Edouard Bertrand

List of Publications by Year in descending order

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133 papers

15,342 citations

28274 55 h-index 117 g-index

150 all docs

150 docs citations

150 times ranked

14995 citing authors

#	Article	IF	Citations
1	The interaction between RPAP3 and TRBP reveals a possible involvement of the HSP90/R2TP chaperone complex in the regulation of miRNA activity. Nucleic Acids Research, 2022, 50, 2172-2189.	14.5	4
2	FISH-quant v2: a scalable and modular tool for smFISH image analysis. Rna, 2022, 28, 786-795.	3.5	45
3	GOLT1B Activation in Hepatitis C Virus-Infected Hepatocytes Links ER Trafficking and Viral Replication. Pathogens, 2022, 11, 46.	2.8	O
4	RNA transport from transcription to localized translation: a single molecule perspective. RNA Biology, 2021, 18, 1-17.	3.1	14
5	The box C/D snoRNP assembly factor Bcd1 interacts with the histone chaperone Rtt106 and controls its transcription dependent activity. Nature Communications, 2021, 12, 1859.	12.8	3
6	A choreography of centrosomal mRNAs reveals a conserved localization mechanism involving active polysome transport. Nature Communications, 2021, 12, 1352.	12.8	52
7	Exon junction complex dependent mRNA localization is linked to centrosome organization during ciliogenesis. Nature Communications, 2021, 12, 1351.	12.8	35
8	Non-canonical argonaute loading of extracellular vesicle-derived exogenous single-stranded miRNA in recipient cells. Journal of Cell Science, 2021, 134 , .	2.0	14
9	Live-cell imaging reveals the spatiotemporal organization of endogenous RNA polymerase II phosphorylation at a single gene. Nature Communications, 2021, 12, 3158.	12.8	36
10	TSSC4 is a component of U5 snRNP that promotes tri-snRNP formation. Nature Communications, 2021, 12, 3646.	12.8	14
11	Stochastic pausing at latent HIV-1 promoters generates transcriptional bursting. Nature Communications, 2021, 12, 4503.	12.8	38
12	Quantitative imaging of transcription in living Drosophila embryos reveals the impact of core promoter motifs on promoter state dynamics. Nature Communications, 2021, 12, 4504.	12.8	39
13	The HSP90/R2TP assembly chaperone promotes cell proliferation in the intestinal epithelium. Nature Communications, 2021, 12, 4810.	12.8	7
14	Live single-cell transcriptional dynamics via RNA labelling during the phosphate response in plants. Nature Plants, 2021, 7, 1050-1064.	9.3	27
15	The kinesin KIF1C transports APC-dependent mRNAs to cell protrusions. Rna, 2021, 27, 1528-1544.	3.5	23
16	NOPCHAP1 is a PAQosome cofactor that helps loading NOP58 on RUVBL1/2 during box C/D snoRNP biogenesis. Nucleic Acids Research, 2021, 49, 1094-1113.	14.5	14
17	First Responders Shape a Prompt and Sharp NF-κB-Mediated Transcriptional Response to TNF-α. IScience, 2020, 23, 101529.	4.1	11
18	A Dual Protein-mRNA Localization Screen Reveals Compartmentalized Translation and Widespread Co-translational RNA Targeting. Developmental Cell, 2020, 54, 773-791.e5.	7.0	88

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19	New Generations of MS2 Variants and MCP Fusions to Detect Single mRNAs in Living Eukaryotic Cells. Methods in Molecular Biology, 2020, 2166, 121-144.	0.9	21
20	A Deep Learning Approach To Identify MRNA Localization Patterns., 2019,,.		3
21	Live cell imaging reveals 3′-UTR dependent mRNA sorting to synapses. Nature Communications, 2019, 10, 3178.	12.8	35
22	Meg3 Non-coding RNA Expression Controls Imprinting by Preventing Transcriptional Upregulation in cis. Cell Reports, 2018, 23, 337-348.	6.4	54
23	The PAQosome, an R2TP-Based Chaperone for Quaternary Structure Formation. Trends in Biochemical Sciences, 2018, 43, 4-9.	7.5	67
24	A computational framework to study sub-cellular RNA localization. Nature Communications, 2018, 9, 4584.	12.8	47
25	The RPAP3-Cterminal domain identifies R2TP-like quaternary chaperones. Nature Communications, 2018, 9, 2093.	12.8	59
26	A Growing Toolbox to Image Gene Expression in Single Cells: Sensitive Approaches for Demanding Challenges. Molecular Cell, 2018, 71, 468-480.	9.7	149
27	Deep Structural Analysis of RPAP3 and PIH1D1, Two Components of the HSP90 Co-chaperone R2TP Complex. Structure, 2018, 26, 1196-1209.e8.	3.3	36
28	The Role of Supercoiling in the Motor Activity of RNA Polymerases. Methods in Molecular Biology, 2018, 1805, 215-232.	0.9	14
29	The splicing factor SRSF3 is functionally connected to the nuclear RNA exosome for intronless mRNA decay. Scientific Reports, 2018, 8, 12901.	3.3	23
30	Assembly of the U5 snRNP component PRPF8 is controlled by the HSP90/R2TP chaperones. Journal of Cell Biology, 2017, 216, 1579-1596.	5.2	65
31	Mutually Exclusive CBC-Containing Complexes Contribute to RNA Fate. Cell Reports, 2017, 18, 2635-2650.	6.4	73
32	ARS2 is a general suppressor of pervasive transcription. Nucleic Acids Research, 2017, 45, 10229-10241.	14.5	53
33	P-Body Purification Reveals the Condensation of Repressed mRNA Regulons. Molecular Cell, 2017, 68, 144-157.e5.	9.7	581
34	Assembly and trafficking of box C/D and H/ACA snoRNPs. RNA Biology, 2017, 14, 680-692.	3.1	144
35	The in vivo dynamics of TCERG1, a factor that couples transcriptional elongation with splicing. Rna, 2016, 22, 571-582.	3.5	13
36	Visualization of single endogenous polysomes reveals the dynamics of translation in live human cells. Journal of Cell Biology, 2016, 214, 769-781.	5.2	158

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37	Imaging HIV-1 RNA dimerization in cells by multicolor super-resolution and fluctuation microscopies. Nucleic Acids Research, 2016, 44, 7922-7934.	14.5	35
38	smiFISH and FISH-quant – a flexible single RNA detection approach with super-resolution capability. Nucleic Acids Research, 2016, 44, e165-e165.	14.5	312
39	A single-molecule view of transcription reveals convoys of RNA polymerases and multi-scale bursting. Nature Communications, 2016, 7, 12248.	12.8	233
40	NUFIP and the HSP90/R2TP chaperone bind the SMN complex and facilitate assembly of U4-specific proteins. Nucleic Acids Research, 2015, 43, 8973-8989.	14.5	49
41	Long lasting control of viral rebound with a new drug ABX464 targeting Rev – mediated viral RNA biogenesis. Retrovirology, 2015, 12, 30.	2.0	78
42	SnoRNPs, ZNHIT proteins and the R2TP pathway. Oncotarget, 2015, 6, 41399-41400.	1.8	13
43	Hypermethylated-capped selenoprotein mRNAs in mammals. Nucleic Acids Research, 2014, 42, 8663-8677.	14.5	45
44	Characterization of the interaction between protein Snu13p/15.5K and the Rsa1p/NUFIP factor and demonstration of its functional importance for snoRNP assembly. Nucleic Acids Research, 2014, 42, 2015-2036.	14.5	34
45	Proteomic and 3D structure analyses highlight the C/D box snoRNP assembly mechanism and its control. Journal of Cell Biology, 2014, 207, 463-480.	5.2	57
46	Stable assembly of HIV-1 export complexes occurs cotranscriptionally. Rna, 2014, 20, 1-8.	3.5	33
47	MLN51 triggers P-body disassembly and formation of a new type of RNA granules. Journal of Cell Science, 2014, 127, 4692-701.	2.0	18
48	Drosophila Spag Is the Homolog of RNA Polymerase II-associated Protein 3 (RPAP3) and Recruits the Heat Shock Proteins 70 and 90 (Hsp70 and Hsp90) during the Assembly of Cellular Machineries. Journal of Biological Chemistry, 2014, 289, 6236-6247.	3.4	41
49	Genome-wide identification of mRNAs associated with the protein SMN whose depletion decreases their axonal localization. Rna, 2013, 19, 1755-1766.	3.5	52
50	The human cap-binding complex is functionally connected to the nuclear RNA exosome. Nature Structural and Molecular Biology, 2013, 20, 1367-1376.	8.2	199
51	FISH-quant: automatic counting of transcripts in 3D FISH images. Nature Methods, 2013, 10, 277-278.	19.0	338
52	CBCâ \in ARS2 stimulates 3 â \in 2-end maturation of multiple RNA families and favors cap-proximal processing. Nature Structural and Molecular Biology, 2013, 20, 1358-1366.	8.2	143
53	Retroviral GAG proteins recruit AGO2 on viral RNAs without affecting RNA accumulation and translation. Nucleic Acids Research, 2012, 40, 775-786.	14.5	32
54	CRM1 plays a nuclear role in transporting snoRNPs to nucleoli in higher eukaryotes. Nucleus, 2012, 3, 132-137.	2.2	25

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55	HSP90 and the R2TP co-chaperone complex: Building multi-protein machineries essential for cell growth and gene expression. RNA Biology, 2012, 9, 148-154.	3.1	57
56	Microprocessor dynamics and interactions at endogenous imprinted C19MC microRNA genes. Journal of Cell Science, 2012, 125, 2709-20.	2.0	18
57	Perispeckles are major assembly sites for the exon junction core complex. Molecular Biology of the Cell, 2012, 23, 1765-1782.	2.1	56
58	Nuclear Retention Prevents Premature Cytoplasmic Appearance of mRNA. Molecular Cell, 2012, 48, 145-152.	9.7	28
59	Real-time imaging of the HIV-1 transcription cycle in single living cells. Methods, 2011, 53, 62-67.	3.8	27
60	CRM1 controls the composition of nucleoplasmic pre-snoRNA complexes to licence them for nucleolar transport. EMBO Journal, 2011, 30, 2205-2218.	7.8	36
61	Real-time imaging of cotranscriptional splicing reveals a kinetic model that reduces noise: implications for alternative splicing regulation. Journal of Cell Biology, 2011, 193, 819-829.	5.2	104
62	Establishment of a Protein Frequency Library and Its Application in the Reliable Identification of Specific Protein Interaction Partners. Molecular and Cellular Proteomics, 2010, 9, 861-879.	3.8	63
63	Splicing-independent recruitment of U1 snRNP to a transcription unit in living cells. Journal of Cell Science, 2010, 123, 2085-2093.	2.0	59
64	RiboSys, a high-resolution, quantitative approach to measure the in vivo kinetics of pre-mRNA splicing and 3′-end processing in <i>Saccharomyces cerevisiae</i> . Rna, 2010, 16, 2570-2580.	3.5	48
65	A Proteomic Screen for Nucleolar SUMO Targets Shows SUMOylation Modulates the Function of Nop5/Nop58. Molecular Cell, 2010, 39, 618-631.	9.7	72
66	HSP90 and Its R2TP/Prefoldin-like Cochaperone Are Involved in the Cytoplasmic Assembly of RNA Polymerase II. Molecular Cell, 2010, 39, 912-924.	9.7	246
67	Crosstalk between mRNA 3′ End Processing andÂTranscription Initiation. Molecular Cell, 2010, 40, 410-422.	9.7	153
68	Processivity and Coupling in Messenger RNA Transcription. PLoS ONE, 2010, 5, e8845.	2.5	3
69	Endosomal Trafficking of HIV-1 Gag and Genomic RNAs Regulates Viral Egress. Journal of Biological Chemistry, 2009, 284, 19727-19743.	3.4	57
70	Assembly of an Export-Competent mRNP is Needed for Efficient Release of the 3′-End Processing Complex after Polyadenylation. Molecular and Cellular Biology, 2009, 29, 5327-5338.	2.3	58
71	DNA Damage Regulates Alternative Splicing through Inhibition of RNA Polymerase II Elongation. Cell, 2009, 137, 708-720.	28.9	267
72	DNA Damage Regulates Alternative Splicing through Inhibition of RNA Polymerase II Elongation. Cell, 2009, 139, 211.	28.9	1

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73	Mutations in a small region of the exportin Crm1p disrupt the daughter cellâ€specific nuclear localization of the transcription factor Ace2p in <i>Saccharomyces cerevisiae</i> . Biology of the Cell, 2008, 100, 343-354.	2.0	22
74	Dendrites of Mammalian Neurons Contain Specialized P-Body-Like Structures That Respond to Neuronal Activation. Journal of Neuroscience, 2008, 28, 13793-13804.	3.6	153
75	Characterization of a Short Isoform of Human Tgs1 Hypermethylase Associating with Small Nucleolar Ribonucleoprotein Core Proteins and Produced by Limited Proteolytic Processing. Journal of Biological Chemistry, 2008, 283, 2060-2069.	3.4	39
76	A Novel Role for PA28Î ³ -Proteasome in Nuclear Speckle Organization and SR Protein Trafficking. Molecular Biology of the Cell, 2008, 19, 1706-1716.	2.1	63
77	The Hsp90 chaperone controls the biogenesis of L7Ae RNPs through conserved machinery. Journal of Cell Biology, 2008, 180, 579-595.	5.2	196
78	Translationally Repressed mRNA Transiently Cycles through Stress Granules during Stress. Molecular Biology of the Cell, 2008, 19, 4469-4479.	2.1	197
79	Assembly and Traffic of Small Nuclear RNPs. Progress in Molecular and Subcellular Biology, 2008, 35, 79-97.	1.6	13
80	Imaging of Single mRNAs in the Cytoplasm of Living Cells. Progress in Molecular and Subcellular Biology, 2008, 35, 135-150.	1.6	16
81	Inhibition of nonsense-mediated mRNA decay (NMD) by a new chemical molecule reveals the dynamic of NMD factors in P-bodies. Journal of Cell Biology, 2007, 178, 1145-1160.	5.2	147
82	Bsr, a Nuclear-retained RNA with Monoallelic Expression. Molecular Biology of the Cell, 2007, 18, 2817-2827.	2.1	29
83	The transcriptional cycle of HIV-1 in real-time and live cells. Journal of Cell Biology, 2007, 179, 291-304.	5.2	174
84	The exon-junction-complex-component metastatic lymph node 51 functions in stress-granule assembly. Journal of Cell Science, 2007, 120, 2774-2784.	2.0	69
85	A Dynamic Scaffold of Pre-snoRNP Factors Facilitates Human Box C/D snoRNP Assembly. Molecular and Cellular Biology, 2007, 27, 6782-6793.	2.3	83
86	The Clathrin Adaptor Complex AP-1 Binds HIV-1 and MLV Gag and Facilitates Their Budding. Molecular Biology of the Cell, 2007, 18, 3193-3203.	2.1	89
87	A real-time view of the TAR:Tat:P-TEFb complex at HIV-1 transcription sites. Retrovirology, 2007, 4, 36.	2.0	48
88	Suv39H1 and HP1 \hat{l}^3 are responsible for chromatin-mediated HIV-1 transcriptional silencing and post-integration latency. EMBO Journal, 2007, 26, 424-435.	7.8	281
89	The transcriptional cycle of HIV-1 in real-time and live cells. Journal of Experimental Medicine, 2007, 204, i25-i25.	8.5	0
90	Photobleaching of YFP does not produce a CFP-like species that affects FRET measurements. Nature Methods, 2006, 3, 492-493.	19.0	9

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91	The exonuclease ISG20 mainly localizes in the nucleolus and the Cajal (Coiled) bodies and is associated with nuclear SMN protein-containing complexes. Journal of Cellular Biochemistry, 2006, 98, 1320-1333.	2.6	30
92	Depletion of SMN by RNA interference in HeLa cells induces defects in Cajal body formation. Nucleic Acids Research, 2006, 34, 2925-2932.	14.5	59
93	Cell Cycle-dependent Recruitment of Telomerase RNA and Cajal Bodies to Human Telomeres. Molecular Biology of the Cell, 2006, 17, 944-954.	2.1	168
94	Photoconversion of YFP into a CFP-like species during acceptor photobleaching FRET experiments. Nature Methods, 2005, 2, 801-801.	19.0	108
95	Tsg101 and Alix Interact with Murine Leukemia Virus Gag and Cooperate with Nedd4 Ubiquitin Ligases during Budding. Journal of Biological Chemistry, 2005, 280, 27004-27012.	3.4	86
96	ADAR2-mediated editing of RNA substrates in the nucleolus is inhibited by C/D small nucleolar RNAs. Journal of Cell Biology, 2005, 169, 745-753.	5.2	223
97	Inhibition of Translational Initiation by Let-7 MicroRNA in Human Cells. Science, 2005, 309, 1573-1576.	12.6	1,247
98	The Packaging Signal of MLV is an Integrated Module that Mediates Intracellular Transport of Genomic RNAs. Journal of Molecular Biology, 2005, 354, 330-339.	4.2	28
99	A cotranscriptional model for 3′-end processing of the <i>Saccharomyces cerevisiae</i> pre-ribosomal RNA precursor. Rna, 2004, 10, 1572-1585.	3.5	23
100	Human Box H/ACA Pseudouridylation Guide RNA Machinery. Molecular and Cellular Biology, 2004, 24, 5797-5807.	2.3	180
101	Human telomerase RNA and box H/ACA scaRNAs share a common Cajal body–specific localization signal. Journal of Cell Biology, 2004, 164, 647-652.	5. 2	248
102	Nuclear localization properties of a conserved protuberance in the Sm core complex. Experimental Cell Research, 2004, 299, 199-208.	2.6	27
103	PHAX and CRM1 Are Required Sequentially to Transport U3 snoRNA to Nucleoli. Molecular Cell, 2004, 16, 777-787.	9.7	157
104	From Silencing to Gene Expression. Cell, 2004, 116, 683-698.	28.9	658
105	Modification of Sm small nuclear RNAs occurs in the nucleoplasmic Cajal body following import from the cytoplasm. EMBO Journal, 2003, 22, 1878-1888.	7.8	213
106	A common sequence motif determines the Cajal body-specific localization of box H/ACA scaRNAs. EMBO Journal, 2003, 22, 4283-4293.	7.8	181
107	Single mRNA Molecules Demonstrate Probabilistic Movement in Living Mammalian Cells. Current Biology, 2003, 13, 161-167.	3.9	529
108	Interaction between the smallâ€nuclearâ€RNA cap hypermethylase and the spinal muscular atrophy protein, survival of motor neuron. EMBO Reports, 2003, 4, 616-622.	4.5	96

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109	Retroviral Genomic RNAs Are Transported to the Plasma Membrane by Endosomal Vesicles. Developmental Cell, 2003, 5, 161-174.	7.0	138
110	Human let-7 stem-loop precursors harbor features of RNase III cleavage products. Nucleic Acids Research, 2003, 31, 6593-6597.	14.5	131
111	The RasGAP-associated endoribonuclease G3BP assembles stress granules. Journal of Cell Biology, 2003, 160, 823-831.	5. 2	790
112	Exportin-5 Mediates Nuclear Export of Minihelix-containing RNAs. Journal of Biological Chemistry, 2003, 278, 5505-5508.	3.4	139
113	A Cajal body-specific pseudouridylation guide RNA is composed of two box H/ACA snoRNA-like domains. Nucleic Acids Research, 2002, 30, 4643-4649.	14.5	102
114	An active precursor in assembly of yeast nuclear ribonuclease P. Rna, 2002, 8, 1348-1360.	3.5	30
115	Hypermethylation of the Cap Structure of Both Yeast snRNAs and snoRNAs Requires a Conserved Methyltransferase that Is Localized to the Nucleolus. Molecular Cell, 2002, 9, 891-901.	9.7	222
116	Intra-nuclear RNA trafficking: insights from live cell imaging. Biochimie, 2002, 84, 805-813.	2.6	21
117	Mammalian and yeast U3 snoRNPs are matured in specific and related nuclear compartments. EMBO Journal, 2002, 21, 2736-2745.	7.8	167
118	Cajal body-specific small nuclear RNAs: a novel class of 2'-O-methylation and pseudouridylation guide RNAs. EMBO Journal, 2002, 21, 2746-2756.	7.8	417
119	Box C/D small nucleolar RNA trafficking involves small nucleolar RNP proteins, nucleolar factors and a novel nuclear domain. EMBO Journal, 2001, 20, 5480-5490.	7.8	98
120	A Well-Connected and Conserved Nucleoplasmic Helicase Is Required for Production of Box C/D and H/ACA snoRNAs and Localization of snoRNP Proteins. Molecular and Cellular Biology, 2001, 21, 7731-7746.	2.3	104
121	Terminal Minihelix, a Novel RNA Motif That Directs Polymerase III Transcripts to the Cell Cytoplasm. Journal of Biological Chemistry, 2001, 276, 25910-25918.	3.4	36
122	[33] Sensitive and high-resolution detection of RNA in situ. Methods in Enzymology, 2000, 318, 493-506.	1.0	51
123	mRNA localization signals can enhance the intracellular effectiveness of hammerhead ribozymes. Rna, 1999, 5, 1200-1209.	3.5	35
124	Localization of ASH1 mRNA Particles in Living Yeast. Molecular Cell, 1998, 2, 437-445.	9.7	1,475
125	3′-End Modification of the Adenoviral <i>VA1</i> Consequences for the Design of Chimeric VA1 RNA Ribozymes. Oligonucleotides, 1998, 8, 379-390.	4.3	4
126	Monitoring Retroviral RNA Dimerization In Vivo via Hammerhead Ribozyme Cleavage. Journal of Virology, 1998, 72, 8349-8353.	3.4	20

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127	Detection of Ribozyme Cleavage Products Using Reverse Ligation-Mediated PCR (RL-PCR)., 1997, 74, 311-324.		7
128	In Vivo Footprinting of the Interaction of Proteins with DNA and RNA. Advances in Molecular and Cell Biology, 1997, , 73-109.	0.1	2
129	In VivoFootprinting of the Interaction of Proteins with DNA and RNA. Methods, 1997, 11, 151-163.	3.8	36
130	Can hammerhead ribozymes be efficient tools to inactivate gene function?. Nucleic Acids Research, 1994, 22, 293-300.	14.5	141
131	Designing and Testing of Ribozymes as Therapeutic Agents. Methods, 1993, 5, 19-27.	3.8	4
132	A highly sensitive method for mapping the 5′ termini of mRNAs. Nucleic Acids Research, 1993, 21, 1683-1684.	14.5	98
133	A Localization Screen Reveals Translation Factories and Widespread Co-Translational Protein Targeting. SSRN Electronic Journal, 0, , .	0.4	1