>Journal of Cheminformatics</i> , 2015 , 7, S2	8.6	98
288	iHOP web services. <i>Nucleic Acids Research</i> , 2007 , 35, W21-6	20.1	96
287	Automatic annotation of protein function. Current Opinion in Structural Biology, 2005, 15, 267-74	8.1	96
286	Assessment of predictions submitted for the CASP6 comparative modeling category. <i>Proteins: Structure, Function and Bioinformatics</i> , 2005 , 61 Suppl 7, 27-45	4.2	95
285	CAFASP2: the second critical assessment of fully automated structure prediction methods. <i>Proteins: Structure, Function and Bioinformatics</i> , 2001 , Suppl 5, 171-83	4.2	93
284	Bringing gene order into bacterial shape. <i>Trends in Genetics</i> , 2001 , 17, 124-6	8.5	90
283	Analyzing the first drafts of the human proteome. <i>Journal of Proteome Research</i> , 2014 , 13, 3854-5	5.6	88
282	Towards the prediction of protein interaction partners using physical docking. <i>Molecular Systems Biology</i> , 2011 , 7, 469	12.2	88
281	From residue coevolution to protein conformational ensembles and functional dynamics. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13567-72	11.5	87
280	The pseudo GTPase CENP-M drives human kinetochore assembly. <i>ELife</i> , 2014 , 3, e02978	8.9	86
279	Sex and gender differences and biases in artificial intelligence for biomedicine and healthcare. <i>Npj Digital Medicine</i> , 2020 , 3, 81	15.7	85
278	Extreme genomic erosion after recurrent demographic bottlenecks in the highly endangered Iberian lynx. <i>Genome Biology</i> , 2016 , 17, 251	18.3	85
277	firestarprediction of functionally important residues using structural templates and alignment reliability. <i>Nucleic Acids Research</i> , 2007 , 35, W573-7	20.1	83
276	Evaluation of BioCreAtIvE assessment of task 2. BMC Bioinformatics, 2005, 6 Suppl 1, S16	3.6	82
275	The small GTP-binding protein, Rhes, regulates signal transduction from G protein-coupled receptors. <i>Oncogene</i> , 2004 , 23, 559-68	9.2	81
274	Towards a detailed atlas of protein-protein interactions. <i>Current Opinion in Structural Biology</i> , 2013 , 23, 929-40	8.1	80
273	Most highly expressed protein-coding genes have a single dominant isoform. <i>Journal of Proteome Research</i> , 2015 , 14, 1880-7	5.6	78

272	Progress in predicting inter-residue contacts of proteins with neural networks and correlated mutations. <i>Proteins: Structure, Function and Bioinformatics</i> , 2001 , Suppl 5, 157-62	4.2	78
271	Overview of the BioCreative III Workshop. <i>BMC Bioinformatics</i> , 2011 , 12 Suppl 8, S1	3.6	77
270	A new ATP-binding fold in actin, hexokinase and Hsc70. <i>Trends in Cell Biology</i> , 1993 , 3, 53-9	18.3	76
269	Germline Mutations in FAN1 Cause Hereditary Colorectal Cancer by Impairing DNA Repair. <i>Gastroenterology</i> , 2015 , 149, 563-6	13.3	75
268	An Overview of BioCreative II.5. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2010 , 7, 385-99	3	74
267	Three-dimensional view of the surface motif associated with the P-loop structure: cis and trans cases of convergent evolution. <i>Journal of Molecular Biology</i> , 2000 , 303, 455-65	6.5	73
266	CASP6 assessment of contact prediction. <i>Proteins: Structure, Function and Bioinformatics</i> , 2005 , 61 Suppl 7, 214-24	4.2	72
265	COVID-19 Disease Map, building a computational repository of SARS-CoV-2 virus-host interaction mechanisms. <i>Scientific Data</i> , 2020 , 7, 136	8.2	71
264	The BLUEPRINT Data Analysis Portal. <i>Cell Systems</i> , 2016 , 3, 491-495.e5	10.6	71
263	Genome-wide analysis of differential transcriptional and epigenetic variability across human immune cell types. <i>Genome Biology</i> , 2017 , 18, 18	18.3	70
262	APPRIS 2017: principal isoforms for multiple gene sets. <i>Nucleic Acids Research</i> , 2018 , 46, D213-D217	20.1	70
261	A la carte transcriptional regulators: unlocking responses of the prokaryotic enhancer-binding protein XylR to non-natural effectors. <i>Molecular Microbiology</i> , 2001 , 42, 47-59	4.1	70
260	Big data analytics for personalized medicine. Current Opinion in Biotechnology, 2019, 58, 161-167	11.4	69
259	Effector recognition by the small GTP-binding proteins Ras and Ral. <i>Journal of Biological Chemistry</i> , 1999 , 274, 17763-70	5.4	66
258	Assessment of intramolecular contact predictions for CASP7. <i>Proteins: Structure, Function and Bioinformatics</i> , 2007 , 69 Suppl 8, 152-8	4.2	65
257	NOTCH pathway inactivation promotes bladder cancer progression. <i>Journal of Clinical Investigation</i> , 2015 , 125, 824-30	15.9	64
256	Comparative proteomics reveals a significant bias toward alternative protein isoforms with conserved structure and function. <i>Molecular Biology and Evolution</i> , 2012 , 29, 2265-83	8.3	64
255	How does the switch II region of G-domains work?. <i>FEBS Letters</i> , 1993 , 320, 1-6	3.8	64

254	Information extraction in molecular biology. <i>Briefings in Bioinformatics</i> , 2002 , 3, 154-65	13.4	61
253	Analysis of biological processes and diseases using text mining approaches. <i>Methods in Molecular Biology</i> , 2010 , 593, 341-82	1.4	61
252	The UBC-40 Urothelial Bladder Cancer cell line index: a genomic resource for functional studies. <i>BMC Genomics</i> , 2015 , 16, 403	4.5	59
251	Text mining for biologythe way forward: opinions from leading scientists. <i>Genome Biology</i> , 2008 , 9 Suppl 2, S7	18.3	59
250	Identification of conserved amino acid residues in rat liver carnitine palmitoyltransferase I critical for malonyl-CoA inhibition. Mutation of methionine 593 abolishes malonyl-CoA inhibition. <i>Journal of Biological Chemistry</i> , 2003 , 278, 9058-63	5.4	58
249	Evaluation of annotation strategies using an entire genome sequence. <i>Bioinformatics</i> , 2003 , 19, 717-26	7.2	58
248	The organization of the microbial biodegradation network from a systems-biology perspective. <i>EMBO Reports</i> , 2003 , 4, 994-9	6.5	56
247	Towards FAIR principles for research software. <i>Data Science</i> , 2020 , 3, 37-59	2.2	56
246	Phylogeny-independent detection of functional residues. <i>Bioinformatics</i> , 2006 , 22, 1440-8	7.2	55
245	Proteomics studies confirm the presence of alternative protein isoforms on a large scale. <i>Genome Biology</i> , 2008 , 9, R162	18.3	54
244	Dynamics of Transcription Regulation in Human Bone Marrow Myeloid Differentiation to Mature Blood Neutrophils. <i>Cell Reports</i> , 2018 , 24, 2784-2794	10.6	54
243	Text Mining for Drugs and Chemical Compounds: Methods, Tools and Applications. <i>Molecular Informatics</i> , 2011 , 30, 506-19	3.8	53
242	MetaRouter: bioinformatics for bioremediation. <i>Nucleic Acids Research</i> , 2005 , 33, D588-92	20.1	52
241	Life cycles of successful genes. <i>Trends in Genetics</i> , 2003 , 19, 79-81	8.5	52
240	Predicting reliable regions in protein alignments from sequence profiles. <i>Journal of Molecular Biology</i> , 2003 , 330, 705-18	6.5	52
239	Mining functional information associated with expression arrays. <i>Functional and Integrative Genomics</i> , 2001 , 1, 256-68	3.8	52
238	Comparison of algorithms for the detection of cancer drivers at subgene resolution. <i>Nature Methods</i> , 2017 , 14, 782-788	21.6	51
237	Evidence for transcript networks composed of chimeric RNAs in human cells. <i>PLoS ONE</i> , 2012 , 7, e28213	33.7	51

(2013-1998)

236	Structural model for family 32 of glycosyl-hydrolase enzymes. <i>Proteins: Structure, Function and Bioinformatics</i> , 1998 , 33, 383-95	4.2	51	
235	Text mining for metabolic pathways, signaling cascades, and protein networks. <i>Science Signaling</i> , 2005 , 2005, pe21	8.8	51	
234	Clustering of proximal sequence space for the identification of protein families. <i>Bioinformatics</i> , 2002 , 18, 908-21	7.2	50	
233	Model of the ran-RCC1 interaction using biochemical and docking experiments. <i>Journal of Molecular Biology</i> , 1999 , 289, 1119-30	6.5	50	
232	Defining functional distances over gene ontology. <i>BMC Bioinformatics</i> , 2008 , 9, 50	3.6	49	
231	Introducing meta-services for biomedical information extraction. <i>Genome Biology</i> , 2008 , 9 Suppl 2, S6	18.3	49	
230	Assessment of predictions submitted for the CASP7 function prediction category. <i>Proteins:</i> Structure, Function and Bioinformatics, 2007 , 69 Suppl 8, 165-74	4.2	49	
229	TopoGSA: network topological gene set analysis. <i>Bioinformatics</i> , 2010 , 26, 1271-2	7.2	48	
228	Sequence-based feature prediction and annotation of proteins. <i>Genome Biology</i> , 2009 , 10, 206	18.3	48	
227	Alternatively Spliced Homologous Exons Have Ancient Origins and Are Highly Expressed at the Protein Level. <i>PLoS Computational Biology</i> , 2015 , 11, e1004325	5	47	
226	MidA is a putative methyltransferase that is required for mitochondrial complex I function. <i>Journal of Cell Science</i> , 2010 , 123, 1674-83	5.3	47	
225	Systemic approaches to biodegradation. <i>FEMS Microbiology Reviews</i> , 2009 , 33, 98-108	15.1	47	
224	Most Alternative Isoforms Are Not Functionally Important. <i>Trends in Biochemical Sciences</i> , 2017 , 42, 408	3- 4 11.9	46	
223	A molecular hypothesis to explain direct and inverse co-morbidities between Alzheimer's Disease, Glioblastoma and Lung cancer. <i>Scientific Reports</i> , 2017 , 7, 4474	4.9	45	
222	Distribution and functional diversification of the ras superfamily in Saccharomyces cerevisiae. <i>FEBS Letters</i> , 1998 , 434, 219-25	3.8	45	
221	Bioinformatics methods for the analysis of expression arrays: data clustering and information extraction. <i>Journal of Biotechnology</i> , 2002 , 98, 269-83	3.7	44	
220	Identifying ELIXIR Core Data Resources. <i>F1000Research</i> , 2016 , 5,	3.6	44	
219	Subfunctionalization via adaptive evolution influenced by genomic context: the case of histone chaperones ASF1a and ASF1b. <i>Molecular Biology and Evolution</i> , 2013 , 30, 1853-66	8.3	42	

218	Automated alphabet reduction for protein datasets. BMC Bioinformatics, 2009, 10, 6	3.6	41
217	firestaradvances in the prediction of functionally important residues. <i>Nucleic Acids Research</i> , 2011 , 39, W235-41	20.1	41
216	Epigenetic and Transcriptional Variability Shape Phenotypic Plasticity. <i>BioEssays</i> , 2018 , 40, 1700148	4.1	40
215	Classification of protein families and detection of the determinant residues with an improved self-organizing map. <i>Biological Cybernetics</i> , 1997 , 76, 441-50	2.8	40
214	ChiTaRS: a database of human, mouse and fruit fly chimeric transcripts and RNA-sequencing data. <i>Nucleic Acids Research</i> , 2013 , 41, D142-51	20.1	39
213	Automatic annotation of protein function based on family identification. <i>Proteins: Structure, Function and Bioinformatics</i> , 2003 , 53, 683-92	4.2	39
212	Structural model of the catalytic core of carnitine palmitoyltransferase I and carnitine octanoyltransferase (COT): mutation of CPT I histidine 473 and alanine 381 and COT alanine 238 impairs the catalytic activity. <i>Journal of Biological Chemistry</i> , 2001 , 276, 45001-8	5.4	39
211	Pathway and network analysis of more than 2500 whole cancer genomes. <i>Nature Communications</i> , 2020 , 11, 729	17.4	38
210	Long-range epigenetic silencing associates with deregulation of Ikaros targets in colorectal cancer cells. <i>Molecular Cancer Research</i> , 2011 , 9, 1139-51	6.6	38
209	The environmental fate of organic pollutants through the global microbial metabolism. <i>Molecular Systems Biology</i> , 2007 , 3, 114	12.2	38
208	Legacy data sharing to improve drug safety assessment: the eTOX project. <i>Nature Reviews Drug Discovery</i> , 2017 , 16, 811-812	64.1	37
207	A text-mining perspective on the requirements for electronically annotated abstracts. <i>FEBS Letters</i> , 2008 , 582, 1178-81	3.8	37
206	Scoring docking models with evolutionary information. <i>Proteins: Structure, Function and Bioinformatics</i> , 2005 , 60, 275-80	4.2	37
205	Can bibliographic pointers for known biological data be found automatically? Protein interactions as a case study. <i>Comparative and Functional Genomics</i> , 2001 , 2, 196-206		37
204	Leveraging European infrastructures to access 1 million human genomes by 2022. <i>Nature Reviews Genetics</i> , 2019 , 20, 693-701	30.1	36
203	Integration of biological data by kernels on graph nodes allows prediction of new genes involved in mitotic chromosome condensation. <i>Molecular Biology of the Cell</i> , 2014 , 25, 2522-36	3.5	36
202	Bionemo: molecular information on biodegradation metabolism. <i>Nucleic Acids Research</i> , 2009 , 37, D598-	-6021	36
201	Co-evolution and co-adaptation in protein networks. <i>FEBS Letters</i> , 2008 , 582, 1225-30	3.8	36

	200	PanDrugs: a novel method to prioritize anticancer drug treatments according to individual genomic data. <i>Genome Medicine</i> , 2018 , 10, 41	14.4	35	
	199	RUbioSeq: a suite of parallelized pipelines to automate exome variation and bisulfite-seq analyses. <i>Bioinformatics</i> , 2013 , 29, 1687-9	7.2	35	
	198	Phage-display and correlated mutations identify an essential region of subdomain 1C involved in homodimerization of Escherichia coli FtsA. <i>Proteins: Structure, Function and Bioinformatics</i> , 2003 , 50, 192-206	4.2	35	
	197	Structural model of carnitine palmitoyltransferase I based on the carnitine acetyltransferase crystal. <i>Biochemical Journal</i> , 2004 , 379, 777-84	3.8	35	
;	196	CD8 T Cells from Human Neonates Are Biased toward an Innate Immune Response. <i>Cell Reports</i> , 2016 , 17, 2151-2160	10.6	34	
	195	MyMiner: a web application for computer-assisted biocuration and text annotation. <i>Bioinformatics</i> , 2012 , 28, 2285-7	7.2	34	
	194	Extending pathways and processes using molecular interaction networks to analyse cancer genome data. <i>BMC Bioinformatics</i> , 2010 , 11, 597	3.6	34	
	193	Genome sequences and great expectations. <i>Genome Biology</i> , 2001 , 2, INTERACTIONS0001	18.3	34	
•	192	The FEBS Letters/BioCreative II.5 experiment: making biological information accessible. <i>Nature Biotechnology</i> , 2010 , 28, 897-9	44.5	33	
:	191	The success (or not) of HUGO nomenclature. <i>Genome Biology</i> , 2006 , 7, 402	18.3	33	
	190	Pitfalls of protein sequence analysis. <i>Current Opinion in Biotechnology</i> , 1996 , 7, 457-61	11.4	33	
	189	Novel domain combinations in proteins encoded by chimeric transcripts. <i>Bioinformatics</i> , 2012 , 28, i67-74	1 7.2	32	
_	188	Structural model of a malonyl-CoA-binding site of carnitine octanoyltransferase and carnitine palmitoyltransferase I: mutational analysis of a malonyl-CoA affinity domain. <i>Journal of Biological Chemistry</i> , 2002 , 277, 11473-80	5.4	32	
	187	Structure-PPi: a module for the annotation of cancer-related single-nucleotide variants at			
	186	protein-protein interfaces. <i>Bioinformatics</i> , 2015 , 31, 2397-9	7.2	31	
			7.2 4.5	31	
	185	protein-protein interfaces. <i>Bioinformatics</i> , 2015 , 31, 2397-9 Genome-wide analysis of Pax8 binding provides new insights into thyroid functions. <i>BMC Genomics</i> ,	4.5		
		Genome-wide analysis of Pax8 binding provides new insights into thyroid functions. <i>BMC Genomics</i> , 2012 , 13, 147	4.5	31	
	185	Genome-wide analysis of Pax8 binding provides new insights into thyroid functions. <i>BMC Genomics</i> , 2012 , 13, 147 Intronic CNVs and gene expression variation in human populations. <i>PLoS Genetics</i> , 2019 , 15, e1007902 Epigenomic Co-localization and Co-evolution Reveal a Key Role for 5hmC as a Communication Hub	4.5	31	

182	Extraction of human kinase mutations from literature, databases and genotyping studies. <i>BMC Bioinformatics</i> , 2009 , 10 Suppl 8, S1	3.6	30
181	Novelties from the complete genome of Mycoplasma genitalium. <i>Molecular Microbiology</i> , 1996 , 20, 898	-94010	30
180	Higher gene expression variability in the more aggressive subtype of chronic lymphocytic leukemia. <i>Genome Medicine</i> , 2015 , 7, 8	14.4	29
179	From cancer genomes to cancer models: bridging the gaps. <i>EMBO Reports</i> , 2009 , 10, 359-66	6.5	29
178	Analysis of the cellular functions of Escherichia coli operons and their conservation in Bacillus subtilis. <i>Journal of Molecular Evolution</i> , 2002 , 55, 211-21	3.1	29
177	Predicted residue-residue contacts can help the scoring of 3D models. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010 , 78, 1980-91	4.2	28
176	Mutated genes, pathways and processes in tumours. <i>EMBO Reports</i> , 2010 , 11, 805-10	6.5	27
175	SPOC: a widely distributed domain associated with cancer, apoptosis and transcription. <i>BMC Bioinformatics</i> , 2004 , 5, 91	3.6	27
174	Integrating epigenomic data and 3D genomic structure with a new measure of chromatin assortativity. <i>Genome Biology</i> , 2016 , 17, 152	18.3	26
173	Alternative splicing and co-option of transposable elements: the case of TMPO/LAP2land ZNF451 in mammals. <i>Bioinformatics</i> , 2015 , 31, 2257-61	7.2	26
172	EcID. A database for the inference of functional interactions in E. coli. <i>Nucleic Acids Research</i> , 2009 , 37, D629-35	20.1	26
171	Modular organization in the reductive evolution of protein-protein interaction networks. <i>Genome Biology</i> , 2007 , 8, R94	18.3	26
170	Conservation of coevolving protein interfaces bridges prokaryote-eukaryote homologies in the twilight zone. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 15018-15023	11.5	26
169	Association Between Germline Mutations in BRF1, a Subunit of the RNA Polymerase III Transcription Complex, and Hereditary Colorectal Cancer. <i>Gastroenterology</i> , 2018 , 154, 181-194.e20	13.3	25
168	Cancer-associated mutations are preferentially distributed in protein kinase functional sites. <i>Proteins: Structure, Function and Bioinformatics</i> , 2009 , 77, 892-903	4.2	25
167	How to link ontologies and protein-protein interactions to literature: text-mining approaches and the BioCreative experience. <i>Database: the Journal of Biological Databases and Curation</i> , 2012 , 2012, base	0517	25
166	CAFASP3 in the spotlight of EVA. Proteins: Structure, Function and Bioinformatics, 2003, 53 Suppl 6, 548-	6 μ 2	25
165	Domain definition and target classification for CASP6. <i>Proteins: Structure, Function and Bioinformatics</i> , 2005 , 61 Suppl 7, 8-18	4.2	25

164	Computational comparisons of model genomes. <i>Trends in Biotechnology</i> , 1996 , 14, 280-5	15.1	25
163	Precision medicine needs pioneering clinical bioinformaticians. <i>Briefings in Bioinformatics</i> , 2019 , 20, 75	2-76.4	25
162	LimTox: a web tool for applied text mining of adverse event and toxicity associations of compounds, drugs and genes. <i>Nucleic Acids Research</i> , 2017 , 45, W484-W489	20.1	24
161	ChiPPI: a novel method for mapping chimeric protein-protein interactions uncovers selection principles of protein fusion events in cancer. <i>Nucleic Acids Research</i> , 2017 , 45, 7094-7105	20.1	24
160	The potential clinical impact of the release of two drafts of the human proteome. <i>Expert Review of Proteomics</i> , 2015 , 12, 579-93	4.2	23
159	PLAN2L: a web tool for integrated text mining and literature-based bioentity relation extraction. <i>Nucleic Acids Research</i> , 2009 , 37, W160-5	20.1	23
158	TreeDet: a web server to explore sequence space. <i>Nucleic Acids Research</i> , 2006 , 34, W110-5	20.1	23
157	The evolutionary fate of alternatively spliced homologous exons after gene duplication. <i>Genome Biology and Evolution</i> , 2015 , 7, 1392-403	3.9	22
156	ChiTaRS 2.1an improved database of the chimeric transcripts and RNA-seq data with novel sense-antisense chimeric RNA transcripts. <i>Nucleic Acids Research</i> , 2015 , 43, D68-75	20.1	22
155	Getting personalized cancer genome analysis into the clinic: the challenges in bioinformatics. <i>Genome Medicine</i> , 2012 , 4, 61	14.4	22
154	Death inducer obliterator protein 1 in the context of DNA regulation. Sequence analyses of distant homologues point to a novel functional role. <i>FEBS Journal</i> , 2005 , 272, 3505-11	5.7	22
153	Molecular analysis of HIV-1 gp120 antibody response using isotype IgM and IgG phage display libraries from a long-term non-progressor HIV-1-infected individual. <i>European Journal of Immunology</i> , 1999 , 29, 2666-75	6.1	22
152	Alzheimer's disease and cancer: current epidemiological evidence for a mutual protection. <i>Neuroepidemiology</i> , 2014 , 42, 121-2	5.4	21
151	Prioritization of pathogenic mutations in the protein kinase superfamily. <i>BMC Genomics</i> , 2012 , 13 Suppl 4, S3	4.5	21
150	TSEMA: interactive prediction of protein pairings between interacting families. <i>Nucleic Acids Research</i> , 2006 , 34, W315-9	20.1	21
149	Protein interaction: same network, different hubs. <i>Trends in Genetics</i> , 2003 , 19, 681-3	8.5	21
148	Shaping of Drosophila alcohol dehydrogenase through evolution: relationship with enzyme functionality. <i>Journal of Molecular Evolution</i> , 1998 , 47, 211-21	3.1	20

146	The bio.tools registry of software tools and data resources for the life sciences. <i>Genome Biology</i> , 2019 , 20, 164	18.3	19
145	A structural biology community assessment of AlphaFold 2 applications		19
144	Elucidating the molecular basis of MSH2-deficient tumors by combined germline and somatic analysis. <i>International Journal of Cancer</i> , 2017 , 141, 1365-1380	7.5	18
143	Predicting functional residues in Plasmodium falciparum plasmepsins by combining sequence and structural analysis with molecular dynamics simulations. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008 , 73, 440-57	4.2	18
142	EVAcon: a protein contact prediction evaluation service. <i>Nucleic Acids Research</i> , 2005 , 33, W347-51	20.1	18
141	SQUAREdetermining reliable regions in sequence alignments. <i>Bioinformatics</i> , 2004 , 20, 974-5	7.2	18
140	Threading structural model of the manganese-stabilizing protein PsbO reveals presence of two possible beta-sandwich domains. <i>Proteins: Structure, Function and Bioinformatics</i> , 2001 , 45, 372-81	4.2	18
139	Detection of significant protein coevolution. <i>Bioinformatics</i> , 2015 , 31, 2166-73	7.2	17
138	Translational disease interpretation with molecular networks. <i>Genome Biology</i> , 2009 , 10, 221	18.3	17
137	Prediction of protein interaction based on similarity of phylogenetic trees. <i>Methods in Molecular Biology</i> , 2008 , 484, 523-35	1.4	17
136	Search and retrieve. Large-scale data generation is becoming increasingly important in biological research. But how good are the tools to make sense of the data?. <i>EMBO Reports</i> , 2002 , 3, 396-400	6.5	17
135	JDet: interactive calculation and visualization of function-related conservation patterns in multiple sequence alignments and structures. <i>Bioinformatics</i> , 2012 , 28, 584-6	7.2	16
134	Genomes with distinct function composition. FEBS Letters, 1996, 389, 96-101	3.8	16
133	Chromatin Regulators as a Guide for Cancer Treatment Choice. <i>Molecular Cancer Therapeutics</i> , 2016 , 15, 1768-77	6.1	15
132	APPRIS WebServer and WebServices. <i>Nucleic Acids Research</i> , 2015 , 43, W455-9	20.1	15
131	Enhancing the prediction of protein pairings between interacting families using orthology information. <i>BMC Bioinformatics</i> , 2008 , 9, 35	3.6	15
130	An analysis of the Sargasso Sea resource and the consequences for database composition. <i>BMC Bioinformatics</i> , 2006 , 7, 213	3.6	15
129	DNA sequencing and analysis of 130 kb from yeast chromosome XV. <i>Yeast</i> , 1997 , 13, 655-72	3.4	14

128	Bioinformatics in the human interactome project. <i>Bioinformatics</i> , 2006 , 22, 2973-4	7.2	14
127	CARGO: a web portal to integrate customized biological information. <i>Nucleic Acids Research</i> , 2007 , 35, W16-20	20.1	14
126	Structural (betaalpha)8 TIM barrel model of 3-hydroxy-3-methylglutaryl-coenzyme A lyase. <i>Journal of Biological Chemistry</i> , 2003 , 278, 29016-23	5.4	14
125	Cancer and central nervous system disorders: protocol for an umbrella review of systematic reviews and updated meta-analyses of observational studies. <i>Systematic Reviews</i> , 2017 , 6, 69	3	13
124	Transcriptomic metaanalyses of autistic brains reveals shared gene expression and biological pathway abnormalities with cancer. <i>Molecular Autism</i> , 2019 , 10, 17	6.5	13
123	CheNER: chemical named entity recognizer. <i>Bioinformatics</i> , 2014 , 30, 1039-40	7.2	13
122	Selection of organisms for the co-evolution-based study of protein interactions. <i>BMC Bioinformatics</i> , 2011 , 12, 363	3.6	13
121	Creating reference datasets for systems biology applications using text mining. <i>Annals of the New York Academy of Sciences</i> , 2009 , 1158, 14-28	6.5	13
120	A sentence sliding window approach to extract protein annotations from biomedical articles. <i>BMC Bioinformatics</i> , 2005 , 6 Suppl 1, S19	3.6	13
119	Extracting information automatically from biological literature. <i>Comparative and Functional Genomics</i> , 2001 , 2, 310-3		13
118	Prediction of the structure of GroES and its interaction with GroEL. <i>Proteins: Structure, Function and Bioinformatics</i> , 1995 , 22, 199-209	4.2	13
117	Chapter 14: Cancer genome analysis. <i>PLoS Computational Biology</i> , 2012 , 8, e1002824	5	12
116	Bioinformatics and cancer research: building bridges for translational research. <i>Clinical and Translational Oncology</i> , 2008 , 10, 85-95	3.6	12
115	Lessons Learned: Recommendations for Establishing Critical Periodic Scientific Benchmarking		12
114	Simulating SARS-CoV-2 epidemics by region-specific variables and modeling contact tracing app containment. <i>Npj Digital Medicine</i> , 2021 , 4, 9	15.7	12
113	Uncovering the molecular machinery of the human spindlean integration of wet and dry systems biology. <i>PLoS ONE</i> , 2012 , 7, e31813	3.7	11
112	ELIXIR-EXCELERATE: establishing Europe's data infrastructure for the life science research of the future. <i>EMBO Journal</i> , 2021 , 40, e107409	13	11
111	Automatic identification of informative regions with epigenomic changes associated to hematopoiesis. <i>Nucleic Acids Research</i> , 2017 , 45, 9244-9259	20.1	10

110	The Functional Genomics Network in the evolution of biological text mining over the past decade. <i>New Biotechnology</i> , 2013 , 30, 278-85	6.4	10
109	Characterization of pathogenic germline mutations in human protein kinases. <i>BMC Bioinformatics</i> , 2011 , 12 Suppl 4, S1	3.6	10
108	Sequence analysis of the Methanococcus jannaschii genome and the prediction of protein function. <i>Bioinformatics</i> , 1997 , 13, 481-3	7.2	10
107	Automatic ontology construction from the literature. <i>Genome Informatics</i> , 2002 , 13, 201-13		10
106	The single tryptophan of the PsbQ protein of photosystem II is at the end of a 4-alpha-helical bundle domain. <i>FEBS Journal</i> , 2003 , 270, 3916-27		9
105	A framework for computational and experimental methods: identifying dimerization residues in CCR chemokine receptors. <i>Bioinformatics</i> , 2005 , 21 Suppl 2, ii13-8	7.2	9
104	The structural coverage of the human proteome before and after AlphaFold <i>PLoS Computational Biology</i> , 2022 , 18, e1009818	5	9
103	ISCB's Initial Reaction to The New England Journal of Medicine Editorial on Data Sharing. <i>PLoS Computational Biology</i> , 2016 , 12, e1004816	5	9
102	COVID19 Disease Map, a computational knowledge repository of virus-host interaction mechanisms. <i>Molecular Systems Biology</i> , 2021 , 17, e10387	12.2	9
101	FUN-L: gene prioritization for RNAi screens. <i>Bioinformatics</i> , 2015 , 31, 2052-3	7.2	8
101	FUN-L: gene prioritization for RNAi screens. <i>Bioinformatics</i> , 2015 , 31, 2052-3 Risk of mortality among children, adolescents, and adults with autism spectrum disorder or attention deficit hyperactivity disorder and their first-degree relatives: a protocol for a systematic review and meta-analysis of observational studies. <i>Systematic Reviews</i> , 2017 , 6, 189	7.2	8
	Risk of mortality among children, adolescents, and adults with autism spectrum disorder or attention deficit hyperactivity disorder and their first-degree relatives: a protocol for a systematic		
100	Risk of mortality among children, adolescents, and adults with autism spectrum disorder or attention deficit hyperactivity disorder and their first-degree relatives: a protocol for a systematic review and meta-analysis of observational studies. <i>Systematic Reviews</i> , 2017 , 6, 189 The Markyt visualisation, prediction and benchmark platform for chemical and gene entity recognition at BioCreative/CHEMDNER challenge. <i>Database: the Journal of Biological Databases and</i>	3	8
100	Risk of mortality among children, adolescents, and adults with autism spectrum disorder or attention deficit hyperactivity disorder and their first-degree relatives: a protocol for a systematic review and meta-analysis of observational studies. <i>Systematic Reviews</i> , 2017 , 6, 189 The Markyt visualisation, prediction and benchmark platform for chemical and gene entity recognition at BioCreative/CHEMDNER challenge. <i>Database: the Journal of Biological Databases and Curation</i> , 2016 , 2016, Colorectal cancer classification based on gene expression is not associated with FOLFIRI response.	3	8
100 99 98	Risk of mortality among children, adolescents, and adults with autism spectrum disorder or attention deficit hyperactivity disorder and their first-degree relatives: a protocol for a systematic review and meta-analysis of observational studies. <i>Systematic Reviews</i> , 2017 , 6, 189 The Markyt visualisation, prediction and benchmark platform for chemical and gene entity recognition at BioCreative/CHEMDNER challenge. <i>Database: the Journal of Biological Databases and Curation</i> , 2016 , 2016, Colorectal cancer classification based on gene expression is not associated with FOLFIRI response. <i>Nature Medicine</i> , 2014 , 20, 1230-1	3 5 50.5	8 8
100999897	Risk of mortality among children, adolescents, and adults with autism spectrum disorder or attention deficit hyperactivity disorder and their first-degree relatives: a protocol for a systematic review and meta-analysis of observational studies. <i>Systematic Reviews</i> , 2017 , 6, 189 The Markyt visualisation, prediction and benchmark platform for chemical and gene entity recognition at BioCreative/CHEMDNER challenge. <i>Database: the Journal of Biological Databases and Curation</i> , 2016 , 2016, Colorectal cancer classification based on gene expression is not associated with FOLFIRI response. <i>Nature Medicine</i> , 2014 , 20, 1230-1 An epistatic interaction between the PAX8 and STK17B genes in papillary thyroid cancer susceptibility. <i>PLoS ONE</i> , 2013 , 8, e74765 Inference of functional relations in predicted protein networks with a machine learning approach.	3 5 50.5 3.7	8 8 8
10099989796	Risk of mortality among children, adolescents, and adults with autism spectrum disorder or attention deficit hyperactivity disorder and their first-degree relatives: a protocol for a systematic review and meta-analysis of observational studies. <i>Systematic Reviews</i> , 2017 , 6, 189 The Markyt visualisation, prediction and benchmark platform for chemical and gene entity recognition at BioCreative/CHEMDNER challenge. <i>Database: the Journal of Biological Databases and Curation</i> , 2016 , 2016, Colorectal cancer classification based on gene expression is not associated with FOLFIRI response. <i>Nature Medicine</i> , 2014 , 20, 1230-1 An epistatic interaction between the PAX8 and STK17B genes in papillary thyroid cancer susceptibility. <i>PLoS ONE</i> , 2013 , 8, e74765 Inference of functional relations in predicted protein networks with a machine learning approach. <i>PLoS ONE</i> , 2010 , 5, e9969 An integrated approach to the interpretation of single amino acid polymorphisms within the	3 5 50.5 3.7 3.7	8 8 8 8

(2010-2020)

92	A user guide for the online exploration and visualization of PCAWG data. <i>Nature Communications</i> , 2020 , 11, 3400	17.4	7
91	KinMutRF: a random forest classifier of sequence variants in the human protein kinase superfamily. <i>BMC Genomics</i> , 2016 , 17 Suppl 2, 396	4.5	7
90	wKinMut-2: Identification and Interpretation of Pathogenic Variants in Human Protein Kinases. <i>Human Mutation</i> , 2016 , 37, 36-42	4.7	7
89	FireDB: a compendium of biological and pharmacologically relevant ligands. <i>Nucleic Acids Research</i> , 2014 , 42, D267-72	20.1	7
88	Interpretation of the consequences of mutations in protein kinases: combined use of bioinformatics and text mining. <i>Frontiers in Physiology</i> , 2012 , 3, 323	4.6	7
87	Involvement of intramolecular interactions in the regulation of G protein-coupled receptor kinase 2. <i>Molecular Pharmacology</i> , 2003 , 64, 629-39	4.3	7
86	HCAD, closing the gap between breakpoints and genes. <i>Nucleic Acids Research</i> , 2005 , 33, D511-3	20.1	7
85	Critical assessment of information extraction systems in biology. <i>Comparative and Functional Genomics</i> , 2003 , 4, 674-7		7
84	Prediction of Functional Sites in Proteins by Evolutionary Methods. <i>Principles and Practice</i> , 2004 , 319-3-	40	7
83	MIB2 variants altering NOTCH signalling result in left ventricle hypertrabeculation/non-compaction and are associated with MfiErier-like gastropathy. <i>Human Molecular Genetics</i> , 2017 , 26, 33-43	5.6	7
82	DNA methylation profiling of hepatosplenic T-cell lymphoma. <i>Haematologica</i> , 2019 , 104, e104-e107	6.6	7
81	A computational approach inspired by simulated annealing to study the stability of protein interaction networks in cancer and neurological disorders. <i>Data Mining and Knowledge Discovery</i> , 2016 , 30, 226-242	5.6	6
80	Molecular Inverse Comorbidity between Alzheimer's Disease and Lung Cancer: New Insights from Matrix Factorization. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	6
79	Association of Anorexia Nervosa With Risk of Cancer: A Systematic Review and Meta-analysis. <i>JAMA Network Open</i> , 2019 , 2, e195313	10.4	6
78	Understanding oncogenicity of cancer driver genes and mutations in the cancer genomics era. <i>FEBS Letters</i> , 2020 , 594, 4233-4246	3.8	6
77	Germline variation in the oxidative DNA repair genes NUDT1 and OGG1 is not associated with hereditary colorectal cancer or polyposis. <i>Human Mutation</i> , 2018 , 39, 1214-1225	4.7	6
76	Late-replicating CNVs as a source of new genes. <i>Biology Open</i> , 2013 , 2, 1402-11	2.2	6
75	FragKB: structural and literature annotation resource of conserved peptide fragments and residues. <i>PLoS ONE</i> , 2010 , 5, e9679	3.7	6

74	Ras classical effectors: new tales from in silico complexes. <i>Trends in Biochemical Sciences</i> , 2009 , 34, 533-	910.3	6
73	The Ras protein superfamily: Evolutionary tree and role of conserved amino acids. <i>Journal of Cell Biology</i> , 2012 , 196, 545-545	7.3	6
7 ²	Transcriptomic and Genetic Associations between Alzheimer's Disease, Parkinson's Disease, and Cancer. <i>Cancers</i> , 2021 , 13,	6.6	6
71	Text mining and protein annotations: the construction and use of protein description sentences. <i>Genome Informatics</i> , 2006 , 17, 121-30		6
70	wKinMut: an integrated tool for the analysis and interpretation of mutations in human protein kinases. <i>BMC Bioinformatics</i> , 2013 , 14, 345	3.6	5
69	Incorporating information on predicted solvent accessibility to the co-evolution-based study of protein interactions. <i>Molecular BioSystems</i> , 2013 , 9, 70-6		5
68	Do you do text?. <i>Bioinformatics</i> , 2005 , 21, 4199-200	7.2	5
67	Improvement in affinity and HIV-1 neutralization by somatic mutation in the heavy chain first complementarity-determining region of antibodies triggered by HIV-1 infection. <i>European Journal of Immunology</i> , 2001 , 31, 128-37	6.1	5
66	Three-dimensional connectivity and chromatin environment mediate the activation efficiency of mammalian DNA replication origins		5
65	The eTRANSAFE Project on Translational Safety Assessment through Integrative Knowledge Management: Achievements and Perspectives. <i>Pharmaceuticals</i> , 2021 , 14,	5.2	5
64	Artificial intelligence in cancer research: learning at different levels of data granularity. <i>Molecular Oncology</i> , 2021 , 15, 817-829	7.9	5
63	Practical limits of function prediction 2000 , 41, 98		5
62	vulcanSpot: a tool to prioritize therapeutic vulnerabilities in cancer. <i>Bioinformatics</i> , 2019 , 35, 4846-4848	7.2	4
61	Anorexia nervosa and cancer: a protocol for a systematic review and meta-analysis of observational studies. <i>Systematic Reviews</i> , 2017 , 6, 137	3	4
60	Next generation community assessment of biomedical entity recognition web servers: metrics, performance, interoperability aspects of BeCalm. <i>Journal of Cheminformatics</i> , 2019 , 11, 42	8.6	4
59	SOA-Based Integration of Text Mining Services 2009 ,		4
58	Computational Methods to Predict Protein Interaction Partners. Computational Biology, 2008, 67-81	0.7	4
57	Prediction of Protein-Protein Interactions from Evolutionary Information. <i>Methods of Biochemical Analysis</i> , 2005 , 409-426		4

56	iHOP Web Services Family. Lecture Notes in Computer Science, 2012, 102-107	0.9	4
55	COVID-19 Disease Map, a computational knowledge repository of SARS-CoV-2 virus-host interaction mechanisms		4
54	Pathway and network analysis of more than 2,500 whole cancer genomes		4
53	Computational analysis of sense-antisense chimeric transcripts reveals their potential regulatory features and the landscape of expression in human cells. <i>NAR Genomics and Bioinformatics</i> , 2021 , 3, lqa	ь <u>д</u> 74	4
52	Systems biology at the giga-scale: Large multiscale models of complex, heterogeneous multicellular systems. <i>Current Opinion in Systems Biology</i> , 2021 , 28, 100385	3.2	4
51	Assessing the accuracy of contact and distance predictions in CASP14. <i>Proteins: Structure, Function and Bioinformatics</i> , 2021 , 89, 1888-1900	4.2	4
50	Patient-specific Boolean models of signalling networks guide personalised treatments <i>ELife</i> , 2022 , 11,	8.9	4
49	Mortality in Persons With Autism Spectrum Disorder or Attention-Deficit/Hyperactivity Disorder: A Systematic Review and Meta-analysis <i>JAMA Pediatrics</i> , 2022 , e216401	8.3	4
48	The PPI affix dictionary (PPIAD) and BioMethod Lexicon: importance of affixes and tags for recognition of entity mentions and experimental protein interactions. <i>BMC Bioinformatics</i> , 2010 , 11,	3.6	3
47	Multiple sequence alignments as tools for protein structure and function prediction. <i>Comparative and Functional Genomics</i> , 2003 , 4, 424-7		3
46	A user guide to the online resources for data exploration, visualization, and discovery for the Pan-Cancer Analysis of Whole Genomes project (PCAWG)		3
45	Mutational mechanisms shaping the coding and noncoding genome of germinal center derived B-cell lymphomas. <i>Leukemia</i> , 2021 , 35, 2002-2016	10.7	3
44	Anna Tramontano 1957-2017. Nature Structural and Molecular Biology, 2017, 24, 431-432	17.6	2
43	Predicting Protein Relationships to Human Pathways through a Relational Learning Approach Based on Simple Sequence Features. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2014 , 11, 753-65	3	2
42	A common structural scaffold in CTD phosphatases that supports distinct catalytic mechanisms. <i>Proteins: Structure, Function and Bioinformatics</i> , 2014 , 82, 103-18	4.2	2
41	Mirroring co-evolving trees in the light of their topologies. <i>Bioinformatics</i> , 2012 , 28, 1202-8	7.2	2
40	Gene order in Prokaryotes: conservation and implications 2004 , 209-237		2
39	The REGIA database (RegiaDB): status, limitations and future developments. <i>Comparative and Functional Genomics</i> , 2002 , 3, 109-14		2

38	Bioinformatics and Computational Biology at the crossroads of post-genomic technology. <i>Phytochemistry Reviews</i> , 2002 , 1, 209-214	7.7	2
37	Accessible Protein Interaction Data for Network Modeling. Structure of the Information and Available Repositories. <i>Lecture Notes in Computer Science</i> , 2005 , 1-13	0.9	2
36	COVID-19 Flow-Maps an open geographic information system on COVID-19 and human mobility for Spain. <i>Scientific Data</i> , 2021 , 8, 310	8.2	2
35	Retrieval and Discovery of Cell Cycle Literature and Proteins by Means of Machine Learning, Text Mining and Network Analysis. <i>Advances in Intelligent Systems and Computing</i> , 2014 , 285-292	0.4	2
34	Education and Research Infrastructures 2011 , 165-181		2
33	Comparative analysis of neutrophil and monocyte epigenomes		2
32	Patient Dossier: Healthcare queries over distributed resources. <i>PLoS Computational Biology</i> , 2019 , 15, e1007291	5	2
31	STAG2 loss-of-function affects short-range genomic contacts and modulates the basal-luminal transcriptional program of bladder cancer cells. <i>Nucleic Acids Research</i> , 2021 , 49, 11005-11021	20.1	2
30	BioFVM-X: An MPI+OpenMP 3-D Simulator for Biological Systems. <i>Lecture Notes in Computer Science</i> , 2021 , 266-279	0.9	2
29	Interactive Extreme-Scale Analytics: Towards Battling Cancer. <i>IEEE Technology and Society Magazine</i> , 2019 , 38, 54-61	0.8	1
28	Summary of the BioLINK SIG 2013 meeting at ISMB/ECCB 2013. Bioinformatics, 2015, 31, 297-8	7.2	1
27	Bioinformatics Analysis of Pancreas Cancer Genome in High-Throughput Genomic Technologies 2014 , 93-131		1
26	Integrating Prediction of Structure, Function, and Interactions 2008, 259-279		1
25	Mining Information on Protein Function from Text1253-1295		1
24	YAdumper: extracting and translating large information volumes from relational databases to structured flat files. <i>Bioinformatics</i> , 2004 , 20, 2455-7	7.2	1
23	Solution structure of the hypothetical protein Mth677 from Methanobacterium thermoautotrophicum: a novel alpha+beta fold. <i>Protein Science</i> , 2004 , 13, 1458-65	6.3	1
22	Automatic classification of protein functions from the literature. <i>Comparative and Functional Genomics</i> , 2003 , 4, 75-9		1
21	ISCB's initial reaction to New England Journal of Medicine editorial on data sharing. <i>F1000Research</i> , 2016 , 5,	3.6	1

20	Knowledge Acquisition from the Biomedical Literature 2007 , 53-81		1
19	Unveiling the molecular basis of disease co-occurrence: towards personalized comorbidity profiles		1
18	The gene regulation knowledge commons: the action area of GREEKC. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2021 , 1865, 194768	6	1
17	ECCB2020: the 19th European Conference on Computational Biology. <i>Bioinformatics</i> , 2020 , 36, i569-i57	2 7.2	1
16	Biological Knowledge Extraction 2009 , 413-433		1
15	Automatic identification of informative regions with epigenomic changes associated to hematopoiesis		1
14	Overview of the Ninth Annual Meeting of the BioLINK SIG at ISMB: Linking Literature, Information and Knowledge for Biology. <i>Lecture Notes in Computer Science</i> , 2010 , 1-7	0.9	1
13	On the inconsistent treatment of gene-protein-reaction rules in context-specific metabolic models. <i>Bioinformatics</i> , 2020 , 36, 1986-1988	7.2	1
12	Patient-specific Boolean models of signaling networks guide personalized treatments		1
11	ISCB's initial reaction to New England Journal of Medicine editorial on data sharing. <i>Bioinformatics</i> , 2017 , 33, 2968	7.2	1
10	Unraveling the molecular basis of host cell receptor usage in SARS-CoV-2 and other human pathogenic ECoVs. <i>Computational and Structural Biotechnology Journal</i> , 2021 , 19, 759-766	6.8	1
9	Parallel model exploration for tumor treatment simulations. Computational Intelligence,	2.5	1
8	Optimizing Dosage-Specific Treatments in a Multi-Scale Model of a Tumor Growth <i>Frontiers in Molecular Biosciences</i> , 2022 , 9, 836794	5.6	0
7	Sex and gender bias in natural language processing 2022 , 113-132		O
6	The Biodegradation Network, a New Scenario for Computational Systems Biology Research. <i>Lecture Notes in Computer Science</i> , 2005 , 252-256	0.9	
5	Applications of Text Mining in Molecular Biology, from Name Recognition to Protein Interaction Maps 2005 , 41-59		
4	GOPHER, an HPC Framework for Large Scale Graph Exploration and Inference. <i>Lecture Notes in Computer Science</i> , 2020 , 211-222	0.9	
3	Bioinformatic Software Developments in Spain. Lecture Notes in Computer Science, 2012, 108-120	0.9	

Evolution of the Ras Superfamily of GTPases **2014**, 3-23

Design and methodological characteristics of studies using observational routinely collected health data for investigating the link between cancer and neurodegenerative diseases: protocol for a meta-research study.. *BMJ Open*, **2022**, 12, e058738

3