

Maria Carmo-Fonseca

List of Publications by Year in descending order

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117
papers

8,830
citations

38720

50
h-index

45285

90
g-index

122
all docs

122
docs citations

122
times ranked

10530
citing authors

#	ARTICLE	IF	CITATIONS
1	Retinoic acid regulates aberrant nuclear localization of PML-RAR α in acute promyelocytic leukemia cells. <i>Cell</i> , 1994, 76, 345-356.	13.5	691
2	Mammalian NET-Seq Reveals Genome-wide Nascent Transcription Coupled to RNA Processing. <i>Cell</i> , 2015, 161, 526-540.	13.5	466
3	To be or not to be in the nucleolus. <i>Nature Cell Biology</i> , 2000, 2, E107-E112.	4.6	346
4	Deep intronic mutations and human disease. <i>Human Genetics</i> , 2017, 136, 1093-1111.	1.8	311
5	The C-terminal domain of TAP interacts with the nuclear pore complex and promotes export of specific CTE-bearing RNA substrates. <i>Rna</i> , 2000, 6, 136-158.	1.6	298
6	Dynamic association of RNA-editing enzymes with the nucleolus. <i>Journal of Cell Science</i> , 2003, 116, 1805-1818.	1.2	231
7	Nuclear inclusions in oculopharyngeal muscular dystrophy consist of poly(A) binding protein 2 aggregates which sequester poly(A) RNA. <i>Human Molecular Genetics</i> , 2000, 9, 2321-2328.	1.4	226
8	Vesicular Stomatitis Virus Matrix Protein Inhibits Host Cell Gene Expression by Targeting the Nucleoporin Nup98. <i>Molecular Cell</i> , 2000, 6, 1243-1252.	4.5	226
9	Distinctive Patterns of Transcription and RNA Processing for Human lincRNAs. <i>Molecular Cell</i> , 2017, 65, 25-38.	4.5	222
10	TAP (NXF1) Belongs to a Multigene Family of Putative RNA Export Factors with a Conserved Modular Architecture. <i>Molecular and Cellular Biology</i> , 2000, 20, 8996-9008.	1.1	210
11	The Spinal Muscular Atrophy Disease Gene Product, Smn. <i>Journal of Cell Biology</i> , 1999, 147, 715-728.	2.3	205
12	Splicing enhances recruitment of methyltransferase HYPB/Setd2 and methylation of histone H3 Lys36. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 977-983.	3.6	204
13	Inefficient processing impairs release of RNA from the site of transcription. <i>EMBO Journal</i> , 1999, 18, 2855-2866.	3.5	194
14	Intracellular Macromolecular Mobility Measured by Fluorescence Recovery after Photobleaching with Confocal Laser Scanning Microscopes. <i>Molecular Biology of the Cell</i> , 2004, 15, 4749-4760.	0.9	184
15	Tissue-specific splicing factor gene expression signatures. <i>Nucleic Acids Research</i> , 2008, 36, 4823-4832.	6.5	172
16	The Contribution of Nuclear Compartmentalization to Gene Regulation. <i>Cell</i> , 2002, 108, 513-521.	13.5	171
17	The emerging role of splicing factors in cancer. <i>EMBO Reports</i> , 2008, 9, 1087-1093.	2.0	161
18	Chemical Chaperones Reduce Endoplasmic Reticulum Stress and Prevent Mutant HFE Aggregate Formation. <i>Journal of Biological Chemistry</i> , 2007, 282, 27905-27912.	1.6	150

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19	Live-Cell Visualization of Pre-mRNA Splicing with Single-Molecule Sensitivity. <i>Cell Reports</i> , 2013, 4, 1144-1155.	2.9	149
20	Histone methyltransferase SETD2 coordinates FACT recruitment with nucleosome dynamics during transcription. <i>Nucleic Acids Research</i> , 2013, 41, 2881-2893.	6.5	142
21	Targeting mRNA processing as an anticancer strategy. <i>Nature Reviews Drug Discovery</i> , 2020, 19, 112-129.	21.5	131
22	RNA Polymerase II Phosphorylated on CTD Serine 5 Interacts with the Spliceosome during Co-transcriptional Splicing. <i>Molecular Cell</i> , 2018, 72, 369-379.e4.	4.5	123
23	Clastosome: A Subtype of Nuclear Body Enriched in 19S and 20S Proteasomes, Ubiquitin, and Protein Substrates of Proteasome. <i>Molecular Biology of the Cell</i> , 2002, 13, 2771-2782.	0.9	121
24	Targeting of U2AF65 to Sites of Active Splicing in the Nucleus. <i>Journal of Cell Biology</i> , 1997, 137, 975-987.	2.3	115
25	Precursor RNAs Harboring Nonsense Codons Accumulate Near the Site of Transcription. <i>Molecular Cell</i> , 2001, 8, 33-43.	4.5	115
26	Pervasive transcription read-through promotes aberrant expression of oncogenes and RNA chimeras in renal carcinoma. <i>ELife</i> , 2015, 4, .	2.8	114
27	The intranuclear mobility of messenger RNA binding proteins is ATP dependent and temperature sensitive. <i>Journal of Cell Biology</i> , 2002, 159, 795-805.	2.3	111
28	The rules and roles of nucleocytoplasmic shuttling proteins. <i>FEBS Letters</i> , 2001, 498, 157-163.	1.3	103
29	SUMO-1 Modification Alters ADAR1 Editing Activity. <i>Molecular Biology of the Cell</i> , 2005, 16, 5115-5126.	0.9	102
30	Systematic genome-wide annotation of spliceosomal proteins reveals differential gene family expansion. <i>Genome Research</i> , 2005, 16, 66-77.	2.4	92
31	Deciphering the cellular pathway for transport of poly(A)-binding protein II. <i>Rna</i> , 2000, 6, 245-256.	1.6	91
32	Mammalian NET-seq analysis defines nascent RNA profiles and associated RNA processing genome-wide. <i>Nature Protocols</i> , 2016, 11, 413-428.	5.5	86
33	Transcription Dynamics Prevent RNA-Mediated Genomic Instability through SRPK2-Dependent DDX23 Phosphorylation. <i>Cell Reports</i> , 2017, 18, 334-343.	2.9	86
34	Microinjection of Anti-coilin Antibodies Affects the Structure of Coiled Bodies. <i>Journal of Cell Biology</i> , 1998, 142, 899-912.	2.3	83
35	In vivo recruitment of exon junction complex proteins to transcription sites in mammalian cell nuclei. <i>Rna</i> , 2004, 10, 622-633.	1.6	78
36	Spliceosome assembly is coupled to RNA polymerase II dynamics at the 3' end of human genes. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 1115-1123.	3.6	76

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37	A Reaction-Diffusion Model to Study RNA Motion by Quantitative Fluorescence Recovery after Photobleaching. <i>Biophysical Journal</i> , 2007, 92, 2694-2703.	0.2	71
38	Macromolecular mobility inside the cell nucleus. <i>Trends in Cell Biology</i> , 2002, 12, 491-495.	3.6	70
39	Genome-wide identification of functionally distinct subsets of cellular mRNAs associated with two nucleocytoplasmic-shuttling mammalian splicing factors. <i>Genome Biology</i> , 2006, 7, R113.	13.9	68
40	Chromosomal G-dark Bands Determine the Spatial Organization of Centromeric Heterochromatin in the Nucleus. <i>Molecular Biology of the Cell</i> , 2001, 12, 3563-3572.	0.9	67
41	Stimulation of an Unfolded Protein Response Impairs MHC Class I Expression. <i>Journal of Immunology</i> , 2007, 178, 3612-3619.	0.4	67
42	Localisation of splicing snRNPs in mammalian cells. <i>Molecular Biology Reports</i> , 1993, 18, 127-133.	1.0	66
43	In vivo aggregation properties of the nuclear poly(A)-binding protein PABPN1. <i>Rna</i> , 2005, 11, 752-762.	1.6	65
44	RNA Interference Knockdown of hU2AF35 Impairs Cell Cycle Progression and Modulates Alternative Splicing of Cdc25 Transcripts. <i>Molecular Biology of the Cell</i> , 2006, 17, 4187-4199.	0.9	65
45	Oculopharyngeal muscular dystrophy-like nuclear inclusions are present in normal magnocellular neurosecretory neurons of the hypothalamus. <i>Human Molecular Genetics</i> , 2004, 13, 829-838.	1.4	58
46	The spliceosome: a self-organized macromolecular machine in the nucleus?. <i>Trends in Cell Biology</i> , 2009, 19, 375-384.	3.6	58
47	Hepatitis delta virus ribonucleoproteins shuttle between the nucleus and the cytoplasm. <i>Rna</i> , 2002, 8, 637-646.	1.6	57
48	In Vivo Requirement of the Small Subunit of U2AF for Recognition of a Weak 5' Splice Site. <i>Molecular and Cellular Biology</i> , 2006, 26, 8183-8190.	1.1	56
49	A Stochastic View of Spliceosome Assembly and Recycling in the Nucleus. <i>PLoS Computational Biology</i> , 2007, 3, e201.	1.5	56
50	A link between nuclear RNA surveillance, the human exosome and RNA polymerase II transcriptional termination. <i>Nucleic Acids Research</i> , 2010, 38, 8015-8026.	6.5	55
51	Unconstrained mining of transcript data reveals increased alternative splicing complexity in the human transcriptome. <i>Nucleic Acids Research</i> , 2010, 38, 4740-4754.	6.5	55
52	Identification of Two Novel RanGTP-binding Proteins Belonging to the Importin β^2 Superfamily. <i>Journal of Biological Chemistry</i> , 2000, 275, 40163-40168.	1.6	54
53	POINT technology illuminates the processing of polymerase-associated intact nascent transcripts. <i>Molecular Cell</i> , 2021, 81, 1935-1950.e6.	4.5	52
54	New clues to the function of the Cajal body. <i>EMBO Reports</i> , 2002, 3, 726-727.	2.0	51

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55	Design principles of interconnections between chromatin and pre-mRNA splicing. <i>Trends in Biochemical Sciences</i> , 2012, 37, 248-253.	3.7	49
56	Silencing of the lncRNA Zeb2-NAT facilitates reprogramming of aged fibroblasts and safeguards stem cell pluripotency. <i>Nature Communications</i> , 2018, 9, 94.	5.8	49
57	Depletion of the Yeast Nuclear Exosome Subunit Rps6 Results in Accumulation of Polyadenylated RNAs in a Discrete Domain within the Nucleolus. <i>Molecular and Cellular Biology</i> , 2007, 27, 4157-4165.	1.1	48
58	Diversity of Vertebrate Splicing Factor U2AF35. <i>Journal of Biological Chemistry</i> , 2004, 279, 27039-27049.	1.6	47
59	The CTD role in cotranscriptional RNA processing and surveillance. <i>FEBS Letters</i> , 2008, 582, 1971-1976.	1.3	46
60	Nucleocytoplasmic Shuttling of Heterodimeric Splicing Factor U2AF. <i>Journal of Biological Chemistry</i> , 2001, 276, 13104-13112.	1.6	45
61	Characterization of a Helicase-Like Transcription Factor Involved in the Expression of the Human Plasminogen Activator Inhibitor-1 Gene. <i>DNA and Cell Biology</i> , 1996, 15, 429-442.	0.9	44
62	Triplet repeats, RNA secondary structure and toxic gain-of-function models for pathogenesis. <i>Brain Research Bulletin</i> , 2001, 56, 191-201.	1.4	42
63	Hsp70 Chaperones and Type I PRMTs Are Sequestered at Intranuclear Inclusions Caused by Polyalanine Expansions in PABPN1. <i>PLoS ONE</i> , 2009, 4, e6418.	1.1	42
64	Dynamic transitions in RNA polymerase II density profiles during transcription termination. <i>Genome Research</i> , 2012, 22, 1447-1456.	2.4	42
65	Co-transcriptional splicing and the CTD code. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2016, 51, 395-411.	2.3	42
66	Splicing Factors SF1 and U2AF Associate in Extraspliosomal Complexes. <i>Molecular and Cellular Biology</i> , 2008, 28, 3045-3057.	1.1	40
67	Diversity of human U2AF splicing factors.. <i>FEBS Journal</i> , 2006, 273, 4807-4816.	2.2	38
68	Cytokeratin filaments are present in golden hamster oocytes and early embryos. <i>Differentiation</i> , 1989, 42, 1-9.	1.0	37
69	Localization of hepatitis delta virus RNA in the nucleus of human cells. <i>Rna</i> , 1998, 4, 680-693.	1.6	33
70	The spatial distribution of human immunoglobulin genes within the nucleus: evidence for gene topography independent of cell type and transcriptional activity. <i>Human Genetics</i> , 1997, 100, 588-594.	1.8	30
71	Splicing- and cleavage-independent requirement of RNA polymerase II CTD for mRNA release from the transcription site. <i>Journal of Cell Biology</i> , 2007, 179, 199-207.	2.3	28
72	Reciprocal regulatory links between cotranscriptional splicing and chromatin. <i>Seminars in Cell and Developmental Biology</i> , 2014, 32, 2-10.	2.3	27

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73	Gene architecture directs splicing outcome in separate nuclear spatial regions. <i>Molecular Cell</i> , 2022, 82, 1021-1034.e8.	4.5	26
74	Pharmacological inhibition of the spliceosome subunit SF3b triggers EJC-independent NMD. <i>Journal of Cell Science</i> , 2017, 130, 1519-1531.	1.2	25
75	Design Principles for Pluripotent Stem Cell-Derived Organoid Engineering. <i>Stem Cells International</i> , 2019, 2019, 1-17.	1.2	25
76	Cryptic Splice-Altering Variants in <i>MYBPC3</i> Are a Prevalent Cause of Hypertrophic Cardiomyopathy. <i>Circulation Genomic and Precision Medicine</i> , 2020, 13, e002905.	1.6	23
77	RNA seeds nuclear bodies. <i>Nature Cell Biology</i> , 2011, 13, 110-112.	4.6	21
78	Frontiers in fluorescence microscopy. <i>International Journal of Developmental Biology</i> , 2009, 53, 1569-1579.	0.3	19
79	Orphan Nuclear Bodies. <i>Cold Spring Harbor Perspectives in Biology</i> , 2010, 2, a000703-a000703.	2.3	19
80	The Topography of Chromosomes and Genes in the Nucleus. <i>Experimental Cell Research</i> , 1996, 229, 247-252.	1.2	18
81	The timing of pre-mRNA splicing visualized in real-time. <i>Nucleus</i> , 2014, 5, 11-14.	0.6	18
82	Regulation of adenovirus alternative RNA splicing correlates with a reorganization of splicing factors in the nucleus. <i>Experimental Cell Research</i> , 2003, 289, 77-85.	1.2	16
83	RNA Splicing Defects in Hypertrophic Cardiomyopathy: Implications for Diagnosis and Therapy. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1329.	1.8	15
84	Differential Isoform Expression and Interaction with the P32 Regulatory Protein Controls the Subcellular Localization of the Splicing Factor U2AF26. <i>Journal of Biological Chemistry</i> , 2008, 283, 19636-19645.	1.6	14
85	Nuclear morphogenesis and the onset of transcriptional activity in early hamster embryos. <i>Chromosoma</i> , 1996, 105, 1-11.	1.0	12
86	Smaug1 membrane-less organelles respond to AMPK and mTOR and affect mitochondrial function. <i>Journal of Cell Science</i> , 2022, 135, .	1.2	12
87	Studies on the role of NonA in mRNA biogenesis. <i>Experimental Cell Research</i> , 2006, 312, 2619-2630.	1.2	11
88	Analysis of Mammalian Native Elongating Transcript sequencing (mNET-seq) high-throughput data. <i>Methods</i> , 2020, 178, 89-95.	1.9	11
89	Transcription and splicing dynamics during early <i>Drosophila</i> development. <i>Rna</i> , 2022, 28, 139-161.	1.6	11
90	Imaging dynamic interactions between spliceosomal proteins and pre-mRNA in living cells. <i>Methods</i> , 2014, 65, 359-366.	1.9	10

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91	How genes find their way inside the cell nucleus. <i>Journal of Cell Biology</i> , 2007, 179, 1093-1094.	2.3	9
92	N-glycosylation is important for the correct intracellular localization of HFE and its ability to decrease cell surface transferrin binding. <i>FEBS Journal</i> , 2010, 277, 3219-3234.	2.2	9
93	Cytokeratin in early hamster embryogenesis and parthenogenesis: reorganization during mitosis and association with clusters of interchromatinlike granules. <i>Differentiation</i> , 1991, 48, 67-74.	1.0	8
94	Inactivation of Cleavage Factor I Components Rna14p and Rna15p Induces Sequestration of Small Nucleolar Ribonucleoproteins at Discrete Sites in the Nucleus. <i>Molecular Biology of the Cell</i> , 2008, 19, 1499-1508.	0.9	8
95	Transcription-coupled RNA surveillance in human genetic diseases caused by splice site mutations. <i>Human Molecular Genetics</i> , 2015, 24, 2784-2795.	1.4	8
96	Quality control of gene expression in the nucleus. <i>Journal of Cellular and Molecular Medicine</i> , 2001, 5, 267-275.	1.6	7
97	Photobleaching Microscopy Reveals the Dynamics of mRNA-Binding Proteins Inside Live Cell Nuclei. <i>Progress in Molecular and Subcellular Biology</i> , 2008, 35, 119-134.	0.9	7
98	Alternative Splicing and Cancer. <i>Journal of Nucleic Acids</i> , 2012, 2012, 1-2.	0.8	6
99	Understanding nuclear order. <i>Trends in Biochemical Sciences</i> , 2002, 27, 332-334.	3.7	5
100	A single RNA recognition motif in splicing factor ASF/SF2 directs it to nuclear sites of adenovirus transcription. <i>Journal of General Virology</i> , 2004, 85, 603-608.	1.3	5
101	Abundance of the largest subunit of RNA polymerase II in the nucleus is regulated by nucleo-cytoplasmic shuttling. <i>Experimental Cell Research</i> , 2006, 312, 2557-2567.	1.2	5
102	Cotranscriptional RNA checkpoints. <i>Epigenomics</i> , 2010, 2, 449-455.	1.0	5
103	STaQTool: Spot tracking and quantification tool for monitoring splicing of single pre-mRNA molecules in living cells. <i>Methods</i> , 2016, 98, 143-149.	1.9	5
104	Semithin cryosections as a tool to perform high resolution immunofluorescence and in situ hybridization analysis of the nervous tissue: a study in the supraoptic nucleus. <i>Journal of Neuroscience Methods</i> , 1997, 75, 137-145.	1.3	4
105	Single-Molecule Imaging of RNA Splicing in Live Cells. <i>Methods in Enzymology</i> , 2015, 558, 571-585.	0.4	4
106	Nuclear Organization and Splicing Control. <i>Advances in Experimental Medicine and Biology</i> , 2007, 623, 1-13.	0.8	4
107	Interactions of adenovirus with the nucleus of the host cell. <i>Reviews in Medical Virology</i> , 1995, 5, 213-218.	3.9	3
108	Expression Profiling in Ovarian Cancer Reveals Coordinated Regulation of BRCA1/2 and Homologous Recombination Genes. <i>Biomedicines</i> , 2022, 10, 199.	1.4	3

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109	Follow that Messenger: Live-Imaging a Journey out of the Nucleus. <i>Developmental Cell</i> , 2010, 18, 880-882.	3.1	2
110	Single-Molecule Live-Cell Visualization of Pre-mRNA Splicing. <i>Methods in Molecular Biology</i> , 2016, 1358, 335-350.	0.4	2
111	Nuclear morphogenesis and the onset of transcriptional activity in early hamster embryos. <i>Chromosoma</i> , 1996, 105, 1-11.	1.0	2
112	The Potential of Targeting Splicing for Cancer Therapy. <i>Cancer Drug Discovery and Development</i> , 2014, , 313-336.	0.2	1
113	RNA imaging: seeing is believing. <i>Rna</i> , 2015, 21, 580-581.	1.6	1
114	Pseudouridylation: A new player in co-transcriptional splicing regulation. <i>Molecular Cell</i> , 2022, 82, 495-496.	4.5	1
115	In Situ Hybridization for Simultaneous Detection of DNA, RNA, and Protein. , 2006, , 419-427.		0
116	Quantitative Image Analysis of Single-Molecule mRNA Dynamics in Living Cells. <i>Methods in Molecular Biology</i> , 2017, 1563, 229-242.	0.4	0
117	Nuclear Organization of snRNPs and Splicing Factors. <i>Molecular Biology Intelligence Unit</i> , 1995, , 163-171.	0.2	0