Terence S Dermody

List of Publications by Year
in descending order

138 papers	8,915 citations	43973 48 h-index	48187 88 g-index
150 all docs	150 docs citations	150 times ranked	8537 citing authors

#	Article	IF	Citations
1	Junction Adhesion Molecule Is a Receptor for Reovirus. Cell, 2001, 104, 441-451.	13.5	582
2	Antiviral immunity via RIG-I-mediated recognition of RNA bearing 5â€²-diphosphates. Nature, 2014, 514, 372-375.	13.7	459
3	JAM-A regulates permeability and inflammation in the intestine in vivo. Journal of Experimental Medicine, 2007, 204, 3067-3076.	4.2	423
4	Reovirus infection triggers inflammatory responses to dietary antigens and development of celiac disease. Science, 2017, 356, 44-50.	6.0	367
5	The sweet spot: defining virusâ€“sialic acid interactions. Nature Reviews Microbiology, 2014, 12, 739-749.	13.6	292
6	Microbial Vertical Transmission during Human Pregnancy. Cell Host and Microbe, 2017, 21, 561-567.	5.1	280
7	Chikungunya virus: epidemiology, replication, disease mechanisms, and prospective intervention strategies. Journal of Clinical Investigation, 2017, 127, 737-749.	3.9	260
8	Cathepsin L and Cathepsin B Mediate Reovirus Disassembly in Murine Fibroblast Cells. Journal of Biological Chemistry, 2002, 277, 24609-24617.	1.6	244
9	A Plasmid-Based Reverse Genetics System for Animal Double-Stranded RNA Viruses. Cell Host and Microbe, 2007, 1, 147-157.	5.1	240
10	Crystal structure of reovirus attachment protein sigma1 reveals evolutionary relationship to adenovirus fiber. EMBO Journal, 2002, 21, 1-11.	3.5	214
11	Utilization of Sialic Acid as a Coreceptor Enhances Reovirus Attachment by Multistep Adhesion Strengthening. Journal of Biological Chemistry, 2001, 276, 2200-2211.	1.6	191
12	Prevention and cure of rotavirus infection via TLR5/NLRC4â€“mediated production of IL-22 and IL-18. Science, 2014, 346, 861-865.	6.0	188
13	Reovirus-Induced Apoptosis Requires Activation of Transcription Factor NF-ÎºB. Journal of Virology, 2000, 74, 2981-2989.	1.5	170
14	Î²1 Integrin Mediates Internalization of Mammalian Reovirus. Journal of Virology, 2006, 80, 2760-2770.	1.5	152
15	An improved reverse genetics system for mammalian orthoreoviruses. Virology, 2010, 398, 194-200.	1.1	149
16	Peyer's Patch Dendritic Cells Process Viral Antigen from Apoptotic Epithelial Cells in the Intestine of Reovirus-infected Mice. Journal of Experimental Medicine, 2004, 200, 235-245.	4.2	131
17	Expression of <i>Ifnlr1</i> on Intestinal Epithelial Cells Is Critical to the Antiviral Effects of Interferon Lambda against Norovirus and Reovirus. Journal of Virology, 2017, 91, .	1.5	131
18	Crystal Structure of Reovirus Attachment Protein Ïƒ1 in Complex with Sialylated Oligosaccharides. PLoS Pathogens, 2011, 7, e1002166.	2.1	130

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19	Isolation and Characterization of Broad and Ultrapotent Human Monoclonal Antibodies with Therapeutic Activity against Chikungunya Virus. Cell Host and Microbe, 2015, 18, 86-95.	5.1	116
20	Junctional Adhesion Molecule A Serves as a Receptor for Prototype and Field-Isolate Strains of Mammalian Reovirus. Journal of Virology, 2005, 79, 7967-7978.	1.5	115
21	Prevalence of Reovirusâ€Specific Antibodies in Young Children in Nashville, Tennessee. Journal of Infectious Diseases, 2005, 191, 1221-1224.	1.9	114
22	A Single-Amino-Acid Polymorphism in Chikungunya Virus E2 Glycoprotein Influences Glycosaminoglycan Utilization. Journal of Virology, 2014, 88, 2385-2397.	1.5	110
23	Junctional Adhesion Molecule-A Is Required for Hematogenous Dissemination of Reovirus. Cell Host and Microbe, 2009, 5, 59-71.	5.1	105
24	Reovirus Binding to Cell Surface Sialic Acid Potentiates Virus-Induced Apoptosis. Journal of Virology, 2001, 75, 4029-4039.	1.5	104
25	Transport to Late Endosomes Is Required for Efficient Reovirus Infection. Journal of Virology, 2012, 86, 8346-8358.	1.5	103
26	Efficient Norovirus and Reovirus Replication in the Mouse Intestine Requires Microfold (M) Cells. Journal of Virology, 2014, 88, 6934-6943.	1.5	103
27	Structure of Reovirus Ïƒ1 in Complex with Its Receptor Junctional Adhesion Molecule-A. PLoS Pathogens, 2008, 4, e1000235.	2.1	99
28	Reovirus ÏƒNS and Î¼NS Proteins Form Cytoplasmic Inclusion Structures in the Absence of Viral Infection. Journal of Virology, 2003, 77, 5948-5963.	1.5	98
29	NPXY Motifs in the Î²1 Integrin Cytoplasmic Tail Are Required for Functional Reovirus Entry. Journal of Virology, 2008, 82, 3181-3191.	1.5	97
30	The GM2 Glycan Serves as a Functional Coreceptor for Serotype 1 Reovirus. PLoS Pathogens, 2012, 8, e1003078.	2.1	93
31	Residue 82 of the Chikungunya Virus E2 Attachment Protein Modulates Viral Dissemination and Arthritis in Mice. Journal of Virology, 2014, 88, 12180-12192.	1.5	82
32	Isolation and Molecular Characterization of a Novel Type 3 Reovirus from a Child with Meningitis. Journal of Infectious Diseases, 2004, 189, 1664-1675.	1.9	81
33	Reovirus Î¼2 Protein Inhibits Interferon Signaling through a Novel Mechanism Involving Nuclear Accumulation of Interferon Regulatory Factor 9. Journal of Virology, 2009, 83, 2178-2187.	1.5	76
34	Type I interferons produced by hematopoietic cells protect mice against lethal infection by mammalian reovirus. Journal of Experimental Medicine, 2007, 204, 1349-1358.	4.2	74
35	Utilization of sialic acid as a coreceptor is required for reovirus-induced biliary disease. Journal of Clinical Investigation, 2003, 111, 1823-1833.	3.9	74
36	Organ-specific roles for transcription factor NF-ÎºB in reovirus-induced apoptosis and disease. Journal of Clinical Investigation, 2005, 115, 2341-2350.	3.9	72

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37	Reovirus Ï‚NS Protein Is Required for Nucleation of Viral Assembly Complexes and Formation of Viral Inclusions. Journal of Virology, 2001, 75, 1459-1475.	1.5	71
38	From Touchdown to Transcription: The Reovirus Cell Entry Pathway. Current Topics in Microbiology and Immunology, 2010, 343, 91-119.	0.7	71
39	The Nogo Receptor NgR1 Mediates Infection by Mammalian Reovirus. Cell Host and Microbe, 2014, 15, 681-691.	5.1	71
40	Structure-Function Analysis of Reovirus Binding to Junctional Adhesion Molecule 1. Journal of Biological Chemistry, 2003, 278, 48434-48444.	1.6	67
41	Murine Norovirus Infection Induces TH1 Inflammatory Responses to Dietary Antigens. Cell Host and Microbe, 2018, 24, 677-688.e5.	5.1	67
42	Pathogenic Chikungunya Virus Evades B Cell Responses to Establish Persistence. Cell Reports, 2016, 16, 1326-1338.	2.9	62
43	Reovirus Receptors, Cell Entry, and Proapoptotic Signaling. Advances in Experimental Medicine and Biology, 2013, 790, 42-71.	0.8	60
44	IÎºB Kinase Subunits Î± and Î³ Are Required for Activation of NF-ÎºB and Induction of Apoptosis by Mammalian Reovirus. Journal of Virology, 2007, 81, 1360-1371.	1.5	59
45	Reovirus Cell Entry Requires Functional Microtubules. MBio, 2013, 4, .	1.8	59
46	Reovirus nonstructural protein Ïƒ1s is required for establishment of viremia and systemic dissemination. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 19986-19991.	3.3	58
47	Reovirus Preferentially Infects the Basolateral Surface and Is Released from the Apical Surface of Polarized Human Respiratory Epithelial Cells. Journal of Infectious Diseases, 2008, 197, 1189-1197.	1.9	56
48	Mutagenesis of <i>S</i> -Adenosyl- <scp>l</scp> -Methionine-Binding Residues in Coronavirus nsp14 N7-Methyltransferase Demonstrates Differing Requirements for Genome Translation and Resistance to Innate Immunity. Journal of Virology, 2016, 90, 7248-7256.	1.5	55
49	Antagonism of the Sodium-Potassium ATPase Impairs Chikungunya Virus Infection. MBio, 2016, 7, .	1.8	55
50	Identification of an NF-ÎºB-Dependent Gene Network in Cells Infected by Mammalian Reovirus. Journal of Virology, 2006, 80, 1077-1086.	1.5	54
51	Reovirus Forms Neo-Organelles for Progeny Particle Assembly within Reorganized Cell Membranes. MBio, 2014, 5, .	1.8	52
52	Reovirus ÏƒNS and Î¼NS Proteins Remodel the Endoplasmic Reticulum to Build Replication Neo-Organelles. MBio, 2018, 9, .	1.8	51
53	Src Kinase Mediates Productive Endocytic Sorting of Reovirus during Cell Entry. Journal of Virology, 2011, 85, 3203-3213.	1.5	50
54	Immunoglobulin Superfamily Virus Receptors and the Evolution of Adaptive Immunity. PLoS Pathogens, 2009, 5, e1000481.	2.1	49

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55	The TRiC chaperonin controls reovirus replication through outer-capsid folding. Nature Microbiology, 2018, 3, 481-493.	5.9	47
56	A Single-Amino-Acid Polymorphism in Reovirus Protein Î¼2 Determines Repression of Interferon Signaling and Modulates Myocarditis. Journal of Virology, 2012, 86, 2302-2311.	1.5	46
57	Glycan-mediated enhancement of reovirus receptor binding. Nature Communications, 2019, 10, 4460.	5.8	46
58	Reverse genetics for mammalian reovirus. Methods, 2011, 55, 109-113.	1.9	44
59	Sequence Diversity within the Reovirus S3 Gene: Reoviruses Evolve Independently of Host Species, Geographic Locale, and Date of Isolation. Virology, 1996, 216, 265-271.	1.1	43
60	Human Metapneumovirus Is Capable of Entering Cells by Fusion with Endosomal Membranes. PLoS Pathogens, 2015, 11, e1005303.	2.1	41
61	African Swine Fever Virus NP868R Capping Enzyme Promotes Reovirus Rescue during Reverse Genetics by Promoting Reovirus Protein Expression, Virion Assembly, and RNA Incorporation into Infectious Virions. Journal of Virology, 2017, 91, .	1.5	39
62	Interferon Regulatory Factor 3 Attenuates Reovirus Myocarditis and Contributes to Viral Clearance. Journal of Virology, 2010, 84, 6900-6908.	1.5	38
63	The Reovirus Ïƒ1s Protein Is a Determinant of Hematogenous but Not Neural Virus Dissemination in Mice. Journal of Virology, 2011, 85, 11781-11790.	1.5	35
64	Disruption of Type III Interferon (IFN) Genes <i>Ifnl2</i> and <i>Ifnl3</i> Recapitulates Loss of the Type III IFN Receptor in the Mucosal Antiviral Response. Journal of Virology, 2019, 93, .	1.5	35
65	Enteric viruses evoke broad host immune responses resembling those elicited by the bacterial microbiome. Cell Host and Microbe, 2021, 29, 1014-1029.e8.	5.1	35
66	Utilization of Sialylated Glycans as Coreceptors Enhances the Neurovirulence of Serotype 3 Reovirus. Journal of Virology, 2012, 86, 13164-13173.	1.5	34
67	Directional Release of Reovirus from the Apical Surface of Polarized Endothelial Cells. MBio, 2013, 4, e00049-13.	1.8	34
68	A Monoclonal Antibody Specific for Reovirus Outer-Capsid Protein Ï‚3 Inhibits Ï‚1-Mediated Hemagglutination by Steric Hindrance. Journal of Virology, 2001, 75, 6625-6634.	1.5	33
69	Chikungunya virus replication in skeletal muscle cells is required for disease development. Journal of Clinical Investigation, 2020, 130, 1466-1478.	3.9	32
70	Apoptosis Induction Influences Reovirus Replication and Virulence in Newborn Mice. Journal of Virology, 2013, 87, 12980-12989.	1.5	30
71	Comparison of three neurotropic viruses reveals differences in viral dissemination to the central nervous system. Virology, 2016, 487, 1-10.	1.1	30
72	Structural Insights into Reovirus Ïƒ1 Interactions with Two Neutralizing Antibodies. Journal of Virology, 2017, 91, .	1.5	30

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73	Function, Architecture, and Biogenesis of Reovirus Replication Neoorganelles. Viruses, 2019, 11, 288.	1.5	30
74	Structural and functional dissection of reovirus capsid folding and assembly by the prefoldin-TRiC/CCT chaperone network. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	30
75	<i>Trans-</i>dimerization of JAM-A regulates Rap2 and is mediated by a domain that is distinct from the<i>cis-</i>dimerization interface. Molecular Biology of the Cell, 2014, 25, 1574-1585.	0.9	29
76	Serotonin Receptor Agonist 5-Nonyloxytryptamine Alters the Kinetics of Reovirus Cell Entry. Journal of Virology, 2015, 89, 8701-8712.	1.5	29
77	Reovirus-Induced Apoptosis in the Intestine Limits Establishment of Enteric Infection. Journal of Virology, 2018, 92, .	1.5	28
78	Reovirus uses macropinocytosis-mediated entry and fast axonal transport to infect neurons. PLoS Pathogens, 2020, 16, e1008380.	2.1	28
79	Reovirus directly engages integrin to recruit clathrin for entry into host cells. Nature Communications, 2021, 12, 2149.	5.8	28
80	Ins and Outs of Reovirus: Vesicular Trafficking in Viral Entry and Egress. Trends in Microbiology, 2021, 29, 363-375.	3.5	28
81	Molecular Determinants of Proteolytic Disassembly of the Reovirus Outer Capsid. Journal of Biological Chemistry, 2012, 287, 8029-8038.	1.6	27
82	Endothelial JAM-A Promotes Reovirus Viremia and Bloodstream Dissemination. Journal of Infectious Diseases, 2015, 211, 383-393.	1.9	27
83	A modified lysosomal organelle mediates nonlytic egress of reovirus. Journal of Cell Biology, 2020, 219, .	2.3	27
84	Structural and Functional Features of the Reovirus Ïƒ1 Tail. Journal of Virology, 2018, 92, .	1.5	26
85	Endogenous double-stranded Alu RNA elements stimulate IFN-responses in relapsing remitting multiple sclerosis. Journal of Autoimmunity, 2019, 100, 40-51.	3.0	25
86	The Reovirus Ïƒ1 Aspartic Acid Sandwich. Journal of Biological Chemistry, 2007, 282, 11582-11589.	1.6	24
87	Glycan Engagement Dictates Hydrocephalus Induction by Serotype 1 Reovirus. MBio, 2015, 6, e02356.	1.8	23
88	Structural Basis of Nonenveloped Virus Cell Entry. Advances in Protein Chemistry, 2003, 64, 455-491.	4.4	22
89	Reovirus-mediated induction of ADAR1 (p150) minimally alters RNA editing patterns in discrete brain regions. Molecular and Cellular Neurosciences, 2014, 61, 97-109.	1.0	21
90	Structure of Serotype 1 Reovirus Attachment Protein Ïƒ1 in Complex with Junctional Adhesion Molecule A Reveals a Conserved Serotype-Independent Binding Epitope. Journal of Virology, 2015, 89, 6136-6140.	1.5	21

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91	A viral trigger for celiac disease. PLoS Pathogens, 2018, 14, e1007181.	2.1	21
92	Chikungunya Virus Strains from Each Genetic Clade Bind Sulfated Glycosaminoglycans as Attachment Factors. Journal of Virology, 2020, 94, .	1.5	21
93	Dual-Use Research of Concern (DURC) Review at American Society for Microbiology Journals. MBio, 2015, 6, e01236.	1.8	19
94	Optimum Length and Flexibility of Reovirus Attachment Protein Ïƒ1 Are Required for Efficient Viral Infection. Journal of Virology, 2012, 86, 10270-10280.	1.5	17
95	A plasmid-based reverse genetics system for mammalian orthoreoviruses driven by a plasmid-encoded T7 RNA polymerase. Journal of Virological Methods, 2014, 196, 36-39.	1.0	17
96	Age-dependent susceptibility to reovirus encephalitis in mice is influenced by maturation of the type-I interferon response. Pediatric Research, 2018, 83, 1057-1066.	1.1	17
97	Reovirus Neurotropism and Virulence Are Dictated by Sequences in the Head Domain of the Viral Attachment Protein. Journal of Virology, 2018, 92, .	1.5	17
98	Reovirus Nonstructural Protein ÏƒNS Acts as an RNA Stability Factor Promoting Viral Genome Replication. Journal of Virology, 2018, 92, .	1.5	17
99	The multi-functional reovirus Ïƒ3 protein is a virulence factor that suppresses stress granule formation and is associated with myocardial injury. PLoS Pathogens, 2021, 17, e1009494.	2.1	16
100	Validity of the Medical College Admission Test for predicting MDâ€"PhD student outcomes. Advances in Health Sciences Education, 2016, 21, 33-49.	1.7	15
101	On the Need for a National Board To Assess Dual Use Research of Concern. Journal of Virology, 2014, 88, 6535-6537.	1.5	14
102	A New Coronavirus Emerges, This Time Causing a Pandemic. Annual Review of Virology, 2020, 7, iii-v.	3.0	13
103	Vaccine Safety, Efficacy, and Trust Take Time. Annual Review of Virology, 2021, 8, iii-iv.	3.0	13
104	In Search of Cathepsins: How Reovirus Enters Host Cells. DNA and Cell Biology, 2012, 31, 1646-1649.	0.9	12
105	Diminished Reovirus Capsid Stability Alters Disease Pathogenesis and Littermate Transmission. PLoS Pathogens, 2015, 11, e1004693.	2.1	12
106	Cytidine Monophosphate <i>N</i> -Acetylneuraminic Acid Synthetase and Solute Carrier Family 35 Member A1 Are Required for Reovirus Binding and Infection. Journal of Virology, 2020, 95, .	1.5	11
107	Reovirus Nonstructural Protein ÏƒNS Recruits Viral RNA to Replication Organelles. MBio, 2021, 12, e0140821.	1.8	11
108	Reovirus infection is regulated by NPC1 and endosomal cholesterol homeostasis. PLoS Pathogens, 2022, 18, e1010322.	2.1	11

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109	Murine cytomegalovirus M72 promotes acute virus replication in vivo and is a substrate of the TRiC/CCT complex. Virology, 2018, 522, 92-105.	1.1	9
110	Reovirus Ïƒ1 Conformational Flexibility Modulates the Efficiency of Host Cell Attachment. Journal of Virology, 2020, 94, .	1.5	9
111	Divergence of Brain Prostaglandin H Synthase Activity and Oxidative Damage in Mice with Encephalitis. Journal of Neuropathology and Experimental Neurology, 1999, 58, 1269-1275.	0.9	8
112	The Reovirus S4 Gene 3â€² Nontranslated Region Contains a Translational Operator Sequence. Journal of Virology, 2001, 75, 6517-6526.	1.5	7
113	Mutations in the rotavirus spike protein VP4 reduce trypsin sensitivity but not viral spread. Journal of General Virology, 2013, 94, 1296-1300.	1.3	7
114	Sequence Changes Associated with Respiratory Transmission of H7N1 Influenza Virus in Mammals. Journal of Virology, 2014, 88, 6533-6534.	1.5	7
115	A workshop on leadership for senior MDâ€"PhD students. Medical Education Online, 2016, 21, 31534.	1.1	7
116	Expanding the Pipeline for Pediatric Physician-Scientists. Journal of Pediatrics, 2019, 207, 3-7.e1.	0.9	7
117	Coping with COVID: How a Research Team Learned To Stay Engaged in This Time of Physical Distancing. MBio, 2020, 11, .	1.8	7
118	An Orchestra of Reovirus Receptors: Still Searching for the Conductor. Advances in Virus Research, 2018, 100, 223-246.	0.9	6
119	Engineering Recombinant Reoviruses To Display gp41 Membrane-Proximal External-Region Epitopes from HIV-1. MSphere, 2016, 1, .	1.3	5
120	THRIVE Conceptual Framework and Study Protocol: A Community-Partnered Longitudinal Multi-Cohort Study to Promote Child and Youth Thriving, Health Equity, and Community Strength. Frontiers in Pediatrics, 2021, 9, 797526.	0.9	5
121	Chikungunya Virus Vaccine Candidate Incorporating Synergistic Mutations Is Attenuated and Protects Against Virulent Virus Challenge. Journal of Infectious Diseases, 2023, 227, 457-465.	1.9	5
122	Altered Glycan Expression on Breast Cancer Cells Facilitates Infection by T3 Seroptype Oncolytic Reovirus. Nano Letters, 2021, 21, 9720-9728.	4.5	3
123	:New Challenges to Health: The Threat of Virus Infection. Clinical Infectious Diseases, 2001, 33, 1956-1956.	2.9	2
124	A Single Point Mutation, Asn16â†'Lys, Dictates the Temperature-Sensitivity of the Reovirus tsG453 Mutant. Viruses, 2021, 13, 289.	1.5	2
125	What Is the Price of Science?. MBio, 2021, 12, .	1.8	2
126	The Murine Neuronal Receptor NgR1 Is Dispensable for Reovirus Pathogenesis. Journal of Virology, 2022, 96, e0005522.	1.5	2

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127	Electron Tomography to Study the Three-dimensional Structure of the Reovirus Egress Pathway in Mammalian Cells. Bio-protocol, 2021, 11, e4080.	0.2	1
128	Recurring Revolutions in Virology. Annual Review of Virology, 2021, 8, v-vii.	3.0	1
129	Some viruses need to phaseâ€separate to replicate. EMBO Journal, 2021, 40, e109558.	3.5	1
130	A New Coronavirus Emerges, This Time Causing a Pandemic. Annual Review of Virology, 2020, 7, iii-v.	3.0	1
131	The role of dendritic cells in the induction of oral tolerance and immunity. Japanese Journal of Clinical Immunology, 2003, 26, 200-200.	0.0	0
132	Genetics in Virology Research. Annual Review of Virology, 2015, 2, vii-x.	3.0	0
133	<i>Reductio ad Intellectum</i>. Annual Review of Virology, 2018, 5, ii-iv.	3.0	0
134	The Decision To Publish Gutierrez-Alvarez et al., â€œMiddle East Respiratory Syndrome Coronavirus Gene 5 Modulates Pathogenesis in Miceâ€ Journal of Virology, 2021, 95, .	1.5	0
135	Innate Immune Responses Elicited by Reovirus and Rotavirus. , 0, , 403-422.		0
136	Norovirus Infection Induces Inflammatory Responses to Dietary Antigens. SSRN Electronic Journal, 0, , .	0.4	0
137	Confocal Microscopy of Reovirus Transport in Living Dorsal Root Ganglion Neurons. Bio-protocol, 2020, 10, e3825.	0.2	0
138	The Pittsburgh Study: Learning with Communities About Child Health and Thriving. Health Equity, 2022, 6, 338-344.	0.8	0