

# The evolutionary dynamics and fitness landscape of clo

Science

367, 1449-1454

DOI: [10.1126/science.aay9333](https://doi.org/10.1126/science.aay9333)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Circulating Tumor DNA Testing Opens New Perspectives in Melanoma Management. <i>Cancers</i> , 2020, 12, 2914.	1.7	26
2	Tissue-Biased Expansion of DNMT3A-Mutant Clones in a Mosaic Individual Is Associated with Conserved Epigenetic Erosion. <i>Cell Stem Cell</i> , 2020, 27, 326-335.e4.	5.2	25
3	Dynamic clonal hematopoiesis and functional T-cell immunity in a supercentenarian. <i>Leukemia</i> , 2021, 35, 2125-2129.	3.3	9
4	The evolution of relapse of adult T cell acute lymphoblastic leukemia. <i>Genome Biology</i> , 2020, 21, 284.	3.8	13
5	Novel DNMT3A Germline Variant in a Patient with Multiple Paragangliomas and Papillary Thyroid Carcinoma. <i>Cancers</i> , 2020, 12, 3304.	1.7	5
6	Clonal evolution driven by superdriver mutations. <i>BMC Evolutionary Biology</i> , 2020, 20, 89.	3.2	8
7	Clonal hematopoiesis and non-hematologic disorders. <i>Blood</i> , 2020, 136, 1606-1614.	0.6	71
8	Clonal hematopoiesis and risk for hematologic malignancy. <i>Blood</i> , 2020, 136, 1599-1605.	0.6	35
9	Clonal Hematopoiesis: Mechanisms Driving Dominance of Stem Cell Clones. <i>Blood</i> , 2020, 136, 1590-1598.	0.6	67
10	The role of clonal haematopoiesis in cardiovascular diseases: epidemiology and experimental studies. <i>Journal of Internal Medicine</i> , 2020, 288, 507-517.	2.7	10
11	Mutations in normal tissues—some diagnostic and clinical implications. <i>BMC Medicine</i> , 2020, 18, 283.	2.3	19
12	The Origin and Immune Recognition of Tumor-Specific Antigens. <i>Cancers</i> , 2020, 12, 2607.	1.7	30
13	Next Generation Sequencing-Based Profiling of Cell Free DNA in Patients with Advanced Non-Small Cell Lung Cancer: Advantages and Pitfalls. <i>Cancers</i> , 2020, 12, 3804.	1.7	26
14	The rate and spectrum of mosaic mutations during embryogenesis revealed by RNA sequencing of 49 tissues. <i>Genome Medicine</i> , 2020, 12, 49.	3.6	25
15	Clonality in haematopoietic stem cell ageing. <i>Mechanisms of Ageing and Development</i> , 2020, 189, 111279.	2.2	4
16	Implications of Clonal Hematopoiesis for Precision Oncology. <i>JCO Precision Oncology</i> , 2020, 4, 639-646.	1.5	16
17	The role of host environment in cancer evolution. <i>Evolutionary Applications</i> , 2020, 13, 1756-1770.	1.5	15
18	Quantifying mutations in healthy blood. <i>Science</i> , 2020, 367, 1426-1427.	6.0	4

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19	Molecular and Genomic Profiling of Lung Cancer in the Era of Precision Medicine: A Position Paper from the Italian Association of Thoracic Oncology (AIOT). <i>Cancers</i> , 2020, 12, 1627.	1.7	10
20	Genetic and Genomic Landscape of Secondary and Therapy-Related Acute Myeloid Leukemia. <i>Genes</i> , 2020, 11, 749.	1.0	30
21	Clonal hematopoiesis in myeloma: root of all maladies!. <i>Blood</i> , 2020, 135, 2330-2331.	0.6	2
22	Understanding Normal and Malignant Human Hematopoiesis Using Next-Generation Humanized Mice. <i>Trends in Immunology</i> , 2020, 41, 706-720.	2.9	23
23	Bone marrow niches in haematological malignancies. <i>Nature Reviews Cancer</i> , 2020, 20, 285-298.	12.8	270
24	Engraftment of rare, pathogenic donor hematopoietic mutations in unrelated hematopoietic stem cell transplantation. <i>Science Translational Medicine</i> , 2020, 12, .	5.8	41
25	Clonal Hematopoiesisâ€œDriver DNMT3A Mutations Alter Immune Cells in Heart Failure. <i>Circulation Research</i> , 2021, 128, 216-228.	2.0	129
26	<i>TP53</i> , a gene for colorectal cancer predisposition in the absence of Li-Fraumeni-associated phenotypes. <i>Gut</i> , 2021, 70, 1139-1146.	6.1	10
27	The effect of age on the acquisition and selection of cancer driver mutations in sun-exposed normal skin. <i>Annals of Oncology</i> , 2021, 32, 412-421.	0.6	29
28	Protein phosphatase, Mg <sup>2+</sup> /Mn <sup>2+</sup> â€œdependent 1D (PPM1D) mutations in haematological cancer. <i>British Journal of Haematology</i> , 2021, 192, 697-705.	1.2	7
29	Clonal haematopoiesis and cardiovascular disease: how low can you go?. <i>European Heart Journal</i> , 2021, 42, 266-268.	1.0	7
30	To portray clonal evolution in blood cancer, count your stem cells. <i>Blood</i> , 2021, 137, 1862-1870.	0.6	14
31	Alterations to <i>DNMT3A</i> in Hematologic Malignancies. <i>Cancer Research</i> , 2021, 81, 254-263.	0.4	20
32	Interplay between chromosomal alterations and gene mutations shapes the evolutionary trajectory of clonal hematopoiesis. <i>Nature Communications</i> , 2021, 12, 338.	5.8	64
33	Putative Blood Somatic Mutations in Post-Traumatic Stress Disorder-Symptomatic Soldiers: High Impact of Cytoskeletal and Inflammatory Proteins. <i>Journal of Alzheimer's Disease</i> , 2021, 79, 1723-1734.	1.2	8
35	Breast Cancer Risk Genesâ€™ Association Analysis in More than 113,000 Women. <i>New England Journal of Medicine</i> , 2021, 384, 428-439.	13.9	532
36	Increased stem cell proliferation in atherosclerosis accelerates clonal hematopoiesis. <i>Cell</i> , 2021, 184, 1348-1361.e22.	13.5	149
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39	A vicious cycle in atherosclerosis. <i>Cell</i> , 2021, 184, 1139-1141.	13.5	11
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42	Dnmt3a deficiency in the skin causes focal, canonical DNA hypomethylation and a cellular proliferation phenotype. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, e2022760118.	3.3	6
43	Stem cell concepts in myelodysplastic syndromes: lessons and challenges. <i>Journal of Internal Medicine</i> , 2021, 289, 650-661.	2.7	2
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46	Superlinear growth reveals the Allee effect in tumors. <i>Physical Review E</i> , 2021, 103, 042405.	0.8	8
47	Clonal haematopoiesis of emerging significance. <i>Pathology</i> , 2021, 53, 300-311.	0.3	9
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56	Hotspot DNMT3A mutations in clonal hematopoiesis and acute myeloid leukemia sensitize cells to azacytidine via viral mimicry response. <i>Nature Cancer</i> , 2021, 2, 527-544.	5.7	37
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58	Thrombosis in myeloproliferative neoplasms: update in pathophysiology. <i>Current Opinion in Hematology</i> , 2021, 28, 285-291.	1.2	6
59	Next-Generation Sequencing of Cell-Free DNA Extracted From Pleural Effusion Supernatant: Applications and Challenges. <i>Frontiers in Medicine</i> , 2021, 8, 662312.	1.2	3
60	Somatic mosaicism in inherited bone marrow failure syndromes. <i>Best Practice and Research in Clinical Haematology</i> , 2021, 34, 101279.	0.7	10

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61	Clonal hematopoiesis and bone marrow failure syndromes. <i>Best Practice and Research in Clinical Haematology</i> , 2021, 34, 101273.	0.7	6
62	Murine models of clonal haematopoiesis to assess mechanisms of cardiovascular disease. <i>Cardiovascular Research</i> , 2022, 118, 1413-1432.	1.8	12
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64	Splicing factor mutations in hematologic malignancies. <i>Blood</i> , 2021, 138, 599-612.	0.6	40
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67	The impact of clonal diversity and mosaicism on haematopoietic function in Fanconi anaemia. <i>British Journal of Haematology</i> , 2022, 196, 274-287.	1.2	6
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70	The role of vitamin C in epigenetic cancer therapy. <i>Free Radical Biology and Medicine</i> , 2021, 170, 179-193.	1.3	23
71	Optimization of Data Processing System for Exercise and Fitness Process Based on Internet of Things. <i>Wireless Communications and Mobile Computing</i> , 2021, 2021, 1-11.	0.8	1
72	Decoding and rejuvenating human ageing genomes: Lessons from mosaic chromosomal alterations. <i>Ageing Research Reviews</i> , 2021, 68, 101342.	5.0	21
73	Hematopoiesis during Ontogenesis, Adult Life, and Aging. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9231.	1.8	15
74	A body map of somatic mutagenesis in morphologically normal human tissues. <i>Nature</i> , 2021, 597, 398-403.	13.7	107
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76	The somatic molecular evolution of cancer: Mutation, selection, and epistasis. <i>Progress in Biophysics and Molecular Biology</i> , 2021, 165, 56-65.	1.4	11
77	Systematic Profiling of DNMT3A Variants Reveals Protein Instability Mediated by the DCAF8 E3 Ubiquitin Ligase Adaptor. <i>Cancer Discovery</i> , 2022, 12, 220-235.	7.7	38
78	The evolution of hematopoietic cells under cancer therapy. <i>Nature Communications</i> , 2021, 12, 4803.	5.8	28

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79	Aging and Cancer: The Waning of Community Bonds. <i>Cells</i> , 2021, 10, 2269.	1.8	7
82	Clonal Hematopoiesis Is Associated With Low CD4 Nadir and Increased Residual HIV Transcriptional Activity in Virally Suppressed Individuals With HIV. <i>Journal of Infectious Diseases</i> , 2022, 225, 1339-1347.	1.9	17
83	Evolution via somatic genetic variation in modular species. <i>Trends in Ecology and Evolution</i> , 2021, 36, 1083-1092.	4.2	25
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85	Struggle within: evolution and ecology of somatic cell populations. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 6797-6806.	2.4	3
86	Association of Diet Quality With Prevalence of Clonal Hematopoiesis and Adverse Cardiovascular Events. <i>JAMA Cardiology</i> , 2021, 6, 1069.	3.0	43
87	Expanding approaches to detect clonal hematopoiesis. <i>Haematologica</i> , 2021, , .	1.7	0
88	Somatic mutations provide important and unique insights into the biology of complex diseases. <i>Trends in Genetics</i> , 2021, 37, 872-881.	2.9	32
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100	Measuring the distribution of fitness effects in somatic evolution by combining clonal dynamics with dN/dS ratios. <i>ELife</i> , 2020, 9, .	2.8	32
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103	HLA associations, somatic loss of HLA expression, and clinical outcomes in immune aplastic anemia. <i>Blood</i> , 2021, 138, 2799-2809.	0.6	23
105	Aged healthy mice acquire clonal hematopoiesis mutations. <i>Blood</i> , 2022, 139, 629-634.	0.6	13
106	Shining light on dark selection in healthy human tissues. <i>Nature Genetics</i> , 2021, 53, 1525-1526.	9.4	3
107	Synonymous mutations reveal genome-wide levels of positive selection in healthy tissues. <i>Nature Genetics</i> , 2021, 53, 1597-1605.	9.4	33
108	Hematopoiesis in numbers. <i>Trends in Immunology</i> , 2021, 42, 1100-1112.	2.9	25
112	Employing the CRISPR-Cas System for Clonal Hematopoiesis Research. <i>International Journal of Physical Medicine &amp; Rehabilitation</i> , 2021, 9, .	0.5	1

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113	Clonal Hematopoiesis Mutations in Patients with Lung Cancer Are Associated with Lung Cancer Risk Factors. <i>Cancer Research</i> , 2022, 82, 199-209.	0.4	11
114	Suspected clonal hematopoiesis as a natural functional assay of TP53 germline variant pathogenicity. <i>Genetics in Medicine</i> , 2022, 24, 673-680.	1.1	4
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120	Phenotypic heterogeneity in individuals with <i>MECOM</i> variants in $\Delta 2$ families. <i>Blood Advances</i> , 2022, 6, 5257-5261.	2.5	8
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122	How low risk are low risk myelodysplastic syndromes?. <i>Expert Review of Hematology</i> , 2022, 15, 15-24.	1.0	5
123	Association of clonal hematopoiesis mutations with clinical outcomes: A systematic review and meta-analysis. <i>American Journal of Hematology</i> , 2022, 97, 411-420.	2.0	11
125	Preneoplastic somatic mutations including <i>MYD88</i> <sup>L265P</sup> in lymphoplasmacytic lymphoma. <i>Science Advances</i> , 2022, 8, eabl4644.	4.7	21
126	Fluctuating methylation clocks for cell lineage tracing at high temporal resolution in human tissues. <i>Nature Biotechnology</i> , 2022, 40, 720-730.	9.4	22
127	Increased prevalence of clonal hematopoiesis of indeterminate potential amongst people living with HIV. <i>Scientific Reports</i> , 2022, 12, 577.	1.6	27
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131	Clonal hematopoiesis as a pitfall in germline variant interpretation in the context of Mendelian disorders. <i>Human Molecular Genetics</i> , 2022, 31, 2386-2395.	1.4	7
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133	Trade-off between reducing mutational accumulation and increasing commitment to differentiation determines tissue organization. <i>Nature Communications</i> , 2022, 13, 1666.	5.8	5
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135	Combination strategies to promote sensitivity to cytarabine-induced replication stress in acute myeloid leukemia with and without DNMT3A mutations. <i>Experimental Hematology</i> , 2022, , .	0.2	2
136	Advances in understanding the molecular basis of clonal hematopoiesis. <i>Trends in Molecular Medicine</i> , 2022, 28, 360-377.	3.5	5
137	Early detection of cancer. <i>Science</i> , 2022, 375, eaay9040.	6.0	291
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140	Mendelian randomization supports bidirectional causality between telomere length and clonal hematopoiesis of indeterminate potential. <i>Science Advances</i> , 2022, 8, eabl6579.	4.7	36
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146	Molecular damage in aging. <i>Nature Aging</i> , 2021, 1, 1096-1106.	5.3	51
147	Lineage tracing in human tissues. <i>Journal of Pathology</i> , 2022, 257, 501-512.	2.1	7
148	Hematopoiesis of Indeterminate Potential and Atherothrombotic Risk. <i>Thrombosis and Haemostasis</i> , 2022, 122, 1435-1442.	1.8	3
149	Immune Pathways in Etiology, Acute Phase, and Chronic Sequelae of Ischemic Stroke. <i>Circulation Research</i> , 2022, 130, 1167-1186.	2.0	74
150	Bone Marrow Niches of Hematopoietic Stem and Progenitor Cells. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4462.	1.8	19
151	Early detection and intervention of clonal hematopoiesis for preventing hematological malignancies. <i>Cancer Letters</i> , 2022, 538, 215691.	3.2	4
152	A Family of Fitness Landscapes Modeled through Gene Regulatory Networks. <i>Entropy</i> , 2022, 24, 622.	1.1	2
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154	Brain somatic mutations as RNA therapeutic targets in neurological disorders. <i>Annals of the New York Academy of Sciences</i> , 2022, 1514, 11-20.	1.8	2



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155	The Field of Cell Competition Comes of Age: Semantics and Technological Synergy. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, .	1.8	4
156	Myelodysplastic syndromes are multiclonal diseases derived from hematopoietic stem and progenitor cells. <i>Experimental Hematology and Oncology</i> , 2022, 11, 28.	2.0	0
157	Single Cell Biology: Exploring Somatic Cell Behaviors, Competition and Selection in Chronic Disease. <i>Frontiers in Pharmacology</i> , 2022, 13, .	1.6	1
158	Longitudinal profiling of clonal hematopoiesis provides insight into clonal dynamics. <i>Immunity and Ageing</i> , 2022, 19, .	1.8	20
160	Clonal hematopoiesis: Mutation-specific adaptation to environmental change. <i>Cell Stem Cell</i> , 2022, 29, 882-904.	5.2	34
161	The longitudinal dynamics and natural history of clonal haematopoiesis. <i>Nature</i> , 2022, 606, 335-342.	13.7	136
162	Clonal dynamics of haematopoiesis across the human lifespan. <i>Nature</i> , 2022, 606, 343-350.	13.7	160
163	Clonal hematopoiesis in men living with HIV and association with subclinical atherosclerosis. <i>Aids</i> , 2022, 36, 1521-1531.	1.0	10
164	Clonal hematopoiesis in clinical practice: walking a tightrope. <i>Leukemia and Lymphoma</i> , 2022, 63, 2536-2544.	0.6	1
166	A macaque clonal hematopoiesis model demonstrates expansion of TET2-disrupted clones and utility for testing interventions. <i>Blood</i> , 2022, 140, 1774-1789.	0.6	13
168	Clonal haematopoiesis is associated with higher mortality in patients with cardiogenic shock. <i>European Journal of Heart Failure</i> , 2022, 24, 1573-1582.	2.9	20
170	Therapy-Related Clonal Hematopoiesis. <i>Heart Failure Clinics</i> , 2022, 18, 349-359.	1.0	1
171	The Impact of Clonal Hematopoiesis of Indeterminate Potential on Advanced Heart Failure. , 2022, 2, 218-221.		0
172	Targeting stem cells in myelodysplastic syndromes and acute myeloid leukemia. <i>Journal of Internal Medicine</i> , 2022, 292, 262-277.	2.7	7
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174	Longitudinal dynamics of clonal hematopoiesis identifies gene-specific fitness effects. <i>Nature Medicine</i> , 2022, 28, 1439-1446.	15.2	36
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177	A Synopsis Clonal Hematopoiesis of Indeterminate Potential in Hematology. <i>Cancers</i> , 2022, 14, 3663.	1.7	3

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178	Predictors of clonal evolution and myeloid neoplasia following immunosuppressive therapy in severe aplastic anemia. <i>Leukemia</i> , 2022, 36, 2328-2337.	3.3	19
179	Discovering the drivers of clonal hematopoiesis. <i>Nature Communications</i> , 2022, 13, .	5.8	33
181	Bidirectional Relationship Between Cancer and Heart Failure: Insights on Circulating Biomarkers. <i>Frontiers in Cardiovascular Medicine</i> , 0, 9, .	1.1	8
182	Population genetics of clonally transmissible cancers. <i>Nature Ecology and Evolution</i> , 2022, 6, 1077-1089.	3.4	7
183	Molecular Pathways in Clonal Hematopoiesis: From the Acquisition of Somatic Mutations to Transformation into Hematologic Neoplasm. <i>Life</i> , 2022, 12, 1135.	1.1	6
184	Mediating and maintaining methylation while minimizing mutation: Recent advances on mammalian DNA methyltransferases. <i>Current Opinion in Structural Biology</i> , 2022, 75, 102433.	2.6	3
185	CHIPing away the progression potential of CHIP: A new reality in the making. <i>Blood Reviews</i> , 2023, 58, 101001.	2.8	6
186	Clinical manifestations of clonal hematopoiesis: What has SF3B1-mutant MDS taught us?. <i>Seminars in Hematology</i> , 2022, 59, 150-155.	1.8	3
187	Somatic mutations in VEXAS Syndrome and Erdheim-Chester disease: Inflammatory myeloid diseases. <i>Seminars in Hematology</i> , 2022, 59, 156-166.	1.8	4
188	Low Impact of Clonal Hematopoiesis on the Determination of RAS Mutations by Cell-Free DNA Testing in Routine Clinical Diagnostics. <i>Diagnostics</i> , 2022, 12, 1956.	1.3	2
189	Genome-Based Medicine for Acute Myeloid Leukemia: Study and Targeting of Molecular Alterations and Use of Minimal Residual Disease as a Biomarker. <i>Hemato</i> , 2022, 3, 543-568.	0.2	0
190	Clonal Hematopoiesis of Indeterminate Potential in Patients with Solid Tumor Malignancies. <i>Cancer Research</i> , 2022, 82, 4107-4113.	0.4	8
191	CLONAL HEMATOPOIESIS: ROLE IN HEMATOLOGIC NON-HEMATOLOGIC. <i>Mediterranean Journal of Hematology and Infectious Diseases</i> , 2022, 14, e2022069.	0.5	1
192	Inferring the initiation and development of myeloproliferative neoplasms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	12
193	Single-cell multi-omics of human clonal hematopoiesis reveals that DNMT3A R882 mutations perturb early progenitor states through selective hypomethylation. <i>Nature Genetics</i> , 2022, 54, 1514-1526.	9.4	50
194	Cell competition in development, homeostasis and cancer. <i>Nature Reviews Molecular Cell Biology</i> , 2023, 24, 221-236.	16.1	33
196	Clonal hematopoiesis, somatic mosaicism, and age-associated disease. <i>Physiological Reviews</i> , 2023, 103, 649-716.	13.1	21
197	All that glitters is not LGL Leukemia. <i>Leukemia</i> , 2022, 36, 2551-2557.	3.3	8

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