

Jonas Demeulemeester

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

6,463
citations

186265

28
h-index

102487

66
g-index

89
all docs

89
docs citations

89
times ranked

10747
citing authors

#	ARTICLE	IF	CITATIONS
1	Pan-cancer analysis of whole genomes. <i>Nature</i> , 2020, 578, 82-93.	27.8	1,966
2	The evolutionary history of 2,658 cancers. <i>Nature</i> , 2020, 578, 122-128.	27.8	690
3	Neoantigen-directed immune escape in lung cancer evolution. <i>Nature</i> , 2019, 567, 479-485.	27.8	639
4	Pan-cancer analysis of whole genomes identifies driver rearrangements promoted by LINE-1 retrotransposition. <i>Nature Genetics</i> , 2020, 52, 306-319.	21.4	275
5	Characterizing genetic intra-tumor heterogeneity across 2,658 human cancer genomes. <i>Cell</i> , 2021, 184, 2239-2254.e39.	28.9	260
6	Pervasive chromosomal instability and karyotype order in tumour evolution. <i>Nature</i> , 2020, 587, 126-132.	27.8	221
7	The BET Family of Proteins Targets Moloney Murine Leukemia Virus Integration near Transcription Start Sites. <i>Cell Reports</i> , 2013, 5, 886-894.	6.4	162
8	Small-Molecule Inhibitors of the LEDGF/p75 Binding Site of Integrase Block HIV Replication and Modulate Integrase Multimerization. <i>Antimicrobial Agents and Chemotherapy</i> , 2012, 56, 4365-4374.	3.2	158
9	LEDGINs inhibit late stage HIV-1 replication by modulating integrase multimerization in the virions. <i>Retrovirology</i> , 2013, 10, 57.	2.0	127
10	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.	4.7	117
11	Recurrent rearrangements of FOS and FOSB define osteoblastoma. <i>Nature Communications</i> , 2018, 9, 2150.	12.8	106
12	LEDGIN-mediated Inhibition of Integraseâ€LEDGF/p75 Interaction Reduces Reactivation of Residual Latent HIV. <i>EBioMedicine</i> , 2016, 8, 248-264.	6.1	90
13	Evolutionary predictability of genetic versus nongenetic resistance to anticancer drugs in melanoma. <i>Cancer Cell</i> , 2021, 39, 1135-1149.e8.	16.8	83
14	Pan-cancer analysis of homozygous deletions in primary tumours uncovers rare tumour suppressors. <i>Nature Communications</i> , 2017, 8, 1221.	12.8	75
15	Tracing the origin of disseminated tumor cells in breast cancer using single-cell sequencing. <i>Genome Biology</i> , 2016, 17, 250.	8.8	68
16	LEDGINs, non-catalytic site inhibitors of HIV-1 integrase: a patent review (2006 â€“ 2014). <i>Expert Opinion on Therapeutic Patents</i> , 2014, 24, 609-632.	5.0	61
17	Retroviral integration: Site matters. <i>BioEssays</i> , 2015, 37, 1202-1214.	2.5	61
18	Neutral tumor evolution?. <i>Nature Genetics</i> , 2018, 50, 1630-1633.	21.4	59

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19	Multiple cellular proteins interact with LEDGF/p75 through a conserved unstructured consensus motif. <i>Nature Communications</i> , 2015, 6, 7968.	12.8	53
20	4-Substituted 2-Hydroxyisoquinoline-1,3(2 <i>H</i>)-,4 <i>H</i> -diones as a Novel Class of HIV-1 Integrase Inhibitors. <i>ACS Medicinal Chemistry Letters</i> , 2013, 4, 606-611.	2.8	52
21	Interplay between HIV Entry and Transportin-SR2 Dependency. <i>Retrovirology</i> , 2011, 8, 7.	2.0	51
22	Impairing MLL-fusion gene-mediated transformation by dissecting critical interactions with the lens epithelium-derived growth factor (LEDGF/p75). <i>Leukemia</i> , 2013, 27, 1245-1253.	7.2	45
23	HIV-1 Integrase Variants Retarget Viral Integration and Are Associated with Disease Progression in a Chronic Infection Cohort. <i>Cell Host and Microbe</i> , 2014, 16, 651-662.	11.0	44
24	BET-independent MLV-based Vectors Target Away From Promoters and Regulatory Elements. <i>Molecular Therapy - Nucleic Acids</i> , 2014, 3, e179.	5.1	43
25	Validation and Structural Characterization of the LEDGF/p75-MLL Interface as a New Target for the Treatment of MLL-Dependent Leukemia. <i>Cancer Research</i> , 2014, 74, 5139-5151.	0.9	41
26	A local human V α 1 T cell population is associated with survival in nonsmall-cell lung cancer. <i>Nature Cancer</i> , 2022, 3, 696-709.	13.2	39
27	Unraveling the Role of Peptidyl-Prolyl Isomerases in Neurodegeneration. <i>Molecular Neurobiology</i> , 2011, 44, 13-27.	4.0	37
28	Development of an AlphaScreen-Based HIV-1 Integrase Dimerization Assay for Discovery of Novel Allosteric Inhibitors. <i>Journal of Biomolecular Screening</i> , 2012, 17, 618-628.	2.6	36
29	Reconstructing evolutionary trajectories of mutation signature activities in cancer using TrackSig. <i>Nature Communications</i> , 2020, 11, 731.	12.8	36
30	Using DNA sequencing data to quantify T cell fraction and therapy response. <i>Nature</i> , 2021, 597, 555-560.	27.8	36
31	Interpretation of allele-specific chromatin accessibility using cell state-aware deep learning. <i>Genome Research</i> , 2021, 31, 1082-1096.	5.5	34
32	A ubiquitous disordered protein interaction module orchestrates transcription elongation. <i>Science</i> , 2021, 374, 1113-1121.	12.6	34
33	Inferring structural variant cancer cell fraction. <i>Nature Communications</i> , 2020, 11, 730.	12.8	33
34	LEDGF/p75 is dispensable for hematopoiesis but essential for MLL-rearranged leukemogenesis. <i>Blood</i> , 2018, 131, blood-2017-05-786962.	1.4	32
35	Estimation of tumor cell total mRNA expression in 15 cancer types predicts disease progression. <i>Nature Biotechnology</i> , 2022, 40, 1624-1633.	17.5	31
36	Discovery of small molecule HIV-1 integrase dimerization inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 3109-3114.	2.2	28

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37	The HIV-1 Integrase Mutant R263A/K264A Is 2-fold Defective for TRN-SR2 Binding and Viral Nuclear Import. <i>Journal of Biological Chemistry</i> , 2014, 289, 25351-25361.	3.4	28
38	Affinity switching of the LEDGF/p75 IBD interactome is governed by kinase-dependent phosphorylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E7053-E7062.	7.1	27
39	Aberrant integration of Hepatitis B virus DNA promotes major restructuring of human hepatocellular carcinoma genome architecture. <i>Nature Communications</i> , 2021, 12, 6910.	12.8	27
40	Cellular Cofactors of Lentiviral Integrase: From Target Validation to Drug Discovery. <i>Molecular Biology International</i> , 2012, 2012, 1-16.	1.7	26
41	Identification of Residues in the C-terminal Domain of HIV-1 Integrase That Mediate Binding to the Transportin-SR2 Protein. <i>Journal of Biological Chemistry</i> , 2012, 287, 34059-34068.	3.4	26
42	2-Hydroxyisoquinoline-1,3(2 <i>H</i>),4 <i>H</i> -diones (HIDs), Novel Inhibitors of HIV Integrase with a High Barrier to Resistance. <i>ACS Chemical Biology</i> , 2013, 8, 1187-1194.	3.4	25
43	Structure, mechanics, and binding mode heterogeneity of LEDGF/p75-DNA nucleoprotein complexes revealed by scanning force microscopy. <i>Nanoscale</i> , 2014, 6, 4611-4619.	5.6	24
44	Towards a Safer, More Randomized Lentiviral Vector Integration Profile Exploring Artificial LEDGF Chimeras. <i>PLoS ONE</i> , 2016, 11, e0164167.	2.5	24
45	Drivers underpinning the malignant transformation of giant cell tumour of bone. <i>Journal of Pathology</i> , 2020, 252, 433-440.	4.5	21
46	HIV-1 IN/Pol recruits LEDGF/p75 into viral particles. <i>Retrovirology</i> , 2015, 12, 16.	2.0	19
47	Engineering Next-Generation BET-Independent MLV Vectors for Safer Gene Therapy. <i>Molecular Therapy - Nucleic Acids</i> , 2017, 7, 231-245.	5.1	19
48	Analysis of long and short enhancers in melanoma cell states. <i>ELife</i> , 2021, 10, .	6.0	18
49	Biallelic mutations in cancer genomes reveal local mutational determinants. <i>Nature Genetics</i> , 2022, 54, 128-133.	21.4	16
50	Transcriptional Profiling of STAT1 Gain-of-Function Reveals Common and Mutation-Specific Fingerprints. <i>Frontiers in Immunology</i> , 2021, 12, 632997.	4.8	15
51	Inhibitors of the integrase-transportin-SR2 interaction block HIV nuclear import. <i>Retrovirology</i> , 2018, 15, 5.	2.0	14
52	Identification of a Small Molecule That Modulates Platelet Glycoprotein Ib-von Willebrand Factor Interaction. <i>Journal of Biological Chemistry</i> , 2012, 287, 9461-9472.	3.4	13
53	Structure of transportin SR2, a karyopherin involved in human disease, in complex with Ran. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2014, 70, 723-729.	0.8	11
54	HIV Virions as Nanoscopic Test Tubes for Probing Oligomerization of the Integrase Enzyme. <i>ACS Nano</i> , 2014, 8, 3531-3545.	14.6	11

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55	Butler enables rapid cloud-based analysis of thousands of human genomes. <i>Nature Biotechnology</i> , 2020, 38, 288-292.	17.5	11
56	Interaction of Transportin-SR2 with Ras-related Nuclear Protein (Ran) GTPase. <i>Journal of Biological Chemistry</i> , 2013, 288, 25603-25613.	3.4	10
57	A Symmetric Region of the HIV-1 Integrase Dimerization Interface Is Essential for Viral Replication. <i>PLoS ONE</i> , 2012, 7, e45177.	2.5	10
58	Abstract 3000: Pervasive intra-tumour heterogeneity and subclonal selection across cancer types. , 2018, , .		8
59	Rational design of LEDGINs as first allosteric integrase inhibitors for the treatment of HIV infection. <i>Drug Discovery Today: Technologies</i> , 2013, 10, e517-e522.	4.0	7
60	Characterization of rare lens epithelium-derived growth factor/p75 genetic variants identified in HIV-1 long-term nonprogressors. <i>Aids</i> , 2013, 27, 539-543.	2.2	7
61	Fueling HIV-1 integrase drug design with structural insights. <i>Drug Discovery Today: Technologies</i> , 2012, 9, e205-e212.	4.0	6
62	A pan-cancer landscape of somatic mutations in non-unique regions of the human genome. <i>Nature Biotechnology</i> , 2021, 39, 1589-1596.	17.5	6
63	HIV-1 Integrase Drug Discovery Comes of Age. <i>Topics in Medicinal Chemistry</i> , 2013, , 1-52.	0.8	4
64	Validation of host factors of HIV integration as novel drug targets for anti-HIV therapy. <i>MedChemComm</i> , 2014, 5, 314-320.	3.4	4
65	Primary mediastinal large Bâ€cell lymphoma is characterized by largeâ€scale copyâ€neutral loss of heterozygosity. <i>Genes Chromosomes and Cancer</i> , 2022, 61, 603-615.	2.8	2
66	Bromodomain and extra-terminal (BET) proteins target Moloney murine leukemia virus integration to transcription start sites. <i>Retrovirology</i> , 2013, 10, .	2.0	0
67	2-Hydroxyisoquinoline-1,3(2H, 4H)diones (HQDs), novel inhibitors of the HIV integrase catalytic activity with a high barrier to resistance. <i>Retrovirology</i> , 2013, 10, .	2.0	0
68	Probing Protein-Protein Interactions in a Single Virus: Application to HIV Integrase Oligomerization. <i>Biophysical Journal</i> , 2014, 106, 61a.	0.5	0
69	Validation of the MLL-LEDGF/P75 interaction as a therapeutic target for mixed lineage leukemia. <i>Experimental Hematology</i> , 2016, 44, S69.	0.4	0
70	1228P Integrated analysis of gene expression and chromosomal aberrations to determine the global patterns of DNA methylation heterogeneity in the TRACERx lung study. <i>Annals of Oncology</i> , 2020, 31, S799.	1.2	0
71	Abstract 3049: Tracing the origin of disseminated tumor cells in breast cancer using single-cell sequencing. , 2017, , .		0
72	Abstract 218: The evolutionary history of 2,658 cancers. , 2018, , .		0