

Raoul J De Groot

List of Publications by Citations

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30
papers

3,056
citations

24
h-index

35
g-index

35
ext. papers

3,666
ext. citations

10.9
avg, IF

5.04
L-index

#	Paper	IF	Citations
30	Middle East respiratory syndrome coronavirus (MERS-CoV): announcement of the Coronavirus Study Group. <i>Journal of Virology</i> , 2013 , 87, 7790-2	6.6	796
29	Structural basis for human coronavirus attachment to sialic acid receptors. <i>Nature Structural and Molecular Biology</i> , 2019 , 26, 481-489	17.6	341
28	Human coronaviruses OC43 and HKU1 bind to 9--acetylated sialic acids via a conserved receptor-binding site in spike protein domain A. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 2681-2690	11.5	242
27	The Genome Organization of the Nidovirales: Similarities and Differences between Arteri-, Toro-, and Coronaviruses. <i>Seminars in Virology</i> , 1997 , 8, 33-47		218
26	Identification of sialic acid-binding function for the Middle East respiratory syndrome coronavirus spike glycoprotein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E8508-E8517	11.5	216
25	Structure of coronavirus hemagglutinin-esterase offers insight into corona and influenza virus evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 9065-9	11.5	176
24	Middle East Respiratory Coronavirus Accessory Protein 4a Inhibits PKR-Mediated Antiviral Stress Responses. <i>PLoS Pathogens</i> , 2016 , 12, e1005982	7.6	111
23	Structure, function and evolution of the hemagglutinin-esterase proteins of corona- and toroviruses. <i>Glycoconjugate Journal</i> , 2006 , 23, 59-72	3	106
22	The influenza A virus hemagglutinin glycosylation state affects receptor-binding specificity. <i>Virology</i> , 2010 , 403, 17-25	3.6	89
21	Small molecule ISRIB suppresses the integrated stress response within a defined window of activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 2097-2102	11.5	79
20	9-O-Acetylation of sialic acids is catalysed by CASD1 via a covalent acetyl-enzyme intermediate. <i>Nature Communications</i> , 2015 , 6, 7673	17.4	67
19	Nidovirus sialate-O-acetyl esterases: evolution and substrate specificity of coronaviral and toroviral receptor-destroying enzymes. <i>Journal of Biological Chemistry</i> , 2005 , 280, 6933-41	5.4	67
18	Kinetic analysis of the influenza A virus HA/NA balance reveals contribution of NA to virus-receptor binding and NA-dependent rolling on receptor-containing surfaces. <i>PLoS Pathogens</i> , 2018 , 14, e1007233	7.6	61
17	Betacoronavirus Adaptation to Humans Involved Progressive Loss of Hemagglutinin-Esterase Lectin Activity. <i>Cell Host and Microbe</i> , 2017 , 21, 356-366	23.4	56
16	Complexity and Diversity of the Mammalian Sialome Revealed by Nidovirus Virolectins. <i>Cell Reports</i> , 2015 , 11, 1966-78	10.6	47
15	Attachment of mouse hepatitis virus to O-acetylated sialic acid is mediated by hemagglutinin-esterase and not by the spike protein. <i>Journal of Virology</i> , 2010 , 84, 8970-4	6.6	44
14	Foot-and-Mouth Disease Virus Leader Protease Cleaves G3BP1 and G3BP2 and Inhibits Stress Granule Formation. <i>Journal of Virology</i> , 2019 , 93,	6.6	42

13	Structural basis for ligand and substrate recognition by torovirus hemagglutinin esterases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 15897-902	11.5	41
12	The murine coronavirus hemagglutinin-esterase receptor-binding site: a major shift in ligand specificity through modest changes in architecture. <i>PLoS Pathogens</i> , 2012 , 8, e1002492	7.6	38
11	Mutation of the Second Sialic Acid-Binding Site, Resulting in Reduced Neuraminidase Activity, Preceded the Emergence of H7N9 Influenza A Virus. <i>Journal of Virology</i> , 2017 , 91,	6.6	33
10	Role of enhanced receptor engagement in the evolution of a pandemic acute hemorrhagic conjunctivitis virus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 397-402	11.5	32
9	Coronavirus receptor switch explained from the stereochemistry of protein-carbohydrate interactions and a single mutation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E3111-9	11.5	31
8	Essential Role of Enterovirus 2A Protease in Counteracting Stress Granule Formation and the Induction of Type I Interferon. <i>Journal of Virology</i> , 2019 , 93,	6.6	26
7	Coronavirus hemagglutinin-esterase and spike proteins coevolve for functional balance and optimal virion avidity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 25759-25770	11.5	24
6	Inhibition of the integrated stress response by viral proteins that block p-eIF2-eIF2B association. <i>Nature Microbiology</i> , 2020 , 5, 1361-1373	26.6	17
5	Dissecting distinct proteolytic activities of FMDV Lpro implicates cleavage and degradation of RLR signaling proteins, not its deISGylase/DUB activity, in type I interferon suppression. <i>PLoS Pathogens</i> , 2020 , 16, e1008702	7.6	16
4	Cryo-EM structure of coronavirus-HKU1 haemagglutinin esterase reveals architectural changes arising from prolonged circulation in humans. <i>Nature Communications</i> , 2020 , 11, 4646	17.4	16
3	Synthetic O-acetylated sialosides facilitate functional receptor identification for human respiratory viruses. <i>Nature Chemistry</i> , 2021 , 13, 496-503	17.6	10
2	Coronavirus hemagglutinin-esterase and spike proteins co-evolve for functional balance and optimal virion avidity		3
1	Molecular Biology and Evolution of Toroviruses	133-146	2