StÃ©phane Richard

List of Publications by Year
in descending order

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133	12,444	23567	26613
papers	citations	58 h-index	107 g-index

142	142	142	13025
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Arginine Methylation. Molecular Cell, 2005, 18, 263-272.	9.7	1,002
2	Arginine Methylation: The Coming of Age. Molecular Cell, 2017, 65, 8-24.	9.7	720
3	RNA-binding proteins in human genetic disease. Trends in Genetics, 2008, 24, 416-425.	6.7	583
4	Defining the RGG/RG Motif. Molecular Cell, 2013, 50, 613-623.	9.7	512
5	The regulation, functions and clinical relevance of arginine methylation. Nature Reviews Molecular Cell Biology, 2019, 20, 642-657.	37.0	364
6	Sam68 sequestration and partial loss of function are associated with splicing alterations in FXTAS patients. EMBO Journal, 2010, 29, 1248-1261.	7.8	326
7	A Proteomic Analysis of Arginine-methylated Protein Complexes. Molecular and Cellular Proteomics, 2003, 2, 1319-1330.	3.8	323
8	RNF8- and RNF168-dependent degradation of KDM4A/JMJD2A triggers 53BP1 recruitment to DNA damage sites. EMBO Journal, 2012, 31, 1865-1878.	7.8	302
9	Target RNA motif and target mRNAs of the Quaking STAR protein. Nature Structural and Molecular Biology, 2005, 12, 691-698.	8.2	240
10	SAM68 Regulates Neuronal Activity-Dependent Alternative Splicing of Neurexin-1. Cell, 2011, 147, 1601-1614.	28.9	240
11	Sam68 RNA Binding Protein Is an In Vivo Substrate for Protein ArginineN-Methyltransferase 1. Molecular Biology of the Cell, 2003, 14, 274-287.	2.1	237
12	Tudor Domains Bind Symmetrical Dimethylated Arginines. Journal of Biological Chemistry, 2005, 280, 28476-28483.	3.4	218
13	Arginine Methylation Inhibits the Binding of Proline-rich Ligands to Src Homology 3, but Not WW, Domains. Journal of Biological Chemistry, 2000, 275, 16030-16036.	3.4	208
14	Emerging Roles of Disordered Sequences in RNA-Binding Proteins. Trends in Biochemical Sciences, 2015, 40, 662-672.	7.5	195
15	Arginine methylation of MRE11 by PRMT1 is required for DNA damage checkpoint control. Genes and Development, 2005, 19, 671-676.	5.9	181
16	Methylation of Tat by PRMT6 Regulates Human Immunodeficiency Virus Type 1 Gene Expression. Journal of Virology, 2005, 79, 124-131.	3.4	179
17	Arginine methylation by PRMT1 regulates nuclear-cytoplasmic localization and toxicity of FUS/TLS harbouring ALS-linked mutations. Human Molecular Genetics, 2012, 21, 136-149.	2.9	176
18	Symmetrical dimethylarginine methylation is required for the localization of SMN in Cajal bodies and pre-mRNA splicing. Journal of Cell Biology, 2002, 159, 957-969.	5.2	175

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19	Loss of the major Type I arginine methyltransferase PRMT1 causes substrate scavenging by other PRMTs. Scientific Reports, 2013, 3, 1311.	3.3	173
20	Arginine Methylation of the Histone H3 Tail Impedes Effector Binding. Journal of Biological Chemistry, 2008, 283, 3006-3010.	3.4	167
21	Sam68, the KH domain-containing superSTAR. Biochimica Et Biophysica Acta: Reviews on Cancer, 2003, 1653, 73-86.	7.4	162
22	A Mouse PRMT1 Null Allele Defines an Essential Role for Arginine Methylation in Genome Maintenance and Cell Proliferation. Molecular and Cellular Biology, 2009, 29, 2982-2996.	2.3	160
23	A protein-domain microarray identifies novel proteinâ€“protein interactions. Biochemical Journal, 2002, 367, 697-702.	3.7	158
24	Nuclear Retention of MBP mRNAs in the Quaking Viable Mice. Neuron, 2002, 36, 815-829.	8.1	152
25	Protection of p27Kip1 mRNA by quaking RNA binding proteins promotes oligodendrocyte differentiation. Nature Neuroscience, 2005, 8, 27-33.	14.8	151
26	A Role for the GSG Domain in Localizing Sam68 to Novel Nuclear Structures in Cancer Cell Lines. Molecular Biology of the Cell, 1999, 10, 3015-3033.	2.1	136
27	p62 Association with RNA Is Regulated by Tyrosine Phosphorylation. Journal of Biological Chemistry, 1995, 270, 2010-2013.	3.4	132
28	Sam68 regulates translation of target mRNAs in male germ cells, necessary for mouse spermatogenesis. Journal of Cell Biology, 2009, 185, 235-249.	5.2	124
29	The GAR Motif of 53BP1 is Arginine Methylated by PRMT1 and is Necessary for 53BP1 DNA Binding Activity. Cell Cycle, 2005, 4, 1834-1841.	2.6	121
30	Tyrosine Phosphorylation of Sam68 by Breast Tumor Kinase Regulates Intranuclear Localization and Cell Cycle Progression. Journal of Biological Chemistry, 2005, 280, 38639-38647.	3.4	119
31	RNA G-quadruplexes and their potential regulatory roles in translation. Translation, 2016, 4, e1244031.	2.9	118
32	Arginine methylation of the <scp>DDX</scp> 5 helicase <scp>RGG</scp> / <scp>RG</scp> motif by <scp>PRMT</scp> 5 regulates resolution of RNA:DNA hybrids. EMBO Journal, 2019, 38, e100986.	7.8	117
33	CARM1 promotes adipocyte differentiation by coactivating PPARÎ³. EMBO Reports, 2008, 9, 193-198.	4.5	114
34	New implications for the QUAKING RNA binding protein in human disease. Journal of Neuroscience Research, 2008, 86, 233-242.	2.9	112
35	Ablation of the Sam68 RNA Binding Protein Protects Mice from Age-Related Bone Loss. PLoS Genetics, 2005, 1, e74.	3.5	109
36	The physiological and pathophysiological role of PRMT1-mediated protein arginine methylation. Pharmacological Research, 2009, 60, 466-474.	7.1	109

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37	JMJD2A Promotes Cellular Transformation by Blocking Cellular Senescence through Transcriptional Repression of the Tumor Suppressor CHD5. Cell Reports, 2012, 2, 1233-1243.	6.4	106
38	Protein Interfaces in Signaling Regulated by Arginine Methylation. Science Signaling, 2005, 2005, re2-re2.	3.6	105
39	Nuclear translocation controlled by alternatively spliced isoforms inactivates the QUAKING apoptotic inducer. Genes and Development, 2001, 15, 845-858.	5.9	92
40	Loss of CARM1 Results in Hypomethylation of Thymocyte Cyclic AMP-regulated Phosphoprotein and Deregulated Early T Cell Development. Journal of Biological Chemistry, 2004, 279, 25339-25344.	3.4	92
41	Arginine methylation regulates IL-2 gene expression: a role for protein arginine methyltransferase 5 (PRMT5). Biochemical Journal, 2005, 388, 379-386.	3.7	90
42	The Sam68 STAR RNA-Binding Protein Regulates mTOR Alternative Splicing during Adipogenesis. Molecular Cell, 2012, 46, 187-199.	9.7	88
43	Ablation of PRMT6 reveals a role as a negative transcriptional regulator of the p53 tumor suppressor. Nucleic Acids Research, 2012, 40, 9513-9521.	14.5	86
44	Quaking, an RNA-Binding Protein, Is a Critical Regulator of Vascular Smooth Muscle Cell Phenotype. Circulation Research, 2013, 113, 1065-1075.	4.5	86
45	Aven recognition of RNA G-quadruplexes regulates translation of the mixed lineage leukemia protooncogenes. ELife, 2015, 4, .	6.0	83
46	Emerging functions of the Quaking <scp>RNA</scp>â€binding proteins and link to human diseases. Wiley Interdisciplinary Reviews RNA, 2016, 7, 399-412.	6.4	79
47	miR-137 Modulates a Tumor Suppressor Network-Inducing Senescence in Pancreatic Cancer Cells. Cell Reports, 2016, 14, 1966-1978.	6.4	78
48	A Glycine-Arginine Domain in Control of the Human MRE11 DNA Repair Protein. Molecular and Cellular Biology, 2008, 28, 3058-3069.	2.3	76
49	PRMT6 Regulates RAS/RAF Binding and MEK/ERK-Mediated Cancer Stemness Activities in Hepatocellular Carcinoma through CRAF Methylation. Cell Reports, 2018, 25, 690-701.e8.	6.4	76
50	The Nuclear Tyrosine Kinase BRK/Sik Phosphorylates and Inhibits the RNA-binding Activities of the Sam68-like Mammalian Proteins SLM-1 and SLM-2. Journal of Biological Chemistry, 2004, 279, 54398-54404.	3.4	75
51	Cellular pathways influenced by protein arginine methylation: Implications for cancer. Molecular Cell, 2021, 81, 4357-4368.	9.7	75
52	The QKI-5 and QKI-6 RNA Binding Proteins Regulate the Expression of MicroRNA 7 in Glial Cells. Molecular and Cellular Biology, 2013, 33, 1233-1243.	2.3	72
53	CRAF Methylation by PRMT6 Regulates Aerobic Glycolysisâ€“Driven Hepatocarcinogenesis via ERKâ€Dependent PKM2 Nuclear Relocalization and Activation. Hepatology, 2020, 71, 1279-1296.	7.3	71
54	Methylation of MRE11 Regulates its Nuclear Compartmentalization. Cell Cycle, 2005, 4, 981-989.	2.6	70

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55	PRMT7 Preserves Satellite Cell Regenerative Capacity. Cell Reports, 2016, 14, 1528-1539.	6.4	70
56	The role of arginine methylation in the DNA damage response. DNA Repair, 2013, 12, 459-465.	2.8	69
57	Type II Arginine Methyltransferase PRMT5 Regulates Gene Expression of Inhibitors of Differentiation/DNA Binding Id2 and Id4 during Glial Cell Differentiation. Journal of Biological Chemistry, 2011, 286, 44424-44432.	3.4	68
58	The MRE11 GAR motif regulates DNA double-strand break processing and ATR activation. Cell Research, 2012, 22, 305-320.	12.0	68
59	The STAR RNA binding proteins GLD-1, QKI, SAM68 and SLM-2 bind bipartite RNA motifs. BMC Molecular Biology, 2009, 10, 47.	3.0	64
60	SETD6 monomethylates H2AZ on lysine 7 and is required for the maintenance of embryonic stem cell self-renewal. Epigenetics, 2013, 8, 177-183.	2.7	63
61	PRMT5 is essential for B cell development and germinal center dynamics. Nature Communications, 2019, 10, 22.	12.8	61
62	Pharmacological inhibition of PRMT7 links arginine monomethylation to the cellular stress response. Nature Communications, 2020, 11, 2396.	12.8	59
63	CTCF facilitates DNA double-strand break repair by enhancing homologous recombination repair. Science Advances, 2017, 3, e1601898.	10.3	56
64	Sam68 marks the transcriptionally active stages of spermatogenesis and modulates alternative splicing in male germ cells. Nucleic Acids Research, 2011, 39, 4961-4974.	14.5	55
65	BRK phosphorylates PSF promoting its cytoplasmic localization and cell cycle arrest. Cellular Signalling, 2009, 21, 1415-1422.	3.6	50
66	Arginine Methylation by PRMT1 Regulates Muscle Stem Cell Fate. Molecular and Cellular Biology, 2017, 37, .	2.3	50
67	QUAKING KH Domain Proteins as Regulators of Glial Cell Fate and Myelination. RNA Biology, 2005, 2, 37-40.	3.1	49
68	Motor coordination defects in mice deficient for the Sam68 RNA-binding protein. Behavioural Brain Research, 2008, 189, 357-363.	2.2	47
69	Arginine methylation of SARS-Cov-2 nucleocapsid protein regulates RNA binding, its ability to suppress stress granule formation, and viral replication. Journal of Biological Chemistry, 2021, 297, 100821.	3.4	46
70	An Adaptor Role for Cytoplasmic Sam68 in Modulating Src Activity during Cell Polarization. Molecular and Cellular Biology, 2009, 29, 1933-1943.	2.3	45
71	DDX5 resolves R-loops at DNA double-strand breaks to promote DNA repair and avoid chromosomal deletions. NAR Cancer, 2020, 2, zcaa028.	3.1	44
72	Genome-wide R-loop analysis defines unique roles for DDX5, XRN2, and PRMT5 in DNA/RNA hybrid resolution. Life Science Alliance, 2020, 3, e202000762.	2.8	43

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73	GFI1 facilitates efficient DNA repair by regulating PRMT1 dependent methylation of MRE11 and 53BP1. Nature Communications, 2018, 9, 1418.	12.8	42
74	Regulation of cellular response to cisplatin-induced DNA damage and DNA repair in cells overexpressing p185erbB-2 is dependent on the ras signaling pathway. Oncogene, 1997, 14, 1827-1835.	5.9	40
75	The Identification of Two Drosophila K Homology Domain Proteins. Journal of Biological Chemistry, 1998, 273, 30122-30130.	3.4	40
76	Breast tumor kinase BRK requires kinesin-2 subunit KAP3A in modulation of cell migration. Cellular Signalling, 2008, 20, 432-442.	3.6	40
77	Sam68 modulates the promoter specificity of NF-Î°B and mediates expression of CD25 in activated T cells. Nature Communications, 2013, 4, 1909.	12.8	40
78	Loss of PRMT5 Promotes PDGFRÎ± Degradation during Oligodendrocyte Differentiation and Myelination. Developmental Cell, 2018, 46, 426-440.e5.	7.0	40
79	Arginine methylation of the HIV-1 nucleocapsid protein results in its diminished function. Aids, 2007, 21, 795-805.	2.2	38
80	PRMT1-p53 Pathway Controls Epicardial EMT and Invasion. Cell Reports, 2020, 31, 107739.	6.4	37
81	The QKI-6 and QKI-7 RNA Binding Proteins Block Proliferation and Promote Schwann Cell Myelination. PLoS ONE, 2009, 4, e5867.	2.5	36
82	QuakingRegulatesNeurofascin 155Expression for Myelin and Axoglial Junction Maintenance. Journal of Neuroscience, 2016, 36, 4106-4120.	3.6	36
83	Reaching for the STARs. Advances in Experimental Medicine and Biology, 2010, , 142-157.	1.6	35
84	Arginine methylation catalyzed by PRMT1 is required for B cell activation and differentiation. Nature Communications, 2017, 8, 891.	12.8	34
85	Depolarization-induced translocation of the RNA-binding protein Sam68 to the dendrites of hippocampal neurons. Journal of Cell Science, 2004, 117, 1079-1090.	2.0	33
86	The QKI-6 RNA Binding Protein Regulates Actin-interacting Protein-1 mRNA Stability during Oligodendrocyte Differentiation. Molecular Biology of the Cell, 2010, 21, 3029-3040.	2.1	32
87	Arginine methylation of hnRNPUL1 regulates interaction with NBS1 and recruitment to sites of DNA damage. Scientific Reports, 2015, 5, 10475.	3.3	32
88	Noise-Induced Dysregulation ofQuakingRNA Binding Proteins Contributes to Auditory Nerve Demyelination and Hearing Loss. Journal of Neuroscience, 2018, 38, 2551-2568.	3.6	32
89	Transcriptional repression of hypoxia-inducible factor-1 (HIF-1) by the protein arginine methyltransferase PRMT1. Molecular Biology of the Cell, 2014, 25, 925-935.	2.1	31
90	Arginine methylation signals mRNA export. Nature Structural and Molecular Biology, 2004, 11, 914-915.	8.2	30

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91	SUMOylation negatively modulates target gene occupancy of the KDM5B, a histone lysine demethylase. Epigenetics, 2013, 8, 1162-1175.	2.7	30
92	Sam68 Regulates S6K1 Alternative Splicing during Adipogenesis. Molecular and Cellular Biology, 2015, 35, 1926-1939.	2.3	29
93	Sam68 functions as a transcriptional coactivator of the p53 tumor suppressor. Nucleic Acids Research, 2016, 44, 8726-8741.	14.5	28
94	Synergistic effects of type I PRMT and PARP inhibitors against non-small cell lung cancer cells. Clinical Epigenetics, 2021, 13, 54.	4.1	28
95	The QKI-6 RNA Binding Protein Localizes with the MBP mRNAs in Stress Granules of Glial Cells. PLoS ONE, 2010, 5, e12824.	2.5	27
96	Genetic evidence for partial redundancy between the arginine methyltransferases CARM1 and PRMT6. Journal of Biological Chemistry, 2020, 295, 17060-17070.	3.4	27
97	Limiting the DNA Double-Strand Break Resectosome for Genome Protection. Trends in Biochemical Sciences, 2020, 45, 779-793.	7.5	27
98	Transcriptome profiling of mouse brains with qkI-deficient oligodendrocytes reveals major alternative splicing defects including self-splicing. Scientific Reports, 2017, 7, 7554.	3.3	26
99	Identification of a Sam68 Ribonucleoprotein Complex Regulated by Epidermal Growth Factor. Journal of Biological Chemistry, 2009, 284, 31903-31913.	3.4	25
100	Reaching for the stars: Linking RNA binding proteins to diseases. Advances in Experimental Medicine and Biology, 2010, 693, 142-57.	1.6	24
101	PRMT7 ablation stimulates anti-tumor immunity and sensitizes melanoma to immune checkpoint blockade. Cell Reports, 2022, 38, 110582.	6.4	24
102	Targeting the RNA-binding protein Sam68 as a treatment for cancer?. Future Oncology, 2007, 3, 539-544.	2.4	23
103	kep1 interacts genetically with dredd/Caspase-8, and kep1 mutants alter the balance of dredd isoforms. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 1814-1819.	7.1	22
104	The association of Sam68 with Vav1 contributes to tumorigenesis. Cellular Signalling, 2007, 19, 2479-2486.	3.6	21
105	Patched1 haploinsufficiency impairs ependymal cilia function of the quaking viable mice, leading to fatal hydrocephalus. Molecular and Cellular Neurosciences, 2011, 47, 100-107.	2.2	19
106	QUAKING Regulates Microexon Alternative Splicing of the Rho GTPase Pathway and Controls Microglia Homeostasis. Cell Reports, 2020, 33, 108560.	6.4	19
107	Regenerating muscle with arginine methylation. Transcription, 2017, 8, 175-178.	3.1	18
108	p38 Mitogen-Activated Protein Kinase Pathway Regulates Genes during Proliferation and Differentiation in Oligodendrocytes. PLoS ONE, 2015, 10, e0145843.	2.5	17

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109	Protein Arginine Methyltransferase 1 Interacts With PGC1Î± and Modulates Thermogenic Fat Activation. Endocrinology, 2019, 160, 2773-2786.	2.8	17
110	mRNAs Associated with the Sam68 RNA Binding Protein. RNA Biology, 2006, 3, 90-93.	3.1	16
111	Emerging roles for Sam68 in adipogenesis and neuronal development. RNA Biology, 2012, 9, 1129-1133.	3.1	16
112	M-TAP Dance: Targeting PRMT1 and PRMT5 Family Members to Push Cancer Cells Over the Edge. Cancer Cell, 2019, 36, 3-5.	16.8	15
113	Inhibition of Sam68 triggers adipose tissue browning. Journal of Endocrinology, 2015, 225, 181-189.	2.6	13
114	Deletion of RBMX RGG/RG motif in Shashi-XLID syndrome leads to aberrant p53 activation and neuronal differentiation defects. Cell Reports, 2021, 36, 109337.	6.4	13
115	Transcriptome profiling in preadipocytes identifies long noncoding RNAs as Sam68 targets. Oncotarget, 2017, 8, 81994-82005.	1.8	13
116	Sam68 promotes hepatic gluconeogenesis via CRTC2. Nature Communications, 2021, 12, 3340.	12.8	12
117	The Influence of Arginine Methylation in Immunity and Inflammation. Journal of Inflammation Research, 0, Volume 15, 2939-2958.	3.5	12
118	Sam68 impedes the recovery of arterial injury by augmenting inflammatory response. Journal of Molecular and Cellular Cardiology, 2019, 137, 82-92.	1.9	11
119	Recruitment of lysine demethylase 2A to DNA double strand breaks and its interaction with 53BP1 ensures genome stability. Oncotarget, 2018, 9, 15915-15930.	1.8	10
120	Lysine methylation of FEN1 by SET7 is essential for its cellular response to replicative stress. Oncotarget, 2017, 8, 64918-64931.	1.8	10
121	Arginine Methylation Regulates the Cytokine Response. Molecular Cell, 2004, 15, 492-494.	9.7	9
122	Sam68 Enables Metabotropic Glutamate Receptor-Dependent LTD in Distal Dendritic Regions of CA1 Hippocampal Neurons. Cell Reports, 2019, 29, 1789-1799.e6.	6.4	9
123	POGZ promotes homologyâ€directed DNA repair in an HP1â€dependent manner. EMBO Reports, 2022, 23, e51041.	4.5	9
124	Loss of p53 in quaking viable mice leads to Purkinje cell defects and reduced survival. Scientific Reports, 2011, 1, 84.	3.3	8
125	Microexon alternative splicing of small <scp>GTPase</scp> regulators: Implication in central nervous system diseases. Wiley Interdisciplinary Reviews RNA, 2022, 13, e1678.	6.4	6
126	The p53 status can influence the role of Sam68 in tumorigenesis. Oncotarget, 2016, 7, 71651-71659.	1.8	6

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127	Muscle stem cell polarity requires QKI-mediated alternative splicing of Integrin Alpha-7 (Itga7). Life Science Alliance, 2022, 5, e202101192.	2.8	6
128	The fight of the Tudor domain â€œRoyal familyâ€•for a broken DNA throne. Cell Cycle, 2012, 11, 1483-1484.	2.6	3
129	Stay lean without dieting. Adipocyte, 2012, 1, 246-249.	2.8	3
130	PRMT1 is required for the generation of MHC-associated microglia and remyelination in the central nervous system. Life Science Alliance, 2022, 5, e202201467.	2.8	3
131	Targeting the RNA-Binding Protein QKI in Myeloid Cells Ameliorates Macrophage-Induced Renal Interstitial Fibrosis. Epigenomes, 2020, 4, 2.	1.8	2
132	Arsenic 3 methyltransferase (AS3MT) automethylates on cysteine residues in vitro. Archives of Toxicology, 2022, 96, 1371-1386.	4.2	2
133	Putting introns on retainer. Nature Chemical Biology, 2022, , .	8.0	0