

Melanie Ott

List of Publications by Year in descending order

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Version: 2024-02-01

118
papers

17,536
citations

22153

59
h-index

21540

114
g-index

151
all docs

151
docs citations

151
times ranked

26998
citing authors

#	ARTICLE	IF	CITATIONS
1	A SARS-CoV-2 protein interaction map reveals targets for drug repurposing. <i>Nature</i> , 2020, 583, 459-468.	27.8	3,542
2	The Global Phosphorylation Landscape of SARS-CoV-2 Infection. <i>Cell</i> , 2020, 182, 685-712.e19.	28.9	825
3	Acetylation of Tau Inhibits Its Degradation and Contributes to Tauopathy. <i>Neuron</i> , 2010, 67, 953-966.	8.1	772
4	50 years of protein acetylation: from gene regulation to epigenetics, metabolism and beyond. <i>Nature Reviews Molecular Cell Biology</i> , 2015, 16, 258-264.	37.0	680
5	Amplification-free detection of SARS-CoV-2 with CRISPR-Cas13a and mobile phone microscopy. <i>Cell</i> , 2021, 184, 323-333.e9.	28.9	613
6	The human silent information regulator (Sir)2 homologue hSIRT3 is a mitochondrial nicotinamide adenine dinucleotide-dependent deacetylase. <i>Journal of Cell Biology</i> , 2002, 158, 647-657.	5.2	524
7	Comparative host-coronavirus protein interaction networks reveal pan-viral disease mechanisms. <i>Science</i> , 2020, 370, .	12.6	508
8	Transmission, infectivity, and neutralization of a spike L452R SARS-CoV-2 variant. <i>Cell</i> , 2021, 184, 3426-3437.e8.	28.9	424
9	International AIDS Society global scientific strategy: towards an HIV cure 2016. <i>Nature Medicine</i> , 2016, 22, 839-850.	30.7	395
10	An ultrapotent synthetic nanobody neutralizes SARS-CoV-2 by stabilizing inactive Spike. <i>Science</i> , 2020, 370, 1473-1479.	12.6	336
11	Genetic Screens Identify Host Factors for SARS-CoV-2 and Common Cold Coronaviruses. <i>Cell</i> , 2021, 184, 106-119.e14.	28.9	320
12	Efficient hepatitis C virus particle formation requires diacylglycerol acyltransferase-1. <i>Nature Medicine</i> , 2010, 16, 1295-1298.	30.7	293
13	SIRT1 Regulates HIV Transcription via Tat Deacetylation. <i>PLoS Biology</i> , 2005, 3, e41.	5.6	292
14	Acetylation of the HIV-1 Tat protein by p300 is important for its transcriptional activity. <i>Current Biology</i> , 1999, 9, 1489-1493.	3.9	274
15	Lysine Acetylation Goes Global: From Epigenetics to Metabolism and Therapeutics. <i>Chemical Reviews</i> , 2018, 118, 1216-1252.	47.7	236
16	SIRT1 is downregulated by autophagy in senescence and ageing. <i>Nature Cell Biology</i> , 2020, 22, 1170-1179.	10.3	236
17	The Control of HIV Transcription: Keeping RNA Polymerase II on Track. <i>Cell Host and Microbe</i> , 2011, 10, 426-435.	11.0	230
18	Structural Basis of Lysine-Acetylated HIV-1 Tat Recognition by PCAF Bromodomain. <i>Molecular Cell</i> , 2002, 9, 575-586.	9.7	229

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19	Immune Hyperactivation of HIV-1-Infected T Cells Mediated by Tat and the CD28 Pathway. <i>Science</i> , 1997, 275, 1481-1485.	12.6	223
20	Rapid assessment of SARS-CoV-2 "evolved variants using virus-like particles. <i>Science</i> , 2021, 374, 1626-1632.	12.6	216
21	The ups and downs of SIRT1. <i>Trends in Biochemical Sciences</i> , 2008, 33, 517-525.	7.5	214
22	BET bromodomain-targeting compounds reactivate HIV from latency via a Tat-independent mechanism. <i>Cell Cycle</i> , 2013, 12, 452-462.	2.6	209
23	Senescent cells promote tissue NAD ⁺ decline during ageing via the activation of CD38 ⁺ macrophages. <i>Nature Metabolism</i> , 2020, 2, 1265-1283.	11.9	206
24	Optical Reporters for the Conformation of α -Synuclein Reveal a Specific Interaction with Mitochondria. <i>Journal of Neuroscience</i> , 2008, 28, 12305-12317.	3.6	185
25	The mTOR Complex Controls HIV Latency. <i>Cell Host and Microbe</i> , 2016, 20, 785-797.	11.0	179
26	Mutations in the <i>tat</i> Gene Are Responsible for Human Immunodeficiency Virus Type 1 Postintegration Latency in the U1 Cell Line. <i>Journal of Virology</i> , 1998, 72, 1666-1670.	3.4	174
27	Androgen Signaling Regulates SARS-CoV-2 Receptor Levels and Is Associated with Severe COVID-19 Symptoms in Men. <i>Cell Stem Cell</i> , 2020, 27, 876-889.e12.	11.1	167
28	A point mutation in the HIV-1 Tat responsive element is associated with postintegration latency.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996, 93, 6377-6381.	7.1	158
29	Two-pronged Binding with Bromodomain-containing Protein 4 Liberates Positive Transcription Elongation Factor b from Inactive Ribonucleoprotein Complexes. <i>Journal of Biological Chemistry</i> , 2012, 287, 1090-1099.	3.4	154
30	The SWI/SNF Chromatin-remodeling Complex Is a Cofactor for Tat Transactivation of the HIV Promoter. <i>Journal of Biological Chemistry</i> , 2006, 281, 19960-19968.	3.4	152
31	Human Immunodeficiency Virus Type 1 Tat Protein Inhibits the SIRT1 Deacetylase and Induces T Cell Hyperactivation. <i>Cell Host and Microbe</i> , 2008, 3, 158-167.	11.0	149
32	Targeting of Hepatitis C Virus Core Protein to Mitochondria through a Novel C-Terminal Localization Motif. <i>Journal of Virology</i> , 2004, 78, 7958-7968.	3.4	144
33	SARS-CoV-2 infection of human iPSC-derived cardiac cells reflects cytopathic features in hearts of patients with COVID-19. <i>Science Translational Medicine</i> , 2021, 13, .	12.4	143
34	Limited cross-variant immunity from SARS-CoV-2 Omicron without vaccination. <i>Nature</i> , 2022, 607, 351-355.	27.8	143
35	Three Novel Acetylation Sites in the Foxp3 Transcription Factor Regulate the Suppressive Activity of Regulatory T Cells. <i>Journal of Immunology</i> , 2012, 188, 2712-2721.	0.8	137
36	Accelerated RNA detection using tandem CRISPR nucleases. <i>Nature Chemical Biology</i> , 2021, 17, 982-988.	8.0	135

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37	Snapshots: Chromatin control of viral infection. <i>Virology</i> , 2013, 435, 141-156.	2.4	133
38	Transcriptional synergy between Tat and PCAF is dependent on the binding of acetylated Tat to the PCAF bromodomain. <i>EMBO Journal</i> , 2002, 21, 2715-2723.	7.8	126
39	SIRT1 deacetylates ROR γ t and enhances Th17 cell generation. <i>Journal of Experimental Medicine</i> , 2015, 212, 607-617.	8.5	126
40	Neutralizing immunity in vaccine breakthrough infections from the SARS-CoV-2 Omicron and Delta variants. <i>Cell</i> , 2022, 185, 1539-1548.e5.	28.9	126
41	A Combined Proteomics/Genomics Approach Links Hepatitis C Virus Infection with Nonsense-Mediated mRNA Decay. <i>Molecular Cell</i> , 2015, 57, 329-340.	9.7	124
42	Acetylation of Tat Defines a CyclinT1-Independent Step in HIV Transactivation. <i>Molecular Cell</i> , 2003, 12, 167-176.	9.7	113
43	Diacylglycerol Acyltransferase-1 Localizes Hepatitis C Virus NS5A Protein to Lipid Droplets and Enhances NS5A Interaction with the Viral Capsid Core. <i>Journal of Biological Chemistry</i> , 2013, 288, 9915-9923.	3.4	109
44	Acetylation of RNA Polymerase II Regulates Growth-Factor-Induced Gene Transcription in Mammalian Cells. <i>Molecular Cell</i> , 2013, 52, 314-324.	9.7	103
45	Emerging Role of Lipid Droplets in Host/Pathogen Interactions. <i>Journal of Biological Chemistry</i> , 2012, 287, 2280-2287.	3.4	102
46	The Short Isoform of BRD4 Promotes HIV-1 Latency by Engaging Repressive SWI/SNF Chromatin-Remodeling Complexes. <i>Molecular Cell</i> , 2017, 67, 1001-1012.e6.	9.7	99
47	Unique ties between hepatitis C virus replication and intracellular lipids. <i>Trends in Endocrinology and Metabolism</i> , 2011, 22, 241-248.	7.1	97
48	Lipid Droplet-Binding Protein TIP47 Regulates Hepatitis C Virus RNA Replication through Interaction with the Viral NS5A Protein. <i>PLoS Pathogens</i> , 2013, 9, e1003302.	4.7	97
49	Metabolic reprogramming of human CD8+ memory T cells through loss of SIRT1. <i>Journal of Experimental Medicine</i> , 2018, 215, 51-62.	8.5	91
50	Zinc supplementation induces regulatory T cells by inhibition of Sirt6 deacetylase in mixed lymphocyte cultures. <i>Molecular Nutrition and Food Research</i> , 2016, 60, 661-671.	3.3	89
51	The Cellular Lysine Methyltransferase Set7/9-KMT7 Binds HIV-1 TAR RNA, Monomethylates the Viral Transactivator Tat, and Enhances HIV Transcription. <i>Cell Host and Microbe</i> , 2010, 7, 234-244.	11.0	88
52	Activation of HIV Transcription by the Viral Tat Protein Requires a Demethylation Step Mediated by Lysine-specific Demethylase 1 (LSD1/KDM1). <i>PLoS Pathogens</i> , 2011, 7, e1002184.	4.7	86
53	Next-Generation Surrogate Wnts Support Organoid Growth and Deconvolute Frizzled Pleiotropy In Vivo. <i>Cell Stem Cell</i> , 2020, 27, 840-851.e6.	11.1	84
54	SMYD2-Mediated Histone Methylation Contributes to HIV-1 Latency. <i>Cell Host and Microbe</i> , 2017, 21, 569-579.e6.	11.0	78

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55	Tropism of SARS-CoV-2 for human cortical astrocytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	77
56	HIV-1 Nef Mimics an Integrin Receptor Signal that Recruits the Polycomb Group Protein Eed to the Plasma Membrane. <i>Molecular Cell</i> , 2004, 13, 179-190.	9.7	73
57	Release and Intercellular Transfer of Cell Surface CD81 Via Microparticles. <i>Journal of Immunology</i> , 2002, 169, 5531-5537.	0.8	71
58	Hepatitis C Virus Core Protein Decreases Lipid Droplet Turnover. <i>Journal of Biological Chemistry</i> , 2011, 286, 42615-42625.	3.4	70
59	CYCLING through transcription: Post-translational modifications of P-TEFb regulate transcription elongation. <i>Cell Cycle</i> , 2010, 9, 1697-1705.	2.6	63
60	Acetylation of cyclin T1 regulates the equilibrium between active and inactive P-TEFb in cells. <i>EMBO Journal</i> , 2009, 28, 1407-1417.	7.8	60
61	The Cellular NMD Pathway Restricts Zika Virus Infection and Is Targeted by the Viral Capsid Protein. <i>MBio</i> , 2018, 9, .	4.1	60
62	Salicylate, diflunisal and their metabolites inhibit CBP/p300 and exhibit anticancer activity. <i>ELife</i> , 2016, 5, .	6.0	55
63	Interleukin-2, soluble interleukin-2-receptor, neopterin, l-tryptophan and ?2-microglobulin levels in CSF and serum of patients with relapsing-remitting or chronic-progressive multiple sclerosis. <i>Journal of Neurology</i> , 1993, 241, 108-114.	3.6	48
64	Decoding Tat: the biology of HIV Tat posttranslational modifications. <i>Microbes and Infection</i> , 2005, 7, 1364-1369.	1.9	48
65	Probing Lysine Acetylation in Proteins. <i>Molecular and Cellular Proteomics</i> , 2005, 4, 1226-1239.	3.8	44
66	Evasion of Superinfection Exclusion and Elimination of Primary Viral RNA by an Adapted Strain of Hepatitis C Virus. <i>Journal of Virology</i> , 2013, 87, 13354-13369.	3.4	44
67	Dampened antiviral immunity to intravaginal exposure to RNA viral pathogens allows enhanced viral replication. <i>Journal of Experimental Medicine</i> , 2016, 213, 2913-2929.	8.5	42
68	Tat Acetylation: A Regulatory Switch between Early and Late Phases in HIV Transcription Elongation. <i>Novartis Foundation Symposium</i> , 2008, , 182-196.	1.1	41
69	A genome-wide CRISPR screen identifies UFMylation and TRAMP-like complexes as host factors required for hepatitis A virus infection. <i>Cell Reports</i> , 2021, 34, 108859.	6.4	37
70	Identification of a therapeutic interfering particleâ€”A single-dose SARS-CoV-2 antiviral intervention with a high barrier to resistance. <i>Cell</i> , 2021, 184, 6022-6036.e18.	28.9	36
71	Bromodomain Proteins in HIV Infection. <i>Viruses</i> , 2013, 5, 1571-1586.	3.3	35
72	Host Methyltransferases and Demethylases: Potential New Epigenetic Targets for HIV Cure Strategies and Beyond. <i>AIDS Research and Human Retroviruses</i> , 2017, 33, S-8-S-22.	1.1	35

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73	Transcriptomics-based drug repositioning pipeline identifies therapeutic candidates for COVID-19. <i>Scientific Reports</i> , 2021, 11, 12310.	3.3	31
74	Entangled in a membranous web: ER and lipid droplet reorganization during hepatitis C virus infection. <i>Current Opinion in Cell Biology</i> , 2016, 41, 117-124.	5.4	30
75	The Hepatitis C Virus Core Protein Inhibits Adipose Triglyceride Lipase (ATGL)-mediated Lipid Mobilization and Enhances the ATGL Interaction with Comparative Gene Identification 58 (CGI-58) and Lipid Droplets. <i>Journal of Biological Chemistry</i> , 2014, 289, 35770-35780.	3.4	29
76	Modeling Multi-organ Infection by SARS-CoV-2 Using Stem Cell Technology. <i>Cell Stem Cell</i> , 2020, 27, 859-868.	11.1	27
77	Lipid Droplets and Viral Infections. <i>Methods in Cell Biology</i> , 2013, 116, 167-190.	1.1	26
78	Novel RT-ddPCR assays for measuring the levels of subgenomic and genomic SARS-CoV-2 transcripts. <i>Methods</i> , 2022, 201, 15-25.	3.8	26
79	Tat acetylation: a regulatory switch between early and late phases in HIV transcription elongation. <i>Novartis Foundation Symposium</i> , 2004, 259, 182-93; discussion 193-6, 223-5.	1.1	25
80	Screening a Library of FDA-Approved and Bioactive Compounds for Antiviral Activity against SARS-CoV-2. <i>ACS Infectious Diseases</i> , 2021, 7, 2337-2351.	3.8	23
81	Crosstalk between RNA Pol II C-Terminal Domain Acetylation and Phosphorylation via RPRD Proteins. <i>Molecular Cell</i> , 2019, 74, 1164-1174.e4.	9.7	22
82	HIV-1 protein Tat reduces the glutamate-induced intracellular Ca ²⁺ increase in cultured cortical astrocytes. <i>European Journal of Neuroscience</i> , 2001, 14, 1793-1799.	2.6	21
83	Modelling T-cell immunity against hepatitis C virus with liver organoids in a microfluidic coculture system. <i>Open Biology</i> , 2022, 12, 210320.	3.6	20
84	Evolution of lysine acetylation in the RNA polymerase II C-terminal domain. <i>BMC Evolutionary Biology</i> , 2015, 15, 35.	3.2	19
85	Novel RT-ddPCR assays for simultaneous quantification of multiple noncoding and coding regions of SARS-CoV-2 RNA. <i>Journal of Virological Methods</i> , 2021, 292, 114115.	2.1	19
86	Acetylation of the HIV-1 Tat protein: an in vitro study. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 376, 994-1005.	3.7	18
87	FOXO1 promotes HIV latency by suppressing ER stress in T cells. <i>Nature Microbiology</i> , 2020, 5, 1144-1157.	13.3	18
88	Recruitment and Activation of RSK2 by HIV-1 Tat. <i>PLoS ONE</i> , 2007, 2, e151.	2.5	17
89	Characterization of HIV Tat modifications using novel methyl-lysine-specific antibodies. <i>Methods</i> , 2011, 53, 91-96.	3.8	16
90	The HIV-1 Tat Protein Is Monomethylated at Lysine 71 by the Lysine Methyltransferase KMT7. <i>Journal of Biological Chemistry</i> , 2016, 291, 16240-16248.	3.4	16

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91	Manipulation of the host protein acetylation network by human immunodeficiency virus type 1. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2015, 50, 314-25.	5.2	16
92	Acetylphosphate: A Novel Link between Lysine Acetylation and Intermediary Metabolism in Bacteria. <i>Molecular Cell</i> , 2013, 51, 132-134.	9.7	15
93	High-Resolution Mass Spectrometry to Identify and Quantify Acetylation Protein Targets. <i>Methods in Molecular Biology</i> , 2019, 1983, 3-16.	0.9	15
94	An "Arms Race" between the Nonsense-mediated mRNA Decay Pathway and Viral Infections. <i>Seminars in Cell and Developmental Biology</i> , 2021, 111, 101-107.	5.0	15
95	Viral E protein neutralizes BET protein-mediated post-entry antagonism of SARS-CoV-2. <i>Cell Reports</i> , 2022, 40, 111088.	6.4	15
96	HAT Trick: p300, Small Molecule, Inhibitor. <i>Chemistry and Biology</i> , 2010, 17, 417-418.	6.0	13
97	Low expression of RNA sensors impacts Zika virus infection in the lower female reproductive tract. <i>Nature Communications</i> , 2019, 10, 4344.	12.8	13
98	A combinatorial view of old and new RNA polymerase II modifications. <i>Transcription</i> , 2020, 11, 66-82.	3.1	13
99	Evaluating a New Class of AKT/mTOR Activators for HIV Latency-Reversing Activity <i>Ex Vivo</i> and <i>In Vivo</i> . <i>Journal of Virology</i> , 2021, 95, .	3.4	13
100	Neutralizing antibody activity against SARS-CoV-2 variants in gestational age-matched mother-infant dyads after infection or vaccination. <i>JCI Insight</i> , 2022, 7, .	5.0	13
101	Rapid Intracellular Competition between Hepatitis C Viral Genomes as a Result of Mitosis. <i>Journal of Virology</i> , 2013, 87, 581-596.	3.4	11
102	Therapeutics Targeting Protein Acetylation Perturb Latency of Human Viruses. <i>ACS Chemical Biology</i> , 2016, 11, 669-680.	3.4	8
103	Analysis of p300 acetyltransferase substrate specificity by MALDI TOF mass spectrometry. <i>Methods</i> , 2005, 36, 376-382.	3.8	7
104	Acetylation of Tau Inhibits Its Degradation and Contributes to Tauopathy. <i>Neuron</i> , 2010, 68, 801.	8.1	7
105	Three Rules for HIV Latency: Location, Location, and Location. <i>Cell Host and Microbe</i> , 2013, 13, 625-626.	11.0	6
106	EDITORIAL: Hydration for Clean Air Today. <i>Molecular Frontiers Journal</i> , 2021, 05, 1-4.	1.1	5
107	Membrane Flotation Assay. <i>Bio-protocol</i> , 2015, 5, .	0.4	4
108	A BAF™ling Approach to Curing HIV. <i>Cell Chemical Biology</i> , 2018, 25, 1441-1442.	5.2	3

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109	Retrovirus Integration: Some Assembly Required?. Cell Host and Microbe, 2016, 20, 702-704.	11.0	2
110	Flow Cytometric Analysis of Drug-induced HIV-1 Transcriptional Activity in A2 and A72 J-Lat Cell Lines. Bio-protocol, 2017, 7, .	0.4	2
111	How the antiviral immune response boosts liver fat. Nature Medicine, 2013, 19, 671-672.	30.7	1
112	Turning up the heat on HIV-1. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 16109-16111.	7.1	1
113	Role of chromatin in the transcriptional regulation of HIV-1. Journal of Cancer Research and Clinical Oncology, 1995, 121, S36-S36.	2.5	0
114	HIV never ceases to surprise: Innovative methods in the quest for a cure. Methods, 2011, 53, 1-2.	3.8	0
115	Diacylglycerol acyltransferase 1 (DGAT1) Functions as a Cellular "Hub" to Target Hepatitis C Virus Proteins NS5A and Core to Lipid Droplets. FASEB Journal, 2012, 26, 357.1.	0.5	0
116	Activating Latent HIV by Inhibiting Bromodomain Proteins. , 2015, , 225-241.		0
117	Flow Cytometric Analysis of HIV-1 Transcriptional Activity in Response to shRNA Knockdown in A2 and A72 J-Lat Cell Lines. Bio-protocol, 2017, 7, .	0.4	0
118	Tat Expression and Function. , 2018, , 1976-1985.		0