Robert A Lamb

List of Publications by Year
in descending order

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109 papers	13,571 citations	20817 60 h-index	25787 108 g-index
110 all docs	110 docs citations	110 times ranked	8838 citing authors

#	Article	IF	Citations
1	Influenza virus M2 protein has ion channel activity. Cell, 1992, 69, 517-528.	28.9	1,142
2	Influenza virus M2 protein is an integral membrane protein expressed on the infected-cell surface. Cell, 1985, 40, 627-633.	28.9	585
3	Influenza virus assembly and budding. Virology, 2011, 411, 229-236.	2.4	514
4	Folding and Assembly of Viral Membrane Proteins. Virology, 1993, 193, 545-562.	2.4	502
5	Paramyxovirus Fusion: A Hypothesis for Changes. Virology, 1993, 197, 1-11.	2.4	445
6	Influenza Virus M2 Protein Mediates ESCRT-Independent Membrane Scission. Cell, 2010, 142, 902-913.	28.9	440
7	Taxonomy of the order Mononegavirales: update 2016. Archives of Virology, 2016, 161, 2351-2360.	2.1	407
8	Structure of the parainfluenza virus 5 F protein in its metastable, prefusion conformation. Nature, 2006, 439, 38-44.	27.8	374
9	Structural Basis for Paramyxovirus-Mediated Membrane Fusion. Molecular Cell, 1999, 3, 309-319.	9.7	371
10	Influenza Virus Assembly and Lipid Raft Microdomains: a Role for the Cytoplasmic Tails of the Spike Glycoproteins. Journal of Virology, 2000, 74, 4634-4644.	3.4	343
11	Influenza virus hemagglutinin concentrates in lipid raft microdomains for efficient viral fusion. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 14610-14617.	7.1	323
12	Structure of the uncleaved ectodomain of the paramyxovirus (hPIV3) fusion protein. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 9288-9293.	7.1	288
13	Influenza Virus Hemagglutinin and Neuraminidase, but Not the Matrix Protein, Are Required for Assembly and Budding of Plasmid-Derived Virus-Like Particles. Journal of Virology, 2007, 81, 7111-7123.	3.4	267
14	Mechanisms for enveloped virus budding: Can some viruses do without an ESCRT?. Virology, 2008, 372, 221-232.	2.4	257
15	Structural basis of viral invasion: lessons from paramyxovirus F. Current Opinion in Structural Biology, 2007, 17, 427-436.	5.7	256
16	Taxonomy of the order Mononegavirales: update 2019. Archives of Virology, 2019, 164, 1967-1980.	2.1	224
17	The Influenza Virus M2 Protein Cytoplasmic Tail Interacts with the M1 Protein and Influences Virus Assembly at the Site of Virus Budding. Journal of Virology, 2008, 82, 10059-10070.	3.4	220
18	Paramyxovirus membrane fusion: Lessons from the F and HN atomic structures. Virology, 2006, 344, 30-37.	2.4	216

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19	The Innate Immune Sensor LGP2 Activates Antiviral Signaling by Regulating MDA5-RNA Interaction and Filament Assembly. Molecular Cell, 2014, 55, 771-781.	9.7	208
20	Recovery of Infectious SV5 from Cloned DNA and Expression of a Foreign Gene. Virology, 1997, 237, 249-260.	2.4	195
21	ICTV Virus Taxonomy Profile: Paramyxoviridae. Journal of General Virology, 2019, 100, 1593-1594.	2.9	194
22	Influenza virus assembly and budding in raft-derived microdomains: A quantitative analysis of the surface distribution of HA, NA and M2 proteins. Virology, 2005, 342, 215-227.	2.4	193
23	Structural Studies of the Parainfluenza Virus 5 Hemagglutinin-Neuraminidase Tetramer in Complex with Its Receptor, Sialyllactose. Structure, 2005, 13, 803-815.	3.3	187
24	2020 taxonomic update for phylum Negarnaviricota (Riboviria: Orthornavirae), including the large orders Bunyavirales and Mononegavirales. Archives of Virology, 2020, 165, 3023-3072.	2.1	184
25	Taxonomy of the order Mononegavirales: update 2017. Archives of Virology, 2017, 162, 2493-2504.	2.1	173
26	A Core Trimer of the Paramyxovirus Fusion Protein: Parallels to Influenza Virus Hemagglutinin and HIV-1 gp41. Virology, 1998, 248, 20-34.	2.4	166
27	Influenza Virus M2 Ion Channel Protein Is Necessary for Filamentous Virion Formation. Journal of Virology, 2010, 84, 5078-5088.	3.4	161
28	Taxonomy of the order Mononegavirales: update 2018. Archives of Virology, 2018, 163, 2283-2294.	2.1	153
29	Structure of the Newcastle disease virus hemagglutinin-neuraminidase (HN) ectodomain reveals a four-helix bundle stalk. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 14920-14925.	7.1	147
30	Evidence for a New Viral Late-Domain Core Sequence, FPIV, Necessary for Budding of a Paramyxovirus. Journal of Virology, 2005, 79, 2988-2997.	3.4	141
31	Requirements for Budding of Paramyxovirus Simian Virus 5 Virus-Like Particles. Journal of Virology, 2002, 76, 3952-3964.	3.4	129
32	A class act. Nature, 2004, 427, 307-308.	27.8	126
33	Fusion Protein of the Paramyxovirus SV5: Destabilizing and Stabilizing Mutants of Fusion Activation. Virology, 2000, 270, 17-30.	2.4	122
34	Influenza Virus Hemagglutinin (H3 Subtype) Requires Palmitoylation of Its Cytoplasmic Tail for Assembly: M1 Proteins of Two Subtypes Differ in Their Ability To Support Assembly. Journal of Virology, 2005, 79, 13673-13684.	3.4	122
35	Activation of paramyxovirus membrane fusion and virus entry. Current Opinion in Virology, 2014, 5, 24-33.	5.4	120
36	Initial structural and dynamic characterization of the M2 protein transmembrane and amphipathic helices in lipid bilayers. Protein Science, 2009, 12, 2597-2605.	7.6	119

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37	Virus Membrane Fusion Proteins: Biological Machines that Undergo a Metamorphosis. Bioscience Reports, 2000, 20, 597-612.	2.4	117
38	Influenza A Virus Uses Intercellular Connections To Spread to Neighboring Cells. Journal of Virology, 2015, 89, 1537-1549.	3.4	110
39	Ability of the hydrophobic fusion-related external domain of a paramyxovirus F protein to act as a membrane anchor. Cell, 1987, 48, 441-452.	28.9	105
40	A dual-functional paramyxovirus F protein regulatory switch segment. Journal of Cell Biology, 2003, 163, 363-374.	5.2	100
41	Characterization of the Membrane Association of the Influenza Virus Matrix Protein in Living Cells. Virology, 1996, 225, 255-266.	2.4	99
42	Timing is everything: Fine-tuned molecular machines orchestrate paramyxovirus entry. Virology, 2015, 479-480, 518-531.	2.4	96
43	Influenza Virus Assembly and Budding at the Viral Budozone. Advances in Virus Research, 2005, 64, 383-416.	2.1	91
44	Structure of the paramyxovirus parainfluenza virus 5 nucleoproteinâ€“RNA complex. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E1792-9.	7.1	91
45	Refolding of a paramyxovirus F protein from prefusion to postfusion conformations observed by liposome binding and electron microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 17903-17908.	7.1	86
46	Bimolecular Complementation of Paramyxovirus Fusion and Hemagglutinin-Neuraminidase Proteins Enhances Fusion: Implications for the Mechanism of Fusion Triggering. Journal of Virology, 2009, 83, 10857-10868.	3.4	84
47	Fusion activation by a headless parainfluenza virus 5 hemagglutinin-neuraminidase stalk suggests a modular mechanism for triggering. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E2625-34.	7.1	84
48	Structure of the cleavage-activated prefusion form of the parainfluenza virus 5 fusion protein. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 16672-16677.	7.1	80
49	The Cytoplasmic Tails of the Influenza Virus Spike Glycoproteins Are Required for Normal Genome Packaging. Virology, 2000, 269, 325-334.	2.4	79
50	Activation of a paramyxovirus fusion protein is modulated by inside-out signaling from the cytoplasmic tail. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 9217-9222.	7.1	78
51	Structure of the Newcastle disease virus F protein in the post-fusion conformation. Virology, 2010, 402, 372-379.	2.4	77
52	Fusion Activation through Attachment Protein Stalk Domains Indicates a Conserved Core Mechanism of Paramyxovirus Entry into Cells. Journal of Virology, 2014, 88, 3925-3941.	3.4	76
53	Structure and Mutagenesis of the Parainfluenza Virus 5 Hemagglutinin-Neuraminidase Stalk Domain Reveals a Four-Helix Bundle and the Role of the Stalk in Fusion Promotion. Journal of Virology, 2011, 85, 12855-12866.	3.4	72
54	Taxonomy of the order Mononegavirales: second update 2018. Archives of Virology, 2019, 164, 1233-1244.	2.1	70

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55	Structure of a paramyxovirus polymerase complex reveals a unique methyltransferase-CTD conformation. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 4931-4941.	7.1	70
56	The Amphipathic Helix of Influenza A Virus M2 Protein Is Required for Filamentous Bud Formation and Scission of Filamentous and Spherical Particles. Journal of Virology, 2013, 87, 9973-9982.	3.4	69
57	Conserved Glycine Residues in the Fusion Peptide of the Paramyxovirus Fusion Protein Regulate Activation of the Native State. Journal of Virology, 2004, 78, 13727-13742.	3.4	66
58	Structure of the human metapneumovirus fusion protein with neutralizing antibody identifies a pneumovirus antigenic site. Nature Structural and Molecular Biology, 2012, 19, 461-463.	8.2	66
59	The Influenza Virus M2Ion Channel Protein: Probing the Structure of the Transmembrane Domain in Intact Cells by Using Engineered Disulfide Cross-Linking. Virology, 1999, 254, 196-209.	2.4	65
60	Structural basis for antibody cross-neutralization of respiratory syncytial virus and human metapneumovirus. Nature Microbiology, 2017, 2, 16272.	13.3	65
61	Roles for the Cytoplasmic Tails of the Fusion and Hemagglutinin-Neuraminidase Proteins in Budding of the Paramyxovirus Simian Virus 5. Journal of Virology, 2002, 76, 9284-9297.	3.4	64
62	The Role of the Cytoplasmic Tail Region of Influenza Virus Hemagglutinin in Formation and Growth of Fusion Pores. Virology, 1997, 235, 118-128.	2.4	63
63	Mutations in the Parainfluenza Virus 5 Fusion Protein Reveal Domains Important for Fusion Triggering and Metastability. Journal of Virology, 2013, 87, 13520-13531.	3.4	62
64	Involvement of the Cytoplasmic Domain of the Hemagglutinin-Neuraminidase Protein in Assembly of the Paramyxovirus Simian Virus 5. Journal of Virology, 1999, 73, 8703-8712.	3.4	62
65	Structure of the Parainfluenza Virus 5 (PIV5) Hemagglutinin-Neuraminidase (HN) Ectodomain. PLoS Pathogens, 2013, 9, e1003534.	4.7	61
66	Influenza virus is not restricted by tetherin whereas influenza VLP production is restricted by tetherin. Virology, 2011, 417, 50-56.	2.4	58
67	Structure and stabilization of the Hendra virus F glycoprotein in its prefusion form. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1056-1061.	7.1	58
68	Structure of the Ulster Strain Newcastle Disease Virus Hemagglutinin-Neuraminidase Reveals Auto-Inhibitory Interactions Associated with Low Virulence. PLoS Pathogens, 2012, 8, e1002855.	4.7	57
69	The Paramyxovirus SV5 Small Hydrophobic (SH) Protein Is Not Essential for Virus Growth in Tissue Culture Cells. Virology, 1998, 250, 30-40.	2.4	56
70	Functional Analysis of the Transmembrane Domain in Paramyxovirus F Protein-Mediated Membrane Fusion. Journal of Molecular Biology, 2009, 386, 14-36.	4.2	54
71	Paramyxovirus Fusion (F) Protein: A Conformational Change on Cleavage Activation. Virology, 2001, 281, 138-150.	2.4	53
72	Capture and imaging of a prehairpin fusion intermediate of the paramyxovirus PIV5. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20992-20997.	7.1	51

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73	Lateral Organization of Influenza Virus Proteins in the Budozone Region of the Plasma Membrane. Journal of Virology, 2017, 91, .	3.4	49
74	Viral Membrane Scission. Annual Review of Cell and Developmental Biology, 2013, 29, 551-569.	9.4	46
75	Probing the paramyxovirus fusion (F) protein-refolding event from pre- to postfusion by oxidative footprinting. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E2596-605.	7.1	44
76	Domain architecture and oligomerization properties of the paramyxovirus PIV 5 hemagglutinin-neuraminidase (HN) protein. Virology, 2008, 378, 282-291.	2.4	43
77	Comparison of differing cytopathic effects in human airway epithelium of parainfluenza virus 5 (W3A), parainfluenza virus type 3, and respiratory syncytial virus. Virology, 2011, 421, 67-77.	2.4	41
78	The paramyxovirus fusion protein forms an extremely stable core trimer: structural parallels to influenza virus haemagglutinin and HIV-1 gp41. Molecular Membrane Biology, 1999, 16, 11-19.	2.0	39
79	Monomeric ephrinB2 binding induces allosteric changes in Nipah virus G that precede its full activation. Nature Communications, 2017, 8, 781.	12.8	38
80	Paramyxovirus Fusion (F) Protein and Hemagglutininâ€“Neuraminidase (HN) Protein Interactions: Intracellular Retention of F and HN Does Not Affect Transport of the Homotypic HN or F Protein. Virology, 1997, 237, 1-9.	2.4	37
81	Individual Roles of N-Linked Oligosaccharide Chains in Intracellular Transport of the Paramyxovirus SV5 Fusion Protein. Virology, 1995, 209, 250-256.	2.4	35
82	Folding and oligomerization properties of a soluble and secreted form of the paramyxovirus hemagglutinin-neuraminidase glycoprotein. Virology, 1990, 178, 498-508.	2.4	31
83	A Role for Caveolin 1 in Assembly and Budding of the Paramyxovirus Parainfluenza Virus 5. Journal of Virology, 2010, 84, 9749-9759.	3.4	30
84	Influenza virus budding does not require a functional AAA+ ATPase, VPS4. Virus Research, 2010, 153, 58-63.	2.2	30
85	Problems of classification in the family Paramyxoviridae. Archives of Virology, 2018, 163, 1395-1404.	2.1	30
86	Structure of the Paramyxovirus Parainfluenza Virus 5 Nucleoprotein in Complex with an Amino-Terminal Peptide of the Phosphoprotein. Journal of Virology, 2018, 92, .	3.4	30
87	Influenza Virus Assembly and Lipid Raft Microdomains: a Role for the Cytoplasmic Tails of the Spike Glycoproteins. Journal of Virology, 2000, 74, 4634-4644.	3.4	30
88	Unwinding with a vengeance. Nature, 1989, 337, 19-20.	27.8	27
89	Paramyxovirus fusion: Real-time measurement of parainfluenza virus 5 virusâ€“cell fusion. Virology, 2006, 355, 203-212.	2.4	22
90	The influenza A virus spliced messenger RNA M mRNA3 is not required for viral replication in tissue culture. Journal of General Virology, 2008, 89, 3097-3101.	2.9	21

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91	The Paramyxovirus Fusion Protein C-Terminal Region: Mutagenesis Indicates an Indivisible Protein Unit. Journal of Virology, 2012, 86, 2600-2609.	3.4	21
92	Repurposing Papaverine as an Antiviral Agent against Influenza Viruses and Paramyxoviruses. Journal of Virology, 2020, 94, .	3.4	21
93	Analysis of the pH Requirement for Membrane Fusion of Different Isolates of the Paramyxovirus Parainfluenza Virus 5. Journal of Virology, 2006, 80, 3071-3077.	3.4	17
94	Flexibility of the Head-Stalk Linker Domain of Paramyxovirus HN Glycoprotein Is Essential for Triggering Virus Fusion. Journal of Virology, 2016, 90, 9172-9181.	3.4	17
95	Mutagenesis of Paramyxovirus Hemagglutinin-Neuraminidase Membrane-Proximal Stalk Region Influences Stability, Receptor Binding, and Neuraminidase Activity. Journal of Virology, 2016, 90, 7778-7788.	3.4	16
96	The Nonstructural Proteins of Paramyxoviruses. , 1991, , 181-214.		16
97	Type II integral membrane protein, TM of J paramyxovirus promotes cell-to-cell fusion. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 12504-12509.	7.1	15
98	The Structure, Function, and Pathobiology of the Influenza A and B Virus Ion Channels. Cold Spring Harbor Perspectives in Medicine, 2020, 10, a038505.	6.2	14
99	Cell Surface Expression of Biologically Active Influenza C Virus HEF Glycoprotein Expressed from cDNA. Journal of Virology, 1999, 73, 8808-8812.	3.4	14
100	A Chimeric Pneumovirus Fusion Protein Carrying Neutralizing Epitopes of Both MPV and RSV. PLoS ONE, 2016, 11, e0155917.	2.5	14
101	A Glycine to Alanine Substitution in the Paramyxovirus SV5 Fusion Peptide Increases the Initial Rate of Fusion. Virology, 1997, 238, 283-290.	2.4	13
102	The Signal for Clathrin-Mediated Endocytosis of the Paramyxovirus SV5 HN Protein Resides at the Transmembrane Domainâ€“Ectodomain Boundary Region. Virology, 1999, 262, 79-92.	2.4	12
103	Reversible Inhibition of Fusion Activity of a Paramyxovirus Fusion Protein by an Engineered Disulfide Bond in the Membrane-Proximal External Region. Journal of Virology, 2012, 86, 12397-12401.	3.4	12
104	Swine-origin Influenza Virus and the 2009 Pandemic. American Journal of Respiratory and Critical Care Medicine, 2010, 181, 295-296.	5.6	10
105	Probing the Functions of the Paramyxovirus Glycoproteins F and HN with a Panel of Synthetic Antibodies. Journal of Virology, 2014, 88, 11713-11725.	3.4	9
106	Analysis of parainfluenza virus-5 hemagglutinin-neuraminidase protein mutants that are blocked in internalization and degradation. Virology, 2010, 406, 189-201.	2.4	7
107	On the Stability of Parainfluenza Virus 5 F Proteins. Journal of Virology, 2015, 89, 3438-3441.	3.4	6
108	Immobilization of the N-terminal helix stabilizes prefusion paramyxovirus fusion proteins. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E3844-51.	7.1	4

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109	Editorial overview: Virus structure and functions. Current Opinion in Virology, 2017, 24, ix.	5.4	1