

# Michael Schindler

## List of Publications by Year in descending order

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97  
papers

6,197  
citations

109321

35  
h-index

76900

74  
g-index

108  
all docs

108  
docs citations

108  
times ranked

8818  
citing authors

#	ARTICLE	IF	CITATIONS
1	Specific and Nonhepatotoxic Degradation of Nuclear Hepatitis B Virus cccDNA. <i>Science</i> , 2014, 343, 1221-1228.	12.6	774
2	Semen-Derived Amyloid Fibrils Drastically Enhance HIV Infection. <i>Cell</i> , 2007, 131, 1059-1071.	28.9	510
3	Tetherin-Driven Adaptation of Vpu and Nef Function and the Evolution of Pandemic and Nonpandemic HIV-1 Strains. <i>Cell Host and Microbe</i> , 2009, 6, 409-421.	11.0	391
4	Nef-Mediated Suppression of T Cell Activation Was Lost in a Lentiviral Lineage that Gave Rise to HIV-1. <i>Cell</i> , 2006, 125, 1055-1067.	28.9	359
5	Structure-guided multivalent nanobodies block SARS-CoV-2 infection and suppress mutational escape. <i>Science</i> , 2021, 371, .	12.6	304
6	Discovery and Optimization of a Natural HIV-1 Entry Inhibitor Targeting the gp41 Fusion Peptide. <i>Cell</i> , 2007, 129, 263-275.	28.9	244
7	Macrophages and their relevance in Human Immunodeficiency Virus Type I infection. <i>Retrovirology</i> , 2012, 9, 82.	2.0	213
8	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> , 2006, 80, 8047-8059.	3.4	178
9	Cell Surface Proteomic Map of HIV Infection Reveals Antagonism of Amino Acid Metabolism by Vpu and Nef. <i>Cell Host and Microbe</i> , 2015, 18, 409-423.	11.0	158
10	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> , 2003, 77, 10548-10556.	3.4	153
11	A Flow Cytometry-Based FRET Assay to Identify and Analyse Protein-Protein Interactions in Living Cells. <i>PLoS ONE</i> , 2010, 5, e9344.	2.5	137
12	Immune response to SARS-CoV-2 variants of concern in vaccinated individuals. <i>Nature Communications</i> , 2021, 12, 3109.	12.8	118
13	Role of Nef in primate lentiviral immunopathogenesis. <i>Cellular and Molecular Life Sciences</i> , 2008, 65, 2621-2636.	5.4	109
14	Nef-Mediated Enhancement of Virion Infectivity and Stimulation of Viral Replication Are Fundamental Properties of Primate Lentiviruses. <i>Journal of Virology</i> , 2007, 81, 13852-13864.	3.4	102
15	Nef Induces Multiple Genes Involved in Cholesterol Synthesis and Uptake in Human Immunodeficiency Virus Type 1-Infected T Cells. <i>Journal of Virology</i> , 2005, 79, 10053-10058.	3.4	89
16	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> , 2010, 7, 1.	2.0	87
17	The Root Extract of the Medicinal Plant <i>Pelargonium sidoides</i> Is a Potent HIV-1 Attachment Inhibitor. <i>PLoS ONE</i> , 2014, 9, e87487.	2.5	78
18	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> , 2003, 278, 33912-33919.	3.4	76

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19	Macrophage Internal HIV-1 Is Protected from Neutralizing Antibodies. <i>Journal of Virology</i> , 2012, 86, 2826-2836.	3.4	69
20	Human Immunodeficiency Virus Type 1 Inhibits DNA Damage-Triggered Apoptosis by a Nef-Independent Mechanism. <i>Journal of Virology</i> , 2005, 79, 5489-5498.	3.4	66
21	HIV-1 assembly in macrophages. <i>Retrovirology</i> , 2010, 7, 29.	2.0	65
22	Potent in vitro antiviral activity of <i>Cistus incanus</i> extract against HIV and Filoviruses targets viral envelope proteins. <i>Scientific Reports</i> , 2016, 6, 20394.	3.3	65
23	The Ebola Virus Glycoprotein and HIV-1 Vpu Employ Different Strategies to Counteract the Antiviral Factor Tetherin. <i>Journal of Infectious Diseases</i> , 2011, 204, S850-S860.	4.0	64
24	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> , 2005, 79, 10650-10659.	3.4	57
25	Dynamics of HIV-Containing Compartments in Macrophages Reveal Sequestration of Virions and Transient Surface Connections. <i>PLoS ONE</i> , 2013, 8, e69450.	2.5	53
26	Inefficient Nef-Mediated Downmodulation of CD3 and MHC-I Correlates with Loss of CD4+ T Cells in Natural SIV Infection. <i>PLoS Pathogens</i> , 2008, 4, e1000107.	4.7	49
27	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> , 2005, 79, 10547-10560.	3.4	47
28	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> , 2004, 78, 6864-6874.	3.4	46
29	NeutrobodyPlex™ monitoring SARS-CoV-2 neutralizing immune responses using nanobodies. <i>EMBO Reports</i> , 2021, 22, e52325.	4.5	43
30	Selective downmodulation of HLA-A and -B by Nef alleles from different groups of primate lentiviruses. <i>Virology</i> , 2008, 373, 229-237.	2.4	42
31	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
32	Critical role for the kinesin KIF3A in the HIV life cycle in primary human macrophages. <i>Journal of Cell Biology</i> , 2012, 199, 467-479.	5.2	41
33	Quinine Inhibits Infection of Human Cell Lines with SARS-CoV-2. <i>Viruses</i> , 2021, 13, 647.	3.3	41
34	Lentiviral Nef suppresses iron uptake in a strain specific manner through inhibition of Transferrin endocytosis. <i>Retrovirology</i> , 2014, 11, 1.	2.0	40
35	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> , 2015, 14, 2085-2102.	3.8	40
36	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> , 2015, 89, 5687-5700.	3.4	39

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37	Human cytomegalovirus overcomes SAMHD1 restriction in macrophages via pUL97. <i>Nature Microbiology</i> , 2019, 4, 2260-2272.	13.3	37
38	Mosses share mitochondrial group II introns with flowering plants, not with liverworts. <i>Molecular Genetics and Genomics</i> , 2001, 266, 608-613.	2.1	36
39	The Intraviral Protein Interaction Network of Hepatitis C Virus. <i>Molecular and Cellular Proteomics</i> , 2014, 13, 1676-1689.	3.8	36
40	Ion channel activity of HIV-1 Vpu is dispensable for counteraction of CD317. <i>Virology</i> , 2011, 416, 75-85.	2.4	35
41	Association of Nef with p21-Activated Kinase 2 Is Dispensable for Efficient Human Immunodeficiency Virus Type 1 Replication and Cytotoxicity in Ex Vivo-Infected Human Lymphoid Tissue. <i>Journal of Virology</i> , 2007, 81, 13005-13014.	3.4	34
42	HIV-1 Vpu mediated downregulation of CD155 requires alanine residues 10, 14 and 18 of the transmembrane domain. <i>Virology</i> , 2014, 464-465, 375-384.	2.4	34
43	Inactivation of SARS-CoV-2 through Treatment with the Mouth Rinsing Solutions ViruProX <sup>®</sup> and BacterX <sup>®</sup> Pro. <i>Microorganisms</i> , 2021, 9, 521.	3.6	34
44	Vpu Is the Main Determinant for Tetraspanin Downregulation in HIV-1-Infected Cells. <i>Journal of Virology</i> , 2015, 89, 3247-3255.	3.4	33
45	Hepatitis C Virus Is Released via a Noncanonical Secretory Route. <i>Journal of Virology</i> , 2016, 90, 10558-10573.	3.4	33
46	HIV-1 Vpu affects the anterograde transport and the glycosylation pattern of NTB-A. <i>Virology</i> , 2013, 440, 190-203.	2.4	31
47	Tetherin Sensitivity of Influenza A Viruses Is Strain Specific: Role of Hemagglutinin and Neuraminidase. <i>Journal of Virology</i> , 2015, 89, 9178-9188.	3.4	31
48	Comprehensive Analysis of Nef Functions Selected in Simian Immunodeficiency Virus-Infected Macaques. <i>Journal of Virology</i> , 2004, 78, 10588-10597.	3.4	30
49	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> , 2006, 20, 831-836.	2.2	30
50	The Presence of a <i>vpu</i> 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> , 2011, 85, 742-752.	3.4	29
51	Platelets Aggregate With Neutrophils and Promote Skin Pathology in Psoriasis. <i>Frontiers in Immunology</i> , 2019, 10, 1867.	4.8	29
52	Nef alleles from children with non-progressive HIV-1 infection modulate MHC-II expression more efficiently than those from rapid progressors. <i>Aids</i> , 2007, 21, 1103-1107.	2.2	25
53	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> , 2006, 80, 4469-4481.	3.4	23
54	Formation of Trans-Activation Competent HIV-1 Rev:RRE Complexes Requires the Recruitment of Multiple Protein Activation Domains. <i>PLoS ONE</i> , 2012, 7, e38305.	2.5	23

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55	Analysis of Determinants in Filovirus Glycoproteins Required for Tetherin Antagonism. <i>Viruses</i> , 2014, 6, 1654-1671.	3.3	22
56	Designing a SARS-CoV-2 T-Cell-Inducing Vaccine for High-Risk Patient Groups. <i>Vaccines</i> , 2021, 9, 428.	4.4	22
57	Virion encapsidated HIV-1 Vpr induces NFAT to prime non-activated T cells for productive infection. <i>Open Biology</i> , 2016, 6, 160046.	3.6	21
58	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> , 2016, 90, 11075-11086.	3.4	21
59	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> , 2008, 82, 8373-8382.	3.4	20
60	Analysis of IFITM-IFITM Interactions by a Flow Cytometry-Based FRET Assay. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3859.	4.1	20
61	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> , 2021, 22, 13202.	4.1	20
62	Supramolecular combinations of humic polyanions as potent microbicides with polymodal anti-HIV-activities. <i>New Journal of Chemistry</i> , 2017, 41, 212-224.	2.8	19
63	Activated integrins identify functional antigen-specific CD8 <sup>+</sup> T cells within minutes after antigen stimulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E5536-E5545.	7.1	19
64	A viral kinase counteracts in vivo restriction of murine cytomegalovirus by SAMHD1. <i>Nature Microbiology</i> , 2019, 4, 2273-2284.	13.3	19
65	Persisting Neutralizing Activity to SARS-CoV-2 over Months in Sera of COVID-19 Patients. <i>Viruses</i> , 2020, 12, 1357.	3.3	19
66	Antibody Response against SARS-CoV-2 and Seasonal Coronaviruses in Nonhospitalized COVID-19 Patients. <i>MSphere</i> , 2021, 6, .	2.9	19
67	Rapid, dose-dependent and efficient inactivation of surface dried SARS-CoV-2 by 254 nm UV-C irradiation. <i>Eurosurveillance</i> , 2021, 26, .	7.0	19
68	Alterations in HIV-1 LTR promoter activity during AIDS progression. <i>Virology</i> , 2003, 317, 109-118.	2.4	18
69	Primary Human Immunodeficiency Virus Type 1 Nef Alleles Show Major Differences in Pathogenicity in Transgenic Mice. <i>Journal of Virology</i> , 2007, 81, 4677-4693.	3.4	18
70	ESCRT machinery components are required for Orthobunyavirus particle production in Golgi compartments. <i>PLoS Pathogens</i> , 2018, 14, e1007047.	4.7	18
71	Tetherin Inhibits Nipah Virus but Not Ebola Virus Replication in Fruit Bat Cells. <i>Journal of Virology</i> , 2019, 93, .	3.4	18
72	Biparatopic nanobodies protect mice from lethal challenge with SARS-CoV-2 variants of concern. <i>EMBO Reports</i> , 2022, 23, e53865.	4.5	18

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73	No Detection of XMRV in Blood Samples and Tissue Sections from Prostate Cancer Patients in Northern Europe. <i>PLoS ONE</i> , 2011, 6, e25592.	2.5	17
74	Down-Modulation of CD8 $\alpha$ $\beta$ Is a Fundamental Activity of Primate Lentiviral Nef Proteins. <i>Journal of Virology</i> , 2012, 86, 36-48.	3.4	17
75	Lectin from <i>Triticum vulgare</i> (WGA) Inhibits Infection with SARS-CoV-2 and Its Variants of Concern Alpha and Beta. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10205.	4.1	17
76	AP-2 Is the Crucial Clathrin Adaptor Protein for CD4 Downmodulation by HIV-1 Nef in Infected Primary CD4 <sup>+</sup> T Cells. <i>Journal of Virology</i> , 2015, 89, 12518-12524.	3.4	16
77	Conservation of Nef function across highly diverse lineages of SIVsmm. <i>Retrovirology</i> , 2009, 6, 36.	2.0	15
78	Domains of the Hepatitis B Virus Small Surface Protein S Mediating Oligomerization. <i>Journal of Virology</i> , 2018, 92, .	3.4	15
79	HIV-1 Replication in Human Immune Cells Is Independent of TAR DNA Binding Protein 43 (TDP-43) Expression. <i>PLoS ONE</i> , 2014, 9, e105478.	2.5	15
80	COVID-19 patient serum less potently inhibits ACE2-RBD binding for various SARS-CoV-2 RBD mutants. <i>Scientific Reports</i> , 2022, 12, 7168.	3.3	15
81	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> , 2009, 25, 285-296.	1.1	13
82	Release of Immunomodulatory Ebola Virus Glycoprotein-Containing Microvesicles Is Suppressed by Tetherin in a Species-Specific Manner. <i>Cell Reports</i> , 2019, 26, 1841-1853.e6.	6.4	13
83	A GXXXA Motif in the Transmembrane Domain of the Ebola Virus Glycoprotein Is Required for Tetherin Antagonism. <i>Journal of Virology</i> , 2018, 92, .	3.4	12
84	HIV-mediated up-regulation of invariant chain (CD74) correlates with generalized immune activation in HIV+ subjects. <i>Virus Research</i> , 2012, 163, 380-384.	2.2	10
85	Dual role of the chromatin-binding factor PHF13 in the pre- and post-integration phases of HIV-1 replication. <i>Open Biology</i> , 2017, 7, 170115.	3.6	10
86	The human $\alpha$ -defensin-derived peptide HD5(1-9) inhibits cellular attachment and entry of human cytomegalovirus. <i>Antiviral Research</i> , 2020, 177, 104779.	4.1	10
87	Long-Term Humoral Immune Response against SARS-CoV-2 after Natural Infection and Subsequent Vaccination According to WHO International Binding Antibody Units (BAU/mL). <i>Viruses</i> , 2021, 13, 2336.	3.3	10
88	A novel pVHL-independent but NEMO-driven pathway in renal cancer promotes HIF stabilization. <i>Oncogene</i> , 2016, 35, 3125-3138.	5.9	9
89	HCV egress – unconventional secretion of assembled viral particles. <i>Trends in Microbiology</i> , 2022, 30, 364-378.	7.7	9
90	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> , 2017, 20, 21865.	3.0	8

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91	Flow cytometry based-FRET: basics, novel developments and future perspectives. Cellular and Molecular Life Sciences, 2022, 79, 217.	5.4	7
92	Flow cytometry-based FRET identifies binding intensities in PPAR $\gamma$ <sup>31</sup> protein-protein interactions in living cells. Theranostics, 2019, 9, 5444-5463.	10.0	6
93	Comprehensive Analysis of Human Cytomegalovirus- and HIV-Mediated Plasma Membrane Remodeling in Macrophages. MBio, 2021, 12, e0177021.	4.1	5
94	Primate lentiviral Nef proteins deregulate T-cell development by multiple mechanisms. Retrovirology, 2013, 10, 137.	2.0	4
95	First results of investigations of SARS-CoV-2 RNA in human corneal tissue. Ophthalmologie, 2021, 118, 78-80.	1.1	4
96	Mutation of a diacidic motif in SIV-PBj Nef impairs T-cell activation and enteropathic disease. Retrovirology, 2011, 8, 14.	2.0	1
97	Nef variants from non-pathogenic lentiviral strains inhibit iron uptake through an AP2-dependent inhibition of transferrin endocytosis. Retrovirology, 2013, 10, .	2.0	0