

# Stéphane Richard

## List of Publications by Year in descending order

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133  
papers

12,444  
citations

28736

57  
h-index

31191

106  
g-index

142  
all docs

142  
docs citations

142  
times ranked

14391  
citing authors

#	ARTICLE	IF	CITATIONS
1	Arginine Methylation. <i>Molecular Cell</i> , 2005, 18, 263-272.	4.5	1,002
2	Arginine Methylation: The Coming of Age. <i>Molecular Cell</i> , 2017, 65, 8-24.	4.5	720
3	RNA-binding proteins in human genetic disease. <i>Trends in Genetics</i> , 2008, 24, 416-425.	2.9	583
4	Defining the RGG/RC Motif. <i>Molecular Cell</i> , 2013, 50, 613-623.	4.5	512
5	The regulation, functions and clinical relevance of arginine methylation. <i>Nature Reviews Molecular Cell Biology</i> , 2019, 20, 642-657.	16.1	364
6	Sam68 sequestration and partial loss of function are associated with splicing alterations in FXTAS patients. <i>EMBO Journal</i> , 2010, 29, 1248-1261.	3.5	326
7	A Proteomic Analysis of Arginine-methylated Protein Complexes. <i>Molecular and Cellular Proteomics</i> , 2003, 2, 1319-1330.	2.5	323
8	RNF8- and RNF168-dependent degradation of KDM4A/JMJD2A triggers 53BP1 recruitment to DNA damage sites. <i>EMBO Journal</i> , 2012, 31, 1865-1878.	3.5	302
9	Target RNA motif and target mRNAs of the Quaking STAR protein. <i>Nature Structural and Molecular Biology</i> , 2005, 12, 691-698.	3.6	240
10	SAM68 Regulates Neuronal Activity-Dependent Alternative Splicing of Neurexin-1. <i>Cell</i> , 2011, 147, 1601-1614.	13.5	240
11	Sam68 RNA Binding Protein Is an In Vivo Substrate for Protein ArginineN-Methyltransferase 1. <i>Molecular Biology of the Cell</i> , 2003, 14, 274-287.	0.9	237
12	Tudor Domains Bind Symmetrical Dimethylated Arginines. <i>Journal of Biological Chemistry</i> , 2005, 280, 28476-28483.	1.6	218
13	Arginine Methylation Inhibits the Binding of Proline-rich Ligands to Src Homology 3, but Not WW, Domains. <i>Journal of Biological Chemistry</i> , 2000, 275, 16030-16036.	1.6	208
14	Emerging Roles of Disordered Sequences in RNA-Binding Proteins. <i>Trends in Biochemical Sciences</i> , 2015, 40, 662-672.	3.7	195
15	Arginine methylation of MRE11 by PRMT1 is required for DNA damage checkpoint control. <i>Genes and Development</i> , 2005, 19, 671-676.	2.7	181
16	Methylation of Tat by PRMT6 Regulates Human Immunodeficiency Virus Type 1 Gene Expression. <i>Journal of Virology</i> , 2005, 79, 124-131.	1.5	179
17	Arginine methylation by PRMT1 regulates nuclear-cytoplasmic localization and toxicity of FUS/TLS harbouring ALS-linked mutations. <i>Human Molecular Genetics</i> , 2012, 21, 136-149.	1.4	176
18	Symmetrical dimethylarginine methylation is required for the localization of SMN in Cajal bodies and pre-mRNA splicing. <i>Journal of Cell Biology</i> , 2002, 159, 957-969.	2.3	175

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19	Loss of the major Type I arginine methyltransferase PRMT1 causes substrate scavenging by other PRMTs. <i>Scientific Reports</i> , 2013, 3, 1311.	1.6	173
20	Arginine Methylation of the Histone H3 Tail Impedes Effector Binding. <i>Journal of Biological Chemistry</i> , 2008, 283, 3006-3010.	1.6	167
21	Sam68, the KH domain-containing superSTAR. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2003, 1653, 73-86.	3.3	162
22	A Mouse <i>PRMT1</i> Null Allele Defines an Essential Role for Arginine Methylation in Genome Maintenance and Cell Proliferation. <i>Molecular and Cellular Biology</i> , 2009, 29, 2982-2996.	1.1	160
23	A protein-domain microarray identifies novel protein-protein interactions. <i>Biochemical Journal</i> , 2002, 367, 697-702.	1.7	158
24	Nuclear Retention of MBP mRNAs in the Quaking Viable Mice. <i>Neuron</i> , 2002, 36, 815-829.	3.8	152
25	Protection of p27Kip1 mRNA by quaking RNA binding proteins promotes oligodendrocyte differentiation. <i>Nature Neuroscience</i> , 2005, 8, 27-33.	7.1	151
26	A Role for the GSG Domain in Localizing Sam68 to Novel Nuclear Structures in Cancer Cell Lines. <i>Molecular Biology of the Cell</i> , 1999, 10, 3015-3033.	0.9	136
27	p62 Association with RNA Is Regulated by Tyrosine Phosphorylation. <i>Journal of Biological Chemistry</i> , 1995, 270, 2010-2013.	1.6	132
28	Sam68 regulates translation of target mRNAs in male germ cells, necessary for mouse spermatogenesis. <i>Journal of Cell Biology</i> , 2009, 185, 235-249.	2.3	124
29	The GAR Motif of 53BP1 is Arginine Methylated by PRMT1 and is Necessary for 53BP1 DNA Binding Activity. <i>Cell Cycle</i> , 2005, 4, 1834-1841.	1.3	121
30	Tyrosine Phosphorylation of Sam68 by Breast Tumor Kinase Regulates Intranuclear Localization and Cell Cycle Progression. <i>Journal of Biological Chemistry</i> , 2005, 280, 38639-38647.	1.6	119
31	RNA G-quadruplexes and their potential regulatory roles in translation. <i>Translation</i> , 2016, 4, e1244031.	2.9	118
32	Arginine methylation of the <i>DDX5</i> helicase <i>RGG</i> / <i>RG</i> motif by <i>PRMT5</i> regulates resolution of RNA:DNA hybrids. <i>EMBO Journal</i> , 2019, 38, e100986.	3.5	117
33	CARM1 promotes adipocyte differentiation by coactivating PPAR $\beta$ . <i>EMBO Reports</i> , 2008, 9, 193-198.	2.0	114
34	New implications for the QUAKING RNA binding protein in human disease. <i>Journal of Neuroscience Research</i> , 2008, 86, 233-242.	1.3	112
35	Ablation of the Sam68 RNA Binding Protein Protects Mice from Age-Related Bone Loss. <i>PLoS Genetics</i> , 2005, 1, e74.	1.5	109
36	The physiological and pathophysiological role of PRMT1-mediated protein arginine methylation. <i>Pharmacological Research</i> , 2009, 60, 466-474.	3.1	109

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37	JMJD2A Promotes Cellular Transformation by Blocking Cellular Senescence through Transcriptional Repression of the Tumor Suppressor CHD5. <i>Cell Reports</i> , 2012, 2, 1233-1243.	2.9	106
38	Protein Interfaces in Signaling Regulated by Arginine Methylation. <i>Science Signaling</i> , 2005, 2005, re2-re2.	1.6	105
39	Nuclear translocation controlled by alternatively spliced isoforms inactivates the QUAKING apoptotic inducer. <i>Genes and Development</i> , 2001, 15, 845-858.	2.7	92
40	Loss of CARM1 Results in Hypomethylation of Thymocyte Cyclic AMP-regulated Phosphoprotein and Deregulated Early T Cell Development. <i>Journal of Biological Chemistry</i> , 2004, 279, 25339-25344.	1.6	92
41	Arginine methylation regulates IL-2 gene expression: a role for protein arginine methyltransferase 5 (PRMT5). <i>Biochemical Journal</i> , 2005, 388, 379-386.	1.7	90
42	The Sam68 STAR RNA-Binding Protein Regulates mTOR Alternative Splicing during Adipogenesis. <i>Molecular Cell</i> , 2012, 46, 187-199.	4.5	88
43	Ablation of PRMT6 reveals a role as a negative transcriptional regulator of the p53 tumor suppressor. <i>Nucleic Acids Research</i> , 2012, 40, 9513-9521.	6.5	86
44	Quaking, an RNA-Binding Protein, Is a Critical Regulator of Vascular Smooth Muscle Cell Phenotype. <i>Circulation Research</i> , 2013, 113, 1065-1075.	2.0	86
45	Aven recognition of RNA G-quadruplexes regulates translation of the mixed lineage leukemia protooncogenes. <i>ELife</i> , 2015, 4, .	2.8	83
46	Emerging functions of the Quaking <sc>RNA</sc>â€binding proteins and link to human diseases. <i>Wiley Interdisciplinary Reviews RNA</i> , 2016, 7, 399-412.	3.2	79
47	miR-137 Modulates a Tumor Suppressor Network-Inducing Senescence in Pancreatic Cancer Cells. <i>Cell Reports</i> , 2016, 14, 1966-1978.	2.9	78
48	A Glycine-Arginine Domain in Control of the Human MRE11 DNA Repair Protein. <i>Molecular and Cellular Biology</i> , 2008, 28, 3058-3069.	1.1	76
49	PRMT6 Regulates RAS/RAF Binding and MEK/ERK-Mediated Cancer Stemness Activities in Hepatocellular Carcinoma through CRAF Methylation. <i>Cell Reports</i> , 2018, 25, 690-701.e8.	2.9	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. <i>Journal of Biological Chemistry</i> , 2004, 279, 54398-54404.	1.6	75
51	Cellular pathways influenced by protein arginine methylation: Implications for cancer. <i>Molecular Cell</i> , 2021, 81, 4357-4368.	4.5	75
52	The QKI-5 and QKI-6 RNA Binding Proteins Regulate the Expression of MicroRNA 7 in Glial Cells. <i>Molecular and Cellular Biology</i> , 2013, 33, 1233-1243.	1.1	72
53	CRAF Methylation by PRMT6 Regulates Aerobic Glycolysisâ€Driven Hepatocarcinogenesis via ERKâ€Dependent PKM2 Nuclear Relocalization and Activation. <i>Hepatology</i> , 2020, 71, 1279-1296.	3.6	71
54	Methylation of MRE11 Regulates its Nuclear Compartmentalization. <i>Cell Cycle</i> , 2005, 4, 981-989.	1.3	70

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55	PRMT7 Preserves Satellite Cell Regenerative Capacity. <i>Cell Reports</i> , 2016, 14, 1528-1539.	2.9	70
56	The role of arginine methylation in the DNA damage response. <i>DNA Repair</i> , 2013, 12, 459-465.	1.3	69
57	Type II Arginine Methyltransferase PRMT5 Regulates Gene Expression of Inhibitors of Differentiation/DNA Binding Id2 and Id4 during Glial Cell Differentiation. <i>Journal of Biological Chemistry</i> , 2011, 286, 44424-44432.	1.6	68
58	The MRE11 GAR motif regulates DNA double-strand break processing and ATR activation. <i>Cell Research</i> , 2012, 22, 305-320.	5.7	68
59	The STAR RNA binding proteins GLD-1, QKI, SAM68 and SLM-2 bind bipartite RNA motifs. <i>BMC Molecular Biology</i> , 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. <i>Epigenetics</i> , 2013, 8, 177-183.	1.3	63
61	PRMT5 is essential for B cell development and germinal center dynamics. <i>Nature Communications</i> , 2019, 10, 22.	5.8	61
62	Pharmacological inhibition of PRMT7 links arginine monomethylation to the cellular stress response. <i>Nature Communications</i> , 2020, 11, 2396.	5.8	59
63	CTCF facilitates DNA double-strand break repair by enhancing homologous recombination repair. <i>Science Advances</i> , 2017, 3, e1601898.	4.7	56
64	Sam68 marks the transcriptionally active stages of spermatogenesis and modulates alternative splicing in male germ cells. <i>Nucleic Acids Research</i> , 2011, 39, 4961-4974.	6.5	55
65	BRK phosphorylates PSF promoting its cytoplasmic localization and cell cycle arrest. <i>Cellular Signalling</i> , 2009, 21, 1415-1422.	1.7	50
66	Arginine Methylation by PRMT1 Regulates Muscle Stem Cell Fate. <i>Molecular and Cellular Biology</i> , 2017, 37, .	1.1	50
67	QUAKING KH Domain Proteins as Regulators of Glial Cell Fate and Myelination. <i>RNA Biology</i> , 2005, 2, 37-40.	1.5	49
68	Motor coordination defects in mice deficient for the Sam68 RNA-binding protein. <i>Behavioural Brain Research</i> , 2008, 189, 357-363.	1.2	47
69	Arginine methylation of SARS-Cov-2 nucleocapsid protein regulates RNA binding, its ability to suppress stress granule formation, and viral replication. <i>Journal of Biological Chemistry</i> , 2021, 297, 100821.	1.6	46
70	An Adaptor Role for Cytoplasmic Sam68 in Modulating Src Activity during Cell Polarization. <i>Molecular and Cellular Biology</i> , 2009, 29, 1933-1943.	1.1	45
71	DDX5 resolves R-loops at DNA double-strand breaks to promote DNA repair and avoid chromosomal deletions. <i>NAR Cancer</i> , 2020, 2, zcaa028.	1.6	44
72	Genome-wide R-loop analysis defines unique roles for DDX5, XRN2, and PRMT5 in DNA/RNA hybrid resolution. <i>Life Science Alliance</i> , 2020, 3, e202000762.	1.3	43

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73	GF1 facilitates efficient DNA repair by regulating PRMT1 dependent methylation of MRE11 and 53BP1. Nature Communications, 2018, 9, 1418.	5.8	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.	2.6	40
75	The Identification of Two Drosophila K Homology Domain Proteins. Journal of Biological Chemistry, 1998, 273, 30122-30130.	1.6	40
76	Breast tumor kinase BRK requires kinesin-2 subunit KAP3A in modulation of cell migration. Cellular Signalling, 2008, 20, 432-442.	1.7	40
77	Sam68 modulates the promoter specificity of NF- $\kappa$ B and mediates expression of CD25 in activated T cells. Nature Communications, 2013, 4, 1909.	5.8	40
78	Loss of PRMT5 Promotes PDGFR $\alpha$ Degradation during Oligodendrocyte Differentiation and Myelination. Developmental Cell, 2018, 46, 426-440.e5.	3.1	40
79	Arginine methylation of the HIV-1 nucleocapsid protein results in its diminished function. Aids, 2007, 21, 795-805.	1.0	38
80	PRMT1-p53 Pathway Controls Epicardial EMT and Invasion. Cell Reports, 2020, 31, 107739.	2.9	37
81	The QKI-6 and QKI-7 RNA Binding Proteins Block Proliferation and Promote Schwann Cell Myelination. PLoS ONE, 2009, 4, e5867.	1.1	36
82	<i>Quaking</i> Regulates <i>Neurofascin 155</i> Expression for Myelin and Axoglial Junction Maintenance. Journal of Neuroscience, 2016, 36, 4106-4120.	1.7	36
83	Reaching for the STARs. Advances in Experimental Medicine and Biology, 2010, , 142-157.	0.8	35
84	Arginine methylation catalyzed by PRMT1 is required for B cell activation and differentiation. Nature Communications, 2017, 8, 891.	5.8	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.	1.2	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.	0.9	32
87	Arginine methylation of hnRNPUL1 regulates interaction with NBS1 and recruitment to sites of DNA damage. Scientific Reports, 2015, 5, 10475.	1.6	32
88	Noise-Induced Dysregulation of <i>Quaking</i> RNA Binding Proteins Contributes to Auditory Nerve Demyelination and Hearing Loss. Journal of Neuroscience, 2018, 38, 2551-2568.	1.7	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.	0.9	31
90	Arginine methylation signals mRNA export. Nature Structural and Molecular Biology, 2004, 11, 914-915.	3.6	30

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91	SUMOylation negatively modulates target gene occupancy of the KDM5B, a histone lysine demethylase. <i>Epigenetics</i> , 2013, 8, 1162-1175.	1.3	30
92	Sam68 Regulates S6K1 Alternative Splicing during Adipogenesis. <i>Molecular and Cellular Biology</i> , 2015, 35, 1926-1939.	1.1	29
93	Sam68 functions as a transcriptional coactivator of the p53 tumor suppressor. <i>Nucleic Acids Research</i> , 2016, 44, 8726-8741.	6.5	28
94	Synergistic effects of type I PRMT and PARP inhibitors against non-small cell lung cancer cells. <i>Clinical Epigenetics</i> , 2021, 13, 54.	1.8	28
95	The QKI-6 RNA Binding Protein Localizes with the MBP mRNAs in Stress Granules of Glial Cells. <i>PLoS ONE</i> , 2010, 5, e12824.	1.1	27
96	Genetic evidence for partial redundancy between the arginine methyltransferases CARM1 and PRMT6. <i>Journal of Biological Chemistry</i> , 2020, 295, 17060-17070.	1.6	27
97	Limiting the DNA Double-Strand Break Resectosome for Genome Protection. <i>Trends in Biochemical Sciences</i> , 2020, 45, 779-793.	3.7	27
98	Transcriptome profiling of mouse brains with qki-deficient oligodendrocytes reveals major alternative splicing defects including self-splicing. <i>Scientific Reports</i> , 2017, 7, 7554.	1.6	26
99	Identification of a Sam68 Ribonucleoprotein Complex Regulated by Epidermal Growth Factor. <i>Journal of Biological Chemistry</i> , 2009, 284, 31903-31913.	1.6	25
100	Reaching for the stars: Linking RNA binding proteins to diseases. <i>Advances in Experimental Medicine and Biology</i> , 2010, 693, 142-57.	0.8	24
101	PRMT7 ablation stimulates anti-tumor immunity and sensitizes melanoma to immune checkpoint blockade. <i>Cell Reports</i> , 2022, 38, 110582.	2.9	24
102	Targeting the RNA-binding protein Sam68 as a treatment for cancer?. <i>Future Oncology</i> , 2007, 3, 539-544.	1.1	23
103	kep1 interacts genetically with dredd/Caspase-8, and kep1 mutants alter the balance of dredd isoforms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 1814-1819.	3.3	22
104	The association of Sam68 with Vav1 contributes to tumorigenesis. <i>Cellular Signalling</i> , 2007, 19, 2479-2486.	1.7	21
105	Patched1 haploinsufficiency impairs ependymal cilia function of the quaking viable mice, leading to fatal hydrocephalus. <i>Molecular and Cellular Neurosciences</i> , 2011, 47, 100-107.	1.0	19
106	QUAKING Regulates Microexon Alternative Splicing of the Rho GTPase Pathway and Controls Microglia Homeostasis. <i>Cell Reports</i> , 2020, 33, 108560.	2.9	19
107	Regenerating muscle with arginine methylation. <i>Transcription</i> , 2017, 8, 175-178.	1.7	18
108	p38 Mitogen-Activated Protein Kinase Pathway Regulates Genes during Proliferation and Differentiation in Oligodendrocytes. <i>PLoS ONE</i> , 2015, 10, e0145843.	1.1	17

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109	Protein Arginine Methyltransferase 1 Interacts With PGC1 $\alpha$ and Modulates Thermogenic Fat Activation. <i>Endocrinology</i> , 2019, 160, 2773-2786.	1.4	17
110	mRNAs Associated with the Sam68 RNA Binding Protein. <i>RNA Biology</i> , 2006, 3, 90-93.	1.5	16
111	Emerging roles for Sam68 in adipogenesis and neuronal development. <i>RNA Biology</i> , 2012, 9, 1129-1133.	1.5	16
112	M-TAP Dance: Targeting PRMT1 and PRMT5 Family Members to Push Cancer Cells Over the Edge. <i>Cancer Cell</i> , 2019, 36, 3-5.	7.7	15
113	Inhibition of Sam68 triggers adipose tissue browning. <i>Journal of Endocrinology</i> , 2015, 225, 181-189.	1.2	13
114	Deletion of RBMX RGG/RG motif in Shashi-XLID syndrome leads to aberrant p53 activation and neuronal differentiation defects. <i>Cell Reports</i> , 2021, 36, 109337.	2.9	13
115	Transcriptome profiling in preadipocytes identifies long noncoding RNAs as Sam68 targets. <i>Oncotarget</i> , 2017, 8, 81994-82005.	0.8	13
116	Sam68 promotes hepatic gluconeogenesis via CRTC2. <i>Nature Communications</i> , 2021, 12, 3340.	5.8	12
117	The Influence of Arginine Methylation in Immunity and Inflammation. <i>Journal of Inflammation Research</i> , 0, Volume 15, 2939-2958.	1.6	12
118	Sam68 impedes the recovery of arterial injury by augmenting inflammatory response. <i>Journal of Molecular and Cellular Cardiology</i> , 2019, 137, 82-92.	0.9	11
119	Recruitment of lysine demethylase 2A to DNA double strand breaks and its interaction with 53BP1 ensures genome stability. <i>Oncotarget</i> , 2018, 9, 15915-15930.	0.8	10
120	Lysine methylation of FEN1 by SET7 is essential for its cellular response to replicative stress. <i>Oncotarget</i> , 2017, 8, 64918-64931.	0.8	10
121	Arginine Methylation Regulates the Cytokine Response. <i>Molecular Cell</i> , 2004, 15, 492-494.	4.5	9
122	Sam68 Enables Metabotropic Glutamate Receptor-Dependent LTD in Distal Dendritic Regions of CA1 Hippocampal Neurons. <i>Cell Reports</i> , 2019, 29, 1789-1799.e6.	2.9	9
123	POGZ promotes homology-directed DNA repair in an HP1-dependent manner. <i>EMBO Reports</i> , 2022, 23, e51041.	2.0	9
124	Loss of p53 in quaking viable mice leads to Purkinje cell defects and reduced survival. <i>Scientific Reports</i> , 2011, 1, 84.	1.6	8
125	Microexon alternative splicing of small GTPase regulators: Implication in central nervous system diseases. <i>Wiley Interdisciplinary Reviews RNA</i> , 2022, 13, e1678.	3.2	6
126	The p53 status can influence the role of Sam68 in tumorigenesis. <i>Oncotarget</i> , 2016, 7, 71651-71659.	0.8	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.	1.3	6
128	The fight of the Tudor domain "Royal family" for a broken DNA throne. Cell Cycle, 2012, 11, 1483-1484.	1.3	3
129	Stay lean without dieting. Adipocyte, 2012, 1, 246-249.	1.3	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.	1.3	3
131	Targeting the RNA-Binding Protein QKI in Myeloid Cells Ameliorates Macrophage-Induced Renal Interstitial Fibrosis. Epigenomes, 2020, 4, 2.	0.8	2
132	Arsenic 3 methyltransferase (AS3MT) automethylates on cysteine residues in vitro. Archives of Toxicology, 2022, 96, 1371-1386.	1.9	2
133	Putting introns on retainer. Nature Chemical Biology, 2022, , .	3.9	0