

Frederic Bushman

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

387
papers

75,253
citations

107
h-index

272
g-index

414
ext. papers

91,451
ext. citations

13.6
avg, IF

7.54
L-index

#	Paper	IF	Citations
387	QIIME allows analysis of high-throughput community sequencing data. <i>Nature Methods</i> , 2010 , 7, 335-6	21.6	22879
386	Linking long-term dietary patterns with gut microbial enterotypes. <i>Science</i> , 2011 , 334, 105-8	33.3	3898
385	PyNAST: a flexible tool for aligning sequences to a template alignment. <i>Bioinformatics</i> , 2010 , 26, 266-7	7.2	2728
384	Intestinal microbiota metabolism of L-carnitine, a nutrient in red meat, promotes atherosclerosis. <i>Nature Medicine</i> , 2013 , 19, 576-85	50.5	2528
383	HIV-1 integration in the human genome favors active genes and local hotspots. <i>Cell</i> , 2002 , 110, 521-9	56.2	1376
382	Insertional oncogenesis in 4 patients after retrovirus-mediated gene therapy of SCID-X1. <i>Journal of Clinical Investigation</i> , 2008 , 118, 3132-42	15.9	1269
381	High-fat diet determines the composition of the murine gut microbiome independently of obesity. <i>Gastroenterology</i> , 2009 , 137, 1716-24.e1-2	13.3	1044
380	Transfusion independence and HMGA2 activation after gene therapy of human β -thalassaemia. <i>Nature</i> , 2010 , 467, 318-22	50.4	953
379	Bayesian community-wide culture-independent microbial source tracking. <i>Nature Methods</i> , 2011 , 8, 761-3	11.6	777
378	Global analysis of host-pathogen interactions that regulate early-stage HIV-1 replication. <i>Cell</i> , 2008 , 135, 49-60	56.2	776
377	Retroviral DNA integration: ASLV, HIV, and MLV show distinct target site preferences. <i>PLoS Biology</i> , 2004 , 2, E234	9.7	706
376	Topographical continuity of bacterial populations in the healthy human respiratory tract. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2011 , 184, 957-63	10.2	693
375	The human gut virome: inter-individual variation and dynamic response to diet. <i>Genome Research</i> , 2011 , 21, 1616-25	9.7	637
374	A quantitative assay for HIV DNA integration in vivo. <i>Nature Medicine</i> , 2001 , 7, 631-4	50.5	594
373	Innate lymphoid cells promote anatomical containment of lymphoid-resident commensal bacteria. <i>Science</i> , 2012 , 336, 1321-5	33.3	542
372	Associating microbiome composition with environmental covariates using generalized UniFrac distances. <i>Bioinformatics</i> , 2012 , 28, 2106-13	7.2	520
371	Short pyrosequencing reads suffice for accurate microbial community analysis. <i>Nucleic Acids Research</i> , 2007 , 35, e120	20.1	510

370	Innate lymphoid cells regulate CD4+ T-cell responses to intestinal commensal bacteria. <i>Nature</i> , 2013 , 498, 113-7	50.4	508
369	Global landscape of HIV-human protein complexes. <i>Nature</i> , 2011 , 481, 365-70	50.4	507
368	A role for LEDGF/p75 in targeting HIV DNA integration. <i>Nature Medicine</i> , 2005 , 11, 1287-9	50.5	489
367	Efficacy of gene therapy for X-linked severe combined immunodeficiency. <i>New England Journal of Medicine</i> , 2010 , 363, 355-64	59.2	471
366	Association Between Breast Milk Bacterial Communities and Establishment and Development of the Infant Gut Microbiome. <i>JAMA Pediatrics</i> , 2017 , 171, 647-654	8.3	466
365	Correlation between intraluminal oxygen gradient and radial partitioning of intestinal microbiota. <i>Gastroenterology</i> , 2014 , 147, 1055-63.e8	13.3	464
364	Human immunodeficiency virus type 1 preintegration complexes: studies of organization and composition. <i>Journal of Virology</i> , 1997 , 71, 5382-90	6.6	463
363	Decade-long safety and function of retroviral-modified chimeric antigen receptor T cells. <i>Science Translational Medicine</i> , 2012 , 4, 132ra53	17.5	456
362	In vivo genome editing restores haemostasis in a mouse model of haemophilia. <i>Nature</i> , 2011 , 475, 217-221	50.4	453
361	CRISPR-engineered T cells in patients with refractory cancer. <i>Science</i> , 2020 , 367,	33.3	448
360	Archaea and fungi of the human gut microbiome: correlations with diet and bacterial residents. <i>PLoS ONE</i> , 2013 , 8, e66019	3.7	447
359	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	23.4	446
358	Minimum information about a marker gene sequence (MIMARKS) and minimum information about any (x) sequence (MIxS) specifications. <i>Nature Biotechnology</i> , 2011 , 29, 415-20	44.5	445
357	The IN protein of Moloney murine leukemia virus processes the viral DNA ends and accomplishes their integration in vitro. <i>Cell</i> , 1990 , 62, 829-37	56.2	401
356	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, 17372-7	11.5	395
355	Enterotypes in the landscape of gut microbial community composition. <i>Nature Microbiology</i> , 2018 , 3, 8-16	26.6	387
354	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, 1339-43	11.5	386
353	Rapid evolution of the human gut virome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 12450-5	11.5	379

352	Disruption of TET2 promotes the therapeutic efficacy of CD19-targeted T cells. <i>Nature</i> , 2018 , 558, 307-314	12.4	362
351	Host cell factors in HIV replication: meta-analysis of genome-wide studies. <i>PLoS Pathogens</i> , 2009 , 5, e1000437	10.4	351
350	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, 3428-32	11.5	346
349	HIV integration site selection: analysis by massively parallel pyrosequencing reveals association with epigenetic modifications. <i>Genome Research</i> , 2007 , 17, 1186-94	9.7	337
348	Commensal bacteria-derived signals regulate basophil hematopoiesis and allergic inflammation. <i>Nature Medicine</i> , 2012 , 18, 538-46	50.5	336
347	Genome-wide analysis of retroviral DNA integration. <i>Nature Reviews Microbiology</i> , 2005 , 3, 848-58	22.2	335
346	The macaque gut microbiome in health, lentiviral infection, and chronic enterocolitis. <i>PLoS Pathogens</i> , 2008 , 4, e20	7.6	334
345	HIV-1 capsid-cyclophilin interactions determine nuclear import pathway, integration targeting and replication efficiency. <i>PLoS Pathogens</i> , 2011 , 7, e1002439	7.6	331
344	Comparison of placenta samples with contamination controls does not provide evidence for a distinct placenta microbiota. <i>Microbiome</i> , 2016 , 4, 29	16.6	326
343	HIV nuclear import is governed by the phosphotyrosine-mediated binding of matrix to the core domain of integrase. <i>Cell</i> , 1995 , 83, 569-76	56.2	325
342	HIV-1 cDNA integration: requirement of HMG I(Y) protein for function of preintegration complexes in vitro. <i>Cell</i> , 1997 , 88, 483-92	56.2	309
341	Comparative metabolomics in vegans and omnivores reveal constraints on diet-dependent gut microbiota metabolite production. <i>Gut</i> , 2016 , 65, 63-72	19.2	307
340	Retroviral DNA integration directed by HIV integration protein in vitro. <i>Science</i> , 1990 , 249, 1555-8	33.3	303
339	Safe harbours for the integration of new DNA in the human genome. <i>Nature Reviews Cancer</i> , 2011 , 12, 51-8	31.3	301
338	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, 148-58	9.2	293
337	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	50.5	286
336	Sampling and pyrosequencing methods for characterizing bacterial communities in the human gut using 16S sequence tags. <i>BMC Microbiology</i> , 2010 , 10, 206	4.5	283
335	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, 10479-84	11.5	279

334	A modified β retrovirus vector for X-linked severe combined immunodeficiency. <i>New England Journal of Medicine</i> , 2014 , 371, 1407-17	59.2	278
333	Nucleic acid chaperone activity of the ORF1 protein from the mouse LINE-1 retrotransposon. <i>Molecular and Cellular Biology</i> , 2001 , 21, 467-75	4.8	275
332	Optimizing methods and dodging pitfalls in microbiome research. <i>Microbiome</i> , 2017 , 5, 52	16.6	273
331	Retroviral DNA integration: viral and cellular determinants of target-site selection. <i>PLoS Pathogens</i> , 2006 , 2, e60	7.6	273
330	Role of the non-homologous DNA end joining pathway in the early steps of retroviral infection. <i>EMBO Journal</i> , 2001 , 20, 3272-81	13	267
329	Disordered microbial communities in the upper respiratory tract of cigarette smokers. <i>PLoS ONE</i> , 2010 , 5, e15216	3.7	262
328	Lamellarin alpha 20-sulfate, an inhibitor of HIV-1 integrase active against HIV-1 virus in cell culture. <i>Journal of Medicinal Chemistry</i> , 1999 , 42, 1901-7	8.3	251
327	Genomic safe harbors permit high β globin transgene expression in thalassemia induced pluripotent stem cells. <i>Nature Biotechnology</i> , 2011 , 29, 73-8	44.5	249
326	Outcomes following gene therapy in patients with severe Wiskott-Aldrich syndrome. <i>JAMA - Journal of the American Medical Association</i> , 2015 , 313, 1550-63	27.4	245
325	A quantitative approach for measuring the reservoir of latent HIV-1 proviruses. <i>Nature</i> , 2019 , 566, 120-123	35.4	227
324	Genome-wide analysis of chromosomal features repressing human immunodeficiency virus transcription. <i>Journal of Virology</i> , 2005 , 79, 6610-9	6.6	224
323	The host genomic environment of the provirus determines the abundance of HTLV-1-infected T-cell clones. <i>Blood</i> , 2011 , 117, 3113-22	2.2	222
322	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, 536-45	10.2	216
321	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, 5913-7	11.5	211
320	The interferon response inhibits HIV particle production by induction of TRIM22. <i>PLoS Pathogens</i> , 2008 , 4, e1000007	7.6	208
319	Human immunodeficiency virus cDNA metabolism: notable stability of two-long terminal repeat circles. <i>Journal of Virology</i> , 2002 , 76, 3739-47	6.6	202
318	Coinfection. Virus-helminth coinfection reveals a microbiota-independent mechanism of immunomodulation. <i>Science</i> , 2014 , 345, 578-82	33.3	195
317	Power and sample-size estimation for microbiome studies using pairwise distances and PERMANOVA. <i>Bioinformatics</i> , 2015 , 31, 2461-8	7.2	193

316	DNA bar coding and pyrosequencing to identify rare HIV drug resistance mutations. <i>Nucleic Acids Research</i> , 2007 , 35, e91	20.1	187
315	Role of PSIP1/LEDGF/p75 in lentiviral infectivity and integration targeting. <i>PLoS ONE</i> , 2007 , 2, e1340	3.7	184
314	HIV DNA integration. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2012 , 2, a006890	5.4	183
313	Targeting survival: integration site selection by retroviruses and LTR-retrotransposons. <i>Cell</i> , 2003 , 115, 135-8	56.2	183
312	HIV integration targeting: a pathway involving Transportin-3 and the nuclear pore protein RanBP2. <i>PLoS Pathogens</i> , 2011 , 7, e1001313	7.6	170
311	Selection of target sites for mobile DNA integration in the human genome. <i>PLoS Computational Biology</i> , 2006 , 2, e157	5	169
310	Repair of gaps in retroviral DNA integration intermediates. <i>Journal of Virology</i> , 2000 , 74, 11191-200	6.6	163
309	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	13	163
308	Inhibition of retroviral pathogenesis by RNA interference. <i>Current Biology</i> , 2002 , 12, 1301-11	6.3	157
307	Assessing the potential for AAV vector genotoxicity in a murine model. <i>Blood</i> , 2011 , 117, 3311-9	2.2	156
306	Histone deacetylase 3 coordinates commensal-bacteria-dependent intestinal homeostasis. <i>Nature</i> , 2013 , 504, 153-7	50.4	154
305	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	7.8	153
304	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, 6670-9	6.6	150
303	Fungi of the murine gut: episodic variation and proliferation during antibiotic treatment. <i>PLoS ONE</i> , 2013 , 8, e71806	3.7	143
302	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, 12036-41	11.5	143
301	Lack of detection of a human placenta microbiome in samples from preterm and term deliveries. <i>Microbiome</i> , 2018 , 6, 196	16.6	142
300	Hypervariable loci in the human gut virome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 3962-6	11.5	141
299	Widespread colonization of the lung by <i>Tropheryma whipplei</i> in HIV infection. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2013 , 187, 1110-7	10.2	140

298	The mobility of an HIV-1 integrase active site loop is correlated with catalytic activity. <i>Biochemistry</i> , 1999 , 38, 8892-8	3.2	140
297	piggyBac transposase tools for genome engineering. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E2279-87	11.5	138
296	Viral metagenomics reveal blooms of anelloviruses in the respiratory tract of lung transplant recipients. <i>American Journal of Transplantation</i> , 2015 , 15, 200-9	8.7	134
295	Fungal Signature in the Gut Microbiota of Pediatric Patients With Inflammatory Bowel Disease. <i>Inflammatory Bowel Diseases</i> , 2015 , 21, 1948-56	4.5	131
294	The influence of DNA and nucleosome structure on integration events directed by HIV integrase. <i>Journal of Biological Chemistry</i> , 1994 , 269, 25031-41	5.4	130
293	LEDGF hybrids efficiently retarget lentiviral integration into heterochromatin. <i>Molecular Therapy</i> , 2010 , 18, 552-60	11.7	128
292	Cxcr2 and Cxcl5 regulate the IL-17/G-CSF axis and neutrophil homeostasis in mice. <i>Journal of Clinical Investigation</i> , 2012 , 122, 974-86	15.9	127
291	Hepatitis C virus transmission bottlenecks analyzed by deep sequencing. <i>Journal of Virology</i> , 2010 , 84, 6218-28	6.6	123
290	Analysis of lentiviral vector integration in HIV+ study subjects receiving autologous infusions of gene modified CD4+ T cells. <i>Molecular Therapy</i> , 2009 , 17, 844-50	11.7	122
289	Engineering HIV-resistant human CD4+ T cells with CXCR4-specific zinc-finger nucleases. <i>PLoS Pathogens</i> , 2011 , 7, e1002020	7.6	118
288	The BET family of proteins targets moloney murine leukemia virus integration near transcription start sites. <i>Cell Reports</i> , 2013 , 5, 886-94	10.6	117
287	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, 9742-7	11.5	116
286	Chromosome structure and human immunodeficiency virus type 1 cDNA integration: centromeric alphoid repeats are a disfavored target. <i>Journal of Virology</i> , 1998 , 72, 4005-14	6.6	115
285	HIV integration site distributions in resting and activated CD4+ T cells infected in culture. <i>Aids</i> , 2009 , 23, 1461-71	3.5	113
284	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	7.6	111
283	Crystal structure of an active two-domain derivative of Rous sarcoma virus integrase. <i>Journal of Molecular Biology</i> , 2000 , 296, 535-48	6.5	111
282	Engineering the gut microbiota to treat hyperammonemia. <i>Journal of Clinical Investigation</i> , 2015 , 125, 2841-50	15.9	110
281	Total synthesis and evaluation of lamellarin alpha 20-Sulfate analogues. <i>Bioorganic and Medicinal Chemistry</i> , 2002 , 10, 3285-90	3.4	110

280	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, 4668-78	3.7	107
279	Retroviral DNA integration--mechanism and consequences. <i>Advances in Genetics</i> , 2005 , 55, 147-81	3.3	103
278	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, 9233-7	11.5	103
277	Thalassiolins A-C: new marine-derived inhibitors of HIV cDNA integrase. <i>Bioorganic and Medicinal Chemistry</i> , 2002 , 10, 3619-25	3.4	102
276	A rapid in vitro assay for HIV DNA integration. <i>Nucleic Acids Research</i> , 1991 , 19, 2729-34	20.1	102
275	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	3.7	102
274	Structure-constrained sparse canonical correlation analysis with an application to microbiome data analysis. <i>Biostatistics</i> , 2013 , 14, 244-58	3.7	101
273	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	7.6	101
272	Composition and dynamics of the respiratory tract microbiome in intubated patients. <i>Microbiome</i> , 2016 , 4, 7	16.6	100
271	Comparative Effectiveness of Nutritional and Biological Therapy in North American Children with Active Crohn's Disease. <i>Inflammatory Bowel Diseases</i> , 2015 , 21, 1786-93	4.5	100
270	Retroviral integration and human gene therapy. <i>Journal of Clinical Investigation</i> , 2007 , 117, 2083-6	15.9	100
269	Genomes of cryptic chimpanzee <i>Plasmodium</i> species reveal key evolutionary events leading to human malaria. <i>Nature Communications</i> , 2016 , 7, 11078	17.4	100
268	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, 4356-66	2.2	99
267	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, 1335-44	10.2	97
266	Inflammation-associated microbiota in pediatric eosinophilic esophagitis. <i>Microbiome</i> , 2015 , 3, 23	16.6	95
265	Roles of host cell factors in circularization of retroviral dna. <i>Virology</i> , 2003 , 314, 460-7	3.6	95
264	A single glutamic acid residue plays a key role in the transcriptional activation function of lambda repressor. <i>Cell</i> , 1989 , 58, 1163-71	56.2	95
263	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, 10863-76	6.6	93

262	A role for bacterial urease in gut dysbiosis and Crohn's disease. <i>Science Translational Medicine</i> , 2017 , 9, 17.5 92
261	A tool kit for quantifying eukaryotic rRNA gene sequences from human microbiome samples. <i>Genome Biology</i> , 2012 , 13, R60 18.3 92
260	Tethering human immunodeficiency virus type 1 preintegration complexes to target DNA promotes integration at nearby sites. <i>Journal of Virology</i> , 1997 , 71, 458-64 6.6 92
259	Nondestructive, base-resolution sequencing of 5-hydroxymethylcytosine using a DNA deaminase. <i>Nature Biotechnology</i> , 2018 , 44.5 91
258	Retroviral DNA integration: HIV and the role of LEDGF/p75. <i>Trends in Genetics</i> , 2006 , 22, 388-95 8.5 88
257	DNA bar coding and pyrosequencing to analyze adverse events in therapeutic gene transfer. <i>Nucleic Acids Research</i> , 2008 , 36, e49 20.1 87
256	Mechanism of inhibition of a poxvirus topoisomerase by the marine natural product sansalvamide A. <i>Molecular Pharmacology</i> , 1999 , 55, 1049-53 4.3 87
255	HIV latency and integration site placement in five cell-based models. <i>Retrovirology</i> , 2013 , 10, 90 3.6 85
254	Dynamic regulation of HIV-1 mRNA populations analyzed by single-molecule enrichment and long-read sequencing. <i>Nucleic Acids Research</i> , 2012 , 40, 10345-55 20.1 84
253	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 44.5 84
252	A new class of multimerization selective inhibitors of HIV-1 integrase. <i>PLoS Pathogens</i> , 2014 , 10, e1004171 17.6 83
251	Integration target site selection by a resurrected human endogenous retrovirus. <i>Genes and Development</i> , 2009 , 23, 633-42 12.6 83
250	Lentiviral gene therapy for X-linked chronic granulomatous disease. <i>Nature Medicine</i> , 2020 , 26, 200-206 50.5 82
249	Membrane-based, sedimentation-assisted plasma separator for point-of-care applications. <i>Analytical Chemistry</i> , 2013 , 85, 10463-70 7.8 82
248	Gene therapy targeting haematopoietic stem cells for inherited diseases: progress and challenges. <i>Nature Reviews Drug Discovery</i> , 2019 , 18, 447-462 64.1 80
247	Estimating abundances of retroviral insertion sites from DNA fragment length data. <i>Bioinformatics</i> , 2012 , 28, 755-62 7.2 80
246	The stepwise assembly of the neonatal virome is modulated by breastfeeding. <i>Nature</i> , 2020 , 581, 470-474 40.4 80
245	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, 345-53 23.4 78

244	Retroviral cDNA integration: stimulation by HMG I family proteins. <i>Journal of Virology</i> , 2000 , 74, 10965-74.6	7.6	77
243	Improved characterization of medically relevant fungi in the human respiratory tract using next-generation sequencing. <i>Genome Biology</i> , 2014 , 15, 487	18.3	76
242	Antiviral effects of autologous CD4 T cells genetically modified with a conditionally replicating lentiviral vector expressing long antisense to HIV. <i>Blood</i> , 2013 , 121, 1524-33	2.2	76
241	HTLV-1 integration into transcriptionally active genomic regions is associated with proviral expression and with HAM/TSP. <i>PLoS Pathogens</i> , 2008 , 4, e1000027	7.6	76
240	Isolation and characterization of novel human immunodeficiency virus integrase inhibitors from fungal metabolites. <i>Antiviral Chemistry and Chemotherapy</i> , 1999 , 10, 63-70	3.5	75
239	Human immunodeficiency virus type 1 preintegration complexes containing discontinuous plus strands are competent to integrate in vitro. <i>Journal of Virology</i> , 1995 , 69, 3938-44	6.6	74
238	Gut microbiota modulate dendritic cell antigen presentation and radiotherapy-induced antitumor immune response. <i>Journal of Clinical Investigation</i> , 2020 , 130, 466-479	15.9	74
237	Miniaturized devices for point of care molecular detection of HIV. <i>Lab on A Chip</i> , 2017 , 17, 382-394	7.2	73
236	HIV integration site selection: targeting in macrophages and the effects of different routes of viral entry. <i>Molecular Therapy</i> , 2006 , 14, 218-25	11.7	73
235	Integration targeting by avian sarcoma-leukosis virus and human immunodeficiency virus in the chicken genome. <i>Journal of Virology</i> , 2005 , 79, 12035-44	6.6	73
234	Identification of a small-molecule binding site at the dimer interface of the HIV integrase catalytic domain. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2001 , 57, 536-44		72
233	Cyclodidemniserinol trisulfate, a sulfated serinolipid from the Palauan ascidian <i>Didemnum guttatum</i> that inhibits HIV-1 integrase. <i>Organic Letters</i> , 2000 , 2, 1605-7	6.2	72
232	Transfer of Viral Communities between Human Individuals during Fecal Microbiota Transplantation. <i>MBio</i> , 2016 , 7, e00322	7.8	71
231	Sequence requirements for integration of Moloney murine leukemia virus DNA in vitro. <i>Journal of Virology</i> , 1990 , 64, 5645-8	6.6	71
230	Gut microbiota modulates adoptive cell therapy via CD8 ⁺ dendritic cells and IL-12. <i>JCI Insight</i> , 2018 , 3,	9.9	70
229	Viral communities of the human gut: metagenomic analysis of composition and dynamics. <i>Mobile DNA</i> , 2017 , 8, 12	4.4	67
228	Succession in the gut microbiome following antibiotic and antibody therapies for <i>Clostridium difficile</i> . <i>PLoS ONE</i> , 2012 , 7, e46966	3.7	67
227	Quantitative phosphoproteomics reveals extensive cellular reprogramming during HIV-1 entry. <i>Cell Host and Microbe</i> , 2013 , 13, 613-623	23.4	67

226	Peptidoglycan from the gut microbiota governs the lifespan of circulating phagocytes at homeostasis. <i>Blood</i> , 2016 , 127, 2460-71	2.2	66
225	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	8.7	66
224	Rous sarcoma virus integrase protein: mapping functions for catalysis and substrate binding. <i>Journal of Virology</i> , 1994 , 68, 2215-23	6.6	66
223	Sunbeam: an extensible pipeline for analyzing metagenomic sequencing experiments. <i>Microbiome</i> , 2019 , 7, 46	16.6	65
222	The human virome: assembly, composition and host interactions. <i>Nature Reviews Microbiology</i> , 2021 , 19, 514-527	22.2	64
221	Cell cycle arrest in G2/M promotes early steps of infection by human immunodeficiency virus. <i>Journal of Virology</i> , 2005 , 79, 5695-704	6.6	63
220	Modeling HIV-1 integrase complexes based on their hydrodynamic properties. <i>Biopolymers</i> , 2003 , 68, 110-20	2.2	60
219	Bidirectional interactions between indomethacin and the murine intestinal microbiota. <i>ELife</i> , 2015 , 4, e08973	8.9	60
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