

# Francisco E Baralle

## List of Publications by Year in descending order

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82  
papers

9,931  
citations

50276

46  
h-index

62596

80  
g-index

83  
all docs

83  
docs citations

83  
times ranked

8763  
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization and Functional Implications of the RNA Binding Properties of Nuclear Factor TDP-43, a Novel Splicing Regulator of CFTR Exon 9. <i>Journal of Biological Chemistry</i> , 2001, 276, 36337-36343.	3.4	577
2	Genomic variants in exons and introns: identifying the splicing spoilers. <i>Nature Reviews Genetics</i> , 2004, 5, 389-396.	16.3	512
3	Structural determinants of the cellular localization and shuttling of TDP-43. <i>Journal of Cell Science</i> , 2008, 121, 3778-3785.	2.0	493
4	TDP-43 regulates its mRNA levels through a negative feedback loop. <i>EMBO Journal</i> , 2011, 30, 277-288.	7.8	492
5	Multiple roles of TDP-43 in gene expression, splicing regulation, and human disease. <i>Frontiers in Bioscience - Landmark</i> , 2008, 13, 867.	3.0	416
6	TDP-43 Binds Heterogeneous Nuclear Ribonucleoprotein A/B through Its C-terminal Tail. <i>Journal of Biological Chemistry</i> , 2005, 280, 37572-37584.	3.4	400
7	Influence of RNA Secondary Structure on the Pre-mRNA Splicing Process. <i>Molecular and Cellular Biology</i> , 2004, 24, 10505-10514.	2.3	370
8	Human, Drosophila, and C.elegans TDP43: Nucleic Acid Binding Properties and Splicing Regulatory Function. <i>Journal of Molecular Biology</i> , 2005, 348, 575-588.	4.2	315
9	Molecular basis of UG-rich RNA recognition by the human splicing factor TDP-43. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 1443-1449.	8.2	293
10	Coupling of Transcription with Alternative Splicing. <i>Molecular Cell</i> , 1999, 4, 251-258.	9.7	274
11	Regulated splicing of the fibronectin EDA exon is essential for proper skin wound healing and normal lifespan. <i>Journal of Cell Biology</i> , 2003, 162, 149-160.	5.2	274
12	Depletion of TDP-43 affects <i>Drosophila</i> motoneurons' terminal synapsis and locomotive behavior. <i>FEBS Letters</i> , 2009, 583, 1586-1592.	2.8	266
13	An Essential Role for Fibronectin Extra Type III Domain A in Pulmonary Fibrosis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2008, 177, 638-645.	5.6	257
14	TDP-43 and FUS RNA-binding Proteins Bind Distinct Sets of Cytoplasmic Messenger RNAs and Differently Regulate Their Post-transcriptional Fate in Motoneuron-like Cells. <i>Journal of Biological Chemistry</i> , 2012, 287, 15635-15647.	3.4	233
15	TDP-43 regulates retinoblastoma protein phosphorylation through the repression of cyclin-dependent kinase 6 expression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 3785-3789.	7.1	214
16	Synonymous mutations in CFTR exon 12 affect splicing and are not neutral in evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 6368-6372.	7.1	212
17	Depletion of TDP 43 overrides the need for exonic and intronic splicing enhancers in the human apoA-II gene. <i>Nucleic Acids Research</i> , 2005, 33, 6000-6010.	14.5	204
18	A new type of mutation causes a splicing defect in ATM. <i>Nature Genetics</i> , 2002, 30, 426-429.	21.4	200

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19	Functional mapping of the interaction between TDP-43 and hnRNP A2 in vivo. <i>Nucleic Acids Research</i> , 2009, 37, 4116-4126.	14.5	190
20	Defective splicing, disease and therapy: searching for master checkpoints in exon definition. <i>Nucleic Acids Research</i> , 2006, 34, 3494-3510.	14.5	189
21	Nuclear Factor TDP-43 Binds to the Polymorphic TG Repeats in CFTR Intron 8 and Causes Skipping of Exon 9: A Functional Link with Disease Penetrance. <i>American Journal of Human Genetics</i> , 2004, 74, 1322-1325.	6.2	176
22	New type of disease causing mutations: the example of the composite exonic regulatory elements of splicing in CFTR exon 12. <i>Human Molecular Genetics</i> , 2003, 12, 1111-1120.	2.9	171
23	Abnormal phosphorylation of Ser409/410 of TDP-43 in FTD and ALS. <i>FEBS Letters</i> , 2008, 582, 2899-2904.	2.8	170
24	Splicing Factors Induce Cystic Fibrosis Transmembrane Regulator Exon 9 Skipping through a Nonevolutionary Conserved Intronic Element. <i>Journal of Biological Chemistry</i> , 2000, 275, 21041-21047.	3.4	160
25	TDP-43: gumming up neurons through protein-protein and protein-RNA interactions. <i>Trends in Biochemical Sciences</i> , 2012, 37, 237-247.	7.5	159
26	Autoregulation of TDP-43 mRNA levels involves interplay between transcription, splicing, and alternative polyA site selection. <i>Genes and Development</i> , 2012, 26, 1679-1684.	5.9	157
27	A role for exon sequences in alternative splicing of the human fibronectin gene. <i>Nucleic Acids Research</i> , 1987, 15, 7725-7733.	14.5	156
28	Missense, Nonsense, and Neutral Mutations Define Juxtaposed Regulatory Elements of Splicing in Cystic Fibrosis Transmembrane Regulator Exon 9. <i>Journal of Biological Chemistry</i> , 2003, 278, 26580-26588.	3.4	125
29	Regulation of Fibronectin EDA Exon Alternative Splicing: Possible Role of RNA Secondary Structure for Enhancer Display. <i>Molecular and Cellular Biology</i> , 1999, 19, 2657-2671.	2.3	123
30	The TDP-43 N-terminal domain structure at high resolution. <i>FEBS Journal</i> , 2016, 283, 1242-1260.	4.7	121
31	Functional analysis of the interaction between HCV 5'UTR and putative subunits of eukaryotic translation initiation factor eIF3. <i>Nucleic Acids Research</i> , 1998, 26, 3179-3187.	14.5	111
32	TDP-43 Regulates Drosophila Neuromuscular Junctions Growth by Modulating Futsch/MAP1B Levels and Synaptic Microtubules Organization. <i>PLoS ONE</i> , 2011, 6, e17808.	2.5	108
33	Cellular Model of TAR DNA-binding Protein 43 (TDP-43) Aggregation Based on Its C-terminal Gln/Asn-rich Region. <i>Journal of Biological Chemistry</i> , 2012, 287, 7512-7525.	3.4	107
34	RNA Folding Affects the Recruitment of SR Proteins by Mouse and Human Polypurinic Enhancer Elements in the Fibronectin EDA Exon. <i>Molecular and Cellular Biology</i> , 2004, 24, 1387-1400.	2.3	106
35	Characterizing TDP-43 interaction with its RNA targets. <i>Nucleic Acids Research</i> , 2013, 41, 5062-5074.	14.5	92
36	Chapter 1 The Molecular Links Between TDP-43 Dysfunction and Neurodegeneration. <i>Advances in Genetics</i> , 2009, 66, 1-34.	1.8	84

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37	TDP43 depletion rescues aberrant CFTR exon 9 skipping. <i>FEBS Letters</i> , 2006, 580, 1339-1344.	2.8	73
38	An Intronic Polypyrimidine-rich Element Downstream of the Donor Site Modulates Cystic Fibrosis Transmembrane Conductance Regulator Exon 9 Alternative Splicing. <i>Journal of Biological Chemistry</i> , 2004, 279, 16980-16988.	3.4	72
39	TDP-43 loss of cellular function through aggregation requires additional structural determinants beyond its C-terminal Q/N prion-like domain. <i>Human Molecular Genetics</i> , 2015, 24, 9-20.	2.9	71
40	Functional properties and evolutionary splicing constraints on a composite exonic regulatory element of splicing in CFTR exon 12. <i>Nucleic Acids Research</i> , 2010, 38, 647-659.	14.5	67
41	Structural characterization of the minimal segment of TDP-43 competent for aggregation. <i>Archives of Biochemistry and Biophysics</i> , 2014, 545, 53-62.	3.0	67
42	Point mutations in the N-terminal domain of transactive response DNA-binding protein 43 kDa (TDP-43) compromise its stability, dimerization, and functions. <i>Journal of Biological Chemistry</i> , 2017, 292, 11992-12006.	3.4	66
43	NF1mRNA biogenesis: Effect of the genomic milieu in splicing regulation of theNF1exon 37 region. <i>FEBS Letters</i> , 2006, 580, 4449-4456.	2.8	64
44	A Polar Mechanism Coordinates Different Regions of Alternative Splicing within a Single Gene. <i>Molecular Cell</i> , 2005, 19, 393-404.	9.7	63
45	The role of TDP-43 in the pathogenesis of ALS and FTL. <i>Biochemical Society Transactions</i> , 2013, 41, 1536-1540.	3.4	60
46	RNA structure is a key regulatory element in pathological ATM and CFTR pseudoexon inclusion events. <i>Nucleic Acids Research</i> , 2007, 35, 4369-4383.	14.5	53
47	SR protein-mediated inhibition of CFTR exon 9 inclusion: molecular characterization of the intronic splicing silencer. <i>Nucleic Acids Research</i> , 2007, 35, 4359-4368.	14.5	47
48	Prothrombotic Effects of Fibronectin Isoforms Containing the EDA Domain. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2008, 28, 296-301.	2.4	46
49	Absence of regulated splicing of fibronectin EDA exon reduces atherosclerosis in mice. <i>Atherosclerosis</i> , 2008, 197, 534-540.	0.8	45
50	Role of selected mutations in the Q/N rich region of TDP-43 in EGFP-12xQ/N-induced aggregate formation. <i>Brain Research</i> , 2012, 1462, 139-150.	2.2	43
51	From transcriptomic to protein level changes in TDP-43 and FUS loss-of-function cell models. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2015, 1849, 1398-1410.	1.9	38
52	The structural integrity of TDP-43 N-terminus is required for efficient aggregate entrapment and consequent loss of protein function. <i>Prion</i> , 2015, 9, 1-9.	1.8	37
53	Chronological requirements of TDP-43 function in synaptic organization and locomotive control. <i>Neurobiology of Disease</i> , 2014, 71, 95-109.	4.4	36
54	The intronic splicing code: multiple factors involved in ATM pseudoexon definition. <i>EMBO Journal</i> , 2010, 29, 749-760.	7.8	34

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55	Predominance of spliceosomal complex formation over polyadenylation site selection in TDP-43 autoregulation. <i>Nucleic Acids Research</i> , 2014, 42, 3362-3371.	14.5	33
56	Regulation of 3' Splice Site Selection in the 844ins68 Polymorphism of the Cystathionine $\beta$ -Synthase Gene. <i>Journal of Biological Chemistry</i> , 2002, 277, 43821-43829.	3.4	32
57	The pathological splicing mutation c.6792C > G in <i>NF1</i> exon 37 causes a change of tenancy between antagonistic splicing factors. <i>FEBS Letters</i> , 2008, 582, 2231-2236.	2.8	31
58	Glial TDP-43 regulates axon wrapping, GluRIIA clustering and fly motility by autonomous and non-autonomous mechanisms. <i>Human Molecular Genetics</i> , 2015, 24, 6134-6145.	2.9	28
59	TDP-43 high throughput screening analyses in neurodegeneration: Advantages and pitfalls. <i>Molecular and Cellular Neurosciences</i> , 2013, 56, 465-474.	2.2	27
60	Mutually exclusive splicing regulates the Nav 1.6 sodium channel function through a combinatorial mechanism that involves three distinct splicing regulatory elements and their ligands. <i>Nucleic Acids Research</i> , 2012, 40, 6255-6269.	14.5	26
61	Targeting TDP-43 in neurodegenerative diseases. <i>Expert Opinion on Therapeutic Targets</i> , 2014, 18, 617-632.	3.4	25
62	An age-related reduction of brain TBPH/TDP-43 levels precedes the onset of locomotion defects in a <i>Drosophila</i> ALS model. <i>Neuroscience</i> , 2015, 311, 415-421.	2.3	25
63	Aggregate formation prevents dTDP-43 neurotoxicity in the <i>Drosophila melanogaster</i> eye. <i>Neurobiology of Disease</i> , 2014, 71, 74-80.	4.4	24
64	Immunoreactivity of chimeric proteins carrying the HIV-1 epitope IGPGRAF Correlation between predicted conformation and antigenicity. <i>FEBS Letters</i> , 1994, 353, 1-4.	2.8	21
65	Exon First Nucleotide Mutations in Splicing: Evaluation of In Silico Prediction Tools. <i>PLoS ONE</i> , 2014, 9, e89570.	2.5	17
66	Expression of RGD minus fibronectin that does not form extracellular matrix fibrils is sufficient to decrease tumor metastasis. , 1998, 78, 233-241.		16
67	Another step forward for SELEXive splicing. <i>Trends in Molecular Medicine</i> , 2005, 11, 5-9.	6.7	16
68	From single splicing events to thousands: the ambiguous step forward in splicing research. <i>Briefings in Functional Genomics</i> , 2013, 12, 3-12.	2.7	16
69	A novel fly model of TDP-43 proteinopathies: N-terminus sequences combined with the Q/N domain induce protein functional loss and locomotion defects. <i>DMM Disease Models and Mechanisms</i> , 2016, 9, 659-69.	2.4	16
70	Can a "patch" in a skipped exon make the pre-mRNA splicing machine run better?. <i>Trends in Molecular Medicine</i> , 2003, 9, 229-232.	6.7	15
71	Interaction between the $\sim$ 170 CRE and the $\sim$ 150 CCAAT box is necessary for efficient activation of the fibronectin gene promoter by cAMP and ATF-2. <i>FEBS Letters</i> , 1999, 457, 445-451.	2.8	13
72	Cysteine residues in human lysosomal acid lipase are involved in selective cholesteryl esterase activity. <i>Biochemical Journal</i> , 1997, 326, 265-269.	3.7	12

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73	L273S missense substitution in human lysosomal acid lipase creates a new N-glycosylation site. FEBS Letters, 1996, 397, 79-82.	2.8	9
74	Alternative splicing of a previously unidentified CFTR exon introduces an in-frame stop codon 5' of the R region. FEBS Letters, 1993, 329, 159-162.	2.8	7
75	Physiological tissue-specific and age-related reduction of mouse TDP-43 levels is regulated by epigenetic modifications. DMM Disease Models and Mechanisms, 2022, , .	2.4	7
76	A novel anti-aldolase C antibody specifically interacts with residues 85-102 of the protein. MAbs, 2014, 6, 707-716.	5.2	6
77	Absence of TDP-43 is difficult to digest. EMBO Journal, 2016, 35, 115-117.	7.8	6
78	Origin and evolution of the c.844_845ins68/c.833T>C mutations within the cystathionine Î²-synthase gene in great apes. FEBS Letters, 2008, 582, 423-426.	2.8	5
79	Thioridazine reverts the phenotype in cellular and Drosophila models of amyotrophic lateral sclerosis by enhancing TDP-43 aggregate clearance. Neurobiology of Disease, 2021, 160, 105515.	4.4	5
80	Analysis of Human Splicing Defects Using Hybrid Minigenes. , 2010, , 155-169.		2
81	Evolutionary Connections between Coding and Splicing Regulatory Regions in the Fibronectin EDA Exon. Journal of Molecular Biology, 2011, 411, 1-15.	4.2	1
82	RNA and splicing regulation in neurodegeneration. Molecular and Cellular Neurosciences, 2013, 56, 404-405.	2.2	1