Sarah M Mcdonald

List of Publications by Year
in descending order

22 papers	984 citations	687363 13 h-index	677142 22 g-index
23 all docs	23 docs citations	23 times ranked	1320 citing authors

#	Article	IF	Citations
1	Reassortment in segmented RNA viruses: mechanisms and outcomes. Nature Reviews Microbiology, 2016, 14, 448-460.	28.6	259
2	Structural insights into the coupling of virion assembly and rotavirus replication. Nature Reviews Microbiology, 2012, 10, 165-177.	28.6	182
3	Mechanism for Coordinated RNA Packaging and Genome Replication by Rotavirus Polymerase VP1. Structure, 2008, 16, 1678-1688.	3.3	148
4	RNA synthetic mechanisms employed by diverse families of RNA viruses. Wiley Interdisciplinary Reviews RNA, 2013, 4, 351-367.	6.4	77
5	Rotavirus VP2 Core Shell Regions Critical for Viral Polymerase Activation. Journal of Virology, 2011, 85, 3095-3105.	3.4	57
6	Diversity and Relationships of Cocirculating Modern Human Rotaviruses Revealed Using Large-Scale Comparative Genomics. Journal of Virology, 2012, 86, 9148-9162.	3.4	45
7	Rotavirus genome replication: Some assembly required. PLoS Pathogens, 2017, 13, e1006242.	4.7	30
8	Intra-genotypic diversity of archival G4P[8] human rotaviruses from Washington, DC. Infection, Genetics and Evolution, 2011, 11, 1586-1594.	2.3	26
9	Analysis of Human Rotaviruses from a Single Location Over an 18-Year Time Span Suggests that Protein Coadaption Influences Gene Constellations. Journal of Virology, 2014, 88, 9842-9863.	3.4	23
10	Electron microscopic analysis of rotavirus assembly-replication intermediates. Virology, 2015, 477, 32-41.	2.4	21
11	Determinants of VH1-46 Cross-Reactivity to Pemphigus Vulgaris Autoantigen Desmoglein 3 and Rotavirus Antigen VP6. Journal of Immunology, 2016, 197, 1065-1073.	0.8	21
12	Rotavirus core shell subdomains involved in polymerase encapsidation into virus-like particles. Journal of General Virology, 2013, 94, 1818-1826.	2.9	17
13	Group A Rotavirus VP1 Polymerase and VP2 Core Shell Proteins: Intergenotypic Sequence Variation and <i>In Vitro</i> Functional Compatibility. Journal of Virology, 2019, 93, .	3.4	17
14	A Temperature-Sensitive Lesion in the N-Terminal Domain of the Rotavirus Polymerase Affects Its Intracellular Localization and Enzymatic Activity. Journal of Virology, 2017, 91, .	3.4	12
15	Genetic determinants restricting the reassortment of heterologous NSP2 genes into the simian rotavirus SA11 genome. Scientific Reports, 2017, 7, 9301.	3.3	9
16	Distinguishing the genotype 1 genes and proteins of human Wa-like rotaviruses vs. porcine rotaviruses. Infection, Genetics and Evolution, 2016, 43, 6-14.	2.3	8
17	<i>In Vitro</i> Double-Stranded RNA Synthesis by Rotavirus Polymerase Mutants with Lesions at Core Shell Contact Sites. Journal of Virology, 2019, 93, .	3.4	8
18	PCR-based approach to distinguish group A human rotavirus genotype 1 vs. genotype 2 genes. Journal of Virological Methods, 2013, 194, 197-205.	2.1	6

#	Article	IF	Citations
19	Structural dynamics of viral nanomachines. Technology, 2014, 02, 44-48.	1.4	5
20	Cryo-EM Reveals Architectural Diversity in Active Rotavirus Particles. Computational and Structural Biotechnology Journal, 2019, 17, 1178-1183.	4.1	5
21	Cryoâ€EMâ€Onâ€aâ€Chip: Customâ€Designed Substrates for the 3D Analysis of Macromolecules. Small, 2019, 15, 1900918.	10.0	5
22	A Non-Symmetric Reconstruction Technique for Transcriptionally-Active Viral Assemblies. Journal of Analytical & Molecular Techniques, 2015, 2, .	0.0	3