Lilia M Iakoucheva

List of Publications by Citations

59 papers	13,063 citations	38 h-index	66 g-index
66 ext. papers	15,172 ext. citations	17.3 avg, IF	5.78 L-index

#	Paper	IF	Citations
59	Intrinsic disorder and protein function. *Biochemistry*, **2002**, 41, 6573-82	3.2	1462
58	The importance of intrinsic disorder for protein phosphorylation. *Nucleic Acids Research*, **2004**, 32, 1037-49	10.1	1043
57	Intrinsic disorder in cell-signaling and cancer-associated proteins. *Journal of Molecular Biology*, **2002**, 323, 573-84	6.5	967
56	A proteome-scale map of the human interactome network. *Cell*, **2014**, 159, 1212-1226	56.2	898
55	Flexible nets. The roles of intrinsic disorder in protein interaction networks. *FEBS Journal*, **2005**, 272, 5129-48	5.7	895
54	Mapping copy number variation by population-scale genome sequencing. *Nature*, **2011**, 470, 59-65	50.4	833
53	Intrinsic disorder and functional proteomics. *Biophysical Journal*, **2007**, 92, 1439-56	2.9	571
52	Microduplications of 16p11.2 are associated with schizophrenia. *Nature Genetics*, **2009**, 41, 1223-7	36.3	550
51	Functional anthology of intrinsic disorder. 1. Biological processes and functions of proteins with long disordered regions. *Journal of Proteome Research*, **2007**, 6, 1882-98	5.6	455
50	Intrinsic disorder is a common feature of hub proteins from four eukaryotic interactomes. *PLoS Computational Biology*, **2006**, 2, e100	5	435
49	Transcriptome-wide isoform-level dysregulation in ASD, schizophrenia, and bipolar disorder. *Science*, **2018**, 362,	33.3	434
48	Identification, analysis, and prediction of protein ubiquitination sites. *Proteins: Structure, Function and Bioinformatics*, **2010**, 78, 365-80	4.2	424
47	Whole-genome sequencing in autism identifies hot spots for de novo germline mutation. *Cell*, **2012**, 151, 1431-42	56.2	392
46	Two Sample Logo: a graphical representation of the differences between two sets of sequence alignments. *Bioinformatics*, **2006**, 22, 1536-7	7.2	336
45	Functional anthology of intrinsic disorder. 3. Ligands, post-translational modifications, and diseases associated with intrinsically disordered proteins. *Journal of Proteome Research*, **2007**, 6, 1917-32	5.6	322
44	Widespread Expansion of Protein Interaction Capabilities by Alternative Splicing. *Cell*, **2016**, 164, 805-17	56.2	308
43	Duplications of the neuropeptide receptor gene VIPR2 confer significant risk for schizophrenia. *Nature*, **2011**, 471, 499-503	50.4	257

42	Functional anthology of intrinsic disorder. 2. Cellular components, domains, technical terms, developmental processes, and coding sequence diversities correlated with long disordered regions. *Journal of Proteome Research*, **2007**, 6, 1899-916	5.6	215
41	DisProt: a database of protein disorder. *Bioinformatics*, **2005**, 21, 137-40	7.2	205
40	Unfoldomics of human diseases: linking protein intrinsic disorder with diseases. *BMC Genomics*, **2009**, 10 Suppl 1, S7	4.5	199
39	Pathological unfoldomics of uncontrolled chaos: intrinsically disordered proteins and human diseases. *Chemical Reviews*, **2014**, 114, 6844-79	68.1	186
38	A protein domain-based interactome network for C. elegans early embryogenesis. *Cell*, **2008**, 134, 534-45	56.2	161
37	Combining prediction, computation and experiment for the characterization of protein disorder. *Current Opinion in Structural Biology*, **2004**, 14, 570-6	8.1	113
36	Paternally inherited cis-regulatory structural variants are associated with autism. *Science*, **2018**, 360, 327-331	33.3	106
35	Protein interaction network of alternatively spliced isoforms from brain links genetic risk factors for autism. *Nature Communications*, **2014**, 5, 3650	17.4	101
34	Identification of intrinsic order and disorder in the DNA repair protein XPA. *Protein Science*, **2001**, 10, 560-71	6.3	101
33	Disease-associated mutations disrupt functionally important regions of intrinsic protein disorder. *PLoS Computational Biology*, **2012**, 8, e1002709	5	95
32	Spatiotemporal 16p11.2 protein network implicates cortical late mid-fetal brain development and KCTD13-Cul3-RhoA pathway in psychiatric diseases. *Neuron*, **2015**, 85, 742-54	13.9	94
31	Getting to the Cores of Autism. *Cell*, **2019**, 178, 1287-1298	56.2	91
30	Serine/arginine-rich splicing factors belong to a class of intrinsically disordered proteins. *Nucleic Acids Research*, **2006**, 34, 305-12	20.1	87
29	Inferring the molecular and phenotypic impact of amino acid variants with MutPred2. *Nature Communications*, **2020**, 11, 5918	17.4	84
28	MutPred2: inferring the molecular and phenotypic impact of amino acid variants		79
27	Disease mutations in disordered regions--exception to the rule?. *Molecular BioSystems*, **2012**, 8, 27-32		64
26	Frequency and Complexity of De Novo Structural Mutation in Autism. *American Journal of Human Genetics*, **2016**, 98, 667-79	11	61
25	Aberrant mobility phenomena of the DNA repair protein XPA. *Protein Science*, **2001**, 10, 1353-62	6.3	61

24	Order, disorder, and flexibility: prediction from protein sequence. *Structure*, **2003**, 11, 1316-7	5.2	49
23	Loss of post-translational modification sites in disease. *Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing*, **2010**, 337-47	1.3	47
22	Single-molecule conformational dynamics of fluctuating noncovalent DNA-protein interactions in DNA damage recognition. *Journal of the American Chemical Society*, **2001**, 123, 9184-5	16.4	42
21	Graphlet kernels for prediction of functional residues in protein structures. *Journal of Computational Biology*, **2010**, 17, 55-72	1.7	36
20	Prediction of intrinsic disorder and its use in functional proteomics. *Methods in Molecular Biology*, **2007**, 408, 69-92	1.4	32
19	RNA association or phosphorylation of the RS domain prevents aggregation of RS domain-containing proteins. *Biochimica Et Biophysica Acta - General Subjects*, **2008**, 1780, 214-25	4	29
18	When loss-of-function is loss of function: assessing mutational signatures and impact of loss-of-function genetic variants. *Bioinformatics*, **2017**, 33, i389-i398	7.2	23
17	Equilibrium and stop-flow kinetic studies of fluorescently labeled DNA substrates with DNA repair proteins XPA and replication protein A. *Biochemistry*, **2002**, 41, 131-43	3.2	22
16	Oligogenic Effects of 16p11.2 Copy-Number Variation on Craniofacial Development. *Cell Reports*, **2019**, 28, 3320-3328.e4	10.6	16
15	Predicted disorder-to-order transition mutations in IB disrupt function. *Physical Chemistry Chemical Physics*, **2014**, 16, 6480-5	3.6	16
14	Pathogenicity and functional impact of non-frameshifting insertion/deletion variation in the human genome. *PLoS Computational Biology*, **2019**, 15, e1007112	5	15
13	Extended X-ray absorption fine structure evidence for a single metal binding domain in Xenopus laevis nucleotide excision repair protein XPA. *Biochemical and Biophysical Research Communications*, **1999**, 254, 109-13	3.4	12
12	Paternally inherited noncoding structural variants contribute to autism		7
11	Cortical organoids model early brain development disrupted by 16p11.2 copy number variants in autism. *Molecular Psychiatry*, **2021**,	15.1	6
10	Nucleotide excision repair in oocyte nuclear extracts from Xenopus laevis. *Methods*, **2000**, 22, 188-93	4.6	5
9	Comprehensive Analyses of Tissue-Specific Networks with Implications to Psychiatric Diseases. *Methods in Molecular Biology*, **2017**, 1613, 371-402	1.4	4
8	A Protein Domain-Based Interactome Network for C. elegans Early Embryogenesis. *Cell*, **2012**, 151, 1633	56.2	3
7	Protein Disorder and Human Genetic Disease **2012**,		2

6	Cortical Organoids Model Early Brain Development Disrupted by 16p11.2 Copy Number Variants in Autism		2
5	Full-length isoform transcriptome of the developing human brain provides further insights into autism. *Cell Reports*, **2021**, 36, 109631	10.6	2
4	Oligogenic Effects of 16p11.2 Copy Number Variation on Craniofacial Development. *SSRN Electronic Journal*,	1	1
3	Autism-linked Cullin3 germline haploinsufficiency impacts cytoskeletal dynamics and cortical neurogenesis through RhoA signaling. *Molecular Psychiatry*, **2021**, 26, 3586-3613	15.1	1
2	Prioritizing de novo autism risk variants with calibrated gene- and variant-scoring models. *Human Genetics*, **2021**, 1	6.3	0
1	Prioritizing Disease Genes and Understanding Disease Pathways **2009**, 239-256		