Akira Ono

List of Publications by Citations

65 papers	4,429 citations	30 h-index	66 g-index
75 ext. papers	4,921 ext. citations	6.3 avg, IF	5.64 L-index

#	Paper	IF	Citations
65	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, 13925-30	11.5	550
64	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, 14889-94	11.5	388
63	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, 955-60	11.5	299
62	Cell-type-dependent targeting of human immunodeficiency virus type 1 assembly to the plasma membrane and the multivesicular body. *Journal of Virology*, **2004**, 78, 1552-63	6.6	223
61	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, 35822-8	5.4	221
60	Binding of human immunodeficiency virus type 1 Gag to membrane: role of the matrix amino terminus. *Journal of Virology*, **1999**, 73, 4136-44	6.6	206
59	Role of the Gag matrix domain in targeting human immunodeficiency virus type 1 assembly. *Journal of Virology*, **2000**, 74, 2855-66	6.6	198
58	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, 2405-17	6.6	194
57	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, 1600-5	11.5	171
56	Real-time visualization of HIV-1 GAG trafficking in infected macrophages. *PLoS Pathogens*, **2008**, 4, e1000015	7.6	161
55	Role of lipid rafts in virus replication. *Advances in Virus Research*, **2005**, 64, 311-58	10.7	117
54	Role of matrix in an early postentry step in the human immunodeficiency virus type 1 life cycle. *Journal of Virology*, **1998**, 72, 4116-26	6.6	112
53	Relationship between human immunodeficiency virus type 1 Gag multimerization and membrane binding. *Journal of Virology*, **2000**, 74, 5142-50	6.6	101
52	Defects in human immunodeficiency virus budding and endosomal sorting induced by TSG101 overexpression. *Journal of Virology*, **2003**, 77, 6507-19	6.6	91
51	Relationships between plasma membrane microdomains and HIV-1 assembly. *Biology of the Cell*, **2010**, 102, 335-50	3.5	90
50	Molecular determinants that regulate plasma membrane association of HIV-1 Gag. *Journal of Molecular Biology*, **2011**, 410, 512-24	6.5	88
49	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, 9749-66	6.6	87

48	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, 14131-40	6.6	77
47	Depletion of cellular cholesterol inhibits membrane binding and higher-order multimerization of human immunodeficiency virus type 1 Gag. *Virology*, **2007**, 360, 27-35	3.6	76
46	HIV-1 Assembly at the Plasma Membrane: Gag Trafficking and Localization. *Future Virology*, **2009**, 4, 241-257	2.4	67
45	Evidence in support of RNA-mediated inhibition of phosphatidylserine-dependent HIV-1 Gag membrane binding in cells. *Journal of Virology*, **2013**, 87, 7155-9	6.6	58
44	Nucleocapsid promotes localization of HIV-1 gag to uropods that participate in virological synapses between T cells. *PLoS Pathogens*, **2010**, 6, e1001167	7.6	58
43	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, 3802-10	6.6	57
42	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, 7322-36	6.6	56
41	Bacterial curli protein promotes the conversion of PAP248-286 into the amyloid SEVI: cross-seeding of dissimilar amyloid sequences. *PeerJ*, **2013**, 1, e5	3.1	56
40	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, 11194-208	6.6	43
39	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	11.5	40
38	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, 9776-81	6.6	40
37	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	7.8	34
36	HIV-1 Gag associates with specific uropod-directed microdomains in a manner dependent on its MA highly basic region. *Journal of Virology*, **2013**, 87, 6441-54	6.6	30
35	HIV-1 assembly at the plasma membrane. *Vaccine*, **2010**, 28 Suppl 2, B55-9	4.1	27
34	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, 4650-64	6.6	26
33	Assembly and replication of HIV-1 in T cells with low levels of phosphatidylinositol-(4,5)-bisphosphate. *Journal of Virology*, **2011**, 85, 3584-95	6.6	26
32	Roles played by acidic lipids in HIV-1 Gag membrane binding. *Virus Research*, **2014**, 193, 108-15	6.4	24
31	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, 4728-37	6.6	24

30	Methods for the study of HIV-1 assembly. *Methods in Molecular Biology*, **2009**, 485, 163-84	1.4	24
29	Inhibition of HIV-1 Gag-membrane interactions by specific RNAs. *Rna*, **2017**, 23, 395-405	5.8	23
28	Pravastatin does not have a consistent antiviral effect in chronically HIV-infected individuals on antiretroviral therapy. *Aids*, **2005**, 19, 1109-11	3.5	23
27	Phosphatidylinositol-(4,5)-Bisphosphate Acyl Chains Differentiate Membrane Binding of HIV-1 Gag from That of the Phospholipase C□ Pleckstrin Homology Domain. *Journal of Virology*, **2015**, 89, 7861-73	6.6	22
26	Molecular mechanisms by which HERV-K Gag interferes with HIV-1 Gag assembly and particle infectivity. *Retrovirology*, **2017**, 14, 27	3.6	21
25	Optimized method for computing (18)O/(16)O ratios of differentially stable-isotope labeled peptides in the context of postdigestion (18)O exchange/labeling. *Analytical Chemistry*, **2010**, 82, 5878-86	7.8	20
24	Basic motifs target PSGL-1, CD43, and CD44 to plasma membrane sites where HIV-1 assembles. *Journal of Virology*, **2015**, 89, 454-67	6.6	16
23	Virion-incorporated PSGL-1 and CD43 inhibit both cell-free infection and transinfection of HIV-1 by preventing virus-cell binding. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 8055-8063	11.5	15
22	Dynamic Association between HIV-1 Gag and Membrane Domains. *Molecular Biology International*, **2012**, 2012, 979765		15
21	Dominant negative inhibition of human immunodeficiency virus particle production by the nonmyristoylated form of gag. *Journal of Virology*, **2008**, 82, 4384-99	6.6	14
20	Relationships between MA-RNA Binding in Cells and Suppression of HIV-1 Gag Mislocalization to Intracellular Membranes. *Journal of Virology*, **2019**, 93,	6.6	13
19	Friend or Foe: The Role of the Cytoskeleton in Influenza A Virus Assembly. *Viruses*, **2019**, 11,	6.2	13
18	Transport of envelope proteins of Sendai virus, HN and F0, is blocked at different steps by thapsigargin and other perturbants to intracellular Ca2+. *Journal of Biochemistry*, **1994**, 116, 649-56	3.1	12
17	Secondary lymphoid organ fibroblastic reticular cells mediate trans-infection of HIV-1 via CD44-hyaluronan interactions. *Nature Communications*, **2018**, 9, 2436	17.4	12
16	Viruses and lipids. *Viruses*, **2010**, 2, 1236-8	6.2	10
15	The tumour suppressor APC promotes HIV-1 assembly via interaction with Gag precursor protein. *Nature Communications*, **2017**, 8, 14259	17.4	9
14	Characterizing natural hydrogel for reconstruction of three-dimensional lymphoid stromal network to model T-cell interactions. *Journal of Biomedical Materials Research - Part A*, **2015**, 103, 2701-10	5.4	9
13	Molecular Determinants Directing HIV-1 Gag Assembly to Virus-Containing Compartments in Primary Macrophages. *Journal of Virology*, **2016**, 90, 8509-19	6.6	8

12	A Defect in Influenza A Virus Particle Assembly Specific to Primary Human Macrophages. *MBio*, **2018**, 9,	7.8	6
11	Toxoplasma gondii exploits the host ESCRT machinery for parasite uptake of host cytosolic proteins.. *PLoS Pathogens*, **2021**, 17, e1010138	7.6	5
10	Host Retromer Protein Sorting Nexin 2 Interacts with Human Respiratory Syncytial Virus Structural Proteins and is Required for Efficient Viral Production. *MBio*, **2020**, 11,	7.8	4
9	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,	6.2	3
8	Movements of Ancient Human Endogenous Retroviruses Detected in SOX2-Expressing Cells.. *Journal of Virology*, **2022**, e0035622	6.6	3
7	Post-digestion ▯O exchange/labeling for quantitative shotgun proteomics of membrane proteins. *Methods in Molecular Biology*, **2012**, 893, 223-40	1.4	2
6	Molecular determinants in tRNA D-arm required for inhibition of HIV-1 Gag membrane binding. *Journal of Molecular Biology*, **2021**, 167390	6.5	2
5	Toxoplasma gondii subverts the host ESCRT machinery for parasite uptake of host cytosolic proteins		2
4	Visualization of HIV-1 Gag Binding to Giant Unilamellar Vesicle (GUV) Membranes. *Journal of Visualized Experiments*, **2016**,	1.6	1
3	Methods to Study Determinants for Membrane Targeting of HIV-1 Gag In Vitro. *Methods in Molecular Biology*, **2016**, 1354, 175-85	1.4	1
2	Relationships between MA-RNA binding in cells and suppression of HIV-1 Gag mislocalization to intracellular membranes		1
1	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	7.5	0