Victoria H Cowling

List of Publications by Year
in descending order

55	3,051	186265	168389
papers	citations	28 h-index	53 g-index

64	64	64	4602
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Caspase-6 is the direct activator of caspase-8 in the cytochrome c-induced apoptosis pathway: absolute requirement for removal of caspase-6 prodomain. Cell Death and Differentiation, 2002, 9, 1046-1056.	11.2	235
2	Regulation of mRNA cap methylation. Biochemical Journal, 2010, 425, 295-302.	3.7	161
3	Mechanism of transcriptional activation by the Myc oncoproteins. Seminars in Cancer Biology, 2006, 16, 242-252.	9.6	160
4	Cap-binding complex (CBC). Biochemical Journal, 2014, 457, 231-242.	3.7	154
5	Transcription-independent functions of MYC: regulation of translation and DNA replication. Nature Reviews Molecular Cell Biology, 2008, 9, 810-815.	37.0	143
6	mRNA cap regulation in mammalian cell function and fate. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2019, 1862, 270-279.	1.9	141
7	Single cell tuning of Myc expression by antigen receptor signal strength and interleukinâ€2 in T lymphocytes. EMBO Journal, 2015, 34, 2008-2024.	7.8	135
8	A Core MYC Gene Expression Signature Is Prominent in Basal-Like Breast Cancer but Only Partially Overlaps the Core Serum Response. PLoS ONE, 2009, 4, e6693.	2.5	126
9	The Myc Transactivation Domain Promotes Global Phosphorylation of the RNA Polymerase II Carboxy-Terminal Domain Independently of Direct DNA Binding. Molecular and Cellular Biology, 2007, 27, 2059-2073.	2.3	123
10	Binding Specificity and Regulation of the Serine Protease and PDZ Domains of HtrA2/Omi. Journal of Biological Chemistry, 2003, 278, 49417-49427.	3.4	116
11	Nestin Is Expressed in the Basal/Myoepithelial Layer of the Mammary Gland and Is a Selective Marker of Basal Epithelial Breast Tumors. Cancer Research, 2007, 67, 501-510.	0.9	116
12	c-Myc Transforms Human Mammary Epithelial Cells through Repression of the Wnt Inhibitors DKK1 and SFRP1. Molecular and Cellular Biology, 2007, 27, 5135-5146.	2.3	101
13	Involvement of MINK, a Ste20 Family Kinase, in Ras Oncogene-Induced Growth Arrest in Human Ovarian Surface Epithelial Cells. Molecular Cell, 2005, 20, 673-685.	9.7	96
14	A Conserved Myc Protein Domain, MBIV, Regulates DNA Binding, Apoptosis, Transformation, and G 2 Arrest. Molecular and Cellular Biology, 2006, 26, 4226-4239.	2.3	83
15	SINE transcription by RNA polymerase III is suppressed by histone methylation but not by DNA methylation. Nature Communications, 2015, 6, 6569.	12.8	80
16	RAM/Fam103a1 Is Required for mRNA Cap Methylation. Molecular Cell, 2011, 44, 585-596.	9.7	72
17	Specific regulation of mRNA cap methylation by the c-Myc and E2F1 transcription factors. Oncogene, 2009, 28, 1169-1175.	5.9	64
18	S-Adenosyl Homocysteine Hydrolase Is Required for Myc-Induced mRNA Cap Methylation, Protein Synthesis, and Cell Proliferation. Molecular and Cellular Biology, 2009, 29, 6182-6191.	2.3	59

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19	E-cadherin repression contributes to c-Myc-induced epithelial cell transformation. Oncogene, 2007, 26, 3582-3586.	5.9	57
20	Molecular basis of RNA guanine-7 methyltransferase (RNMT) activation by RAM. Nucleic Acids Research, 2016, 44, 10423-10436.	14.5	52
21	Enhanced mRNA cap methylation increases Cyclin D1 expression and promotes cell transformation. Oncogene, 2010, 29, 930-936.	5.9	45
22	Burkittâ€™s lymphoma-associated c-Myc mutations converge on a dramatically altered target gene response and implicate Nol5a/Nop56 in oncogenesis. Oncogene, 2014, 33, 3519-3527.	5.9	42
23	CDK1-Cyclin B1 Activates RNMT, Coordinating mRNA Cap Methylation with G1 Phase Transcription. Molecular Cell, 2016, 61, 734-746.	9.7	39
24	Identifying SARS-CoV-2 antiviral compounds by screening for small molecule inhibitors of Nsp14 RNA cap methyltransferase. Biochemical Journal, 2021, 478, 2481-2497.	3.7	39
25	DHX15 regulates CMTR1-dependent gene expression and cell proliferation. Life Science Alliance, 2018, 1, e201800092.	2.8	39
26	mRNA Cap Methyltransferase, RNMT-RAM, Promotes RNA Pol II-Dependent Transcription. Cell Reports, 2018, 23, 1530-1542.	6.4	36
27	CAP-MAP: cap analysis protocol with minimal analyte processing, a rapid and sensitive approach to analysing mRNA cap structures. Open Biology, 2020, 10, 190306.	3.6	36
28	Myc Regulation of mRNA Cap Methylation. Genes and Cancer, 2010, 1, 576-579.	1.9	31
29	Human cap methyltransferase (RNMT) N-terminal non-catalytic domain mediates recruitment to transcription initiation sites. Biochemical Journal, 2013, 455, 67-73.	3.7	31
30	The Impact of KLF2 Modulation on the Transcriptional Program and Function of CD8 T Cells. PLoS ONE, 2013, 8, e77537.	2.5	30
31	Turning the Tables: Myc Activates Wnt in Breast Cancer. Cell Cycle, 2007, 6, 2625-2627.	2.6	29
32	The eukaryotic translation initiation factor eIF4E elevates steady-state m ⁷ G capping of coding and noncoding transcripts. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 26773-26783.	7.1	29
33	Upregulation of RNA cap methyltransferase RNMT drives ribosome biogenesis during T cell activation. Nucleic Acids Research, 2021, 49, 6722-6738.	14.5	29
34	mRNA Cap Methylation in Pluripotency and Differentiation. Cell Reports, 2016, 16, 1352-1365.	6.4	28
35	Development of a High-Throughput Screening Assay to Identify Inhibitors of the SARS-CoV-2 Guanine-N7-Methyltransferase Using RapidFire Mass Spectrometry. SLAS Discovery, 2021, 26, 749-756.	2.7	28
36	Regulation and function of CMTR1-dependent mRNA cap methylation. Wiley Interdisciplinary Reviews RNA, 2017, 8, e1450.	6.4	27

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37	Myc and mRNA capping. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2015, 1849, 501-505.	1.9	21
38	CAPAM: The mRNA Cap Adenosine N6-Methyltransferase. Trends in Biochemical Sciences, 2019, 44, 183-185.	7.5	20
39	Positioning Europe for the EPITRANSCRIPTOMICS challenge. RNA Biology, 2018, 15, 1-3.	3.1	18
40	Oncogenic PIK3CA mutations increase dependency on the mRNA cap methyltransferase, RNMT, in breast cancer cells. Open Biology, 2019, 9, 190052.	3.6	17
41	RAM function is dependent on KapÎ²2-mediated nuclear entry. Biochemical Journal, 2014, 457, 473-484.	3.7	16
42	An N-Myc truncation analogous to c-Myc-S induces cell proliferation independently of transactivation but dependent on Myc homology box II. Oncogene, 2008, 27, 1327-1332.	5.9	15
43	Regulation of mRNA capping in the cell cycle. RNA Biology, 2017, 14, 11-14.	3.1	15
44	c-Myc deregulation induces mRNA capping enzyme dependency. Oncotarget, 2016, 7, 82273-82288.	1.8	15
45	Identification and Characterization of the Interaction Between the Methyl-7-Guanosine Cap Maturation Enzyme RNMT and the Cap-Binding Protein eIF4E. Journal of Molecular Biology, 2022, 434, 167451.	4.2	14
46	E2F1-dependent methyl cap formation requires RNA pol II phosphorylation. Cell Cycle, 2012, 11, 2146-2148.	2.6	13
47	Myc up-regulates formation of the mRNA methyl cap. Biochemical Society Transactions, 2010, 38, 1598-1601.	3.4	12
48	Mechanism of allosteric activation of human mRNA cap methyltransferase (RNMT) by RAM: insights from accelerated molecular dynamics simulations. Nucleic Acids Research, 2019, 47, 8675-8692.	14.5	12
49	To cap it all off, again: dynamic capping and recapping of coding and non-coding RNAs to control transcript fate and biological activity. Cell Cycle, 2021, 20, 1347-1360.	2.6	11
50	c-Myc co-ordinates mRNA cap methylation and ribosomal RNA production. Biochemical Journal, 2017, 474, 377-384.	3.7	9
51	CMTR1 is recruited to transcription start sites and promotes ribosomal protein and histone gene expression in embryonic stem cells. Nucleic Acids Research, 2022, 50, 2905-2922.	14.5	9
52	HATs Off to Capping: A New Mechanism for Myc. Cell Cycle, 2007, 6, 907-909.	2.6	8
53	Direct Highâ€Throughput Screening Assay for mRNA Cap Guanineâ€N7 Methyltransferase Activity. Chemistry - A European Journal, 2020, 26, 11266-11275.	3.3	6
54	A novel RNA pol II CTD interaction site on the mRNA capping enzyme is essential for its allosteric activation. Nucleic Acids Research, 2021, 49, 3109-3126.	14.5	3

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55	The mRNA cap methyltransferase gene TbCMT1 is not essential in vitro but is a virulence factor in vivo for bloodstream form Trypanosoma brucei. PLoS ONE, 2018, 13, e0201263.	2.5	2