Martin Bisaillon

List of Publications by Year
in descending order

38 papers	1,107 citations	516710 16 h-index	414414 32 g-index
39 all docs	39 docs citations	39 times ranked	1414 citing authors

#	Article	IF	Citations
1	The flavivirus NS5 protein is a true RNA guanylyltransferase that catalyzes a two-step reaction to form the RNA cap structure. Rna, 2009, 15, 2340-2350.	3.5	208
2	Viral and Cellular Enzymes Involved in Synthesis of mRNA Cap Structure. Virology, 1997, 236, 1-7.	2.4	72
3	Characterization of the Nucleoside Triphosphate Phosphohydrolase and Helicase Activities of the Reovirus Î»1 Protein. Journal of Biological Chemistry, 1997, 272, 18298-18303.	3.4	69
4	The Broad Spectrum Antiviral Nucleoside Ribavirin as a Substrate for a Viral RNA Capping Enzyme. Journal of Biological Chemistry, 2004, 279, 22124-22130.	3.4	63
5	Global Profiling of the Cellular Alternative RNA Splicing Landscape during Virus-Host Interactions. PLoS ONE, 2016, 11, e0161914.	2.5	58
6	Viral modulation of cellular RNA alternative splicing: A new key player in virusâ€"host interactions?. Wiley Interdisciplinary Reviews RNA, 2019, 10, e1543.	6.4	56
7	Characterization of the Reovirus Î»1 Protein RNA 5â€²-Triphosphatase Activity. Journal of Biological Chemistry, 1997, 272, 29954-29957.	3.4	48
8	Global profiling of alternative RNA splicing events provides insights into molecular differences between various types of hepatocellular carcinoma. BMC Genomics, 2016, 17, 683.	2.8	47
9	Organization of the<i>Flavivirus</i><scp>RNA</scp>replicase complex. Wiley Interdisciplinary Reviews RNA, 2017, 8, e1437.	6.4	45
10	Structure-Function Analysis of the Active Site Tunnel of Yeast RNA Triphosphatase. Journal of Biological Chemistry, 2001, 276, 17261-17266.	3.4	42
11	Characterization of the Metal Ion Binding Properties of the Hepatitis C Virus RNA Polymerase. Journal of Biological Chemistry, 2003, 278, 3868-3875.	3.4	42
12	2'-O-methylation of the mRNA capÂprotects RNAs from decapping and degradation by DXO. PLoS ONE, 2018, 13, e0193804.	2.5	42
13	Transcriptome-wide analysis of alternative RNA splicing events in Epstein-Barr virus-associated gastric carcinomas. PLoS ONE, 2017, 12, e0176880.	2.5	24
14	The Epstein-Barr virus EBNA1 protein modulates the alternative splicing of cellular genes. Virology Journal, 2019, 16, 29.	3.4	23
15	Effect of Metal Ion Binding on the Structural Stability of the Hepatitis C Virus RNA Polymerase. Journal of Biological Chemistry, 2004, 279, 49755-49761.	3.4	19
16	A Novel Ribozyme-Based Prophylaxis Inhibits Influenza A Virus Replication and Protects from Severe Disease. PLoS ONE, 2011, 6, e27327.	2.5	17
17	Inhibition of a metal-dependent viral RNA triphosphatase by decavanadate. Biochemical Journal, 2006, 398, 557-567.	3.7	16
18	The RNA capping machinery as an antiâ€infective target. Wiley Interdisciplinary Reviews RNA, 2011, 2, 184-192.	6.4	16

#	Article	IF	Citations
19	The intracellular inhibition of HCV replication represents a novel mechanism of action by the innate immune Lactoferrin protein. Antiviral Research, 2014, 111, 13-22.	4.1	16
20	Enzymatic Synthesis of RNAs Capped with Nucleotide Analogues Reveals the Molecular Basis for Substrate Selectivity of RNA Capping Enzyme: Impacts on RNA Metabolism. PLoS ONE, 2013, 8, e75310.	2.5	16
21	Kinetic and Thermodynamic Characterization of the RNA Guanylyltransferase Reaction. Biochemistry, 2008, 47, 3863-3874.	2.5	15
22	Reovirus Î¼2 protein modulates host cell alternative splicing by reducing protein levels of U5 snRNP core components. Nucleic Acids Research, 2022, 50, 5263-5281.	14.5	14
23	Thermodynamics of ligand binding by the yeast mRNA-capping enzyme reveals different modes of binding. Biochemical Journal, 2004, 384, 411-420.	3.7	13
24	Investigating the Role of Metal Ions in the Catalytic Mechanism of the Yeast RNA Triphosphatase. Journal of Biological Chemistry, 2003, 278, 33963-33971.	3.4	12
25	Energetics of RNA binding by the West Nile virus RNA triphosphatase. FEBS Letters, 2006, 580, 867-877.	2.8	12
26	Characterization of the vaccinia virus D10 decapping enzyme provides evidence for a two-metal-ion mechanism. Biochemical Journal, 2009, 420, 27-35.	3.7	12
27	Insights into the molecular determinants involved in cap recognition by the vaccinia virus D10 decapping enzyme. Nucleic Acids Research, 2010, 38, 7599-7610.	14.5	11
28	Functional Groups Required for the Stability of Yeast RNA Triphosphatase in Vitro and in Vivo. Journal of Biological Chemistry, 2001, 276, 30514-30520.	3.4	10
29	How Many Mammalian Reovirus Proteins are involved in the Control of the Interferon Response?. Pathogens, 2019, 8, 83.	2.8	10
30	Nucleotide analogs and molecular modeling studies reveal key interactions involved in substrate recognition by the yeast RNA triphosphatase. Nucleic Acids Research, 2009, 37, 3714-3722.	14.5	9
31	Deciphering the molecular basis for nucleotide selection by the West Nile virus RNA helicase. Nucleic Acids Research, 2010, 38, 5493-5506.	14.5	8
32	Immunofluorescence to Monitor the Cellular Uptake of Human Lactoferrin and its Associated Antiviral Activity Against the Hepatitis C Virus. Journal of Visualized Experiments, 2015, , .	0.3	8
33	The Immunosuppressive Agent Mizoribine Monophosphate Is an Inhibitor of the Human RNA Capping Enzyme. PLoS ONE, 2013, 8, e54621.	2.5	7
34	Metal ion-binding studies highlight important differences between flaviviral RNA polymerases. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2009, 1794, 50-60.	2.3	6
35	Virtual High-Throughput Screening Identifies Mycophenolic Acid as a Novel RNA Capping Inhibitor. PLoS ONE, 2011, 6, e24806.	2.5	6
36	Characterization of the RNA binding energetics of theCandida albicans poly(A) polymerase. Yeast, 2007, 24, 431-446.	1.7	5

#	Article	IF	Citations
37	Magnesium-binding studies reveal fundamental differences between closely related RNA triphosphatases. Nucleic Acids Research, 2008, 36, 451-461.	14.5	3
38	Cellulosic copper nanoparticles and a hydrogen peroxideâ€"based disinfectant trigger rapid inactivation of pseudoviral particles expressing the Spike protein of SARS-CoV-2, SARS-CoV, and MERS-CoV. Metallomics, 2022, 14, .	2.4	2