

Domenico Tortorella

List of Publications by Year in descending order

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65
papers

5,999
citations

109321

35
h-index

110387

64
g-index

67
all docs

67
docs citations

67
times ranked

6832
citing authors

#	ARTICLE	IF	CITATIONS
1	Sec61-mediated transfer of a membrane protein from the endoplasmic reticulum to the proteasome for destruction. <i>Nature</i> , 1996, 384, 432-438.	27.8	1,054
2	Viral Subversion of the Immune System. <i>Annual Review of Immunology</i> , 2000, 18, 861-926.	21.8	764
3	Enhancement of Zika virus pathogenesis by preexisting antinflavirus immunity. <i>Science</i> , 2017, 356, 175-180.	12.6	453
4	Covalent modification of the active site threonine of proteasomal β subunits and the Escherichia coli homolog HslV by a new class of inhibitors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997, 94, 6629-6634.	7.1	449
5	Neutralizing Antibodies Against Previously Encountered Influenza Virus Strains Increase over Time: A Longitudinal Analysis. <i>Science Translational Medicine</i> , 2013, 5, 198ra107.	12.4	157
6	ISG15 deficiency and increased viral resistance in humans but not mice. <i>Nature Communications</i> , 2016, 7, 11496.	12.8	156
7	Extended peptide-based inhibitors efficiently target the proteasome and reveal overlapping specificities of the catalytic β -subunits. <i>Chemistry and Biology</i> , 2001, 8, 913-929.	6.0	149
8	Trophoblast Class I Major Histocompatibility Complex (MHC) Products Are Resistant to Rapid Degradation Imposed by the Human Cytomegalovirus (HCMV) Gene Products US2 and US11. <i>Journal of Experimental Medicine</i> , 1998, 188, 497-503.	8.5	138
9	Antigen presentation subverted: Structure of the human cytomegalovirus protein US2 bound to the class I molecule HLA-A2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 6794-6799.	7.1	136
10	Signal peptide peptidase is required for dislocation from the endoplasmic reticulum. <i>Nature</i> , 2006, 441, 894-897.	27.8	123
11	Dislocation of Type I Membrane Proteins from the ER to the Cytosol Is Sensitive to Changes in Redox Potential. <i>Journal of Cell Biology</i> , 1998, 142, 365-376.	5.2	122
12	A glycosylated type I membrane protein becomes cytosolic when peptide: N-glycanase is compromised. <i>EMBO Journal</i> , 2004, 23, 650-658.	7.8	118
13	Diverse immune evasion strategies by human cytomegalovirus. <i>Immunologic Research</i> , 2012, 54, 140-151.	2.9	110
14	Targeting Viral Proteostasis Limits Influenza Virus, HIV, and Dengue Virus Infection. <i>Immunity</i> , 2016, 44, 46-58.	14.3	110
15	Human Cytomegalovirus US2 Endoplasmic Reticulum-Lumenal Domain Dictates Association with Major Histocompatibility Complex Class I in a Locus-Specific Manner. <i>Journal of Virology</i> , 2001, 75, 5197-5204.	3.4	104
16	Rescue of the 1947 Zika Virus Prototype Strain with a Cytomegalovirus Promoter-Driven cDNA Clone. <i>MSphere</i> , 2016, 1, .	2.9	104
17	Dissection of the Dislocation Pathway for Type I Membrane Proteins with a New Small Molecule Inhibitor, Eeyarestatin. <i>Molecular Biology of the Cell</i> , 2004, 15, 1635-1646.	2.1	101
18	The cytomegalovirus-encoded chemokine receptor US28 promotes intestinal neoplasia in transgenic mice. <i>Journal of Clinical Investigation</i> , 2010, 120, 3969-3978.	8.2	96

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19	The Human Cytomegalovirus US10 Gene Product Delays Trafficking of Major Histocompatibility Complex Class I Molecules. <i>Journal of Virology</i> , 2002, 76, 11753-11756.	3.4	89
20	Cytomegaloviruses use multiple mechanisms to elude the host immune response. <i>Immunology Letters</i> , 1997, 57, 213-216.	2.5	88
21	Protein Unfolding Is Not a Prerequisite for Endoplasmic Reticulum-to-Cytosol Dislocation. <i>Journal of Biological Chemistry</i> , 2003, 278, 6664-6672.	3.4	85
22	Visualization of the ER-to-cytosol dislocation reaction of a type I membrane protein. <i>EMBO Journal</i> , 2002, 21, 1041-1053.	7.8	77
23	Human Cytomegalovirus Gene Products US2 and US11 Differ in Their Ability To Attack Major Histocompatibility Class I Heavy Chains in Dendritic Cells. <i>Journal of Virology</i> , 2002, 76, 5043-5050.	3.4	65
24	Quantifying Absolute Neutralization Titers against SARS-CoV-2 by a Standardized Virus Neutralization Assay Allows for Cross-Cohort Comparisons of COVID-19 Sera. <i>MBio</i> , 2021, 12, .	4.1	64
25	Signal peptide cleavage of a type I membrane protein, HCMV US11, is dependent on its membrane anchor. <i>EMBO Journal</i> , 2001, 20, 1573-1582.	7.8	60
26	Membrane-specific, Host-derived Factors Are Required for US2- and US11-mediated Degradation of Major Histocompatibility Complex Class I Molecules. <i>Journal of Biological Chemistry</i> , 2002, 277, 3258-3267.	3.4	57
27	Virion Glycoprotein-Mediated Immune Evasion by Human Cytomegalovirus: a Sticky Virus Makes a Slick Getaway. <i>Microbiology and Molecular Biology Reviews</i> , 2016, 80, 663-677.	6.6	56
28	Virus subversion of immunity: a structural perspective. <i>Current Opinion in Immunology</i> , 2001, 13, 442-450.	5.5	53
29	CD46 facilitates entry and dissemination of human cytomegalovirus. <i>Nature Communications</i> , 2019, 10, 2699.	12.8	53
30	Human Cytomegalovirus US28 Facilitates Cell-to-Cell Viral Dissemination. <i>Viruses</i> , 2014, 6, 1202-1218.	3.3	48
31	Ubiquitinylation of the Cytosolic Domain of a Type I Membrane Protein Is Not Required to Initiate Its Dislocation from the Endoplasmic Reticulum. <i>Journal of Biological Chemistry</i> , 2003, 278, 34804-34811.	3.4	43
32	Human Cytomegalovirus Modulates Monocyte-Mediated Innate Immune Responses during Short-Term Experimental Latency <i>In Vitro</i> . <i>Journal of Virology</i> , 2014, 88, 9391-9405.	3.4	41
33	Cotranslational endoplasmic reticulum assembly of Fc μ R1 controls the formation of functional IgE-binding receptors. <i>Journal of Experimental Medicine</i> , 2005, 201, 267-277.	8.5	40
34	Down-regulation of MHC class I antigen presentation by HCMV; lessons for tumor immunology. <i>Immunological Investigations</i> , 2000, 29, 97-100.	2.0	39
35	Dislocation of a Type I Membrane Protein Requires Interactions between Membrane-spanning Segments within the Lipid Bilayer. <i>Molecular Biology of the Cell</i> , 2003, 14, 3690-3698.	2.1	38
36	US2, a Human Cytomegalovirus-encoded Type I Membrane Protein, Contains a Non-cleavable Amino-terminal Signal Peptide. <i>Journal of Biological Chemistry</i> , 2002, 277, 11306-11313.	3.4	33

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37	Human cytomegalovirus US3 modulates destruction of MHC class I molecules. <i>Molecular Immunology</i> , 2012, 51, 245-253.	2.2	31
38	miRNA-mediated targeting of human cytomegalovirus reveals biological host and viral targets of IE2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 1069-1074.	7.1	31
39	HLA-G and HLA-C at the fetal-maternal interface: lessons learned from pathogenic viruses. <i>Seminars in Cancer Biology</i> , 1999, 9, 37-46.	9.6	30
40	Dislocation of Ricin Toxin A Chains in Human Cells Utilizes Selective Cellular Factors. <i>Journal of Biological Chemistry</i> , 2011, 286, 21231-21238.	3.4	30
41	Development of a high-content screen for the identification of inhibitors directed against the early steps of the cytomegalovirus infectious cycle. <i>Antiviral Research</i> , 2015, 113, 49-61.	4.1	30
42	Simple centrifugation method for efficient pelleting of both small and large unilamellar vesicles that allows convenient measurement of protein binding. <i>Biochemistry</i> , 1993, 32, 9181-9188.	2.5	28
43	TAP dysfunction in dendritic cells enables noncanonical cross-presentation for T cell priming. <i>Nature Immunology</i> , 2021, 22, 497-509.	14.5	27
44	Convallatoxin-Induced Reduction of Methionine Import Effectively Inhibits Human Cytomegalovirus Infection and Replication. <i>Journal of Virology</i> , 2016, 90, 10715-10727.	3.4	22
45	Functional screening for anti-CMV biologics identifies a broadly neutralizing epitope of an essential envelope protein. <i>Nature Communications</i> , 2016, 7, 13627.	12.8	21
46	TRAM1 is involved in disposal of ER membrane degradation substrates. <i>Experimental Cell Research</i> , 2010, 316, 2113-2122.	2.6	20
47	Endoplasmic reticulum chaperones participate in human cytomegalovirus US2-mediated degradation of class I major histocompatibility complex molecules. <i>Journal of General Virology</i> , 2008, 89, 1122-1130.	2.9	19
48	Development of a High-Throughput Assay To Measure the Neutralization Capability of Anti-Cytomegalovirus Antibodies. <i>Vaccine Journal</i> , 2013, 20, 540-550.	3.1	19
49	Dislocation of an Endoplasmic Reticulum Membrane Glycoprotein Involves the Formation of Partially Dislocated Ubiquitinated Polypeptides. <i>Journal of Biological Chemistry</i> , 2007, 282, 26845-26856.	3.4	18
50	Immunoglobulin A antibody composition is sculpted to bind the self gut microbiome. <i>Science Immunology</i> , 2022, 7, .	11.9	18
51	A Structural Determinant of Human Cytomegalovirus US2 Dictates the Down-regulation of Class I Major Histocompatibility Molecules. <i>Journal of Biological Chemistry</i> , 2006, 281, 19395-19406.	3.4	17
52	Human Cytomegalovirus-Encoded Immune Modulators Partner To Downregulate Major Histocompatibility Complex Class I Molecules. <i>Journal of Virology</i> , 2009, 83, 1359-1367.	3.4	17
53	TRAM1 Participates in Human Cytomegalovirus US2- and US11-mediated Dislocation of an Endoplasmic Reticulum Membrane Glycoprotein. <i>Journal of Biological Chemistry</i> , 2009, 284, 5905-5914.	3.4	17
54	Immunochemical Analysis Shows All Three Domains of Diphtheria Toxin Penetrate across Model Membranes. <i>Journal of Biological Chemistry</i> , 1995, 270, 27446-27452.	3.4	16

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55	The Microtubule Inhibitor Podofilox Inhibits an Early Entry Step of Human Cytomegalovirus. <i>Viruses</i> , 2016, 8, 295.	3.3	16
56	Cln6 mutants associated with neuronal ceroid lipofuscinosis are degraded in a proteasome-dependent manner. <i>Bioscience Reports</i> , 2009, 29, 173-181.	2.4	15
57	Immunochemical Analysis of the Structure of Diphtheria Toxin Shows All Three Domains Undergo Structural Changes at Low pH. <i>Journal of Biological Chemistry</i> , 1995, 270, 27439-27445.	3.4	13
58	Novel Class of Potential Therapeutics that Target Ricin Retrograde Translocation. <i>Toxins</i> , 2014, 6, 33-53.	3.4	8
59	Human cytomegalovirus gH stability and trafficking are regulated by ER-associated degradation and transmembrane architecture. <i>Scientific Reports</i> , 2016, 6, 23692.	3.3	8
60	Development of broadly neutralizing antibodies targeting the cytomegalovirus subdominant antigen gH. <i>Communications Biology</i> , 2022, 5, 387.	4.4	8
61	Viral immunoevasive strategies and trophoblast class I major histocompatibility complex antigens. <i>Journal of Reproductive Immunology</i> , 1999, 43, 243-251.	1.9	7
62	A Bipartite Trigger for Dislocation Directs the Proteasomal Degradation of an Endoplasmic Reticulum Membrane Glycoprotein. <i>Journal of Biological Chemistry</i> , 2008, 283, 4031-4043.	3.4	7
63	Valspodar limits human cytomegalovirus infection and dissemination. <i>Antiviral Research</i> , 2021, 193, 105124.	4.1	4
64	An Influenza Virus Hemagglutinin-Based Vaccine Platform Enables the Generation of Epitope Specific Human Cytomegalovirus Antibodies. <i>Vaccines</i> , 2019, 7, 51.	4.4	0
65	The proteasome participates in the dislocation of an ER-resident Type I membrane glycoprotein. <i>FASEB Journal</i> , 2007, 21, A1019.	0.5	0