

# Hartmut Geiger

## List of Publications by Year in descending order

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Version: 2024-02-01

84  
papers

5,220  
citations

159585

30  
h-index

91884

69  
g-index

87  
all docs

87  
docs citations

87  
times ranked

7978  
citing authors

#	ARTICLE	IF	CITATIONS
1	Aging of human hematopoietic stem cells is linked to changes in Cdc42 activity. <i>Haematologica</i> , 2022, 107, 393-402.	3.5	23
2	Autophagy in mesenchymal progenitors protects mice against bone marrow failure after severe intermittent stress. <i>Blood</i> , 2022, 139, 690-703.	1.4	8
3	Aging of intestinal stem cells. <i>Stem Cell Reports</i> , 2022, 17, 734-740.	4.8	23
4	Reduced adhesion of aged intestinal stem cells contributes to an accelerated clonal drift. <i>Life Science Alliance</i> , 2022, 5, e202201408.	2.8	2
5	A Limited Role for AMD3100 Induced Stem Cell Mobilization for Modulation of Thoracic Trauma Outcome. <i>Shock</i> , 2022, 57, 260-267.	2.1	1
6	Repolarization of HSC attenuates HSCs failure in Shwachmanâ€™Diamond syndrome. <i>Leukemia</i> , 2021, 35, 1751-1762.	7.2	5
7	Reconstructing Boolean network ensembles from single-cell data for unraveling dynamics in the aging of human hematopoietic stem cells. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 5321-5332.	4.1	24
8	A Wnt5a-Cdc42 axis controls aging and rejuvenation of hair-follicle stem cells. <i>Aging</i> , 2021, 13, 4778-4793.	3.1	11
9	Attrition of X Chromosome Inactivation in Aged Hematopoietic Stem Cells. <i>Stem Cell Reports</i> , 2021, 16, 708-716.	4.8	10
10	Inflammation rapidly recruits mammalian GMP and MDP from bone marrow into regional lymphatics. <i>ELife</i> , 2021, 10, .	6.0	5
11	KDM6A, a histone demethylase, regulates stress hematopoiesis and early B-cell differentiation. <i>Experimental Hematology</i> , 2021, 99, 32-43.e13.	0.4	7
12	Persistent JunB activation in fibroblasts disrupts stem cell niche interactions enforcing skin aging. <i>Cell Reports</i> , 2021, 36, 109634.	6.4	17
13	An aged bone marrow niche restrains rejuvenated hematopoietic stem cells. <i>Stem Cells</i> , 2021, 39, 1101-1106.	3.2	9
14	Cdc42â€Borg4â€Septin7 axis regulates HSC polarity and function. <i>EMBO Reports</i> , 2021, 22, e52931.	4.5	14
15	Septins in Stem Cells. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 801507.	3.7	3
16	The lifespan quantitative trait locus gene <i>Securin</i> controls hematopoietic progenitor cell function. <i>Haematologica</i> , 2020, 105, 317-324.	3.5	5
17	Latexin regulation by HMGB2 is required for hematopoietic stem cell maintenance. <i>Haematologica</i> , 2020, 105, 573-584.	3.5	19
18	FOXO activity adaptation safeguards the hematopoietic stem cell compartment in hyperglycemia. <i>Blood Advances</i> , 2020, 4, 5512-5526.	5.2	7

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19	Inhibition of Cdc42 activity extends lifespan and decreases circulating inflammatory cytokines in aged female C57BL/6 mice. <i>Aging Cell</i> , 2020, 19, e13208.	6.7	31
20	Loss of epigenetic polarity is a hallmark of hematopoietic stem cell aging. <i>Human Molecular Genetics</i> , 2020, 29, R248-R254.	2.9	12
21	Yap1-Scribble polarization is required for hematopoietic stem cell division and fate. <i>Blood</i> , 2020, 136, 1824-1836.	1.4	26
22	TLR4-dependent shaping of the wound site by MSCs accelerates wound healing. <i>EMBO Reports</i> , 2020, 21, e48777.	4.5	41
23	Immunological history governs human stem cell memory CD4 heterogeneity via the Wnt signaling pathway. <i>Nature Communications</i> , 2020, 11, 821.	12.8	25
24	Targeted methods for epigenetic age predictions in mice. <i>Scientific Reports</i> , 2020, 10, 22439.	3.3	14
25	Analysis of Aged Dysfunctional Intestinal Stem Cells. <i>Methods in Molecular Biology</i> , 2020, 2171, 41-52.	0.9	4
26	Hematopoietic Aging on Hematopoietic Stem Cell Activity. <i>Blood</i> , 2020, 136, SCI2-SCI2.	1.4	0
27	KRasG12D expression in the bone marrow vascular niche affects hematopoiesis with inflammatory signals. <i>Experimental Hematology</i> , 2019, 79, 3-15.e4.	0.4	9
28	Haematopoietic stem cells in perisinusoidal niches are protected from ageing. <i>Nature Cell Biology</i> , 2019, 21, 1309-1320.	10.3	88
29	HPRT and Purine Salvaging Are Critical for Hematopoietic Stem Cell Function. <i>Stem Cells</i> , 2019, 37, 1606-1614.	3.2	11
30	Hematopoietic Stem Cell Dynamics Are Regulated by Progenitor Demand: Lessons from a Quantitative Modeling Approach. <i>Stem Cells</i> , 2019, 37, 948-957.	3.2	11
31	Distinct Dynamics of Stem and Progenitor Cells in Blood of Polytraumatized Patients. <i>Shock</i> , 2019, 51, 430-438.	2.1	6
32	Lymphohematopoietic Stem Cells and Their Aging. , 2019, , 995-1009.		0
33	Towards Understanding & Uncovering New Key Players in T-Cell Development upon Aging. <i>Blood</i> , 2019, 134, 2482-2482.	1.4	0
34	Loss of DEK induces radioresistance of murine restricted hematopoietic progenitors. <i>Experimental Hematology</i> , 2018, 59, 40-50.e3.	0.4	9
35	Special section: Replication stress, a threat to the nuclear and mitochondrial genome. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2018, 808, 53-55.	1.0	0
36	Rho-inhibiting C2IN-C3 fusion toxin inhibits chemotactic recruitment of human monocytes ex vivo and in mice in vivo. <i>Archives of Toxicology</i> , 2018, 92, 323-336.	4.2	6

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37	LaminA/C regulates epigenetic and chromatin architecture changes upon aging of hematopoietic stem cells. <i>Genome Biology</i> , 2018, 19, 189.	8.8	66
38	Impaired immune surveillance accelerates accumulation of senescent cells and aging. <i>Nature Communications</i> , 2018, 9, 5435.	12.8	325
39	Aging alters the epigenetic asymmetry of HSC division. <i>PLoS Biology</i> , 2018, 16, e2003389.	5.6	95
40	Hematopoietic Stem Cell Rejuvenation: Aging Alters the Epigenetic Asymmetry of Stem Cell Divisions. <i>Clinical Lymphoma, Myeloma and Leukemia</i> , 2018, 18, S137-S138.	0.4	0
41	Chromosome integrity checkpoints in stem and progenitor cells: transitions upon differentiation, pathogenesis, and aging. <i>Cellular and Molecular Life Sciences</i> , 2018, 75, 3771-3779.	5.4	21
42	Lymphohematopoietic Stem Cells and Their Aging. , 2018, , 1-16.		0
43	Aged murine hematopoietic stem cells drive aging-associated immune remodeling. <i>Blood</i> , 2018, 132, 565-576.	1.4	69
44	Epigenetic age-predictor for mice based on three CpG sites. <i>ELife</i> , 2018, 7, .	6.0	54
45	Osteopontin attenuates aging-associated phenotypes of hematopoietic stem cells. <i>EMBO Journal</i> , 2017, 36, 840-853.	7.8	109
46	Limitations and challenges of genetic barcode quantification. <i>Scientific Reports</i> , 2017, 7, 43249.	3.3	43
47	Alpha-Ketoglutarate Curbs Differentiation and Induces Cell Death in Mesenchymal Stromal Precursors with Mitochondrial Dysfunction. <i>Stem Cells</i> , 2017, 35, 1704-1718.	3.2	25
48	Expression and Activity of the Small RhoGTPase Cdc42 in Blood Cells of Older Adults Are Associated With Age and Cardiovascular Disease. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2017, 72, 1196-1200.	3.6	20
49	Vitamin A-Retinoic Acid Signaling Regulates Hematopoietic Stem Cell Dormancy. <i>Cell</i> , 2017, 169, 807-823.e19.	28.9	339
50	Latexin Inactivation Enhances Survival and Long-Term Engraftment of Hematopoietic Stem Cells and Expands the Entire Hematopoietic System in Mice. <i>Stem Cell Reports</i> , 2017, 8, 991-1004.	4.8	21
51	Canonical Wnt Signaling Ameliorates Aging of Intestinal Stem Cells. <i>Cell Reports</i> , 2017, 18, 2608-2621.	6.4	172
52	Ubiquitination of hnRNPA1 by TRAF6 links chronic innate immune signaling with myelodysplasia. <i>Nature Immunology</i> , 2017, 18, 236-245.	14.5	85
53	Niche WNT5A regulates the actin cytoskeleton during regeneration of hematopoietic stem cells. <i>Journal of Experimental Medicine</i> , 2017, 214, 165-181.	8.5	41
54	Septin 6 regulates engraftment and lymphoid differentiation potential of murine long-term hematopoietic stem cells. <i>Experimental Hematology</i> , 2017, 55, 45-55.	0.4	7

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55	HSC Niche Biology and HSC Expansion Ex Vivo. Trends in Molecular Medicine, 2017, 23, 799-819.	6.7	120
56	RHOA GTPase Controls YAP-Mediated EREG Signaling in Small Intestinal Stem Cell Maintenance. Stem Cell Reports, 2017, 9, 1961-1975.	4.8	29
57	The Spindle Assembly Checkpoint Is Required for Hematopoietic Progenitor Cell Engraftment. Stem Cell Reports, 2017, 9, 1359-1368.	4.8	10
58	Rejuvenation of aged hematopoietic stem cells. Seminars in Hematology, 2017, 54, 51-55.	3.4	23
59	Balance your folate or the yin and yang of folate in hematopoiesis. Haematologica, 2017, 102, 1969-1970.	3.5	0
60	Aging, Clonality, and Rejuvenation of Hematopoietic Stem Cells. Trends in Molecular Medicine, 2016, 22, 701-712.	6.7	135
61	Aging of hematopoietic stem cells: DNA damage and mutations?. Experimental Hematology, 2016, 44, 895-901.	0.4	65
62	Quantitative trait gene Slit2 positively regulates murine hematopoietic stem cell numbers. Scientific Reports, 2016, 6, 31412.	3.3	9
63	Depleting senescent cells to combat aging. Nature Medicine, 2016, 22, 23-24.	30.7	9
64	Superoxide anion radicals induce IGF1 resistance through concomitant activation of PTP1B and PTEN. EMBO Molecular Medicine, 2015, 7, 59-77.	6.9	37
65	Stem Cell-Specific Mechanisms Ensure Genomic Fidelity within HSCs and upon Aging of HSCs. Cell Reports, 2015, 13, 2412-2424.	6.4	48
66	Exit from dormancy provokes DNA-damage-induced attrition in haematopoietic stem cells. Nature, 2015, 520, 549-552.	27.8	498
67	Discovery and Characterization of an Endogenous CXCR4 Antagonist. Cell Reports, 2015, 11, 737-747.	6.4	80
68	Inflammation-Induced Emergency Megakaryopoiesis Driven by Hematopoietic Stem Cell-like Megakaryocyte Progenitors. Cell Stem Cell, 2015, 17, 422-434.	11.1	353
69	HSC Aging and Senescent Immune Remodeling. Trends in Immunology, 2015, 36, 815-824.	6.8	91
70	Stem Cell-like Megakaryocyte Progenitors As Driving Forces of IFN-Induced Emergency Megakaryopoiesis. Blood, 2015, 126, 2391-2391.	1.4	1
71	Regulation of hematopoietic stem cell aging by the small RhoGTPase Cdc42. Experimental Cell Research, 2014, 329, 214-219.	2.6	9
72	HSPCs Get Their Motors Running for Asymmetric Fate Choice. Cell Stem Cell, 2014, 14, 1-2.	11.1	15

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73	Hematopoietic stem cell aging. <i>Current Opinion in Immunology</i> , 2014, 29, 86-92.	5.5	54
74	HSC senescence upon irradiation. <i>Blood</i> , 2014, 123, 3060-3061.	1.4	2
75	Identifying Novel Genes and Signaling Pathways That Predispose to Therapy Related MDS (t-MDS). <i>Blood</i> , 2014, 124, 1905-1905.	1.4	1
76	A canonical to non-canonical Wnt signalling switch in haematopoietic stem-cell ageing. <i>Nature</i> , 2013, 503, 392-396.	27.8	265
77	The ageing haematopoietic stem cell compartment. <i>Nature Reviews Immunology</i> , 2013, 13, 376-389.	22.7	489
78	Cdc42 and aging of hematopoietic stem cells. <i>Current Opinion in Hematology</i> , 2013, 20, 295-300.	2.5	29
79	Verjüngungskur für Zellen. <i>Forschung</i> , 2013, 38, 4-11.	0.0	0
80	Cdc42 Activity Regulates Hematopoietic Stem Cell Aging and Rejuvenation. <i>Cell Stem Cell</i> , 2012, 10, 520-530.	11.1	438
81	Concise Review: Polarity in Stem Cells, Disease, and Aging. <i>Stem Cells</i> , 2010, 28, 1623-1629.	3.2	66
82	Aging in the lympho-hematopoietic stem cell compartment. <i>Trends in Immunology</i> , 2009, 30, 360-365.	6.8	90
83	Altered cellular dynamics and endosteal location of aged early hematopoietic progenitor cells revealed by time-lapse intravital imaging in long bones. <i>Blood</i> , 2009, 114, 290-298.	1.4	197
84	Stem Cells, Aging, Niche, Adhesion and Cdc42: A Model for Changes in Cell-Cell Interactions and Hematopoietic Stem Cell Aging. <i>Cell Cycle</i> , 2007, 6, 884-887.	2.6	48