Christof von Kalle

List of Publications by Year
in descending order

279 papers	34,433 citations	3731 89 h-index	3915 177 g-index
306 all docs	306 docs citations	306 times ranked	33685 citing authors

#	Article	IF	Citations
1	A Serious Adverse Event after Successful Gene Therapy for X-Linked Severe Combined Immunodeficiency. New England Journal of Medicine, 2003, 348, 255-256.	27.0	1,732
2	Hematopoietic Stem Cell Gene Therapy with a Lentiviral Vector in X-Linked Adrenoleukodystrophy. Science, 2009, 326, 818-823.	12.6	1,368
3	Severe COVID-19 Is Marked by a Dysregulated Myeloid Cell Compartment. Cell, 2020, 182, 1419-1440.e23.	28.9	1,162
4	Correction of X-linked chronic granulomatous disease by gene therapy, augmented by insertional activation of MDS1-EVI1, PRDM16 or SETBP1. Nature Medicine, 2006, 12, 401-409.	30.7	1,129
5	Insertional mutagenesis combined with acquired somatic mutations causes leukemogenesis following gene therapy of SCID-X1 patients. Journal of Clinical Investigation, 2008, 118, 3143-3150.	8.2	1,069
6	Lentiviral Hematopoietic Stem Cell Gene Therapy Benefits Metachromatic Leukodystrophy. Science, 2013, 341, 1233158.	12.6	998
7	Lentiviral Hematopoietic Stem Cell Gene Therapy in Patients with Wiskott-Aldrich Syndrome. Science, 2013, 341, 1233151.	12.6	900
8	COVID-19 severity correlates with airway epitheliumâ€“immune cell interactions identified by single-cell analysis. Nature Biotechnology, 2020, 38, 970-979.	17.5	887
9	Dissecting the genomic complexity underlying medulloblastoma. Nature, 2012, 488, 100-105.	27.8	765
10	Genomic instability and myelodysplasia with monosomy 7 consequent to EVI1 activation after gene therapy for chronic granulomatous disease. Nature Medicine, 2010, 16, 198-204.	30.7	727
11	Recurrent somatic alterations of FGFR1 and NTRK2 in pilocytic astrocytoma. Nature Genetics, 2013, 45, 927-932.	21.4	674
12	Hematopoietic stem cell gene transfer in a tumor-prone mouse model uncovers low genotoxicity of lentiviral vector integration. Nature Biotechnology, 2006, 24, 687-696.	17.5	648
13	Gene therapy of X-linked severe combined immunodeficiency by use of a pseudotyped gammaretroviral vector. Lancet, The, 2004, 364, 2181-2187.	13.7	636
14	Genome Sequencing of SHH Medulloblastoma Predicts Genotype-Related Response to Smoothened Inhibition. Cancer Cell, 2014, 25, 393-405.	16.8	627
15	Murine Leukemia Induced by Retroviral Gene Marking. Science, 2002, 296, 497-497.	12.6	584
16	Gene Therapy in Patients with Transfusion-Dependent Î²-Thalassemia. New England Journal of Medicine, 2018, 378, 1479-1493.	27.0	525
17	Enhancer hijacking activates GFI1 family oncogenes in medulloblastoma. Nature, 2014, 511, 428-434.	27.8	520
18	Stem-Cell Gene Therapy for the Wiskottâ€“Aldrich Syndrome. New England Journal of Medicine, 2010, 363, 1918-1927.	27.0	505

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19	An unbiased genome-wide analysis of zinc-finger nuclease specificity. Nature Biotechnology, 2011, 29, 816-823.	17.5	488
20	The genotoxic potential of retroviral vectors is strongly modulated by vector design and integration site selection in a mouse model of HSC gene therapy. Journal of Clinical Investigation, 2009, 119, 964-975.	8.2	488
21	Gene Therapy for Wiskott-Aldrich Syndromeâ€"Long-Term Efficacy and Genotoxicity. Science Translational Medicine, 2014, 6, 227ra33.	12.4	460
22	Effective gene therapy with nonintegrating lentiviral vectors. Nature Medicine, 2006, 12, 348-353.	30.7	416
23	Side effects of retroviral gene transfer into hematopoietic stem cells. Blood, 2003, 101, 2099-2113.	1.4	399
24	Decoding the regulatory landscape of medulloblastoma using DNA methylation sequencing. Nature, 2014, 510, 537-541.	27.8	378
25	Cell-culture assays reveal the importance of retroviral vector design for insertional genotoxicity. Blood, 2006, 108, 2545-2553.	1.4	308
26	Deep learning outperformed 136 of 157 dermatologists in a head-to-head dermoscopic melanoma image classification task. European Journal of Cancer, 2019, 113, 47-54.	2.8	300
27	Integrative Genomic Analyses Reveal an Androgen-Driven Somatic Alteration Landscape in Early-Onset Prostate Cancer. Cancer Cell, 2013, 23, 159-170.	16.8	292
28	High-resolution insertion-site analysis by linear amplificationâ€"mediated PCR (LAM-PCR). Nature Methods, 2007, 4, 1051-1057.	19.0	281
29	Safety, reactogenicity, and immunogenicity of homologous and heterologous prime-boost immunisation with ChAdOx1 nCoV-19 and BNT162b2: a prospective cohort study. Lancet Respiratory Medicine,the, 2021, 9, 1255-1265.	10.7	279
30	Skin Cancer Classification Using Convolutional Neural Networks: Systematic Review. Journal of Medical Internet Research, 2018, 20, e11936.	4.3	277
31	Distinct Types of Tumor-Initiating Cells Form Human Colon Cancer Tumors and Metastases. Cell Stem Cell, 2011, 9, 357-365.	11.1	276
32	Therapeutic gene causing lymphoma. Nature, 2006, 440, 1123-1123.	27.8	263
33	Phase 2 gene therapy trial of an anti-HIV ribozyme in autologous CD34+ cells. Nature Medicine, 2009, 15, 285-292.	30.7	259
34	CTLA-4 and PD-L1 Checkpoint Blockade Enhances Oncolytic Measles Virus Therapy. Molecular Therapy, 2014, 22, 1949-1959.	8.2	249
35	Hot spots of retroviral integration in human CD34+ hematopoietic cells. Blood, 2007, 110, 1770-1778.	1.4	248
36	Distinct Genomic Integration of MLV and SIV Vectors in Primate Hematopoietic Stem and Progenitor Cells. PLoS Biology, 2004, 2, e423.	5.6	243

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37	A Hybrid Vector for Ligand-Directed Tumor Targeting and Molecular Imaging. Cell, 2006, 125, 385-398.	28.9	242
38	BRAF Inhibition in Refractory Hairy-Cell Leukemia. New England Journal of Medicine, 2012, 366, 2038-2040.	27.0	240
39	TALEN-based Gene Correction for Epidermolysis Bullosa. Molecular Therapy, 2013, 21, 1151-1159.	8.2	232
40	Oncogenesis Following Delivery of a Nonprimate Lentiviral Gene Therapy Vector to Fetal and Neonatal Mice. Molecular Therapy, 2005, 12, 763-771.	8.2	224
41	Vector integration is nonrandom and clustered and influences the fate of lymphopoiesis in SCID-X1 gene therapy. Journal of Clinical Investigation, 2007, 117, 2225-2232.	8.2	221
42	Polyclonal long-term repopulating stem cell clones in a primate model. Blood, 2002, 100, 2737-2743.	1.4	219
43	Adeno-Associated Virus Vector Genomes Persist as Episomal Chromatin in Primate Muscle. Journal of Virology, 2008, 82, 7875-7885.	3.4	213
44	Deep neural networks are superior to dermatologists in melanoma image classification. European Journal of Cancer, 2019, 119, 11-17.	2.8	212
45	Chance or necessity? Insertional Mutagenesis in Gene Therapy and Its Consequences. Molecular Therapy, 2004, 9, 5-13.	8.2	211
46	Lentiviral vector common integration sites in preclinical models and a clinical trial reflect a benign integration bias and not oncogenic selection. Blood, 2011, 117, 5332-5339.	1.4	201
47	Integrative genomic and transcriptomic analysis of leiomyosarcoma. Nature Communications, 2018, 9, 144.	12.8	197
48	Superior skin cancer classification by the combination of human and artificial intelligence. European Journal of Cancer, 2019, 120, 114-121.	2.8	197
49	A convolutional neural network trained with dermoscopic images performed on par with 145 dermatologists in a clinical melanoma image classification task. European Journal of Cancer, 2019, 111, 148-154.	2.8	197
50	Molecular Evolution of Early-Onset Prostate Cancer Identifies Molecular Risk Markers and Clinical Trajectories. Cancer Cell, 2018, 34, 996-1011.e8.	16.8	190
51	NRG1 Fusions in KRAS Wild-Type Pancreatic Cancer. Cancer Discovery, 2018, 8, 1087-1095.	9.4	189
52	Lentiviral vector transduction of NOD/SCID repopulating cells results in multiple vector integrations per transduced cell: risk of insertional mutagenesis. Blood, 2003, 101, 1284-1289.	1.4	188
53	Deep learning outperformed 11 pathologists in the classification of histopathological melanoma images. European Journal of Cancer, 2019, 118, 91-96.	2.8	188
54	InÂVivo Tracking of Human Hematopoiesis Reveals Patterns of Clonal Dynamics during Early and Steady-State Reconstitution Phases. Cell Stem Cell, 2016, 19, 107-119.	11.1	187

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55	Gammaretrovirus-mediated correction of SCID-X1 is associated with skewed vector integration site distribution in vivo. Journal of Clinical Investigation, 2007, 117, 2241-2249.	8.2	185
56	Leukemias following retroviral transfer of multidrug resistance 1 (MDR1) are driven by combinatorial insertional mutagenesis. Blood, 2005, 105, 4235-4246.	1.4	178
57	Comprehensive genomic access to vector integration in clinical gene therapy. Nature Medicine, 2009, 15, 1431-1436.	30.7	173
58	Evaluation of TCR Gene Editing Achieved by TALENs, CRISPR/Cas9, and megaTAL Nucleases. Molecular Therapy, 2016, 24, 570-581.	8.2	168
59	Bone marrow-derived cells contribute to infarct remodelling. Cardiovascular Research, 2006, 71, 661-671.	3.8	167
60	Stem Cell Collection and Gene Transfer in Fanconi Anemia. Molecular Therapy, 2007, 15, 211-219.	8.2	166
61	Genome-wide high-throughput integrome analyses by nrLAM-PCR and next-generation sequencing. Nature Protocols, 2010, 5, 1379-1395.	12.0	161
62	Pathologist-level classification of histopathological melanoma images with deep neural networks. European Journal of Cancer, 2019, 115, 79-83.	2.8	156
63	Detection and Direct Genomic Sequencing of Multiple Rare Unknown Flanking DNA in Highly Complex Samples. Human Gene Therapy, 2001, 12, 743-749.	2.7	151
64	A largely random AAV integration profile after LPLD gene therapy. Nature Medicine, 2013, 19, 889-891.	30.7	150
65	Uncovering and Dissecting the Genotoxicity of Self-inactivating Lentiviral Vectors In Vivo. Molecular Therapy, 2014, 22, 774-785.	8.2	142
66	Clonality analysis after retroviral-mediated gene transfer to CD34+ cells from the cord blood of ADA-deficient SCID neonates. Nature Medicine, 2003, 9, 463-468.	30.7	134
67	Systematic outperformance of 112 dermatologists in multiclass skin cancer image classification by convolutional neural networks. European Journal of Cancer, 2019, 119, 57-65.	2.8	134
68	Precision oncology based on omics data: The NCT Heidelberg experience. International Journal of Cancer, 2017, 141, 877-886.	5.1	133
69	Acute myeloid leukemia is associated with retroviral gene transfer to hematopoietic progenitor cells in a rhesus macaque. Blood, 2006, 107, 3865-3867.	1.4	129
70	Failure of SCID-X1 gene therapy in older patients. Blood, 2005, 105, 4255-4257.	1.4	128
71	Comprehensive Genomic and Transcriptomic Analysis for Guiding Therapeutic Decisions in Patients with Rare Cancers. Cancer Discovery, 2021, 11, 2780-2795.	9.4	125
72	A time-resolved proteomic and prognostic map of COVID-19. Cell Systems, 2021, 12, 780-794.e7.	6.2	125

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73	Drug-perturbation-based stratification of blood cancer. Journal of Clinical Investigation, 2017, 128, 427-445.	8.2	124
74	Hepatocyteâ€targeted expression by integraseâ€defective lentiviral vectors induces antigenâ€specific tolerance in mice with low genotoxic risk. Hepatology, 2011, 53, 1696-1707.	7.3	123
75	High-resolution analysis of the human T-cell receptor repertoire. Nature Communications, 2015, 6, 8081.	12.8	123
76	Comparison of Three Retroviral Vector Systems for Transduction of Nonobese Diabetic/Severe Combined Immunodeficiency Mice Repopulating Human CD34+Cord Blood Cells. Human Gene Therapy, 2003, 14, 509-519.	2.7	118
77	Skin cancer classification via convolutional neural networks: systematic review of studies involving human experts. European Journal of Cancer, 2021, 156, 202-216.	2.8	115
78	Methylguanine methyltransferaseâ€“mediated in vivo selection and chemoprotection of allogeneic stem cells in a large-animal model. Journal of Clinical Investigation, 2003, 112, 1581-1588.	8.2	109
79	Comparing artificial intelligence algorithms to 157 German dermatologists: the melanoma classification benchmark. European Journal of Cancer, 2019, 111, 30-37.	2.8	104
80	Tracking genetically engineered lymphocytes long-term reveals the dynamics of T cell immunological memory. Science Translational Medicine, 2015, 7, 317ra198.	12.4	102
81	Lentiviral Hematopoietic Cell Gene Therapy for X-Linked Adrenoleukodystrophy. Methods in Enzymology, 2012, 507, 187-198.	1.0	100
82	BRAF inhibition in hairy cell leukemia with low-dose vemurafenib. Blood, 2016, 127, 2847-2855.	1.4	100
83	Thymus-autonomous T cell development in the absence of progenitor import. Journal of Experimental Medicine, 2012, 209, 1409-1417.	8.5	99
84	Artificial riboswitches for gene expression and replication control of DNA and RNA viruses. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E554-62.	7.1	98
85	Lentiviral vectors pseudotyped with murine ecotropic envelope: Increased biosafety and convenience in preclinical research. Experimental Hematology, 2006, 34, 588-592.	0.4	96
86	Integration profile of retroviral vector in gene therapy treated patients is cellâ€specific according to gene expression and chromatin conformation of target cell. EMBO Molecular Medicine, 2011, 3, 89-101.	6.9	95
87	Retroviral Gene Therapy for X-linked Chronic Granulomatous Disease: Results From Phase I/II Trial. Molecular Therapy, 2011, 19, 2092-2101.	8.2	95
88	Long-Term Clinical and Molecular Follow-up of Large Animals Receiving Retrovirally Transduced Stem and Progenitor Cells: No Progression to Clonal Hematopoiesis or Leukemia. Molecular Therapy, 2004, 9, 389-395.	8.2	94
89	Preclinical Evaluation of Efficacy and Safety of an Improved Lentiviral Vector for the Treatment of β-Thalassemia and Sickle Cell Disease. Current Gene Therapy, 2014, 15, 64-81.	2.0	94
90	Fanconi Anemia Gene Editing by the CRISPR/Cas9 System. Human Gene Therapy, 2015, 26, 114-126.	2.7	94

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91	Recurrent CDKN1B (p27) mutations in hairy cell leukemia. Blood, 2015, 126, 1005-1008.	1.4	88
92	Targeted BiTE Expression by an Oncolytic Vector Augments Therapeutic Efficacy Against Solid Tumors. Clinical Cancer Research, 2018, 24, 2128-2137.	7.0	88
93	MicroRNA-sensitive Oncolytic Measles Viruses for Cancer-specific Vector Tropism. Molecular Therapy, 2011, 19, 1097-1106.	8.2	87
94	Extensive Methylation of Promoter Sequences Silences Lentiviral Transgene Expression During Stem Cell Differentiation In Vivo. Molecular Therapy, 2012, 20, 1014-1021.	8.2	87
95	Genome-wide mapping of foamy virus vector integrations into a human cell line. Journal of General Virology, 2006, 87, 1339-1347.	2.9	87
96	Lentiviral vectorâ€“based insertional mutagenesis identifies genes associated with liver cancer. Nature Methods, 2013, 10, 155-161.	19.0	86
97	Granulocyte-Macrophage Colony-Stimulating Factor-Armed Oncolytic Measles Virus Is an Effective Therapeutic Cancer Vaccine. Human Gene Therapy, 2013, 24, 644-654.	2.7	83
98	Integration Frequency and Intermolecular Recombination of rAAV Vectors in Non-human Primate Skeletal Muscle and Liver. Molecular Therapy, 2012, 20, 1177-1186.	8.2	79
99	Studying the pathophysiology of coronavirus disease 2019: a protocol for the Berlin prospective COVID-19 patient cohort (Pa-COVID-19). Infection, 2020, 48, 619-626.	4.7	79
100	Selective survival of peripheral blood lymphocytes in children with HIV-1 following delivery of an anti-HIV gene to bone marrow CD34+ cells. Molecular Therapy, 2005, 12, 77-86.	8.2	77
101	Clonal evidence for the transduction of CD34+ cells with lymphomyeloid differentiation potential and self-renewal capacity in the SCID-X1 gene therapy trial. Blood, 2005, 105, 2699-2706.	1.4	75
102	Pharmacologically regulated in vivo selection in a large animal. Blood, 2002, 100, 2026-2031.	1.4	72
103	Preclinical Safety and Efficacy of Human CD34+ Cells Transduced With Lentiviral Vector for the Treatment of Wiskott-Aldrich Syndrome. Molecular Therapy, 2013, 21, 175-184.	8.2	72
104	Shifting cancer care towards Multidisciplinarity: the cancer center certification program of the German cancer society. BMC Cancer, 2017, 17, 850.	2.6	68
105	Continued Response Off Treatment After BRAF Inhibition in Refractory Hairy Cell Leukemia. Journal of Clinical Oncology, 2013, 31, e300-e303.	1.6	67
106	Delayed Antibody and T-Cell Response to BNT162b2 Vaccination in the Elderly, Germany. Emerging Infectious Diseases, 2021, 27, 2174-2178.	4.3	67
107	Stable Human FIX Expression After 0.9G Intrauterine Gene Transfer of Self-complementary Adeno-associated Viral Vector 5 and 8 in Macaques. Molecular Therapy, 2011, 19, 1950-1960.	8.2	66
108	Defective homologous recombination DNA repair as therapeutic target in advanced chordoma. Nature Communications, 2019, 10, 1635.	12.8	64

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109	Impact of neo-adjuvant Sorafenib treatment on liver transplantation in HCC patients - a prospective, randomized, double-blind, phase III trial. BMC Cancer, 2015, 15, 392.	2.6	61
110	Oncolytic measles virus encoding interleukin-12 mediates potent antitumor effects through T cell activation. OncoImmunology, 2017, 6, e1285992.	4.6	60
111	Ex vivo treatment of proliferating human cord blood stem cells with stroma-derived factorâ€“1 enhances their ability to engraft NOD/SCID mice. Blood, 2002, 99, 3454-3457.	1.4	58
112	Mutations in ROGDI Cause KohlschÃ¼tter-TÃ¶nz Syndrome. American Journal of Human Genetics, 2012, 90, 701-707.	6.2	58
113	Integration of genomics and histology revises diagnosis and enables effective therapy of refractory cancer of unknown primary with PDL1 amplification. Journal of Physical Education and Sports Management, 2016, 2, a001180.	1.2	57
114	Combining CNN-based histologic whole slide image analysis and patient data to improve skin cancer classification. European Journal of Cancer, 2021, 149, 94-101.	2.8	57
115	The German Corona Consensus Dataset (GECCO): a standardized dataset for COVID-19 research in university medicine and beyond. BMC Medical Informatics and Decision Making, 2020, 20, 341.	3.0	54
116	The influence of low molecular weight heparin medication on plasma DNA in pregnant women. Prenatal Diagnosis, 2015, 35, 1155-1157.	2.3	53
117	Cooperation of BRAFF595L and mutant HRAS in histiocytic sarcoma provides new insights into oncogenic BRAF signaling. Leukemia, 2016, 30, 937-946.	7.2	52
118	Lentiviral Vector Integration Profiles Differ in Rodent Postmitotic Tissues. Molecular Therapy, 2011, 19, 703-710.	8.2	51
119	Safety and Liver Transduction Efficacy of rAAV5-cohPBGDin Nonhuman Primates: A Potential Therapy for Acute Intermittent Porphyria. Human Gene Therapy, 2013, 24, 1007-1017.	2.7	50
120	Insertion Sites in Engrafted Cells Cluster Within a Limited Repertoire of Genomic Areas After Gammaretroviral Vector Gene Therapy. Molecular Therapy, 2011, 19, 2031-2039.	8.2	48
121	In Vivo Gene Transfer into Adult Stem Cells in Unconditioned Mice by in Situ Delivery of a Lentiviral Vector. Molecular Therapy, 2006, 14, 514-524.	8.2	46
122	Stem Cell Gene Therapy for Fanconi Anemia: Report from the 1st International Fanconi Anemia Gene Therapy Working Group Meeting. Molecular Therapy, 2011, 19, 1193-1198.	8.2	45
123	Artificial Intelligence and Its Effect on Dermatologistsâ€™ Accuracy in Dermoscopic Melanoma Image Classification: Web-Based Survey Study. Journal of Medical Internet Research, 2020, 22, e18091.	4.3	45
124	Teledermatology: Comparison of Store-and-Forward Versus Live Interactive Video Conferencing. Journal of Medical Internet Research, 2018, 20, e11871.	4.3	44
125	Bioinformatic Clonality Analysis of Next-Generation Sequencing-Derived Viral Vector Integration Sites. Human Gene Therapy Methods, 2012, 23, 111-118.	2.1	43
126	Integration-deficient Lentiviral Vectors Expressing Codon-optimized R338L Human FIX Restore Normal Hemostasis in Hemophilia B Mice. Molecular Therapy, 2014, 22, 567-574.	8.2	43

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127	Retroviral Vectors: Post Entry Events and Genomic Alterations. Viruses, 2011, 3, 429-455.	3.3	42
128	Targeted resequencing for analysis of clonal composition of recurrent gene mutations in chronic lymphocytic leukaemia. British Journal of Haematology, 2013, 163, 496-500.	2.5	42
129	Interim Results from a Phase 1/2 Clinical Study of Lentiglobin Gene Therapy for Severe Sickle Cell Disease. Blood, 2016, 128, 1176-1176.	1.4	42
130	Explainable artificial intelligenceÂin skin cancer recognition: A systematic review. European Journal of Cancer, 2022, 167, 54-69.	2.8	42
131	Retroviral vectors for gene therapy. Future Microbiology, 2010, 5, 1507-1523.	2.0	41
132	Long-Term Persistence of Canine Hematopoietic Cells Genetically Marked by Retrovirus Vectors. Human Gene Therapy, 1996, 7, 89-96.	2.7	40
133	Correction of Murine SCID-X1 by Lentiviral Gene Therapy Using a Codon-optimized IL2RG Gene and Minimal Pretransplant Conditioning. Molecular Therapy, 2011, 19, 1867-1877.	8.2	39
134	High-Definition Mapping of Retroviral Integration Sites Defines the Fate of Allogeneic T Cells After Donor Lymphocyte Infusion. PLoS ONE, 2010, 5, e15688.	2.5	39
135	Lentivirus-induced â€˜Smartâ€™ dendritic cells: Pharmacodynamics and GMP-compliant production for immunotherapy against TRP2-positive melanoma. Gene Therapy, 2015, 22, 707-720.	4.5	37
136	Deep learning approach to predict lymph node metastasis directly from primary tumour histology in prostate cancer. BJU International, 2021, 128, 352-360.	2.5	37
137	Succession of transiently active tumorâ€initiating cell clones in human pancreatic cancer xenografts. EMBO Molecular Medicine, 2017, 9, 918-932.	6.9	36
138	Hidden Variables in Deep Learning Digital Pathology and Their Potential to Cause Batch Effects: Prediction Model Study. Journal of Medical Internet Research, 2021, 23, e23436.	4.3	36
139	Growth of hodgkin cell lines in severely combined immunodeficient mice. International Journal of Cancer, 1992, 52, 887-891.	5.1	34
140	Chemovirotherapy of Malignant Melanoma with a Targeted and Armed Oncolytic Measles Virus. Journal of Investigative Dermatology, 2013, 133, 1034-1042.	0.7	34
141	A benchmark for neural network robustness in skin cancer classification. European Journal of Cancer, 2021, 155, 191-199.	2.8	34
142	Efficient marking of human cells with rapid but transient repopulating activity in autografted recipients. Blood, 2005, 106, 893-898.	1.4	33
143	Mapping the precision of genome editing. Nature Biotechnology, 2015, 33, 150-152.	17.5	33
144	Prediction of melanoma evolution in melanocytic nevi via artificial intelligence: A call for prospective data. European Journal of Cancer, 2019, 119, 30-34.	2.8	33

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145	Lentivirus-mediated Reprogramming of Somatic Cells in the Absence of Transgenic Transcription Factors. Molecular Therapy, 2010, 18, 2139-2145.	8.2	32
146	Genome-wide Specificity of Highly Efficient TALENs and CRISPR/Cas9 for T Cell Receptor Modification. Molecular Therapy - Methods and Clinical Development, 2017, 4, 213-224.	4.1	32
147	Robustness of convolutional neural networks in recognition of pigmented skin lesions. European Journal of Cancer, 2021, 145, 81-91.	2.8	32
148	Deep learning can predict lymph node status directly from histology in colorectal cancer. European Journal of Cancer, 2021, 157, 464-473.	2.8	32
149	Genetic marking as an approach to studying in vivo hematopoiesis: progress in the non-human primate model. Oncogene, 2002, 21, 3274-3283.	5.9	30
150	The Contained Self-Reactive Peripheral T Cell Repertoire: Size, Diversity, and Cellular Composition. Journal of Immunology, 2015, 195, 2067-2079.	0.8	30
151	Genetic subclone architecture of tumor clone-initiating cells in colorectal cancer. Journal of Experimental Medicine, 2017, 214, 2073-2088.	8.5	30
152	Mutant KIT as imatinib-sensitive target in metastatic sinonasal carcinoma. Annals of Oncology, 2017, 28, 142-148.	1.2	30
153	Targeting Fibroblast Growth Factor Receptor 1 for Treatment of Soft-Tissue Sarcoma. Clinical Cancer Research, 2017, 23, 962-973.	7.0	29
154	Real-Time Definition of Non-Randomness in the Distribution of Genomic Events. PLoS ONE, 2007, 2, e570.	2.5	29
155	A Skin Cancer Prevention Facial-Aging Mobile App for Secondary Schools in Brazil: Appearance-Focused Interventional Study. JMIR MHealth and UHealth, 2018, 6, e60.	3.7	29
156	Parallel assessment of globin lentiviral transfer in induced pluripotent stem cells and adult hematopoietic stem cells derived from the same transplanted β^{2}-thalassemia patient. Stem Cells, 2013, 31, 1785-1794.	3.2	28
157	Outcomes of Gene Therapy for Severe Sickle Disease and Beta-Thalassemia Major Via Transplantation of Autologous Hematopoietic Stem Cells Transduced Ex Vivo with a Lentiviral Beta AT87Q-Globin Vector. Blood, 2015, 126, 202-202.	1.4	28
158	Enhanced Control of Oncolytic Measles Virus Using MicroRNA Target Sites. Molecular Therapy - Oncolytics, 2018, 9, 30-40.	4.4	27
159	Clinical and virological characteristics of hospitalised COVID-19 patients in a German tertiary care centre during the first wave of the SARS-CoV-2 pandemic: a prospective observational study. Infection, 2021, 49, 703-714.	4.7	27
160	Patient-derived xenografts of gastrointestinal cancers are susceptible to rapid and delayed B-lymphoproliferation. International Journal of Cancer, 2017, 140, 1356-1363.	5.1	26
161	Enhanced classifier training to improve precision of a convolutional neural network to identify images of skin lesions. PLoS ONE, 2019, 14, e0218713.	2.5	26
162	Common clonal origin of conventional T cells and induced regulatory T cells in breast cancer patients. Nature Communications, 2021, 12, 1119.	12.8	26

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163	Efficient Serum-Free Retroviral Gene Transfer into Primitive Human Hematopoietic Progenitor Cells by a Defined, High-Titer, Nonconcentrated Vector-Containing Medium. Human Gene Therapy, 1998, 9, 771-778.	2.7	25
164	A Model for the Detection of Clonality in Marked Hematopoietic Stem Cells. Annals of the New York Academy of Sciences, 2001, 938, 146-156.	3.8	25
165	Importance of Murine Study Design for Testing Toxicity of Retroviral Vectors in Support of Phase I Trials. Molecular Therapy, 2007, 15, 782-791.	8.2	25
166	TCR sequences and tissue distribution discriminate the subsets of naÃ¨ve and activated/memory Treg cells in mice. European Journal of Immunology, 2015, 45, 1524-1534.	2.9	25
167	Molecular evidence of lentiviral vector-mediated gene transfer into human self-renewing, multi-potent, long-term NOD/SCID repopulating hematopoietic cells. Molecular Therapy, 2002, 6, 615-26.	8.2	25
168	Integration of retroviral vectors. Current Opinion in Immunology, 2012, 24, 592-597.	5.5	24
169	Long-term health sequelae and quality of life at least 6Âmonths after infection with SARS-CoV-2: design and rationale of the COVIDOM-study as part of the NAPKON population-based cohort platform (POP). Infection, 2021, 49, 1277-1287.	4.7	24
170	Efficient Gene Transfer in Primitive CD34⁺/CD38^{lo}Human Bone Marrow Cells Reselected after Long-Term Exposure to GALV-Pseudotyped Retroviral Vector. Human Gene Therapy, 1997, 8, 2079-2086.	2.7	23
171	Low-dose total body irradiation causes clonal fluctuation of primate hematopoietic stem and progenitor cells. Blood, 2005, 105, 1010-1015.	1.4	23
172	Ultramicroscopy as a novel tool to unravel the tropism of AAV gene therapy vectors in the brain. Scientific Reports, 2016, 6, 28272.	3.3	23
173	Overdiagnosis of melanoma â€“ causes, consequences and solutions. JDDG - Journal of the German Society of Dermatology, 2020, 18, 1236-1243.	0.8	23
174	Lentiviral-Mediated Gene Therapy in Fanconi Anemia-A Mice Reveals Long-Term Engraftment and Continuous Turnover of Corrected HSCs. Current Gene Therapy, 2015, 15, 550-562.	2.0	23
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