

# Frederic Bushman

## List of Publications by Year in descending order

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387  
papers

101,336  
citations

764

119  
h-index

231

305  
g-index

414  
all docs

414  
docs citations

414  
times ranked

92677  
citing authors

#	ARTICLE	IF	CITATIONS
1	QIIME allows analysis of high-throughput community sequencing data. <i>Nature Methods</i> , 2010, 7, 335-336.	9.0	31,818
2	Linking Long-Term Dietary Patterns with Gut Microbial Enterotypes. <i>Science</i> , 2011, 334, 105-108.	6.0	5,253
3	PyNAST: a flexible tool for aligning sequences to a template alignment. <i>Bioinformatics</i> , 2010, 26, 266-267.	1.8	3,400
4	Intestinal microbiota metabolism of l-carnitine, a nutrient in red meat, promotes atherosclerosis. <i>Nature Medicine</i> , 2013, 19, 576-585.	15.2	3,355
5	HIV-1 Integration in the Human Genome Favors Active Genes and Local Hotspots. <i>Cell</i> , 2002, 110, 521-529.	13.5	1,622
6	Insertional oncogenesis in 4 patients after retrovirus-mediated gene therapy of SCID-X1. <i>Journal of Clinical Investigation</i> , 2008, 118, 3132-3142.	3.9	1,531
7	High-Fat Diet Determines the Composition of the Murine Gut Microbiome Independently of Obesity. <i>Gastroenterology</i> , 2009, 137, 1716-1724.e2.	0.6	1,344
8	Bayesian community-wide culture-independent microbial source tracking. <i>Nature Methods</i> , 2011, 8, 761-763.	9.0	1,284
9	Transfusion independence and HMGA2 activation after gene therapy of human $\beta^2$ -thalassaemia. <i>Nature</i> , 2010, 467, 318-322.	13.7	1,153
10	Topographical Continuity of Bacterial Populations in the Healthy Human Respiratory Tract. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2011, 184, 957-963.	2.5	912
11	Global Analysis of Host-Pathogen Interactions that Regulate Early-Stage HIV-1 Replication. <i>Cell</i> , 2008, 135, 49-60.	13.5	881
12	CRISPR-engineered T cells in patients with refractory cancer. <i>Science</i> , 2020, 367, .	6.0	872
13	Retroviral DNA Integration: ASLV, HIV, and MLV Show Distinct Target Site Preferences. <i>PLoS Biology</i> , 2004, 2, e234.	2.6	830
14	The human gut virome: Inter-individual variation and dynamic response to diet. <i>Genome Research</i> , 2011, 21, 1616-1625.	2.4	825
15	Associating microbiome composition with environmental covariates using generalized UniFrac distances. <i>Bioinformatics</i> , 2012, 28, 2106-2113.	1.8	780
16	Association Between Breast Milk Bacterial Communities and Establishment and Development of the Infant Gut Microbiome. <i>JAMA Pediatrics</i> , 2017, 171, 647.	3.3	749
17	Enterotypes in the landscape of gut microbial community composition. <i>Nature Microbiology</i> , 2018, 3, 8-16.	5.9	717
18	Correlation Between Intraluminal Oxygen Gradient and Radial Partitioning of Intestinal Microbiota. <i>Gastroenterology</i> , 2014, 147, 1055-1063.e8.	0.6	658

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19	A quantitative assay for HIV DNA integration in vivo. <i>Nature Medicine</i> , 2001, 7, 631-634.	15.2	653
20	Global landscape of HIV-human protein complexes. <i>Nature</i> , 2012, 481, 365-370.	13.7	651
21	Inflammation, Antibiotics, and Diet as Environmental Stressors of the Gut Microbiome in Pediatric Crohn's Disease. <i>Cell Host and Microbe</i> , 2015, 18, 489-500.	5.1	646
22	Archaea and Fungi of the Human Gut Microbiome: Correlations with Diet and Bacterial Residents. <i>PLoS ONE</i> , 2013, 8, e66019.	1.1	641
23	Innate lymphoid cells regulate CD4+ T-cell responses to intestinal commensal bacteria. <i>Nature</i> , 2013, 498, 113-117.	13.7	639
24	Short pyrosequencing reads suffice for accurate microbial community analysis. <i>Nucleic Acids Research</i> , 2007, 35, e120-e120.	6.5	638
25	Innate Lymphoid Cells Promote Anatomical Containment of Lymphoid-Resident Commensal Bacteria. <i>Science</i> , 2012, 336, 1321-1325.	6.0	638
26	Minimum information about a marker gene sequence (MIMARKS) and minimum information about any (x) sequence (MlxS) specifications. <i>Nature Biotechnology</i> , 2011, 29, 415-420.	9.4	608
27	A role for LEDGF/p75 in targeting HIV DNA integration. <i>Nature Medicine</i> , 2005, 11, 1287-1289.	15.2	583
28	Disruption of TET2 promotes the therapeutic efficacy of CD19-targeted T cells. <i>Nature</i> , 2018, 558, 307-312.	13.7	574
29	Efficacy of Gene Therapy for X-Linked Severe Combined Immunodeficiency. <i>New England Journal of Medicine</i> , 2010, 363, 355-364.	13.9	561
30	Decade-Long Safety and Function of Retroviral-Modified Chimeric Antigen Receptor T Cells. <i>Science Translational Medicine</i> , 2012, 4, 132ra53.	5.8	555
31	Human immunodeficiency virus type 1 preintegration complexes: studies of organization and composition. <i>Journal of Virology</i> , 1997, 71, 5382-5390.	1.5	536
32	In vivo genome editing restores haemostasis in a mouse model of haemophilia. <i>Nature</i> , 2011, 475, 217-221.	13.7	523
33	The IN protein of Moloney murine leukemia virus processes the viral DNA ends and accomplishes their integration in vitro. <i>Cell</i> , 1990, 62, 829-837.	13.5	498
34	Rapid evolution of the human gut virome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 12450-12455.	3.3	489
35	Activities of human immunodeficiency virus (HIV) integration protein in vitro: specific cleavage and integration of HIV DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991, 88, 1339-1343.	3.3	471
36	A quantitative approach for measuring the reservoir of latent HIV-1 proviruses. <i>Nature</i> , 2019, 566, 120-125.	13.7	471

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37	Induction of resistance to chimeric antigen receptor T cell therapy by transduction of a single leukemic B cell. <i>Nature Medicine</i> , 2018, 24, 1499-1503.	15.2	459
38	Gene transfer in humans using a conditionally replicating lentiviral vector. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 17372-17377.	3.3	452
39	Comparison of placenta samples with contamination controls does not provide evidence for a distinct placenta microbiota. <i>Microbiome</i> , 2016, 4, 29.	4.9	447
40	Comparative metabolomics in vegans and omnivores reveal constraints on diet-dependent gut microbiota metabolite production. <i>Gut</i> , 2016, 65, 63-72.	6.1	428
41	Optimizing methods and dodging pitfalls in microbiome research. <i>Microbiome</i> , 2017, 5, 52.	4.9	420
42	Rhythmicity of the intestinal microbiota is regulated by gender and the host circadian clock. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 10479-10484.	3.3	410
43	Domains of the integrase protein of human immunodeficiency virus type 1 responsible for polynucleotidyl transfer and zinc binding.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1993, 90, 3428-3432.	3.3	409
44	Commensal bacteria-derived signals regulate basophil hematopoiesis and allergic inflammation. <i>Nature Medicine</i> , 2012, 18, 538-546.	15.2	408
45	HIV nuclear import is governed by the phosphotyrosine-mediated binding of matrix to the core domain of integrase. <i>Cell</i> , 1995, 83, 569-576.	13.5	403
46	HIV-1 Capsid-Cyclophilin Interactions Determine Nuclear Import Pathway, Integration Targeting and Replication Efficiency. <i>PLoS Pathogens</i> , 2011, 7, e1002439.	2.1	403
47	HIV integration site selection: Analysis by massively parallel pyrosequencing reveals association with epigenetic modifications. <i>Genome Research</i> , 2007, 17, 1186-1194.	2.4	396
48	Host Cell Factors in HIV Replication: Meta-Analysis of Genome-Wide Studies. <i>PLoS Pathogens</i> , 2009, 5, e1000437.	2.1	396
49	Safe harbours for the integration of new DNA in the human genome. <i>Nature Reviews Cancer</i> , 2012, 12, 51-58.	12.8	391
50	Genome-wide analysis of retroviral DNA integration. <i>Nature Reviews Microbiology</i> , 2005, 3, 848-858.	13.6	390
51	The Macaque Gut Microbiome in Health, Lentiviral Infection, and Chronic Enterocolitis. <i>PLoS Pathogens</i> , 2008, 4, e20.	2.1	371
52	Retroviral DNA integration directed by HIV integration protein in vitro. <i>Science</i> , 1990, 249, 1555-1558.	6.0	369
53	Decade-long leukaemia remissions with persistence of CD4+ CAR T cells. <i>Nature</i> , 2022, 602, 503-509.	13.7	369
54	A Modified $\hat{1}^3$ -Retrovirus Vector for X-Linked Severe Combined Immunodeficiency. <i>New England Journal of Medicine</i> , 2014, 371, 1407-1417.	13.9	358

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55	Metagenomic analyses reveal antibiotic-induced temporal and spatial changes in intestinal microbiota with associated alterations in immune cell homeostasis. <i>Mucosal Immunology</i> , 2010, 3, 148-158.	2.7	355
56	HIV-1 cDNA Integration: Requirement of HMG I(Y) Protein for Function of Preintegration Complexes In Vitro. <i>Cell</i> , 1997, 88, 483-492.	13.5	352
57	Disordered Microbial Communities in the Upper Respiratory Tract of Cigarette Smokers. <i>PLoS ONE</i> , 2010, 5, e15216.	1.1	350
58	Sampling and pyrosequencing methods for characterizing bacterial communities in the human gut using 16S sequence tags. <i>BMC Microbiology</i> , 2010, 10, 206.	1.3	335
59	Outcomes Following Gene Therapy in Patients With Severe Wiskott-Aldrich Syndrome. <i>JAMA - Journal of the American Medical Association</i> , 2015, 313, 1550.	3.8	327
60	Power and sample-size estimation for microbiome studies using pairwise distances and PERMANOVA. <i>Bioinformatics</i> , 2015, 31, 2461-2468.	1.8	326
61	Nucleic Acid Chaperone Activity of the ORF1 Protein from the Mouse LINE-1 Retrotransposon. <i>Molecular and Cellular Biology</i> , 2001, 21, 467-475.	1.1	314
62	Role of the non-homologous DNA end joining pathway in the early steps of retroviral infection. <i>EMBO Journal</i> , 2001, 20, 3272-3281.	3.5	313
63	Retroviral DNA Integration: Viral and Cellular Determinants of Target-Site Selection. <i>PLoS Pathogens</i> , 2006, 2, e60.	2.1	310
64	Lamellarin Î± 20-Sulfate, an Inhibitor of HIV-1 Integrase Active against HIV-1 Virus in Cell Culture. <i>Journal of Medicinal Chemistry</i> , 1999, 42, 1901-1907.	2.9	288
65	Genomic safe harbors permit high Î²-globin transgene expression in thalassemia induced pluripotent stem cells. <i>Nature Biotechnology</i> , 2011, 29, 73-78.	9.4	277
66	Lung-enriched Organisms and Aberrant Bacterial and Fungal Respiratory Microbiota after Lung Transplant. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2012, 186, 536-545.	2.5	275
67	The host genomic environment of the provirus determines the abundance of HTLV-1â€“infected T-cell clones. <i>Blood</i> , 2011, 117, 3113-3122.	0.6	273
68	The human virome: assembly, composition and host interactions. <i>Nature Reviews Microbiology</i> , 2021, 19, 514-527.	13.6	260
69	HIV DNA Integration. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2012, 2, a006890-a006890.	2.9	254
70	Genome-Wide Analysis of Chromosomal Features Repressing Human Immunodeficiency Virus Transcription. <i>Journal of Virology</i> , 2005, 79, 6610-6619.	1.5	247
71	Human immunodeficiency virus integrase directs integration to sites of severe DNA distortion within the nucleosome core. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994, 91, 5913-5917.	3.3	240
72	The Interferon Response Inhibits HIV Particle Production by Induction of TRIM22. <i>PLoS Pathogens</i> , 2008, 4, e1000007.	2.1	238

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73	Virus-helminth coinfection reveals a microbiota-independent mechanism of immunomodulation. <i>Science</i> , 2014, 345, 578-582.	6.0	238
74	A long-term study of AAV gene therapy in dogs with hemophilia A identifies clonal expansions of transduced liver cells. <i>Nature Biotechnology</i> , 2021, 39, 47-55.	9.4	238
75	The Human Skin Double-Stranded DNA Virome: Topographical and Temporal Diversity, Genetic Enrichment, and Dynamic Associations with the Host Microbiome. <i>MBio</i> , 2015, 6, e01578-15.	1.8	232
76	Lack of detection of a human placenta microbiome in samples from preterm and term deliveries. <i>Microbiome</i> , 2018, 6, 196.	4.9	221
77	Human Immunodeficiency Virus cDNA Metabolism: Notable Stability of Two-Long Terminal Repeat Circles. <i>Journal of Virology</i> , 2002, 76, 3739-3747.	1.5	215
78	Identification of discrete functional domains of HIV-1 integrase and their organization within an active multimeric complex. <i>EMBO Journal</i> , 1993, 12, 3269-75.	3.5	215
79	Histone deacetylase 3 coordinates commensal-bacteria-dependent intestinal homeostasis. <i>Nature</i> , 2013, 504, 153-157.	13.7	212
80	Role of PSIP1/LEDGF/p75 in Lentiviral Infectivity and Integration Targeting. <i>PLoS ONE</i> , 2007, 2, e1340.	1.1	209
81	Targeting Survival. <i>Cell</i> , 2003, 115, 135-138.	13.5	204
82	Fungi of the Murine Gut: Episodic Variation and Proliferation during Antibiotic Treatment. <i>PLoS ONE</i> , 2013, 8, e71806.	1.1	201
83	DNA bar coding and pyrosequencing to identify rare HIV drug resistance mutations. <i>Nucleic Acids Research</i> , 2007, 35, e91.	6.5	196
84	Assessing the potential for AAV vector genotoxicity in a murine model. <i>Blood</i> , 2011, 117, 3311-3319.	0.6	196
85	Fungal Signature in the Gut Microbiota of Pediatric Patients With Inflammatory Bowel Disease. <i>Inflammatory Bowel Diseases</i> , 2015, 21, 1948-1956.	0.9	194
86	Selection of Target Sites for Mobile DNA Integration in the Human Genome. <i>PLoS Computational Biology</i> , 2006, 2, e157.	1.5	191
87	HIV Integration Targeting: A Pathway Involving Transportin-3 and the Nuclear Pore Protein RanBP2. <i>PLoS Pathogens</i> , 2011, 7, e1001313.	2.1	191
88	<i>piggyBac</i> transposase tools for genome engineering. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E2279-87.	3.3	186
89	BET proteins promote efficient murine leukemia virus integration at transcription start sites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 12036-12041.	3.3	185
90	The stepwise assembly of the neonatal virome is modulated by breastfeeding. <i>Nature</i> , 2020, 581, 470-474.	13.7	185

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91	Repair of Gaps in Retroviral DNA Integration Intermediates. <i>Journal of Virology</i> , 2000, 74, 11191-11200.	1.5	180
92	Widespread Colonization of the Lung by <i>Tropheryma whippelii</i> in HIV Infection. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2013, 187, 1110-1117.	2.5	175
93	Lentiviral gene therapy for X-linked chronic granulomatous disease. <i>Nature Medicine</i> , 2020, 26, 200-206.	15.2	175
94	Viral Metagenomics Reveal Blooms of Anelloviruses in the Respiratory Tract of Lung Transplant Recipients. <i>American Journal of Transplantation</i> , 2015, 15, 200-209.	2.6	174
95	Inhibition of Retroviral Pathogenesis by RNA Interference. <i>Current Biology</i> , 2002, 12, 1301-1311.	1.8	173
96	A role for bacterial urease in gut dysbiosis and Crohn's disease. <i>Science Translational Medicine</i> , 2017, 9, .	5.8	171
97	PSMA-targeting TGF $\beta$ -insensitive armored CAR T cells in metastatic castration-resistant prostate cancer: a phase 1 trial. <i>Nature Medicine</i> , 2022, 28, 724-734.	15.2	171
98	Reporting guidelines for human microbiome research: the STORMS checklist. <i>Nature Medicine</i> , 2021, 27, 1885-1892.	15.2	170
99	Hypervariable loci in the human gut virome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 3962-3966.	3.3	167
100	Coupled Integration of Human Immunodeficiency Virus Type 1 cDNA Ends by Purified Integrase In Vitro: Stimulation by the Viral Nucleocapsid Protein. <i>Journal of Virology</i> , 1999, 73, 6670-6679.	1.5	163
101	The BET Family of Proteins Targets Moloney Murine Leukemia Virus Integration near Transcription Start Sites. <i>Cell Reports</i> , 2013, 5, 886-894.	2.9	162
102	Gut microbiota modulate dendritic cell antigen presentation and radiotherapy-induced antitumor immune response. <i>Journal of Clinical Investigation</i> , 2019, 130, 466-479.	3.9	159
103	Engineering the gut microbiota to treat hyperammonemia. <i>Journal of Clinical Investigation</i> , 2015, 125, 2841-2850.	3.9	154
104	Nondestructive, base-resolution sequencing of 5-hydroxymethylcytosine using a DNA deaminase. <i>Nature Biotechnology</i> , 2018, 36, 1083-1090.	9.4	154
105	The Mobility of an HIV-1 Integrase Active Site Loop Is Correlated with Catalytic Activity,. <i>Biochemistry</i> , 1999, 38, 8892-8898.	1.2	151
106	Cxcr2 and Cxcl5 regulate the IL-17/G-CSF axis and neutrophil homeostasis in mice. <i>Journal of Clinical Investigation</i> , 2012, 122, 974-986.	3.9	150
107	Composition and dynamics of the respiratory tract microbiome in intubated patients. <i>Microbiome</i> , 2016, 4, 7.	4.9	148
108	LEDGF Hybrids Efficiently Retarget Lentiviral Integration Into Heterochromatin. <i>Molecular Therapy</i> , 2010, 18, 552-560.	3.7	144

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109	The influence of DNA and nucleosome structure on integration events directed by HIV integrase. <i>Journal of Biological Chemistry</i> , 1994, 269, 25031-41.	1.6	143
110	Comparative Effectiveness of Nutritional and Biological Therapy in North American Children with Active Crohn's Disease. <i>Inflammatory Bowel Diseases</i> , 2015, 21, 1786-1793.	0.9	141
111	Gene therapy targeting haematopoietic stem cells for inherited diseases: progress and challenges. <i>Nature Reviews Drug Discovery</i> , 2019, 18, 447-462.	21.5	141
112	Role of dietary fiber in the recovery of the human gut microbiome and its metabolome. <i>Cell Host and Microbe</i> , 2021, 29, 394-407.e5.	5.1	137
113	Analysis of Lentiviral Vector Integration in HIV+ Study Subjects Receiving Autologous Infusions of Gene Modified CD4+ T Cells. <i>Molecular Therapy</i> , 2009, 17, 844-850.	3.7	136
114	Hepatitis C Virus Transmission Bottlenecks Analyzed by Deep Sequencing. <i>Journal of Virology</i> , 2010, 84, 6218-6228.	1.5	135
115	Sunbeam: an extensible pipeline for analyzing metagenomic sequencing experiments. <i>Microbiome</i> , 2019, 7, 46.	4.9	134
116	Chromosome Structure and Human Immunodeficiency Virus Type 1 cDNA Integration: Centromeric Alphoid Repeats Are a Disfavored Target. <i>Journal of Virology</i> , 1998, 72, 4005-4014.	1.5	134
117	Differential inhibition of HIV-1 preintegration complexes and purified integrase protein by small molecules.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996, 93, 9742-9747.	3.3	132
118	Engineering HIV-Resistant Human CD4+ T Cells with CXCR4-Specific Zinc-Finger Nucleases. <i>PLoS Pathogens</i> , 2011, 7, e1002020.	2.1	130
119	HIV integration site distributions in resting and activated CD4 + T cells infected in culture. <i>Aids</i> , 2009, 23, 1461-1471.	1.0	129
120	Structure-constrained sparse canonical correlation analysis with an application to microbiome data analysis. <i>Biostatistics</i> , 2013, 14, 244-258.	0.9	128
121	Inflammation-associated microbiota in pediatric eosinophilic esophagitis. <i>Microbiome</i> , 2015, 3, 23.	4.9	128
122	Total synthesis and evaluation of lamellarin $\hat{\pm}$ 20-Sulfate analogues. <i>Bioorganic and Medicinal Chemistry</i> , 2002, 10, 3285-3290.	1.4	127
123	Improved characterization of medically relevant fungi in the human respiratory tract using next-generation sequencing. <i>Genome Biology</i> , 2014, 15, 487.	3.8	127
124	Directly Infected Resting CD4+T Cells Can Produce HIV Gag without Spreading Infection in a Model of HIV Latency. <i>PLoS Pathogens</i> , 2012, 8, e1002818.	2.1	126
125	Assessing Bacterial Populations in the Lung by Replicate Analysis of Samples from the Upper and Lower Respiratory Tracts. <i>PLoS ONE</i> , 2012, 7, e42786.	1.1	126
126	BIRC2/cIAP1 Is a Negative Regulator of HIV-1 Transcription and Can Be Targeted by Smac Mimetics to Promote Reversal of Viral Latency. <i>Cell Host and Microbe</i> , 2015, 18, 345-353.	5.1	124



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127	Genomes of cryptic chimpanzee <i>Plasmodium</i> species reveal key evolutionary events leading to human malaria. <i>Nature Communications</i> , 2016, 7, 11078.	5.8	122
128	Retroviral integration and human gene therapy. <i>Journal of Clinical Investigation</i> , 2007, 117, 2083-2086.	3.9	121
129	Community-Wide Response of the Gut Microbiota to Enteropathogenic <i>Citrobacter rodentium</i> Infection Revealed by Deep Sequencing. <i>Infection and Immunity</i> , 2009, 77, 4668-4678.	1.0	121
130	A tool kit for quantifying eukaryotic rRNA gene sequences from human microbiome samples. <i>Genome Biology</i> , 2012, 13, R60.	13.9	121
131	Multicenter Comparison of Lung and Oral Microbiomes of HIV-infected and HIV-uninfected Individuals. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2015, 192, 1335-1344.	2.5	120
132	Tethering human immunodeficiency virus 1 integrase to a DNA site directs integration to nearby sequences. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994, 91, 9233-9237.	3.3	119
133	Thalassiolins A-C: new marine-derived inhibitors of HIV cDNA integrase. <i>Bioorganic and Medicinal Chemistry</i> , 2002, 10, 3619-3625.	1.4	119
134	Viral communities of the human gut: metagenomic analysis of composition and dynamics. <i>Mobile DNA</i> , 2017, 8, 12.	1.3	119
135	Crystal structure of an active two-domain derivative of rous sarcoma virus integrase 1 Edited by I. A. Wilson. <i>Journal of Molecular Biology</i> , 2000, 296, 535-548.	2.0	117
136	Retroviral DNA Integration Mechanism and Consequences. <i>Advances in Genetics</i> , 2005, 55, 147-181.	0.8	117
137	LEDGF/p75-Independent HIV-1 Replication Demonstrates a Role for HRP-2 and Remains Sensitive to Inhibition by LEDGINs. <i>PLoS Pathogens</i> , 2012, 8, e1002558.	2.1	117
138	Dynamics of gene-modified progenitor cells analyzed by tracking retroviral integration sites in a human SCID-X1 gene therapy trial. <i>Blood</i> , 2010, 115, 4356-4366.	0.6	115
139	Dynamic regulation of HIV-1 mRNA populations analyzed by single-molecule enrichment and long-read sequencing. <i>Nucleic Acids Research</i> , 2012, 40, 10345-10355.	6.5	114
140	A rapid in vitro assay for HIV DNA integration. <i>Nucleic Acids Research</i> , 1991, 19, 2729-2734.	6.5	112
141	A New Class of Multimerization Selective Inhibitors of HIV-1 Integrase. <i>PLoS Pathogens</i> , 2014, 10, e1004171.	2.1	112
142	Gut microbiota modulates adoptive cell therapy via CD8 <sup>+</sup> dendritic cells and IL-12. <i>JCI Insight</i> , 2018, 3, .	2.3	111
143	Tethering human immunodeficiency virus type 1 preintegration complexes to target DNA promotes integration at nearby sites. <i>Journal of Virology</i> , 1997, 71, 458-464.	1.5	110
144	Roles of host cell factors in circularization of retroviral dna. <i>Virology</i> , 2003, 314, 460-467.	1.1	107

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145	Estimating abundances of retroviral insertion sites from DNA fragment length data. <i>Bioinformatics</i> , 2012, 28, 755-762.	1.8	106
146	Human and rat gut microbiome composition is maintained following sleep restriction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E1564-E1571.	3.3	106
147	HIV latency and integration site placement in five cell-based models. <i>Retrovirology</i> , 2013, 10, 90.	0.9	104
148	Antigen-driven clonal selection shapes the persistence of HIV-1-infected CD4+ T cells in vivo. <i>Journal of Clinical Investigation</i> , 2021, 131, .	3.9	103
149	Miniaturized devices for point of care molecular detection of HIV. <i>Lab on A Chip</i> , 2017, 17, 382-394.	3.1	101
150	Retroviral DNA integration: HIV and the role of LEDGF/p75. <i>Trends in Genetics</i> , 2006, 22, 388-395.	2.9	100
151	A Maraviroc-Resistant HIV-1 with Narrow Cross-Resistance to Other CCR5 Antagonists Depends on both N-Terminal and Extracellular Loop Domains of Drug-Bound CCR5. <i>Journal of Virology</i> , 2010, 84, 10863-10876.	1.5	100
152	Membrane-Based, Sedimentation-Assisted Plasma Separator for Point-of-Care Applications. <i>Analytical Chemistry</i> , 2013, 85, 10463-10470.	3.2	100
153	A single glutamic acid residue plays a key role in the transcriptional activation function of lambda repressor. <i>Cell</i> , 1989, 58, 1163-1171.	13.5	98
154	Mechanism of Inhibition of a Poxvirus Topoisomerase by the Marine Natural Product Sansalvamide A. <i>Molecular Pharmacology</i> , 1999, 55, 1049-1053.	1.0	98
155	The Perioperative Lung Transplant Virome: Torque Teno Viruses Are Elevated in Donor Lungs and Show Divergent Dynamics in Primary Graft Dysfunction. <i>American Journal of Transplantation</i> , 2017, 17, 1313-1324.	2.6	96
156	Recommendations for measuring HIV reservoir size in cure-directed clinical trials. <i>Nature Medicine</i> , 2020, 26, 1339-1350.	15.2	96
157	Sequence requirements for integration of Moloney murine leukemia virus DNA in vitro. <i>Journal of Virology</i> , 1990, 64, 5645-5648.	1.5	96
158	Integration target site selection by a resurrected human endogenous retrovirus. <i>Genes and Development</i> , 2009, 23, 633-642.	2.7	95
159	Rapid manufacturing of non-activated potent CAR T cells. <i>Nature Biomedical Engineering</i> , 2022, 6, 118-128.	11.6	92
160	Isolation and Characterization of Novel Human Immunodeficiency Virus Integrase Inhibitors from Fungal Metabolites. <i>Antiviral Chemistry and Chemotherapy</i> , 1999, 10, 63-70.	0.3	91
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