Hector C Aguilar

List of Publications by Year in Descending Order

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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	A TMPRSS2 inhibitor acts as a pan-SARS-CoV-2 prophylactic and therapeutic.. *Nature*, **2022**,	50.4	13
54	Novel Roles of the Nipah Virus Attachment Glycoprotein and Its Mobility in Early and Late Membrane Fusion Steps.. *MBio*, **2022**, e0322221	7.8	
53	SARS-CoV-2 Spike triggers barrier dysfunction and vascular leak via integrins and TGF-β signaling. **2021**,		2
52	Ecology, evolution and spillover of coronaviruses from bats. *Nature Reviews Microbiology*, **2021**,	22.2	14
51	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. *Journal of Virology*, **2021**, 95,	6.6	2
50	Rapid Detection of Viral Envelope Lipids Using Lithium Adducts and AP-MALDI High-Resolution Mass Spectrometry. *Journal of the American Society for Mass Spectrometry*, **2021**, 32, 2322-2333	3.5	1
49	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
48	Roles of Cholesterol in Early and Late Steps of the Nipah Virus Membrane Fusion Cascade. *Journal of Virology*, **2021**, 95,	6.6	5
47	Headless Henipaviral Receptor Binding Glycoproteins Reveal Fusion Modulation by the Head/Stalk Interface and Post-receptor Binding Contributions of the Head Domain. *Journal of Virology*, **2021**, 95, e0066621	6.6	1
46	Drivers and Distribution of Henipavirus-Induced Syncytia: What Do We Know?. *Viruses*, **2021**, 13,	6.2	1
45	Antivirals targeting paramyxovirus membrane fusion. *Current Opinion in Virology*, **2021**, 51, 34-47	7.5	1
44	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	0
43	Feline Morbillivirus, a New Paramyxovirus Possibly Associated with Feline Kidney Disease. *Viruses*, **2020**, 12,	6.2	5
42	Finding proteases that make cells go viral. *Journal of Biological Chemistry*, **2020**, 295, 11408-11409	5.4	0
41	SialoPen peptides are new cationic foldamers with remarkable cell permeability. *Heliyon*, **2020**, 6, e05786	3.6	1
40	Third Helical Domain of the Nipah Virus Fusion Glycoprotein Modulates both Early and Late Steps in the Membrane Fusion Cascade. *Journal of Virology*, **2020**, 94,	6.6	3
39	Modified Sialic Acids on Mucus and Erythrocytes Inhibit Influenza A Virus Hemagglutinin and Neuraminidase Functions. *Journal of Virology*, **2020**, 94,	6.6	18

38	Nipah Virus-Like Particle Egress Is Modulated by Cytoskeletal and Vesicular Trafficking Pathways: a Validated Particle Proteomics Analysis. *MSystems*, **2019**, 4,	7.6	7
37	Nipah and Hendra Virus Glycoproteins Induce Comparable Homologous but Distinct Heterologous Fusion Phenotypes. *Journal of Virology*, **2019**, 93,	6.6	14
36	Addicted to sugar: roles of glycans in the order Mononegavirales. *Glycobiology*, **2019**, 29, 2-21	5.8	9
35	Expression of 9-- and 7,9--Acetyl Modified Sialic Acid in Cells and Their Effects on Influenza Viruses. *MBio*, **2019**, 10,	7.8	24
34	Flow virometry as a tool to study viruses. *Methods*, **2018**, 134-135, 87-97	4.6	29
33	A stochastic assembly model for Nipah virus revealed by super-resolution microscopy. *Nature Communications*, **2018**, 9, 3050	17.4	12
32	Broad-spectrum antiviral JL122 blocks infection and inhibits transmission of aquatic rhabdoviruses. *Virology*, **2018**, 525, 143-149	3.6	15
31	Ovine Herpesvirus 2 Glycoproteins B, H, and L Are Sufficient for, and Viral Glycoprotein Ov8 Can Enhance, Cell-Cell Membrane Fusion. *Journal of Virology*, **2017**, 91,	6.6	10
30	Cytoplasmic Motifs in the Nipah Virus Fusion Protein Modulate Virus Particle Assembly and Egress. *Journal of Virology*, **2017**, 91,	6.6	14
29	Inhibition of an Aquatic Rhabdovirus Demonstrates Promise of a Broad-Spectrum Antiviral for Use in Aquaculture. *Journal of Virology*, **2017**, 91,	6.6	22
28	Mildly Acidic pH Triggers an Irreversible Conformational Change in the Fusion Domain of Herpes Simplex Virus 1 Glycoprotein B and Inactivation of Viral Entry. *Journal of Virology*, **2017**, 91,	6.6	16
27	Multiple Strategies Reveal a Bidentate Interaction between the Nipah Virus Attachment and Fusion Glycoproteins. *Journal of Virology*, **2016**, 90, 10762-10773	6.6	16
26	Multiple Novel Functions of Henipavirus O-glycans: The First O-glycan Functions Identified in the Paramyxovirus Family. *PLoS Pathogens*, **2016**, 12, e1005445	7.6	18
25	Paramyxovirus Glycoproteins and the Membrane Fusion Process. *Current Clinical Microbiology Reports*, **2016**, 3, 142-154	3.1	32
24	Branched dimerization of Tat peptide improves permeability to HeLa and hippocampal neuronal cells. *Chemical Communications*, **2015**, 51, 5463-6	5.8	23
23	Polyethylene glycol-mediated fusion of herpes simplex type 1 virions with the plasma membrane of cells that support endocytic entry. *Virology Journal*, **2015**, 12, 190	6.1	10
22	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. *PLoS ONE*, **2015**, 10, e0131129	3.7	5
21	Timing of galectin-1 exposure differentially modulates Nipah virus entry and syncytium formation in endothelial cells. *Journal of Virology*, **2015**, 89, 2520-9	6.6	31

20	Novel Functions of Hendra Virus G N-Glycans and Comparisons to Nipah Virus. *Journal of Virology*, **2015**, 89, 7235-47	6.6	27
19	Nipah virus attachment glycoprotein stalk C-terminal region links receptor binding to fusion triggering. *Journal of Virology*, **2015**, 89, 1838-50	6.6	37
18	Crystal Structure of the Pre-fusion Nipah Virus Fusion Glycoprotein Reveals a Novel Hexamer-of-Trimers Assembly. *PLoS Pathogens*, **2015**, 11, e1005322	7.6	41
17	Nipah virion entry kinetics, composition, and conformational changes determined by enzymatic virus-like particles and new flow virometry tools. *Journal of Virology*, **2014**, 88, 14197-206	6.6	24
16	Unraveling a three-step spatiotemporal mechanism of triggering of receptor-induced Nipah virus fusion and cell entry. *PLoS Pathogens*, **2013**, 9, e1003770	7.6	65
15	A mechanistic paradigm for broad-spectrum antivirals that target virus-cell fusion. *PLoS Pathogens*, **2013**, 9, e1003297	7.6	72
14	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. *Journal of Virology*, **2013**, 87, 3119-29	6.6	15
13	N-Glycans on the Nipah virus attachment glycoprotein modulate fusion and viral entry as they protect against antibody neutralization. *Journal of Virology*, **2012**, 86, 11991-2002	6.6	38
12	Henipavirus membrane fusion and viral entry. *Current Topics in Microbiology and Immunology*, **2012**, 359, 79-94	3.3	39
11	Cysteines in the stalk of the nipah virus G glycoprotein are located in a distinct subdomain critical for fusion activation. *Journal of Virology*, **2012**, 86, 6632-42	6.6	41
10	Interactions of human complement with virus particles containing the Nipah virus glycoproteins. *Journal of Virology*, **2011**, 85, 5940-8	6.6	15
9	Emerging paramyxoviruses: molecular mechanisms and antiviral strategies. *Expert Reviews in Molecular Medicine*, **2011**, 13, e6	6.7	35
8	A quantitative and kinetic fusion protein-triggering assay can discern distinct steps in the nipah virus membrane fusion cascade. *Journal of Virology*, **2010**, 84, 8033-41	6.6	36
7	A broad-spectrum antiviral targeting entry of enveloped viruses. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 3157-62	11.5	177
6	A novel receptor-induced activation site in the Nipah virus attachment glycoprotein (G) involved in triggering the fusion glycoprotein (F). *Journal of Biological Chemistry*, **2009**, 284, 1628-35	5.4	68
5	Polybasic KKR motif in the cytoplasmic tail of Nipah virus fusion protein modulates membrane fusion by inside-out signaling. *Journal of Virology*, **2007**, 81, 4520-32	6.6	84
4	Single amino acid changes in the Nipah and Hendra virus attachment glycoproteins distinguish ephrinB2 from ephrinB3 usage. *Journal of Virology*, **2007**, 81, 10804-14	6.6	71
3	Two key residues in ephrinB3 are critical for its use as an alternative receptor for Nipah virus. *PLoS Pathogens*, **2006**, 2, e7	7.6	197

2	N-glycans on Nipah virus fusion protein protect against neutralization but reduce membrane fusion and viral entry. *Journal of Virology*, **2006**, 80, 4878-89	6.6	147
1	EphrinB2 is the entry receptor for Nipah virus, an emergent deadly paramyxovirus. *Nature*, **2005**, 436, 401-5	50.4	355