

Oliver T Fackler

List of Publications by Year in descending order

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108
papers

6,876
citations

50276

46
h-index

64796

79
g-index

112
all docs

112
docs citations

112
times ranked

7261
citing authors

#	ARTICLE	IF	CITATIONS
1	SAMHD1 restricts HIV-1 infection in resting CD4+ T cells. <i>Nature Medicine</i> , 2012, 18, 1682-1688.	30.7	519
2	Cell motility through plasma membrane blebbing. <i>Journal of Cell Biology</i> , 2008, 181, 879-884.	5.2	510
3	The Nef Protein of Human Immunodeficiency Virus Establishes Superinfection Immunity by a Dual Strategy to Downregulate Cell-Surface CCR5 and CD4. <i>Current Biology</i> , 2005, 15, 714-723.	3.9	400
4	Structure–function relationships in HIV-1 Nef. <i>EMBO Reports</i> , 2001, 2, 580-585.	4.5	333
5	HIV-1 Antagonism of CD317 Is Species Specific and Involves Vpu-Mediated Proteasomal Degradation of the Restriction Factor. <i>Cell Host and Microbe</i> , 2009, 5, 285-297.	11.0	240
6	Activation of Vav by Nef Induces Cytoskeletal Rearrangements and Downstream Effector Functions. <i>Molecular Cell</i> , 1999, 3, 729-739.	9.7	215
7	Live and Let Die. <i>Immunity</i> , 2002, 16, 493-497.	14.3	203
8	Positive feedback between Dia1, LARG, and RhoA regulates cell morphology and invasion. <i>Genes and Development</i> , 2007, 21, 1478-1483.	5.9	148
9	Modulation of the immunological synapse: a key to HIV-1 pathogenesis?. <i>Nature Reviews Immunology</i> , 2007, 7, 310-317.	22.7	121
10	HIV-1 Nef Interferes with Host Cell Motility by Deregulation of Cofilin. <i>Cell Host and Microbe</i> , 2009, 6, 174-186.	11.0	118
11	Restrictions to HIV-1 replication in resting CD4+ T lymphocytes. <i>Cell Research</i> , 2013, 23, 876-885.	12.0	113
12	Guanylate-Binding Proteins 2 and 5 Exert Broad Antiviral Activity by Inhibiting Furin-Mediated Processing of Viral Envelope Proteins. <i>Cell Reports</i> , 2019, 27, 2092-2104.e10.	6.4	112
13	Apolipoprotein E Likely Contributes to a Maturation Step of Infectious Hepatitis C Virus Particles and Interacts with Viral Envelope Glycoproteins. <i>Journal of Virology</i> , 2014, 88, 12422-12437.	3.4	103
14	FHOD1 interaction with nesprin-2G mediates TAN line formation and nuclear movement. <i>Nature Cell Biology</i> , 2014, 16, 708-715.	10.3	103
15	p21-Activated Kinase 1 Plays a Critical Role in Cellular Activation by Nef. <i>Molecular and Cellular Biology</i> , 2000, 20, 2619-2627.	2.3	96
16	Human Immunodeficiency Virus Type 1 Nef Activates p21-Activated Kinase via Recruitment into Lipid Rafts. <i>Journal of Virology</i> , 2004, 78, 4085-4097.	3.4	95
17	Functional characterization of HIV-1 Nef mutants in the context of viral infection. <i>Virology</i> , 2006, 351, 322-339.	2.4	93
18	Subunit H of the V-ATPase Binds to the Medium Chain of Adaptor Protein Complex 2 and Connects Nef to the Endocytic Machinery. <i>Journal of Biological Chemistry</i> , 2002, 277, 28521-28529.	3.4	92

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19	The HIV-1 Pathogenicity Factor Nef Interferes with Maturation of Stimulatory T-lymphocyte Contacts by Modulation of N-Wasp Activity. <i>Journal of Biological Chemistry</i> , 2006, 281, 19618-19630.	3.4	87
20	HIV-1 Vpu Blocks Recycling and Biosynthetic Transport of the Intrinsic Immunity Factor CD317/Tetherin To Overcome the Virion Release Restriction. <i>MBio</i> , 2011, 2, e00036-11.	4.1	85
21	HIV-1 reprograms the migration of macrophages. <i>Blood</i> , 2015, 125, 1611-1622.	1.4	82
22	Flavivirus Infection Uncouples Translation Suppression from Cellular Stress Responses. <i>MBio</i> , 2017, 8, .	4.1	81
23	HIV-Nef and ADAM17-Containing Plasma Extracellular Vesicles Induce and Correlate with Immune Pathogenesis in Chronic HIV Infection. <i>EBioMedicine</i> , 2016, 6, 103-113.	6.1	80
24	Interactions of human retroviruses with the host cell cytoskeleton. <i>Current Opinion in Microbiology</i> , 2006, 9, 409-415.	5.1	77
25	Nef Proteins of Epidemic HIV-1 Group O Strains Antagonize Human Tetherin. <i>Cell Host and Microbe</i> , 2014, 16, 639-650.	11.0	77
26	The host-cell restriction factor SERINC5 restricts HIV-1 infectivity without altering the lipid composition and organization of viral particles. <i>Journal of Biological Chemistry</i> , 2017, 292, 13702-13713.	3.4	76
27	Expression of Nef Downregulates CXCR4, the Major Coreceptor of Human Immunodeficiency Virus, from the Surfaces of Target Cells and Thereby Enhances Resistance to Superinfection. <i>Journal of Virology</i> , 2006, 80, 11141-11152.	3.4	73
28	HIV-1 Nef and Vpu Are Functionally Redundant Broad-Spectrum Modulators of Cell Surface Receptors, Including Tetraspanins. <i>Journal of Virology</i> , 2014, 88, 14241-14257.	3.4	72
29	Antagonism of CD317 Restriction of Human Immunodeficiency Virus Type 1 (HIV-1) Particle Release and Depletion of CD317 Are Separable Activities of HIV-1 Vpu. <i>Journal of Virology</i> , 2010, 84, 4089-4094.	3.4	71
30	Human Immunodeficiency Virus Type 1 Nef protein modulates the lipid composition of virions and host cell membrane microdomains. <i>Retrovirology</i> , 2007, 4, 70.	2.0	70
31	Specific and distinct determinants mediate membrane binding and lipid raft incorporation of HIV-1SF2 Nef. <i>Virology</i> , 2006, 355, 175-191.	2.4	66
32	HIV-1 Nef: a multifaceted modulator of T cell receptor signaling. <i>Cell Communication and Signaling</i> , 2012, 10, 39.	6.5	66
33	Adding new dimensions: towards an integrative understanding of HIV-1 spread. <i>Nature Reviews Microbiology</i> , 2014, 12, 563-574.	28.6	66
34	HIV-1 Nef interferes with T-lymphocyte circulation through confined environments in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 18541-18546.	7.1	63
35	The Diaphanous-related Formin FHOD1 Associates with ROCK1 and Promotes Src-dependent Plasma Membrane Blebbing. <i>Journal of Biological Chemistry</i> , 2008, 283, 27891-27903.	3.4	61
36	Experimental and computational analyses reveal that environmental restrictions shape HIV-1 spread in 3D cultures. <i>Nature Communications</i> , 2019, 10, 2144.	12.8	60

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37	How HIV Takes Advantage of the Cytoskeleton in Entry and Replication. <i>Viruses</i> , 2011, 3, 293-311.	3.3	58
38	GPCR-induced calcium transients trigger nuclear actin assembly for chromatin dynamics. <i>Nature Communications</i> , 2019, 10, 5271.	12.8	58
39	HIV-1 Nef Employs Two Distinct Mechanisms to Modulate Lck Subcellular Localization and TCR Induced Actin Remodeling. <i>PLoS ONE</i> , 2007, 2, e1212.	2.5	57
40	Inhibition of the Nef regulatory protein of HIV-1 by a single-domain antibody. <i>Blood</i> , 2011, 117, 3559-3568.	1.4	57
41	Salivary gland macrophages and tissue-resident CD8 ⁺ T cells cooperate for homeostatic organ surveillance. <i>Science Immunology</i> , 2020, 5, .	11.9	57
42	The Antagonism of HIV-1 Nef to SERINC5 Particle Infectivity Restriction Involves the Counteraction of Virion-Associated Pools of the Restriction Factor. <i>Journal of Virology</i> , 2016, 90, 10915-10927.	3.4	56
43	Î²-TrCP is dispensable for Vpu's ability to overcome the CD317/Tetherin-imposed restriction to HIV-1 release. <i>Retrovirology</i> , 2011, 8, 9.	2.0	55
44	Human Tetherin Exerts Strong Selection Pressure on the HIV-1 Group N Vpu Protein. <i>PLoS Pathogens</i> , 2012, 8, e1003093.	4.7	55
45	Modulation of specific surface receptors and activation sensitization in primary resting CD4 ⁺ T lymphocytes by the Nef protein of HIV-1. <i>Journal of Leukocyte Biology</i> , 2006, 79, 616-627.	3.3	54
46	Human Immunodeficiency Virus Type 1 Nef Recruits the Guanine Exchange Factor Vav1 via an Unexpected Interface into Plasma Membrane Microdomains for Association with p21-Activated Kinase 2 Activity. <i>Journal of Virology</i> , 2008, 82, 2918-2929.	3.4	54
47	SH4-domain-induced plasma membrane dynamization promotes bleb-associated cell motility. <i>Journal of Cell Science</i> , 2007, 120, 3820-3829.	2.0	51
48	HIV-1 Nef compensates for disorganization of the immunological synapse by inducing trans-Golgi network-associated Lck signaling. <i>Blood</i> , 2012, 119, 786-797.	1.4	51
49	Lentiviral Nef Proteins Utilize PAK2-Mediated Dereglulation of Cofilin as a General Strategy To Interfere with Actin Remodeling. <i>Journal of Virology</i> , 2010, 84, 3935-3948.	3.4	50
50	DDX60L Is an Interferon-Stimulated Gene Product Restricting Hepatitis C Virus Replication in Cell Culture. <i>Journal of Virology</i> , 2015, 89, 10548-10568.	3.4	50
51	SAMHD1's protein expression profile in humans. <i>Journal of Leukocyte Biology</i> , 2015, 98, 5-14.	3.3	47
52	A natural variability in the proline-rich motif of Nef modulates HIV-1 replication in primary T cells. <i>Current Biology</i> , 2001, 11, 1294-1299.	3.9	46
53	Vpx overcomes a SAMHD1-independent block to HIV reverse transcription that is specific to resting CD4 ⁺ T cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 2729-2734.	7.1	46
54	Rodent Cells Support Key Functions of the Human Immunodeficiency Virus Type 1 Pathogenicity Factor Nef. <i>Journal of Virology</i> , 2005, 79, 1655-1665.	3.4	44

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55	Formin-like 2 Promotes Î²1-Integrin Trafficking and Invasive Motility Downstream of PKCÎ±. <i>Developmental Cell</i> , 2015, 34, 475-483.	7.0	42
56	Inhibition of T-Cell Receptor-Induced Actin Remodeling and Relocalization of Lck Are Evolutionarily Conserved Activities of Lentiviral Nef Proteins. <i>Journal of Virology</i> , 2009, 83, 11528-11539.	3.4	41
57	Hydrophilic <i>trans</i> -Cyclooctenylated Noncanonical Amino Acids for Fast Intracellular Protein Labeling. <i>ChemBioChem</i> , 2016, 17, 1518-1524.	2.6	39
58	HIV Nef- and Notch1-dependent Endocytosis of ADAM17 Induces Vesicular TNF Secretion in Chronic HIV Infection. <i>EBioMedicine</i> , 2016, 13, 294-304.	6.1	38
59	Induction of HIV Transcription by Nef Involves Lck Activation and Protein Kinase CÎ± Raft Recruitment Leading to Activation of ERK1/2 but Not NFÎ±B. <i>Journal of Immunology</i> , 2008, 181, 8425-8432.	0.8	35
60	Reacquisition of Nef-Mediated Tetherin Antagonism in a Single In Vivo Passage of HIV-1 through Its Original Chimpanzee Host. <i>Cell Host and Microbe</i> , 2012, 12, 373-380.	11.0	35
61	Nef from Human Immunodeficiency Virus Type 1 F12 Inhibits Viral Production and Infectivity. <i>Journal of Virology</i> , 2001, 75, 6601-6608.	3.4	34
62	The Nef Protein of Human Immunodeficiency Virus Is a Broad-Spectrum Modulator of Chemokine Receptor Cell Surface Levels That Acts Independently of Classical Motifs for Receptor Endocytosis and GÎ±i Signaling. <i>Molecular Biology of the Cell</i> , 2006, 17, 3578-3590.	2.1	33
63	Novel (n)PKC kinases phosphorylate Nef for increased HIV transcription, replication and perinuclear targeting. <i>Virology</i> , 2008, 370, 45-54.	2.4	33
64	HIV-1 Vpu affects the anterograde transport and the glycosylation pattern of NTB-A. <i>Virology</i> , 2013, 440, 190-203.	2.4	31
65	Molecular Design, Functional Characterization and Structural Basis of a Protein Inhibitor Against the HIV-1 Pathogenicity Factor Nef. <i>PLoS ONE</i> , 2011, 6, e20033.	2.5	31
66	Determinants in HIV-1 Nef for enhancement of virus replication and depletion of CD4+ T lymphocytes in human lymphoid tissue ex vivo. <i>Retrovirology</i> , 2009, 6, 6.	2.0	29
67	Sensing of HIV-1 Infection in Tzm-bl Cells with Reconstituted Expression of STING. <i>Journal of Virology</i> , 2016, 90, 2064-2076.	3.4	29
68	Potential impact of the antirheumatic agent auranofin on proviral HIV-1 DNA in individuals under intensified antiretroviral therapy: Results from a randomised clinical trial. <i>International Journal of Antimicrobial Agents</i> , 2019, 54, 592-600.	2.5	29
69	HIV-1 Nef Limits Communication between Linker of Activated T Cells and SLP-76 To Reduce Formation of SLP-76 Signaling Microclusters following TCR Stimulation. <i>Journal of Immunology</i> , 2012, 189, 1898-1910.	0.8	27
70	Cell Surface Downregulation of NK Cell Ligands by Patient-Derived HIV-1 Vpu and Nef Alleles. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , 2016, 72, 1-10.	2.1	26
71	HIV-1 Vpu Antagonizes CD317/Tetherin by Adaptor Protein-1-Mediated Exclusion from Virus Assembly Sites. <i>Journal of Virology</i> , 2016, 90, 6709-6723.	3.4	25
72	SIVcol Nef counteracts SERINC5 by promoting its proteasomal degradation but does not efficiently enhance HIV-1 replication in human CD4+ T cells and lymphoid tissue. <i>PLoS Pathogens</i> , 2018, 14, e1007269.	4.7	25

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73	Nef does not inhibit F-actin remodelling and HIV-1 cell-to-cell transmission at the T lymphocyte virological synapse. <i>European Journal of Cell Biology</i> , 2011, 90, 913-921.	3.6	24
74	Differing and isoform-specific roles for the formin DIAPH3 in plasma membrane blebbing and filopodia formation. <i>Cell Research</i> , 2012, 22, 728-745.	12.0	23
75	Association with PAK2 Enables Functional Interactions of Lentiviral Nef Proteins with the Exocyst Complex. <i>MBio</i> , 2015, 6, e01309-15.	4.1	23
76	The FDA-Approved Drug Cobicistat Synergizes with Remdesivir To Inhibit SARS-CoV-2 Replication <i>in Vitro</i> and Decreases Viral Titers and Disease Progression in Syrian Hamsters. <i>MBio</i> , 2022, 13, e0370521.	4.1	22
77	HIV-1 Vpu's lipid raft association is dispensable for counteraction of the particle release restriction imposed by CD317/Tetherin. <i>Virology</i> , 2012, 424, 33-44.	2.4	20
78	Spotlight on HIV-1 Nef: SERINC3 and SERINC5 Identified as Restriction Factors Antagonized by the Pathogenesis Factor. <i>Viruses</i> , 2015, 7, 6730-6738.	3.3	19
79	HIV-1 infection of CD4 T cells impairs antigen-specific B cell function. <i>EMBO Journal</i> , 2020, 39, e105594.	7.8	18
80	Microstructured Blood Vessel Surrogates Reveal Structural Tropism of Motile Malaria Parasites. <i>Advanced Healthcare Materials</i> , 2017, 6, 1601178.	7.6	17
81	Multifunctional Roles of the N-Terminal Region of HIV-1 Nef Are Mediated by Three Independent Protein Interaction Sites. <i>Journal of Virology</i> , 2019, 94, .	3.4	17
82	The Pro78 residue regulates the capacity of the human immunodeficiency virus type 1 Nef protein to inhibit recycling of major histocompatibility complex class I molecules in an SH3-independent manner. <i>Journal of General Virology</i> , 2006, 87, 2291-2296.	2.9	16
83	Identification of a highly conserved valine-glycine-phenylalanine amino acid triplet required for HIV-1 Nef function. <i>Retrovirology</i> , 2012, 9, 34.	2.0	15
84	NHC-gold compounds mediate immune suppression through induction of AHR-TGF β 1 signalling in vitro and in scurfy mice. <i>Communications Biology</i> , 2020, 3, 10.	4.4	14
85	SERINC5 Is an Unconventional HIV Restriction Factor That Is Upregulated during Myeloid Cell Differentiation. <i>Journal of Innate Immunity</i> , 2020, 12, 399-409.	3.8	14
86	Modest Attenuation of HIV-1 Vpu Alleles Derived from Elite Controller Plasma. <i>PLoS ONE</i> , 2015, 10, e0120434.	2.5	13
87	Tailored environments to study motile cells and pathogens. <i>Cellular Microbiology</i> , 2018, 20, e12820.	2.1	13
88	The antiviral activity of rodent and lagomorph SERINC3 and SERINC5 is counteracted by known viral antagonists. <i>Journal of General Virology</i> , 2019, 100, 278-288.	2.9	13
89	Temporal control of the integrated stress response by a stochastic molecular switch. <i>Science Advances</i> , 2022, 8, eabk2022.	10.3	13
90	Rapid, efficient and activation-neutral gene editing of polyclonal primary human resting CD4+ T cells allows complex functional analyses. <i>Nature Methods</i> , 2022, 19, 81-89.	19.0	12

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91	HIV-1 Nef Disrupts CD4+ T Lymphocyte Polarity, Extravasation, and Homing to Lymph Nodes via Its Nef-Associated Kinase Complex Interface. <i>Journal of Immunology</i> , 2018, 201, 2731-2743.	0.8	11
92	Environmental Restrictions: A New Concept Governing HIV-1 Spread Emerging from Integrated Experimental-Computational Analysis of Tissue-Like 3D Cultures. <i>Cells</i> , 2020, 9, 1112.	4.1	11
93	HIV-1 Nef disrupts membrane-microdomain-associated anterograde transport for plasma membrane delivery of selected Src family kinases. <i>Cellular Microbiology</i> , 2013, 15, n/a-n/a.	2.1	10
94	Heterologous Src Homology 4 Domains Support Membrane Anchoring and Biological Activity of HIV-1 Nef. <i>Journal of Biological Chemistry</i> , 2014, 289, 14030-14044.	3.4	9
95	SERINC5 Can Enhance Proinflammatory Cytokine Production by Primary Human Myeloid Cells in Response to Challenge with HIV-1 Particles. <i>Journal of Virology</i> , 2021, 95, .	3.4	9
96	MxB/Mx2: the latest piece in HIV's interferon puzzle. <i>EMBO Reports</i> , 2013, 14, 1028-1029.	4.5	7
97	Experimental systems for studying Plasmodium/HIV coinfection. <i>FEBS Letters</i> , 2016, 590, 2000-2013.	2.8	6
98	FAMoS: A Flexible and dynamic Algorithm for Model Selection to analyse complex systems dynamics. <i>PLoS Computational Biology</i> , 2019, 15, e1007230.	3.2	6
99	Viral Transduction Enhancing Effect of EF ϵ Peptide Nanofibrils Is Mediated by Cellular Protrusions. <i>Advanced Functional Materials</i> , 2021, 31, 2104814.	14.9	6
100	Patient-Derived HIV-1 Nef Alleles Reveal Uncoupling of CD4 Downregulation and SERINC5 Antagonism Functions of the Viral Pathogenesis Factor. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , 2020, 85, e23-e26.	2.1	5
101	Primate lentiviral Nef proteins deregulate T-cell development by multiple mechanisms. <i>Retrovirology</i> , 2013, 10, 137.	2.0	4
102	Two-filter probabilistic data association for tracking of virus particles in fluorescence microscopy images. , 2018, , .		4
103	Contact-dependent inhibition of HIV-1 replication in ex vivo human tonsil cultures by polymorphonuclear neutrophils. <i>Cell Reports Medicine</i> , 2021, 2, 100317.	6.5	3
104	D186/D190 is an allele-dependent determinant of HIV-1 Nef function. <i>Virology</i> , 2016, 498, 44-56.	2.4	2
105	Intrinsic properties and plasma membrane trafficking route of Src family kinase SH4 domains sensitive to retargeting by HIV-1 Nef. <i>Journal of Biological Chemistry</i> , 2018, 293, 7824-7840.	3.4	2
106	A Conserved GPG-Motif in the HIV-1 Nef Core Is Required for Principal Nef-Activities. <i>PLoS ONE</i> , 2015, 10, e0145239.	2.5	2
107	Integrative analysis of pathogen replication and spread: zooming into increasing complexity. <i>FEBS Letters</i> , 2016, 590, 1855-1857.	2.8	0
108	VisuStat [®] Visualizing Motility and Morphology Statistics on Images in R. <i>Bioinformatics</i> , 2022, , .	4.1	0