

# Michael Schindler

## List of Publications by Citations

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99  
papers

4,887  
citations

33  
h-index

68  
g-index

108  
ext. papers

5,765  
ext. citations

8.6  
avg, IF

5.1  
L-index

#	Paper	IF	Citations
99	Specific and nonhepatotoxic degradation of nuclear hepatitis B virus cccDNA. <i>Science</i> , <b>2014</b> , 343, 1221-833	33.3	619
98	Semen-derived amyloid fibrils drastically enhance HIV infection. <i>Cell</i> , <b>2007</b> , 131, 1059-71	56.2	424
97	Tetherin-driven adaptation of Vpu and Nef function and the evolution of pandemic and nonpandemic HIV-1 strains. <i>Cell Host and Microbe</i> , <b>2009</b> , 6, 409-21	23.4	339
96	Nef-mediated suppression of T cell activation was lost in a lentiviral lineage that gave rise to HIV-1. <i>Cell</i> , <b>2006</b> , 125, 1055-67	56.2	318
95	Discovery and optimization of a natural HIV-1 entry inhibitor targeting the gp41 fusion peptide. <i>Cell</i> , <b>2007</b> , 129, 263-75	56.2	206
94	Macrophages and their relevance in Human Immunodeficiency Virus Type I infection. <i>Retrovirology</i> , <b>2012</b> , 9, 82	3.6	166
93	Contribution of Vpu, Env, and Nef to CD4 down-modulation and resistance of human immunodeficiency virus type 1-infected T cells to superinfection. <i>Journal of Virology</i> , <b>2006</b> , 80, 8047-59	6.6	150
92	Structure-guided multivalent nanobodies block SARS-CoV-2 infection and suppress mutational escape. <i>Science</i> , <b>2021</b> , 371,	33.3	149
91	Down-modulation of mature major histocompatibility complex class II and up-regulation of invariant chain cell surface expression are well-conserved functions of human and simian immunodeficiency virus nef alleles. <i>Journal of Virology</i> , <b>2003</b> , 77, 10548-56	6.6	141
90	Cell Surface Proteomic Map of HIV Infection Reveals Antagonism of Amino Acid Metabolism by Vpu and Nef. <i>Cell Host and Microbe</i> , <b>2015</b> , 18, 409-23	23.4	118
89	A flow cytometry-based FRET assay to identify and analyse protein-protein interactions in living cells. <i>PLoS ONE</i> , <b>2010</b> , 5, e9344	3.7	113
88	Role of Nef in primate lentiviral immunopathogenesis. <i>Cellular and Molecular Life Sciences</i> , <b>2008</b> , 65, 2621-36	10.3	99
87	Nef-mediated enhancement of virion infectivity and stimulation of viral replication are fundamental properties of primate lentiviruses. <i>Journal of Virology</i> , <b>2007</b> , 81, 13852-64	6.6	88
86	Nef induces multiple genes involved in cholesterol synthesis and uptake in human immunodeficiency virus type 1-infected T cells. <i>Journal of Virology</i> , <b>2005</b> , 79, 10053-8	6.6	79
85	Nef variants from non-pathogenic lentiviral strains inhibit iron uptake through an AP2-dependent inhibition of transferrin endocytosis. <i>Retrovirology</i> , <b>2013</b> , 10,	3.6	78
84	Vpu serine 52 dependent counteraction of tetherin is required for HIV-1 replication in macrophages, but not in ex vivo human lymphoid tissue. <i>Retrovirology</i> , <b>2010</b> , 7, 1	3.6	70
83	Enhanced CD4 down-modulation by late stage HIV-1 nef alleles is associated with increased Env incorporation and viral replication. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 33912-9	5.4	68

82	Macrophage internal HIV-1 is protected from neutralizing antibodies. <i>Journal of Virology</i> , <b>2012</b> , 86, 28266-6	6.6	64
81	HIV-1 assembly in macrophages. <i>Retrovirology</i> , <b>2010</b> , 7, 29	3.6	60
80	Human immunodeficiency virus type 1 inhibits DNA damage-triggered apoptosis by a Nef-independent mechanism. <i>Journal of Virology</i> , <b>2005</b> , 79, 5489-98	6.6	60
79	Immune response to SARS-CoV-2 variants of concern in vaccinated individuals. <i>Nature Communications</i> , <b>2021</b> , 12, 3109	17.4	57
78	The Ebola virus glycoprotein and HIV-1 Vpu employ different strategies to counteract the antiviral factor tetherin. <i>Journal of Infectious Diseases</i> , <b>2011</b> , 204 Suppl 3, S850-60	7	56
77	Nef proteins from diverse groups of primate lentiviruses downmodulate CXCR4 to inhibit migration to the chemokine stromal derived factor 1. <i>Journal of Virology</i> , <b>2005</b> , 79, 10650-9	6.6	53
76	The root extract of the medicinal plant <i>Pelargonium sidoides</i> is a potent HIV-1 attachment inhibitor. <i>PLoS ONE</i> , <b>2014</b> , 9, e87487	3.7	53
75	Inefficient Nef-mediated downmodulation of CD3 and MHC-I correlates with loss of CD4+T cells in natural SIV infection. <i>PLoS Pathogens</i> , <b>2008</b> , 4, e1000107	7.6	47
74	Nef proteins from simian immunodeficiency virus-infected chimpanzees interact with p21-activated kinase 2 and modulate cell surface expression of various human receptors. <i>Journal of Virology</i> , <b>2004</b> , 78, 6864-74	6.6	42
73	Potent in vitro antiviral activity of <i>Cistus incanus</i> extract against HIV and Filoviruses targets viral envelope proteins. <i>Scientific Reports</i> , <b>2016</b> , 6, 20394	4.9	40
72	Dynamics of HIV-containing compartments in macrophages reveal sequestration of virions and transient surface connections. <i>PLoS ONE</i> , <b>2013</b> , 8, e69450	3.7	38
71	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> , <b>2009</b> , 83, 11528-39	6.6	38
70	Primary sooty mangabey simian immunodeficiency virus and human immunodeficiency virus type 2 nef alleles modulate cell surface expression of various human receptors and enhance viral infectivity and replication. <i>Journal of Virology</i> , <b>2005</b> , 79, 10547-60	6.6	38
69	Selective downmodulation of HLA-A and -B by Nef alleles from different groups of primate lentiviruses. <i>Virology</i> , <b>2008</b> , 373, 229-37	3.6	37
68	Ion channel activity of HIV-1 Vpu is dispensable for counteraction of CD317. <i>Virology</i> , <b>2011</b> , 416, 75-85	3.6	35
67	Critical role for the kinesin KIF3A in the HIV life cycle in primary human macrophages. <i>Journal of Cell Biology</i> , <b>2012</b> , 199, 467-79	7.3	34
66	Association of Nef with p21-activated kinase 2 is dispensable for efficient human immunodeficiency virus type 1 replication and cytopathicity in ex vivo-infected human lymphoid tissue. <i>Journal of Virology</i> , <b>2007</b> , 81, 13005-14	6.6	32
65	HIV-1 Nef and Vpu Interfere with L-Selectin (CD62L) Cell Surface Expression To Inhibit Adhesion and Signaling in Infected CD4+ T Lymphocytes. <i>Journal of Virology</i> , <b>2015</b> , 89, 5687-700	6.6	30

64	The intraviral protein interaction network of hepatitis C virus. <i>Molecular and Cellular Proteomics</i> , <b>2014</b> , 13, 1676-89	7.6	30
63	Vpu is the main determinant for tetraspanin downregulation in HIV-1-infected cells. <i>Journal of Virology</i> , <b>2015</b> , 89, 3247-55	6.6	29
62	Mosses share mitochondrial group II introns with flowering plants, not with liverworts. <i>Molecular Genetics and Genomics</i> , <b>2001</b> , 266, 608-13	3.1	29
61	HIV-1 Vpu mediated downregulation of CD155 requires alanine residues 10, 14 and 18 of the transmembrane domain. <i>Virology</i> , <b>2014</b> , 464-465, 375-384	3.6	28
60	Effect of R77Q, R77A and R80A changes in Vpr on HIV-1 replication and CD4 T cell depletion in human lymphoid tissue ex vivo. <i>Aids</i> , <b>2006</b> , 20, 831-6	3.5	27
59	Comprehensive analysis of nef functions selected in simian immunodeficiency virus-infected macaques. <i>Journal of Virology</i> , <b>2004</b> , 78, 10588-97	6.6	27
58	Hepatitis C Virus Is Released via a Noncanonical Secretory Route. <i>Journal of Virology</i> , <b>2016</b> , 90, 10558-10563	6.3	26
57	HIV-1 Vpu affects the anterograde transport and the glycosylation pattern of NTB-A. <i>Virology</i> , <b>2013</b> , 440, 190-203	3.6	25
56	Lentiviral Nef suppresses iron uptake in a strain specific manner through inhibition of Transferrin endocytosis. <i>Retrovirology</i> , <b>2014</b> , 11, 1	3.6	25
55	The presence of a vpu gene and the lack of Nef-mediated downmodulation of T cell receptor-CD3 are not always linked in primate lentiviruses. <i>Journal of Virology</i> , <b>2011</b> , 85, 742-52	6.6	25
54	Tetherin Sensitivity of Influenza A Viruses Is Strain Specific: Role of Hemagglutinin and Neuraminidase. <i>Journal of Virology</i> , <b>2015</b> , 89, 9178-88	6.6	24
53	Nef alleles from children with non-progressive HIV-1 infection modulate MHC-II expression more efficiently than those from rapid progressors. <i>Aids</i> , <b>2007</b> , 21, 1103-7	3.5	23
52	A Combined Omics Approach to Generate the Surface Atlas of Human Naive CD4+ T Cells during Early T-Cell Receptor Activation. <i>Molecular and Cellular Proteomics</i> , <b>2015</b> , 14, 2085-102	7.6	22
51	Human cytomegalovirus overcomes SAMHD1 restriction in macrophages via pUL97. <i>Nature Microbiology</i> , <b>2019</b> , 4, 2260-2272	26.6	21
50	Importance of the N-distal AP-2 binding element in Nef for simian immunodeficiency virus replication and pathogenicity in rhesus macaques. <i>Journal of Virology</i> , <b>2006</b> , 80, 4469-81	6.6	21
49	Analysis of determinants in filovirus glycoproteins required for tetherin antagonism. <i>Viruses</i> , <b>2014</b> , 6, 1654-71	6.2	20
48	Formation of trans-activation competent HIV-1 Rev:RRE complexes requires the recruitment of multiple protein activation domains. <i>PLoS ONE</i> , <b>2012</b> , 7, e38305	3.7	19
47	Human immunodeficiency virus type 1 nef expression prevents AP-2-mediated internalization of the major histocompatibility complex class II-associated invariant chain. <i>Journal of Virology</i> , <b>2008</b> , 82, 8373-82	6.6	18

46	Alterations in HIV-1 LTR promoter activity during AIDS progression. <i>Virology</i> , <b>2003</b> , 317, 109-18	3.6	18
45	The Tetherin Antagonism of the Ebola Virus Glycoprotein Requires an Intact Receptor-Binding Domain and Can Be Blocked by GP1-Specific Antibodies. <i>Journal of Virology</i> , <b>2016</b> , 90, 11075-11086	6.6	17
44	No detection of XMRV in blood samples and tissue sections from prostate cancer patients in Northern Europe. <i>PLoS ONE</i> , <b>2011</b> , 6, e25592	3.7	17
43	Primary human immunodeficiency virus type 1 nef alleles show major differences in pathogenicity in transgenic mice. <i>Journal of Virology</i> , <b>2007</b> , 81, 4677-93	6.6	17
42	A viral kinase counteracts in vivo restriction of murine cytomegalovirus by SAMHD1. <i>Nature Microbiology</i> , <b>2019</b> , 4, 2273-2284	26.6	16
41	Down-modulation of CD8 $\alpha$ s a fundamental activity of primate lentiviral Nef proteins. <i>Journal of Virology</i> , <b>2012</b> , 86, 36-48	6.6	15
40	Activated integrins identify functional antigen-specific CD8 T cells within minutes after antigen stimulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E5536-E5545	11.5	15
39	AP-2 Is the Crucial Clathrin Adaptor Protein for CD4 Downmodulation by HIV-1 Nef in Infected Primary CD4+ T Cells. <i>Journal of Virology</i> , <b>2015</b> , 89, 12518-24	6.6	14
38	Domains of the Hepatitis B Virus Small Surface Protein S Mediating Oligomerization. <i>Journal of Virology</i> , <b>2018</b> , 92,	6.6	14
37	Tetherin Inhibits Nipah Virus but Not Ebola Virus Replication in Fruit Bat Cells. <i>Journal of Virology</i> , <b>2019</b> , 93,	6.6	14
36	Virion encapsidated HIV-1 Vpr induces NFAT to prime non-activated T cells for productive infection. <i>Open Biology</i> , <b>2016</b> , 6,	7	13
35	Antibody Response against SARS-CoV-2 and Seasonal Coronaviruses in Nonhospitalized COVID-19 Patients. <i>MSphere</i> , <b>2021</b> , 6,	5	13
34	Platelets Aggregate With Neutrophils and Promote Skin Pathology in Psoriasis. <i>Frontiers in Immunology</i> , <b>2019</b> , 10, 1867	8.4	12
33	Single Nef proteins from HIV type 1 subtypes C and F fail to upregulate invariant chain cell surface expression but are active for other functions. <i>AIDS Research and Human Retroviruses</i> , <b>2009</b> , 25, 285-96	1.6	12
32	NeutrobodyPlex-monitoring SARS-CoV-2 neutralizing immune responses using nanobodies. <i>EMBO Reports</i> , <b>2021</b> , 22, e52325	6.5	12
31	Quinine Inhibits Infection of Human Cell Lines with SARS-CoV-2. <i>Viruses</i> , <b>2021</b> , 13,	6.2	12
30	Persisting Neutralizing Activity to SARS-CoV-2 over Months in Sera of COVID-19 Patients. <i>Viruses</i> , <b>2020</b> , 12,	6.2	11
29	ESCRT machinery components are required for Orthobunyavirus particle production in Golgi compartments. <i>PLoS Pathogens</i> , <b>2018</b> , 14, e1007047	7.6	11

28	Conservation of Nef function across highly diverse lineages of SIVsmm. <i>Retrovirology</i> , <b>2009</b> , 6, 36	3.6	11
27	HIV-1 replication in human immune cells is independent of TAR DNA binding protein 43 (TDP-43) expression. <i>PLoS ONE</i> , <b>2014</b> , 9, e105478	3.7	11
26	A GXXXA Motif in the Transmembrane Domain of the Ebola Virus Glycoprotein Is Required for Tetherin Antagonism. <i>Journal of Virology</i> , <b>2018</b> , 92,	6.6	10
25	Supramolecular combinations of humic polyanions as potent microbicides with polymodal anti-HIV-activities. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 212-224	3.6	10
24	Analysis of IFITM-IFITM Interactions by a Flow Cytometry-Based FRET Assay. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	9
23	Dual role of the chromatin-binding factor PHF13 in the pre- and post-integration phases of HIV-1 replication. <i>Open Biology</i> , <b>2017</b> , 7,	7	8
22	A novel pVHL-independent but NEMO-driven pathway in renal cancer promotes HIF stabilization. <i>Oncogene</i> , <b>2016</b> , 35, 3125-38	9.2	8
21	HIV-mediated up-regulation of invariant chain (CD74) correlates with generalized immune activation in HIV+ subjects. <i>Virus Research</i> , <b>2012</b> , 163, 380-4	6.4	8
20	Inactivation of SARS-CoV-2 through Treatment with the Mouth Rinsing Solutions ViruProX and BacterX Pro. <i>Microorganisms</i> , <b>2021</b> , 9,	4.9	8
19	T cells with low CD2 levels express reduced restriction factors and are preferentially infected in therapy naïve chronic HIV-1 patients. <i>Journal of the International AIDS Society</i> , <b>2017</b> , 20, 21865	5.4	7
18	Release of Immunomodulatory Ebola Virus Glycoprotein-Containing Microvesicles Is Suppressed by Tetherin in a Species-Specific Manner. <i>Cell Reports</i> , <b>2019</b> , 26, 1841-1853.e6	10.6	7
17	Biparatopic nanobodies protect mice from lethal challenge with SARS-CoV-2 variants of concern.. <i>EMBO Reports</i> , <b>2021</b> , e53865	6.5	6
16	Designing a SARS-CoV-2 T-Cell-Inducing Vaccine for High-Risk Patient Groups. <i>Vaccines</i> , <b>2021</b> , 9,	5.3	5
15	The human Defensin-derived peptide HD5(1-9) inhibits cellular attachment and entry of human cytomegalovirus. <i>Antiviral Research</i> , <b>2020</b> , 177, 104779	10.8	4
14	Primate lentiviral Nef proteins deregulate T-cell development by multiple mechanisms. <i>Retrovirology</i> , <b>2013</b> , 10, 137	3.6	4
13	Flow cytometry-based FRET identifies binding intensities in PPAR $\alpha$ protein-protein interactions in living cells. <i>Theranostics</i> , <b>2019</b> , 9, 5444-5463	12.1	3
12	Designing a therapeutic SARS-CoV-2 T-cell-inducing vaccine for high-risk patient groups		3
11	Lectin from (WGA) Inhibits Infection with SARS-CoV-2 and Its Variants of Concern Alpha and Beta. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	3

10	Iota-Carrageenan Inhibits Replication of SARS-CoV-2 and the Respective Variants of Concern Alpha, Beta, Gamma and Delta.. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	3
9	Rapid, dose-dependent and efficient inactivation of surface dried SARS-CoV-2 by 254 nm UV-C irradiation		2
8	Immune response to SARS-CoV-2 variants of concern in vaccinated individuals		2
7	First results of investigations of SARS-CoV-2 RNA in human corneal tissue. <i>Ophthalmologe</i> , <b>2021</b> , 118, 78-80	1.6	2
6	Mutation of a diacidic motif in SIV-PBj Nef impairs T-cell activation and enteropathic disease. <i>Retrovirology</i> , <b>2011</b> , 8, 14	3.6	1
5	A throughput serological Western blot system using whole virus lysate for the concomitant detection of antibodies against SARS-CoV-2 and human endemic Coronaviridae		1
4	Comprehensive Analysis of Human Cytomegalovirus- and HIV-Mediated Plasma Membrane Remodeling in Macrophages. <i>MBio</i> , <b>2021</b> , 12, e0177021	7.8	1
3	HCV egress - unconventional secretion of assembled viral particles. <i>Trends in Microbiology</i> , <b>2021</b> ,	12.4	1
2	COVID-19 patient serum less potently inhibits ACE2-RBD binding for various SARS-CoV-2 RBD mutants.. <i>Scientific Reports</i> , <b>2022</b> , 12, 7168	4.9	1
1	Flow cytometry based-FRET: basics, novel developments and future perspectives.. <i>Cellular and Molecular Life Sciences</i> , <b>2022</b> , 79, 217	10.3	0