Akira Ono

List of Publications by Year
in descending order

67 papers	5,214 citations	136740 32 h-index	98622 67 g-index
75 all docs	75 docs citations	75 times ranked	3473 citing authors

#	Article	IF	Citations
1	Plasma membrane rafts play a critical role in HIV-1 assembly and release. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 13925-13930.	3.3	613
2	Phosphatidylinositol (4,5) bisphosphate regulates HIV-1 Gag targeting to the plasma membrane. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 14889-14894.	3.3	474
3	Overexpression of the N-terminal domain of TSG101 inhibits HIV-1 budding by blocking late domain function. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 955-960.	3.3	324
4	Human Apolipoprotein B mRNA-editing Enzyme-catalytic Polypeptide-like 3G (APOBEC3G) Is Incorporated into HIV-1 Virions through Interactions with Viral and Nonviral RNAs. Journal of Biological Chemistry, 2004, 279, 35822-35828.	1.6	250
5	Cell-Type-Dependent Targeting of Human Immunodeficiency Virus Type 1 Assembly to the Plasma Membrane and the Multivesicular Body. Journal of Virology, 2004, 78, 1552-1563.	1.5	239
6	Interaction between the Human Immunodeficiency Virus Type 1 Gag Matrix Domain and Phosphatidylinositol-(4,5)-Bisphosphate Is Essential for Efficient Gag Membrane Binding. Journal of Virology, 2008, 82, 2405-2417.	1.5	236
7	Role of the Gag Matrix Domain in Targeting Human Immunodeficiency Virus Type 1 Assembly. Journal of Virology, 2000, 74, 2855-2866.	1.5	218
8	Binding of Human Immunodeficiency Virus Type 1 Gag to Membrane: Role of the Matrix Amino Terminus. Journal of Virology, 1999, 73, 4136-4144.	1.5	216
9	Opposing mechanisms involving RNA and lipids regulate HIV-1 Gag membrane binding through the highly basic region of the matrix domain. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 1600-1605.	3.3	200
10	Real-Time Visualization of HIV-1 GAG Trafficking in Infected Macrophages. PLoS Pathogens, 2008, 4, e1000015.	2.1	180
11	Role of Lipid Rafts in Virus Replication. Advances in Virus Research, 2005, 64, 311-358.	0.9	128
12	Role of Matrix in an Early Postentry Step in the Human Immunodeficiency Virus Type 1 Life Cycle. Journal of Virology, 1998, 72, 4116-4126.	1.5	123
13	Molecular Determinants that Regulate Plasma Membrane Association of HIV-1 Gag. Journal of Molecular Biology, 2011, 410, 512-524.	2.0	110
14	Relationship between Human Immunodeficiency Virus Type 1 Gag Multimerization and Membrane Binding. Journal of Virology, 2000, 74, 5142-5150.	1.5	105
15	Relationships between plasma membrane microdomains and HIVâ€1 assembly. Biology of the Cell, 2010, 102, 335-350.	0.7	103
16	Gag Induces the Coalescence of Clustered Lipid Rafts and Tetraspanin-Enriched Microdomains at HIV-1 Assembly Sites on the Plasma Membrane. Journal of Virology, 2011, 85, 9749-9766.	1.5	101
17	Defects in Human Immunodeficiency Virus Budding and Endosomal Sorting Induced by TSG101 Overexpression. Journal of Virology, 2003, 77, 6507-6519.	1.5	96
18	Depletion of cellular cholesterol inhibits membrane binding and higher-order multimerization of human immunodeficiency virus type 1 Gag. Virology, 2007, 360, 27-35.	1.1	93

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19	HIV-1 assembly at the plasma membrane: Gag trafficking and localization. Future Virology, 2009, 4, 241-257.	0.9	85
20	Association of Human Immunodeficiency Virus Type 1 Gag with Membrane Does Not Require Highly Basic Sequences in the Nucleocapsid: Use of a Novel Gag Multimerization Assay. Journal of Virology, 2005, 79, 14131-14140.	1.5	82
21	Bacterial curli protein promotes the conversion of PAP₂₄₈₋₂₈₆into the amyloid SEVI: cross-seeding of dissimilar amyloid sequences. PeerJ, 2013, 1, e5.	0.9	73
22	Nucleocapsid Promotes Localization of HIV-1 Gag to Uropods That Participate in Virological Synapses between T Cells. PLoS Pathogens, 2010, 6, e1001167.	2.1	68
23	Evidence in Support of RNA-Mediated Inhibition of Phosphatidylserine-Dependent HIV-1 Gag Membrane Binding in Cells. Journal of Virology, 2013, 87, 7155-7159.	1.5	68
24	Quantitative Fluorescence Resonance Energy Transfer Microscopy Analysis of the Human Immunodeficiency Virus Type 1 Gag-Gag Interaction: Relative Contributions of the CA and NC Domains and Membrane Binding. Journal of Virology, 2009, 83, 7322-7336.	1.5	62
25	Gag Localization and Virus-Like Particle Release Mediated by the Matrix Domain of Human T-Lymphotropic Virus Type 1 Gag Are Less Dependent on Phosphatidylinositol-(4,5)-Bisphosphate than Those Mediated by the Matrix Domain of HIV-1 Gag. Journal of Virology, 2011, 85, 3802-3810.	1.5	62
26	Human Endogenous Retrovirus K Gag Coassembles with HIV-1 Gag and Reduces the Release Efficiency and Infectivity of HIV-1. Journal of Virology, 2012, 86, 11194-11208.	1.5	60
27	A molecularly engineered antiviral banana lectin inhibits fusion and is efficacious against influenza virus infection in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 2122-2132.	3.3	58
28	Inhibition of Human Immunodeficiency Virus Type 1 Assembly and Release by the Cholesterol-Binding Compound Amphotericin B Methyl Ester: Evidence for Vpu Dependence. Journal of Virology, 2008, 82, 9776-9781.	1.5	46
29	HIV-1 Gag Associates with Specific Uropod-Directed Microdomains in a Manner Dependent on Its MA Highly Basic Region. Journal of Virology, 2013, 87, 6441-6454.	1.5	42
30	Membrane Binding and Subcellular Localization of Retroviral Gag Proteins Are Differentially Regulated by MA Interactions with Phosphatidylinositol-(4,5)-Bisphosphate and RNA. MBio, 2014, 5, e02202.	1.8	42
31	Molecular mechanisms by which HERV-K Gag interferes with HIV-1 Gag assembly and particle infectivity. Retrovirology, 2017, 14, 27.	0.9	38
32	HIV-1 assembly at the plasma membrane. Vaccine, 2010, 28, B55-B59.	1.7	36
33	Roles played by acidic lipids in HIV-1 Gag membrane binding. Virus Research, 2014, 193, 108-115.	1.1	36
34	Inhibition of HIV-1 Gagâ€“membrane interactions by specific RNAs. Rna, 2017, 23, 395-405.	1.6	32
35	Assembly and Replication of HIV-1 in T Cells with Low Levels of Phosphatidylinositol-(4,5)-Bisphosphate. Journal of Virology, 2011, 85, 3584-3595.	1.5	30
36	Toxoplasma gondii exploits the host ESCRT machinery for parasite uptake of host cytosolic proteins. PLoS Pathogens, 2021, 17, e1010138.	2.1	29

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37	Pravastatin does not have a consistent antiviral effect in chronically HIV-infected individuals on antiretroviral therapy. Aids, 2005, 19, 1109-1111.	1.0	28
38	Roles Played by Capsid-Dependent Induction of Membrane Curvature and Gag-ESCRT Interactions in Tetherin Recruitment to HIV-1 Assembly Sites. Journal of Virology, 2013, 87, 4650-4664.	1.5	28
39	Phosphatidylinositol-(4,5)-Bisphosphate Acyl Chains Differentiate Membrane Binding of HIV-1 Gag from That of the Phospholipase CÎ´1 Pleckstrin Homology Domain. Journal of Virology, 2015, 89, 7861-7873.	1.5	28
40	Methods for the Study of HIV-1 Assembly. Methods in Molecular Biology, 2008, 485, 163-184.	0.4	28
41	Friend or Foe: The Role of the Cytoskeleton in Influenza A Virus Assembly. Viruses, 2019, 11, 46.	1.5	27
42	Reversion of a Human Immunodeficiency Virus Type 1 Matrix Mutation Affecting Gag Membrane Binding, Endogenous Reverse Transcriptase Activity, and Virus Infectivity. Journal of Virology, 1999, 73, 4728-4737.	1.5	26
43	Basic Motifs Target PSGL-1, CD43, and CD44 to Plasma Membrane Sites Where HIV-1 Assembles. Journal of Virology, 2015, 89, 454-467.	1.5	24
44	Relationships between MA-RNA Binding in Cells and Suppression of HIV-1 Gag Mislocalization to Intracellular Membranes. Journal of Virology, 2019, 93, .	1.5	23
45	Optimized Method for Computing ¹⁸O/¹⁶O Ratios of Differentially Stable-Isotope Labeled Peptides in the Context of Postdigestion ¹⁸O Exchange/Labeling. Analytical Chemistry, 2010, 82, 5878-5886.	3.2	22
46	Virion-incorporated PSGL-1 and CD43 inhibit both cell-free infection and transinfection of HIV-1 by preventing virusâ€“cell binding. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 8055-8063.	3.3	22
47	Secondary lymphoid organ fibroblastic reticular cells mediate trans-infection of HIV-1 via CD44-hyaluronan interactions. Nature Communications, 2018, 9, 2436.	5.8	21
48	Dynamic Association between HIV-1 Gag and Membrane Domains. Molecular Biology International, 2012, 2012, 1-13.	1.7	18
49	Dominant Negative Inhibition of Human Immunodeficiency Virus Particle Production by the Nonmyristoylated Form of Gag. Journal of Virology, 2008, 82, 4384-4399.	1.5	16
50	Characterizing natural hydrogel for reconstruction of threeâ€dimensional lymphoid stromal network to model Tâ€cell interactions. Journal of Biomedical Materials Research - Part A, 2015, 103, 2701-2710.	2.1	15
51	Transport of Envelope Proteins of Sendai Virus, HN and F0, Is Blocked at Different Steps by Thapsigargin and Other Perturbants to Intracellular Ca2+11. Journal of Biochemistry, 1994, 116, 649-656.	0.9	14
52	The tumour suppressor APC promotes HIV-1 assembly via interaction with Gag precursor protein. Nature Communications, 2017, 8, 14259.	5.8	13
53	Host Retromer Protein Sorting Nexin 2 Interacts with Human Respiratory Syncytial Virus Structural Proteins and is Required for Efficient Viral Production. MBio, 2020, 11, .	1.8	13
54	Relationship between HIV-1 Gag Multimerization and Membrane Binding. Viruses, 2022, 14, 622.	1.5	13

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55	Viruses and Lipids. Viruses, 2010, 2, 1236-1238.	1.5	11
56	Molecular Determinants Directing HIV-1 Gag Assembly to Virus-Containing Compartments in Primary Macrophages. Journal of Virology, 2016, 90, 8509-8519.	1.5	11
57	Rendezvous at Plasma Membrane: Cellular Lipids and tRNA Set up Sites of HIV-1 Particle Assembly and Incorporation of Host Transmembrane Proteins. Viruses, 2020, 12, 842.	1.5	9
58	Movements of Ancient Human Endogenous Retroviruses Detected in SOX2-Expressing Cells. Journal of Virology, 2022, 96, e0035622.	1.5	9
59	A Defect in Influenza A Virus Particle Assembly Specific to Primary Human Macrophages. MBio, 2018, 9, .	1.8	8
60	HIV-1 entry: Duels between Env and host antiviral transmembrane proteins on the surface of virus particles. Current Opinion in Virology, 2021, 50, 59-68.	2.6	7
61	Roles of Virion-Incorporated CD162 (PSGL-1), CD43, and CD44 in HIV-1 Infection of T Cells. Viruses, 2021, 13, 1935.	1.5	4
62	Molecular Determinants in tRNA D-arm Required for Inhibition of HIV-1 Gag Membrane Binding. Journal of Molecular Biology, 2022, 434, 167390.	2.0	4
63	Post-digestion 18O Exchange/Labeling for Quantitative Shotgun Proteomics of Membrane Proteins. Methods in Molecular Biology, 2012, 893, 223-240.	0.4	2
64	Visualization of HIV-1 Gag Binding to Giant Unilamellar Vesicle (GUV) Membranes. Journal of Visualized Experiments, 2016, , .	0.2	2
65	Human Respiratory Syncytial Virus Infection in a Human T Cell Line Is Hampered at Multiple Steps. Viruses, 2021, 13, 231.	1.5	1
66	Methods to Study Determinants for Membrane Targeting of HIV-1 Gag In Vitro. Methods in Molecular Biology, 2016, 1354, 175-185.	0.4	1
67	Introduction to Special Issue â€œThe 11th International Retroviral Nucleocapsid and Assembly Symposiumâ€. Viruses, 2020, 12, 1243.	1.5	0