Dirk Heckl

List of Publications by Year
in descending order

60 papers	8,792 citations	257450 24 h-index	189892 50 g-index
64 all docs	64 docs citations	64 times ranked	18943 citing authors

#	Article	IF	Citations
1	Genome-Scale CRISPR-Cas9 Knockout Screening in Human Cells. Science, 2014, 343, 84-87.	12.6	4,210
2	Lenalidomide Causes Selective Degradation of IKZF1 and IKZF3 in Multiple Myeloma Cells. Science, 2014, 343, 301-305.	12.6	1,371
3	Single-cell RNA-seq reveals changes in cell cycle and differentiation programs upon aging of hematopoietic stem cells. Genome Research, 2015, 25, 1860-1872.	5.5	614
4	Generation of mouse models of myeloid malignancy with combinatorial genetic lesions using CRISPR-Cas9 genome editing. Nature Biotechnology, 2014, 32, 941-946.	17.5	477
5	Refined sgRNA efficacy prediction improves large- and small-scale CRISPRâ€“Cas9 applications. Nucleic Acids Research, 2018, 46, 1375-1385.	14.5	213
6	Core Circadian Clock Genes Regulate Leukemia Stem Cells in AML. Cell, 2016, 165, 303-316.	28.9	200
7	Gli1 + Mesenchymal Stromal Cells Are a Key Driver of Bone Marrow Fibrosis and an Important Cellular Therapeutic Target. Cell Stem Cell, 2017, 20, 785-800.e8.	11.1	195
8	Role of Casein Kinase 1A1 in the Biology and Targeted Therapy of del(5q) MDS. Cancer Cell, 2014, 26, 509-520.	16.8	158
9	Pharmacological GLI2 inhibition prevents myofibroblast cell-cycle progression and reduces kidney fibrosis. Journal of Clinical Investigation, 2015, 125, 2935-2951.	8.2	143
10	Depletion of Jak2V617F myeloproliferative neoplasm-propagating stem cells by interferon-Î± in a murine model of polycythemia vera. Blood, 2013, 121, 3692-3702.	1.4	140
11	The non-coding RNA landscape of human hematopoiesis and leukemia. Nature Communications, 2017, 8, 218.	12.8	131
12	Mechanisms of Progression of Myeloid Preleukemia to Transformed Myeloid Leukemia in Children with Down Syndrome. Cancer Cell, 2019, 36, 123-138.e10.	16.8	93
13	Endogenous Tumor Suppressor microRNA-193b: Therapeutic and Prognostic Value in Acute Myeloid Leukemia. Journal of Clinical Oncology, 2018, 36, 1007-1016.	1.6	67
14	Copy-number and gene dependency analysis reveals partial copy loss of wild-type SF3B1 as a novel cancer vulnerability. ELife, 2017, 6, .	6.0	66
15	Efficient generation of gene-modified human natural killer cells via alpharetroviral vectors. Journal of Molecular Medicine, 2016, 94, 83-93.	3.9	65
16	CRISPR-Cas9-induced t(11;19)/MLL-ENL translocations initiate leukemia in human hematopoietic progenitor cells in vivo. Haematologica, 2017, 102, 1558-1566.	3.5	60
17	LncRNA-SLC16A1-AS1 induces metabolic reprogramming during Bladder Cancer progression as target and co-activator of E2F1. Theranostics, 2020, 10, 9620-9643.	10.0	58
18	Jak2V617F and Dnmt3a loss cooperate to induce myelofibrosis through activated enhancer-driven inflammation. Blood, 2018, 132, 2707-2721.	1.4	56

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19	Lentiviral Vector Induced Insertional Haploinsufficiency of Ebf1 Causes Murine Leukemia. Molecular Therapy, 2012, 20, 1187-1195.	8.2	54
20	RNA-Binding Proteins in Acute Leukemias. International Journal of Molecular Sciences, 2020, 21, 3409.	4.1	36
21	Transient Retrovirus-Based CRISPR/Cas9 All-in-One Particles for Efficient, Targeted Gene Knockout. Molecular Therapy - Nucleic Acids, 2018, 13, 256-274.	5.1	34
22	Gene Therapy of Mpl Deficiency: Challenging Balance Between Leukemia and Pancytopenia. Molecular Therapy, 2010, 18, 343-352.	8.2	27
23	Lentiviral gene transfer regenerates hematopoietic stem cells in a mouse model for Mpl-deficient aplastic anemia. Blood, 2011, 117, 3737-3747.	1.4	27
24	Scavenger receptor class B member 1 (SCARB1) variants modulate hepatitis C virus replication cycle and viral load. Journal of Hepatology, 2017, 67, 237-245.	3.7	26
25	The Regulatory Roles of Long Noncoding RNAs in Acute Myeloid Leukemia. Frontiers in Oncology, 2019, 9, 570.	2.8	26
26	An optimized lentiviral vector system for conditional RNAi and efficient cloning of microRNA embedded short hairpin RNA libraries. Biomaterials, 2017, 139, 102-115.	11.4	24
27	The stem cellâ€“specific long noncoding RNA HOXA10-AS in the pathogenesis of KMT2A-rearranged leukemia. Blood Advances, 2019, 3, 4252-4263.	5.2	22
28	Molecular Mechanisms of the Genetic Predisposition to Acute Megakaryoblastic Leukemia in Infants With Down Syndrome. Frontiers in Oncology, 2021, 11, 636633.	2.8	22
29	The megakaryocytic transcription factor ARID3A suppresses leukemia pathogenesis. Blood, 2022, 139, 651-665.	1.4	20
30	Gene correction of HAX1 reversed Kostmann disease phenotype in patient-specific induced pluripotent stem cells. Blood Advances, 2017, 1, 903-914.	5.2	18
31	Functional characterization of BRCC3 mutations in acute myeloid leukemia with t(8;21)(q22;q22.1). Leukemia, 2020, 34, 404-415.	7.2	16
32	GATA1s exerts developmental stage-specific effects in human hematopoiesis. Haematologica, 2018, 103, e336-e340.	3.5	15
33	Alpharetroviral self-inactivating vectors produced by a superinfection-resistant stable packaging cell line allow genetic modification of primary human T lymphocytes. Biomaterials, 2016, 97, 97-109.	11.4	13
34	Effective drug treatment identified by in vivo screening in a transplantable patient-derived xenograft model of chronic myelomonocytic leukemia. Leukemia, 2020, 34, 2951-2963.	7.2	13
35	Toward Whole-Transcriptome Editing with CRISPR-Cas9. Molecular Cell, 2015, 58, 560-562.	9.7	11
36	Multiple genetically engineered humanized microenvironments in a single mouse. Biomaterials Research, 2016, 20, 19.	6.9	11

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37	Ectopic expression of HOXC6 blocks myeloid differentiation and predisposes to malignant transformation. Experimental Hematology, 2014, 42, 114-125.e4.	0.4	10
38	Comprehensive CRISPR-Cas9 screens identify genetic determinants of drug responsiveness in multiple myeloma. Blood Advances, 2021, 5, 2391-2402.	5.2	10
39	Meningioma 1 is indispensable for mixed lineage leukemia-rearranged acute myeloid leukemia. Haematologica, 2020, 105, 1294-1305.	3.5	8
40	Genetic barcoding systematically compares genes in del(5q) MDS and reveals a central role for CSNK1A1 in clonal expansion. Blood Advances, 2022, 6, 1780-1796.	5.2	7
41	Chromosome 21 gain is dispensable for transient myeloproliferative disorder driven by a novel GATA1 mutation. Leukemia, 2020, 34, 2503-2508.	7.2	4
42	Pooled Generation of Lentiviral Tetracycline-Regulated microRNA Embedded Short Hairpin RNA Libraries. Human Gene Therapy Methods, 2018, 29, 16-29.	2.1	3
43	MiR-193a Is a Negative Regulator of Hematopoietic Stem Cells and Promotes Anti-Leukemic Effects in Acute Myeloid Leukemia. Blood, 2018, 132, 2627-2627.	1.4	3
44	Combining LSD1 and JAK-STAT inhibition targets Down syndrome-associated myeloid leukemia at its core. Leukemia, 2022, 36, 1926-1930.	7.2	3
45	Long noncoding RNAs as regulators of pediatric acute myeloid leukemia. Molecular and Cellular Pediatrics, 2022, 9, .	1.8	3
46	Crispr-Cas9 Induced MLL-Rearrangements Cause Clonal Outgrowth in CD34+ Hematopoietic Stem Cells. Blood, 2015, 126, 165-165.	1.4	2
47	Inhibition of the CRBN-DDB1-CUL4-ROC1 E3 Ubiquitin Ligase Mediates the Anti-Proliferative and Immunomodulatory Properties of Lenalidomide. Blood, 2012, 120, 919-919.	1.4	1
48	Lenalidomide Promotes CRBN-Mediated Ubiquitination and Degradation of IKZF1 and IKZF3. Blood, 2013, 122, LBA-5-LBA-5.	1.4	1
49	Crispr-Cas9 Mediated Disruption of Dnmt3a in Jak V617F Hematopoietic Stem Cells Accelerates Disease Phenotype and Induces Lethal Myelofibrosis. Blood, 2016, 128, 794-794.	1.4	1
50	The miRNA-193 Family Is a Potent Tumor-Suppressor and a Biomarker for Poor Prognosis in Acute Myeloid Leukemia. Blood, 2016, 128, 1534-1534.	1.4	1
51	Modelling the Progression of a Preleukemic Stage to Overt Leukemia in Children with Down Syndrome. Blood, 2018, 132, 543-543.	1.4	1
52	Lentiviral Vector Induced Insertional Haploinsufficiency of Ebf1 Causes Leukemia in a Murine Bone Marrow Transplantation Model. Blood, 2011, 118, 671-671.	1.4	0
53	Retroviral Ectopic Expression of a Signaling-Defective Thrombopoietin Receptor (Mpl) Induces a Systemic Loss of Hematopoietic Stem Cells in Mice,. Blood, 2011, 118, 4175-4175.	1.4	0
54	Depletion of Jak2V617F MPN Stem Cells by IFNÎ± in a Murine Model of Polycythemia Vera. Blood, 2012, 120, 806-806.	1.4	0

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55	Critical Role Of Casein Kinase (Ck)1Î± Heterozygote Gene Inactivation In The Clonal Advantage Of Hematopoietic Stem Cells In Del(5q) MDS. Blood, 2013, 122, 98-98.	1.4	0
56	GATA1-Centered Genetic Network on Chromosome 21 Drives Down Syndrome Acute Megakaryoblastic Leukemia. Blood, 2014, 124, 4310-4310.	1.4	0
57	The Mir-193 Family Antagonizes Stem Cell Pathways and Is a Potent Tumor Suppressor in Childhood and Adult Acute Myeloid Leukemia. Blood, 2015, 126, 1244-1244.	1.4	0
58	Deconstructing the Clonal Advantage and Clonal Stability of 5q- Candidate Genes in Del(5q) MDS on a Single Cell Level. Blood, 2019, 134, 559-559.	1.4	0
59	Exome Sequencing of Relapsed Multiple Myeloma Combined with Pooled CRISPR/Cas9 Screens Identifies Gene Mutations Associated with Drug-Specific Resistance. Blood, 2019, 134, 809-809.	1.4	0
60	Characterization of a Novel JAK1 Pseudokinase Mutation in the First Case of Trisomy 21-Independent GATA1-Mutated Transient Abnormal Myelopoiesis. Blood, 2019, 134, 4208-4208.	1.4	0