

Hector C Aguilar

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

55
papers

1,965
citations

23
h-index

44
g-index

56
ext. papers

2,338
ext. citations

8.2
avg, IF

4.49
L-index

#	Paper	IF	Citations
55	EphrinB2 is the entry receptor for Nipah virus, an emergent deadly paramyxovirus. <i>Nature</i> , 2005 , 436, 401-5	50.4	355
54	Two key residues in ephrinB3 are critical for its use as an alternative receptor for Nipah virus. <i>PLoS Pathogens</i> , 2006 , 2, e7	7.6	197
53	A broad-spectrum antiviral targeting entry of enveloped viruses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 3157-62	11.5	177
52	N-glycans on Nipah virus fusion protein protect against neutralization but reduce membrane fusion and viral entry. <i>Journal of Virology</i> , 2006 , 80, 4878-89	6.6	147
51	Polybasic KKR motif in the cytoplasmic tail of Nipah virus fusion protein modulates membrane fusion by inside-out signaling. <i>Journal of Virology</i> , 2007 , 81, 4520-32	6.6	84
50	A mechanistic paradigm for broad-spectrum antivirals that target virus-cell fusion. <i>PLoS Pathogens</i> , 2013 , 9, e1003297	7.6	72
49	Single amino acid changes in the Nipah and Hendra virus attachment glycoproteins distinguish ephrinB2 from ephrinB3 usage. <i>Journal of Virology</i> , 2007 , 81, 10804-14	6.6	71
48	A novel receptor-induced activation site in the Nipah virus attachment glycoprotein (G) involved in triggering the fusion glycoprotein (F). <i>Journal of Biological Chemistry</i> , 2009 , 284, 1628-35	5.4	68
47	Unraveling a three-step spatiotemporal mechanism of triggering of receptor-induced Nipah virus fusion and cell entry. <i>PLoS Pathogens</i> , 2013 , 9, e1003770	7.6	65
46	Cysteines in the stalk of the nipah virus G glycoprotein are located in a distinct subdomain critical for fusion activation. <i>Journal of Virology</i> , 2012 , 86, 6632-42	6.6	41
45	Crystal Structure of the Pre-fusion Nipah Virus Fusion Glycoprotein Reveals a Novel Hexamer-of-Trimers Assembly. <i>PLoS Pathogens</i> , 2015 , 11, e1005322	7.6	41
44	Henipavirus membrane fusion and viral entry. <i>Current Topics in Microbiology and Immunology</i> , 2012 , 359, 79-94	3.3	39
43	N-Glycans on the Nipah virus attachment glycoprotein modulate fusion and viral entry as they protect against antibody neutralization. <i>Journal of Virology</i> , 2012 , 86, 11991-2002	6.6	38
42	Nipah virus attachment glycoprotein stalk C-terminal region links receptor binding to fusion triggering. <i>Journal of Virology</i> , 2015 , 89, 1838-50	6.6	37
41	A quantitative and kinetic fusion protein-triggering assay can discern distinct steps in the nipah virus membrane fusion cascade. <i>Journal of Virology</i> , 2010 , 84, 8033-41	6.6	36
40	Emerging paramyxoviruses: molecular mechanisms and antiviral strategies. <i>Expert Reviews in Molecular Medicine</i> , 2011 , 13, e6	6.7	35
39	Paramyxovirus Glycoproteins and the Membrane Fusion Process. <i>Current Clinical Microbiology Reports</i> , 2016 , 3, 142-154	3.1	32

38	Timing of galectin-1 exposure differentially modulates Nipah virus entry and syncytium formation in endothelial cells. <i>Journal of Virology</i> , 2015 , 89, 2520-9	6.6	31
37	Flow virometry as a tool to study viruses. <i>Methods</i> , 2018 , 134-135, 87-97	4.6	29
36	Novel Functions of Hendra Virus G N-Glycans and Comparisons to Nipah Virus. <i>Journal of Virology</i> , 2015 , 89, 7235-47	6.6	27
35	Nipah virion entry kinetics, composition, and conformational changes determined by enzymatic virus-like particles and new flow virometry tools. <i>Journal of Virology</i> , 2014 , 88, 14197-206	6.6	24
34	Expression of 9-- and 7,9--Acetyl Modified Sialic Acid in Cells and Their Effects on Influenza Viruses. <i>MBio</i> , 2019 , 10,	7.8	24
33	Branched dimerization of Tat peptide improves permeability to HeLa and hippocampal neuronal cells. <i>Chemical Communications</i> , 2015 , 51, 5463-6	5.8	23
32	Inhibition of an Aquatic Rhabdovirus Demonstrates Promise of a Broad-Spectrum Antiviral for Use in Aquaculture. <i>Journal of Virology</i> , 2017 , 91,	6.6	22
31	Multiple Novel Functions of Henipavirus O-glycans: The First O-glycan Functions Identified in the Paramyxovirus Family. <i>PLoS Pathogens</i> , 2016 , 12, e1005445	7.6	18
30	Modified Sialic Acids on Mucus and Erythrocytes Inhibit Influenza A Virus Hemagglutinin and Neuraminidase Functions. <i>Journal of Virology</i> , 2020 , 94,	6.6	18
29	Mildly Acidic pH Triggers an Irreversible Conformational Change in the Fusion Domain of Herpes Simplex Virus 1 Glycoprotein B and Inactivation of Viral Entry. <i>Journal of Virology</i> , 2017 , 91,	6.6	16
28	Multiple Strategies Reveal a Bidentate Interaction between the Nipah Virus Attachment and Fusion Glycoproteins. <i>Journal of Virology</i> , 2016 , 90, 10762-10773	6.6	16
27	Individual N-glycans added at intervals along the stalk of the Nipah virus G protein prevent fusion but do not block the interaction with the homologous F protein. <i>Journal of Virology</i> , 2013 , 87, 3119-29	6.6	15
26	Interactions of human complement with virus particles containing the Nipah virus glycoproteins. <i>Journal of Virology</i> , 2011 , 85, 5940-8	6.6	15
25	Broad-spectrum antiviral JL122 blocks infection and inhibits transmission of aquatic rhabdoviruses. <i>Virology</i> , 2018 , 525, 143-149	3.6	15
24	Cytoplasmic Motifs in the Nipah Virus Fusion Protein Modulate Virus Particle Assembly and Egress. <i>Journal of Virology</i> , 2017 , 91,	6.6	14
23	Nipah and Hendra Virus Glycoproteins Induce Comparable Homologous but Distinct Heterologous Fusion Phenotypes. <i>Journal of Virology</i> , 2019 , 93,	6.6	14
22	Ecology, evolution and spillover of coronaviruses from bats. <i>Nature Reviews Microbiology</i> , 2021 ,	22.2	14
21	A TMPRSS2 inhibitor acts as a pan-SARS-CoV-2 prophylactic and therapeutic.. <i>Nature</i> , 2022 ,	50.4	13

20	A stochastic assembly model for Nipah virus revealed by super-resolution microscopy. <i>Nature Communications</i> , 2018 , 9, 3050	17.4	12
19	Ovine Herpesvirus 2 Glycoproteins B, H, and L Are Sufficient for, and Viral Glycoprotein Ov8 Can Enhance, Cell-Cell Membrane Fusion. <i>Journal of Virology</i> , 2017 , 91,	6.6	10
18	Polyethylene glycol-mediated fusion of herpes simplex type 1 virions with the plasma membrane of cells that support endocytic entry. <i>Virology Journal</i> , 2015 , 12, 190	6.1	10
17	Addicted to sugar: roles of glycans in the order Mononegavirales. <i>Glycobiology</i> , 2019 , 29, 2-21	5.8	9
16	Nipah Virus-Like Particle Egress Is Modulated by Cytoskeletal and Vesicular Trafficking Pathways: a Validated Particle Proteomics Analysis. <i>MSystems</i> , 2019 , 4,	7.6	7
15	A novel highly potent inhibitor of TMPRSS2-like proteases blocks SARS-CoV-2 variants of concern and is broadly protective against infection and mortality in mice 2021 ,		7
14	Feline Morbillivirus, a New Paramyxovirus Possibly Associated with Feline Kidney Disease. <i>Viruses</i> , 2020 , 12,	6.2	5
13	Widely Used Herpes Simplex Virus 1 ICP0 Deletion Mutant Strain dl1403 and Its Derivative Viruses Do Not Express Glycoprotein C Due to a Secondary Mutation in the gC Gene. <i>PLoS ONE</i> , 2015 , 10, e0131129	3.7	5
12	Roles of Cholesterol in Early and Late Steps of the Nipah Virus Membrane Fusion Cascade. <i>Journal of Virology</i> , 2021 , 95,	6.6	5
11	Third Helical Domain of the Nipah Virus Fusion Glycoprotein Modulates both Early and Late Steps in the Membrane Fusion Cascade. <i>Journal of Virology</i> , 2020 , 94,	6.6	3
10	SARS-CoV-2 Spike triggers barrier dysfunction and vascular leak via integrins and TGF- β signaling. 2021 ,		2
9	Novel Roles of the N1 Loop and N4 Alpha-Helical Region of the Nipah Virus Fusion Glycoprotein in Modulating Early and Late Steps of the Membrane Fusion Cascade. <i>Journal of Virology</i> , 2021 , 95,	6.6	2
8	SialoPen peptides are new cationic foldamers with remarkable cell permeability. <i>Heliyon</i> , 2020 , 6, e05780	9.6	1
7	Rapid Detection of Viral Envelope Lipids Using Lithium Adducts and AP-MALDI High-Resolution Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2021 , 32, 2322-2333	3.5	1
6	Headless Henipaviral Receptor Binding Glycoproteins Reveal Fusion Modulation by the Head/Stalk Interface and Post-receptor Binding Contributions of the Head Domain. <i>Journal of Virology</i> , 2021 , 95, e0066621	6.6	1
5	Drivers and Distribution of Henipavirus-Induced Syncytia: What Do We Know?. <i>Viruses</i> , 2021 , 13,	6.2	1
4	Antivirals targeting paramyxovirus membrane fusion. <i>Current Opinion in Virology</i> , 2021 , 51, 34-47	7.5	1
3	Finding proteases that make cells go viral. <i>Journal of Biological Chemistry</i> , 2020 , 295, 11408-11409	5.4	0

- 2 An increase in glycoprotein concentration on extracellular virions dramatically alters vaccinia virus infectivity and pathogenesis without impacting immunogenicity.. *PLoS Pathogens*, **2021**, 17, e1010177 7.6 ○
- 1 Novel Roles of the Nipah Virus Attachment Glycoprotein and Its Mobility in Early and Late Membrane Fusion Steps.. *MBio*, **2022**, e0322221 7.8