

# Roberto Cattaneo

## List of Publications by Citations

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84  
papers

5,666  
citations

44  
h-index

75  
g-index

88  
ext. papers

6,261  
ext. citations

8.6  
avg. IF

5.68  
L-index

#	Paper	IF	Citations
84	Adherens junction protein nectin-4 is the epithelial receptor for measles virus. <i>Nature</i> , <b>2011</b> , 480, 530-3	50.4	405
83	Biased hypermutation and other genetic changes in defective measles viruses in human brain infections. <i>Cell</i> , <b>1988</b> , 55, 255-65	56.2	380
82	Measles virus editing provides an additional cysteine-rich protein. <i>Cell</i> , <b>1989</b> , 56, 759-64	56.2	308
81	Reprogrammed viruses as cancer therapeutics: targeted, armed and shielded. <i>Nature Reviews Microbiology</i> , <b>2008</b> , 6, 529-40	22.2	297
80	Measles viruses with altered envelope protein cytoplasmic tails gain cell fusion competence. <i>Journal of Virology</i> , <b>1998</b> , 72, 1224-34	6.6	228
79	A matrix-less measles virus is infectious and elicits extensive cell fusion: consequences for propagation in the brain. <i>EMBO Journal</i> , <b>1998</b> , 17, 3899-908	13	208
78	New viruses for cancer therapy: meeting clinical needs. <i>Nature Reviews Microbiology</i> , <b>2014</b> , 12, 23-34	22.2	187
77	Four viruses, two bacteria, and one receptor: membrane cofactor protein (CD46) as pathogensU magnet. <i>Journal of Virology</i> , <b>2004</b> , 78, 4385-8	6.6	174
76	Measles virus blind to its epithelial cell receptor remains virulent in rhesus monkeys but cannot cross the airway epithelium and is not shed. <i>Journal of Clinical Investigation</i> , <b>2008</b> , 118, 2448-58	15.9	169
75	Tyrosine 110 in the measles virus phosphoprotein is required to block STAT1 phosphorylation. <i>Virology</i> , <b>2007</b> , 360, 72-83	3.6	139
74	The hemagglutinin of canine distemper virus determines tropism and cytopathogenicity. <i>Journal of Virology</i> , <b>2001</b> , 75, 6418-27	6.6	133
73	Receptor (SLAM [CD150]) recognition and the V protein sustain swift lymphocyte-based invasion of mucosal tissue and lymphatic organs by a morbillivirus. <i>Journal of Virology</i> , <b>2006</b> , 80, 6084-92	6.6	124
72	Measles virus phosphoprotein retains the nucleocapsid protein in the cytoplasm. <i>Virology</i> , <b>1991</b> , 185, 299-308	3.6	116
71	Single-chain antibody displayed on a recombinant measles virus confers entry through the tumor-associated carcinoembryonic antigen. <i>Journal of Virology</i> , <b>2001</b> , 75, 2087-96	6.6	107
70	Subacute sclerosing panencephalitis is typically characterized by alterations in the fusion protein cytoplasmic domain of the persisting measles virus. <i>Virology</i> , <b>1992</b> , 188, 910-5	3.6	101
69	Recombinant measles viruses efficiently entering cells through targeted receptors. <i>Journal of Virology</i> , <b>2000</b> , 74, 9928-36	6.6	97
68	Polyploid measles virus with hexameric genome length. <i>EMBO Journal</i> , <b>2002</b> , 21, 2364-72	13	93

67	Measles virus envelope glycoproteins hetero-oligomerize in the endoplasmic reticulum. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 44239-46	5.4	88
66	Attenuation of V- or C-defective measles viruses: infection control by the inflammatory and interferon responses of rhesus monkeys. <i>Journal of Virology</i> , <b>2008</b> , 82, 5359-67	6.6	87
65	The heads of the measles virus attachment protein move to transmit the fusion-triggering signal. <i>Nature Structural and Molecular Biology</i> , <b>2011</b> , 18, 128-34	17.6	84
64	Preferential initiation at the second AUG of the measles virus F mRNA: a role for the long untranslated region. <i>Virology</i> , <b>1995</b> , 214, 628-32	3.6	83
63	Measles virus infection of alveolar macrophages and dendritic cells precedes spread to lymphatic organs in transgenic mice expressing human signaling lymphocytic activation molecule (SLAM, CD150). <i>Journal of Virology</i> , <b>2010</b> , 84, 3033-42	6.6	79
62	Canine distemper virus uses both the anterograde and the hematogenous pathway for neuroinvasion. <i>Journal of Virology</i> , <b>2006</b> , 80, 9361-70	6.6	79
61	Measles virus phosphoprotein gene products: conformational flexibility of the P/V protein amino-terminal domain and C protein infectivity factor function. <i>Journal of Virology</i> , <b>2004</b> , 78, 11632-40	6.6	69
60	Connections matter—how viruses use cell-cell adhesion components. <i>Journal of Cell Science</i> , <b>2015</b> , 128, 431-9	5.3	65
59	Protein kinase PKR mediates the apoptosis induction and growth restriction phenotypes of C protein-deficient measles virus. <i>Journal of Virology</i> , <b>2009</b> , 83, 961-8	6.6	65
58	Mechanisms of protein kinase PKR-mediated amplification of beta interferon induction by C protein-deficient measles virus. <i>Journal of Virology</i> , <b>2010</b> , 84, 380-6	6.6	64
57	Measles virus selectively blind to signaling lymphocytic activation molecule (SLAM; CD150) is attenuated and induces strong adaptive immune responses in rhesus monkeys. <i>Journal of Virology</i> , <b>2010</b> , 84, 3413-20	6.6	64
56	In vitro and in vivo infection of neural cells by a recombinant measles virus expressing enhanced green fluorescent protein. <i>Journal of Virology</i> , <b>2000</b> , 74, 7972-9	6.6	60
55	Measles virus C protein impairs production of defective copyback double-stranded viral RNA and activation of protein kinase R. <i>Journal of Virology</i> , <b>2014</b> , 88, 456-68	6.6	59
54	Measles Virus Defective Interfering RNAs Are Generated Frequently and Early in the Absence of C Protein and Can Be Destabilized by Adenosine Deaminase Acting on RNA-1-Like Hypermutations. <i>Journal of Virology</i> , <b>2015</b> , 89, 7735-47	6.6	59
53	In vivo transduction of primitive mobilized hematopoietic stem cells after intravenous injection of integrating adenovirus vectors. <i>Blood</i> , <b>2016</b> , 128, 2206-2217	2.2	59
52	Species B adenovirus serotypes 3, 7, 11 and 35 share similar binding sites on the membrane cofactor protein CD46 receptor. <i>Journal of General Virology</i> , <b>2007</b> , 88, 2925-2934	4.9	58
51	Dynamic interaction of the measles virus hemagglutinin with its receptor signaling lymphocytic activation molecule (SLAM, CD150). <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 11763-71	5.4	57
50	Measles virus vaccine attenuation: suboptimal infection of lymphatic tissue and tropism alteration. <i>Journal of Infectious Diseases</i> , <b>2007</b> , 196, 541-9	7	57

49	Roles of macrophages in measles virus infection of genetically modified mice. <i>Journal of Virology</i> , <b>2001</b> , 75, 3343-51	6.6	57
48	Measles virus preferentially transduces the basolateral surface of well-differentiated human airway epithelia. <i>Journal of Virology</i> , <b>2002</b> , 76, 2403-9	6.6	56
47	Characterization of a region of the measles virus hemagglutinin sufficient for its dimerization. <i>Journal of Virology</i> , <b>2000</b> , 74, 6485-93	6.6	56
46	Direct cell-to-cell transmission of respiratory viruses: The fast lanes. <i>PLoS Pathogens</i> , <b>2018</b> , 14, e1007015	6.6	53
45	Canine distemper virus epithelial cell infection is required for clinical disease but not for immunosuppression. <i>Journal of Virology</i> , <b>2012</b> , 86, 3658-66	6.6	50
44	Reverse genetics of Mononegavirales: How they work, new vaccines, and new cancer therapeutics. <i>Virology</i> , <b>2015</b> , 479-480, 331-44	3.6	47
43	A recombinant measles virus unable to antagonize STAT1 function cannot control inflammation and is attenuated in rhesus monkeys. <i>Journal of Virology</i> , <b>2011</b> , 85, 348-56	6.6	47
42	Extensive editing of cellular and viral double-stranded RNA structures accounts for innate immunity suppression and the proviral activity of ADAR1p150. <i>PLoS Biology</i> , <b>2018</b> , 16, e2006577	9.7	47
41	Measles virus spread by cell-cell contacts: uncoupling of contact-mediated receptor (CD46) downregulation from virus uptake. <i>Journal of Virology</i> , <b>1999</b> , 73, 5265-73	6.6	44
40	Membrane fusion triggering: three modules with different structure and function in the upper half of the measles virus attachment protein stalk. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 38543-51	5.4	43
39	Nectin-4-dependent measles virus spread to the cynomolgus monkey tracheal epithelium: role of infected immune cells infiltrating the lamina propria. <i>Journal of Virology</i> , <b>2013</b> , 87, 2526-34	6.6	42
38	The Nectin-4/Afadin Protein Complex and Intercellular Membrane Pores Contribute to Rapid Spread of Measles Virus in Primary Human Airway Epithelia. <i>Journal of Virology</i> , <b>2015</b> , 89, 7089-96	6.6	37
37	Sequence of events in measles virus replication: role of phosphoprotein-nucleocapsid interactions. <i>Journal of Virology</i> , <b>2014</b> , 88, 10851-63	6.6	37
36	Severe Acute Respiratory Syndrome Coronavirus 2, COVID-19, and the Renin-Angiotensin System: Pressing Needs and Best Research Practices. <i>Hypertension</i> , <b>2020</b> , 76, 1350-1367	8.5	36
35	Base of the measles virus fusion trimer head receives the signal that triggers membrane fusion. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 33026-35	5.4	34
34	The measles virus hemagglutinin Epropeller head B-B hydrophobic groove governs functional interactions with nectin-4 and CD46 but not those with the signaling lymphocytic activation molecule. <i>Journal of Virology</i> , <b>2013</b> , 87, 9208-16	6.6	32
33	Morbillivirus control of the interferon response: relevance of STAT2 and mda5 but not STAT1 for canine distemper virus virulence in ferrets. <i>Journal of Virology</i> , <b>2014</b> , 88, 2941-50	6.6	30
32	Receptor-mediated cell entry of paramyxoviruses: Mechanisms, and consequences for tropism and pathogenesis. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 2771-2786	5.4	29

31	Structural basis of efficient contagion: measles variations on a theme by parainfluenza viruses. <i>Current Opinion in Virology</i> , <b>2014</b> , 5, 16-23	7.5	29
30	Cell-to-Cell Contact and Nectin-4 Govern Spread of Measles Virus from Primary Human Myeloid Cells to Primary Human Airway Epithelial Cells. <i>Journal of Virology</i> , <b>2016</b> , 90, 6808-6817	6.6	28
29	Measles virus entry through the signaling lymphocyte activation molecule governs efficacy of mantle cell lymphoma radiotherapy. <i>Molecular Therapy</i> , <b>2013</b> , 21, 2019-31	11.7	24
28	The measles virus hemagglutinin stalk: structures and functions of the central fusion activation and membrane-proximal segments. <i>Journal of Virology</i> , <b>2014</b> , 88, 6158-67	6.6	23
27	Cyclical adaptation of measles virus quasispecies to epithelial and lymphocytic cells: To V, or not to V. <i>PLoS Pathogens</i> , <b>2019</b> , 15, e1007605	7.6	20
26	Nectin-4 Interactions Govern Measles Virus Virulence in a New Model of Pathogenesis, the Squirrel Monkey ( <i>Saimiri sciureus</i> ). <i>Journal of Virology</i> , <b>2017</b> , 91,	6.6	19
25	Hydrophobic and charged residues in the central segment of the measles virus hemagglutinin stalk mediate transmission of the fusion-triggering signal. <i>Journal of Virology</i> , <b>2013</b> , 87, 10401-4	6.6	19
24	Measles virus superinfection immunity and receptor redistribution in persistently infected NT2 cells. <i>Journal of General Virology</i> , <b>2005</b> , 86, 2291-2303	4.9	19
23	Paramyxovirus entry and targeted vectors for cancer therapy. <i>PLoS Pathogens</i> , <b>2010</b> , 6, e1000973	7.6	18
22	How to develop viruses into anticancer weapons. <i>PLoS Pathogens</i> , <b>2017</b> , 13, e1006190	7.6	17
21	Structural and functional analyses reveal promiscuous and species specific use of ephrin receptors by Cedar virus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 20707-20715	11.5	17
20	Rescue and characterization of recombinant cedar virus, a non-pathogenic Henipavirus species. <i>Virology Journal</i> , <b>2018</b> , 15, 56	6.1	15
19	-endocytosis elicited by nectins transfers cytoplasmic cargo, including infectious material, between cells. <i>Journal of Cell Science</i> , <b>2019</b> , 132,	5.3	15
18	Different roles of the three loops forming the adhesive interface of nectin-4 in measles virus binding and cell entry, nectin-4 homodimerization, and heterodimerization with nectin-1. <i>Journal of Virology</i> , <b>2014</b> , 88, 14161-71	6.6	15
17	Canine Distemper Virus Spread and Transmission to Naive Ferrets: Selective Pressure on Signaling Lymphocyte Activation Molecule-Dependent Entry. <i>Journal of Virology</i> , <b>2018</b> , 92,	6.6	15
16	A Structurally Unresolved Head Segment of Defined Length Favors Proper Measles Virus Hemagglutinin Tetramerization and Efficient Membrane Fusion Triggering. <i>Journal of Virology</i> , <b>2016</b> , 90, 68-75	6.6	14
15	Stronger together: Multi-genome transmission of measles virus. <i>Virus Research</i> , <b>2019</b> , 265, 74-79	6.4	13
14	Upon Infection, Cellular WD Repeat-Containing Protein 5 (WDR5) Localizes to Cytoplasmic Inclusion Bodies and Enhances Measles Virus Replication. <i>Journal of Virology</i> , <b>2018</b> , 92,	6.6	13

13	Measles Virus Ribonucleoprotein Complexes Rapidly Spread across Well-Differentiated Primary Human Airway Epithelial Cells along F-Actin Rings. <i>MBio</i> , <b>2019</b> , 10,	7.8	12
12	Nuclear reprogramming with a non-integrating human RNA virus. <i>Stem Cell Research and Therapy</i> , <b>2015</b> , 6, 48	8.3	11
11	The C Protein Is Recruited to Measles Virus Ribonucleocapsids by the Phosphoprotein. <i>Journal of Virology</i> , <b>2020</b> , 94,	6.6	10
10	A Tupaia paramyxovirus vector system for targeting and transgene expression. <i>Journal of General Virology</i> , <b>2017</b> , 98, 2248-2257	4.9	5
9	Oncolytic Measles Virotherapy and Opposition to Measles Vaccination. <i>Mayo Clinic Proceedings</i> , <b>2019</b> , 94, 1834-1839	6.4	4
8	Highly Efficient SARS-CoV-2 Infection of Human Cardiomyocytes: Spike Protein-Mediated Cell Fusion and Its Inhibition. <i>Journal of Virology</i> , <b>2021</b> , 95, e0136821	6.6	3
7	Measles virus exits human airway epithelia via infectious center sloughing		3
6	Development of Entry-Targeted Oncolytic Measles Viruses. <i>Methods in Molecular Biology</i> , <b>2020</b> , 2058, 51-75	1.4	2
5	Measles virus exits human airway epithelia within dislodged metabolically active infectious centers. <i>PLoS Pathogens</i> , <b>2021</b> , 17, e1009458	7.6	2
4	C Proteins: Controllers of Orderly Paramyxovirus Replication and of the Innate Immune Response.. <i>Viruses</i> , <b>2022</b> , 14,	6.2	1
3	Targeting Measles Virus Entry <b>2003</b> , 321-336		
2	Measles Virus (Paramyxoviridae) <b>2021</b> , 619-628		
1	A recombinant Cedar virus based high-throughput screening assay for henipavirus antiviral discovery. <i>Antiviral Research</i> , <b>2021</b> , 193, 105084	10.8	