Rasmus O Bak

List of Publications by Year
in descending order

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57 papers	5,878 citations	172207 29 h-index	174990 52 g-index
68 all docs	68 docs citations	68 times ranked	8727 citing authors

#	Article	IF	Citations
1	CRISPR/Cas-Based Gene Editing Strategies for DOCK8 Immunodeficiency Syndrome. Frontiers in Genome Editing, 2022, 4, 793010.	2.7	2
2	TLR2 and TLR7 mediate distinct immunopathological and antiviral plasmacytoid dendritic cell responses to SARSâ€CoVâ€2 infection. EMBO Journal, 2022, 41, e109622.	3.5	46
3	A truncated reverse transcriptase enhances prime editing by split AAV vectors. Molecular Therapy, 2022, 30, 2942-2951.	3.7	37
4	Genome editing of donor-derived T-cells to generate allogenic chimeric antigen receptor-modified T cells: Optimizing Î±Î² T cell-depleted haploidentical hematopoietic stem cell transplantation. Haematologica, 2021, 106, 847-858.	1.7	46
5	Targeted Knockout of the Vegfa Gene in the Retina by Subretinal Injection of RNP Complexes Containing Cas9 Protein and Modified sgRNAs. Molecular Therapy, 2021, 29, 191-207.	3.7	24
6	Gene replacement of Î±-globin with Î²-globin restores hemoglobin balance in Î²-thalassemia-derived hematopoietic stem and progenitor cells. Nature Medicine, 2021, 27, 677-687.	15.2	51
7	Development of Î²-globin gene correction in human hematopoietic stem cells as a potential durable treatment for sickle cell disease. Science Translational Medicine, 2021, 13, .	5.8	82
8	Targeted regulation of transcription in primary cells using CRISPRa and CRISPRi. Genome Research, 2021, 31, 2120-2130.	2.4	29
9	Ascorbic acid supports ex vivo generation of plasmacytoid dendritic cells from circulating hematopoietic stem cells. ELife, 2021, 10, .	2.8	8
10	STEEP mediates STING ER exit and activation of signaling. Nature Immunology, 2020, 21, 868-879.	7.0	82
11	Human genome-edited hematopoietic stem cells phenotypically correct Mucopolysaccharidosis type I. Nature Communications, 2019, 10, 4045.	5.8	88
12	CRISPR/Cas9 Genome Engineering in Engraftable Human Brain-Derived Neural Stem Cells. IScience, 2019, 15, 524-535.	1.9	27
13	The Potential of CRISPR/Cas9 in Hematotherapy. Stem Cells and Development, 2019, 28, 710-711.	1.1	0
14	Highly Efficient and Marker-free Genome Editing of Human Pluripotent Stem Cells by CRISPR-Cas9 RNP and AAV6 Donor-Mediated Homologous Recombination. Cell Stem Cell, 2019, 24, 821-828.e5.	5.2	135
15	Electroporation-Based CRISPR/Cas9 Gene Editing Using Cas9 Protein and Chemically Modified sgRNAs. Methods in Molecular Biology, 2019, 1961, 127-134.	0.4	21
16	Therapeutic gene editing in haematological disorders with <scp>CRISPR</scp>/Cas9. British Journal of Haematology, 2019, 185, 821-835.	1.2	32
17	CRISPR/Cas9 genome editing in human hematopoietic stem cells. Nature Protocols, 2018, 13, 358-376.	5.5	240
18	Time-Restricted PiggyBac DNA Transposition by Transposase Protein Delivery Using Lentivirus-Derived Nanoparticles. Molecular Therapy - Nucleic Acids, 2018, 11, 253-262.	2.3	12

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19	Enhanced Tailored MicroRNA Sponge Activity of RNA Pol II-Transcribed TuD Hairpins Relative to Ectopically Expressed ciRS7-Derived circRNAs. Molecular Therapy - Nucleic Acids, 2018, 13, 365-375.	2.3	10
20	Interferon priming is essential for human CD34+ cell-derived plasmacytoid dendritic cell maturation and function. Nature Communications, 2018, 9, 3525.	5.8	37
21	A high-fidelity Cas9 mutant delivered as a ribonucleoprotein complex enables efficient gene editing in human hematopoietic stem and progenitor cells. Nature Medicine, 2018, 24, 1216-1224.	15.2	573
22	Global Transcriptional Response to CRISPR/Cas9-AAV6-Based Genome Editing in CD34+ Hematopoietic Stem and Progenitor Cells. Molecular Therapy, 2018, 26, 2431-2442.	3.7	97
23	Improved Lentiviral Gene Delivery to Mouse Liver by Hydrodynamic Vector Injection through Tail Vein. Molecular Therapy - Nucleic Acids, 2018, 12, 672-683.	2.3	22
24	Priming Human Repopulating Hematopoietic Stem and Progenitor Cells for Cas9/sgRNA Gene Targeting. Molecular Therapy - Nucleic Acids, 2018, 12, 89-104.	2.3	84
25	Gene Editing on Center Stage. Trends in Genetics, 2018, 34, 600-611.	2.9	117
26	Improved microRNA suppression by WPRE-linked tough decoy microRNA sponges. Rna, 2017, 23, 1247-1258.	1.6	11
27	CRISPR-Mediated Integration of Large Gene Cassettes Using AAV Donor Vectors. Cell Reports, 2017, 20, 750-756.	2.9	98
28	Multiplexed genetic engineering of human hematopoietic stem and progenitor cells using CRISPR/Cas9 and AAV6. ELife, 2017, 6, .	2.8	94
29	43. CRISPR/Cas9 and rAAV6-Mediated Targeted Integration at the CCR5 Locus in Hematopoietic Stem and Progenitor Cells. Molecular Therapy, 2016, 24, S19.	3.7	0
30	127. Lentiviral Protein Transduction for Tailored Genome Editing and Site-Directed Gene Insertion. Molecular Therapy, 2016, 24, S52.	3.7	0
31	533. Genomic Excision of PiggyBac Transposon Cassettes by Lentiviral Protein Transduction of GagPol-Fused, Excision-Only PiggyBac Transposase. Molecular Therapy, 2016, 24, S213.	3.7	0
32	39. FACS-Based Enrichment of a Highly Purified HBB-Targeted Hematopoietic Stem and Progenitor Cell Population Using rAAV6 and CRISPR/Cas9. Molecular Therapy, 2016, 24, S17.	3.7	0
33	Genome editing by homologous recombination of human hematopoietic stem cells. Experimental Hematology, 2016, 44, S26.	0.2	0
34	CRISPR/Cas9 Î²-globin gene targeting in human haematopoietic stem cells. Nature, 2016, 539, 384-389.	13.7	709
35	Activation of proto-oncogenes by disruption of chromosome neighborhoods. Science, 2016, 351, 1454-1458.	6.0	880
36	Influenza A virus targets a cGAS-independent STING pathway that controls enveloped RNA viruses. Nature Communications, 2016, 7, 10680.	5.8	169

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37	Overexpression of microRNA-155 increases IL-21 mediated STAT3 signaling and IL-21 production in systemic lupus erythematosus. Arthritis Research and Therapy, 2015, 17, 154.	1.6	52
38	Chemically modified guide RNAs enhance CRISPR-Cas genome editing in human primary cells. Nature Biotechnology, 2015, 33, 985-989.	9.4	882
39	DNA transposition by protein transduction of the piggyBac transposase from lentiviral Gag precursors. Nucleic Acids Research, 2014, 42, e28-e28.	6.5	28
40	<scp>miRNA</scp>Âsponges:ÂsoakingÂupÂ<scp>miRNAs</scp> for regulation of gene expression. Wiley Interdisciplinary Reviews RNA, 2014, 5, 317-333.	3.2	199
41	Targeted genome editing by lentiviral protein transduction of zinc-finger and TAL-effector nucleases. ELife, 2014, 3, e01911.	2.8	80
42	Potent microRNA suppression by RNA Pol II-transcribed â€˜Tough Decoyâ€™ inhibitors. Rna, 2013, 19, 280-293.	1.6	71
43	Managing MicroRNAs with Vector-Encoded Decoy-Type Inhibitors. Molecular Therapy, 2013, 21, 1478-1485.	3.7	56
44	Suppression of microRNAs by dual-targeting and clustered Tough Decoy inhibitors. RNA Biology, 2013, 10, 406-414.	1.5	40
45	A lentiviral vectorâ€based genetic sensor system for comparative analysis of permeability and activity of vitamin D3 analogues in xenotransplanted human skin. Experimental Dermatology, 2013, 22, 178-183.	1.4	4
46	IFI16 senses DNA forms of the lentiviral replication cycle and controls HIV-1 replication. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E4571-80.	3.3	285
47	Efficient Sleeping Beauty DNA Transposition From DNA Minicircles. Molecular Therapy - Nucleic Acids, 2013, 2, e74.	2.3	27
48	Inhibition of p53-Dependent, but Not p53-Independent, Cell Death by U19 Protein from Human Herpesvirus 6B. PLoS ONE, 2013, 8, e59223.	1.1	7
49	Regulation of pro-inflammatory cytokines TNFÎ± and IL24 by microRNA-203 in primary keratinocytes. Cytokine, 2012, 60, 741-748.	1.4	96
50	Lentiviral vectors for cutaneous RNA managing. Experimental Dermatology, 2012, 21, 162-170.	1.4	7
51	The Impact of cHS4 Insulators on DNA Transposon Vector Mobilization and Silencing in Retinal Pigment Epithelium Cells. PLoS ONE, 2012, 7, e48421.	1.1	22
52	Targeting of human interleukin-12B by small hairpin RNAs in xenografted psoriatic skin. BMC Dermatology, 2011, 11, 5.	2.1	20
53	A Sleeping Beauty DNA transposon-based genetic sensor for functional screening of vitamin D3 analogues. BMC Biotechnology, 2011, 11, 33.	1.7	10
54	Mobilization of DNA transposable elements from lentiviral vectors. Mobile Genetic Elements, 2011, 1, 139-144.	1.8	5

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55	Comparative Genomic Integration Profiling of Sleeping Beauty Transposons Mobilized With High Efficacy From Integrase-defective Lentiviral Vectors in Primary Human Cells. Molecular Therapy, 2011, 19, 1499-1510.	3.7	73
56	Regulation of cytokines by small RNAs during skin inflammation. Journal of Biomedical Science, 2010, 17, 53.	2.6	39
57	Therapeutic Genome Editing in Human Hematopoietic Stem and Progenitor Cells. , 0, , 301-312.		0