

# Gay M Crooks

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

111  
papers

5,367  
citations

37  
h-index

72  
g-index

140  
ext. papers

6,196  
ext. citations

8.7  
avg, IF

5  
L-index

#	Paper	IF	Citations
111	3D-organoid culture supports differentiation of human CAR iPSCs into highly functional CAR T cells.. <i>Cell Stem Cell</i> , <b>2022</b> ,	18	2
110	Generation of Artificial Thymic Organoids from Human and Murine Hematopoietic Stem and Progenitor Cells.. <i>Current Protocols</i> , <b>2022</b> , 2, e403		0
109	Development of allogeneic HSC-engineered iNKT cells for off-the-shelf cancer immunotherapy. <i>Cell Reports Medicine</i> , <b>2021</b> , 2, 100449	18	7
108	Gene Editing Rescues In vitro T Cell Development of RAG2-Deficient Induced Pluripotent Stem Cells in an Artificial Thymic Organoid System. <i>Journal of Clinical Immunology</i> , <b>2021</b> , 41, 852-862	5.7	5
107	Autologous Ex Vivo Lentiviral Gene Therapy for Adenosine Deaminase Deficiency. <i>New England Journal of Medicine</i> , <b>2021</b> , 384, 2002-2013	59.2	24
106	Nidogen-1 Mitigates Ischemia and Promotes Tissue Survival and Regeneration. <i>Advanced Science</i> , <b>2021</b> , 8, 2002500	13.6	4
105	The Metabolic Landscape of Thymic T Cell Development and. <i>Frontiers in Immunology</i> , <b>2021</b> , 12, 716661	8.4	1
104	Artificial thymic organoids represent a reliable tool to study T-cell differentiation in patients with severe T-cell lymphopenia. <i>Blood Advances</i> , <b>2020</b> , 4, 2611-2616	7.8	27
103	Pleiotropic Roles of VEGF in the Microenvironment of the Developing Thymus. <i>Journal of Immunology</i> , <b>2020</b> , 205, 2423-2436	5.3	2
102	In Vitro Recapitulation of Murine Thymopoiesis from Single Hematopoietic Stem Cells. <i>Cell Reports</i> , <b>2020</b> , 33, 108320	10.6	5
101	Development of Hematopoietic Stem Cell-Engineered Invariant Natural Killer T Cell Therapy for Cancer. <i>Cell Stem Cell</i> , <b>2019</b> , 25, 542-557.e9	18	23
100	Stimulation of Hair Growth by Small Molecules that Activate Autophagy. <i>Cell Reports</i> , <b>2019</b> , 27, 3413-3421.e3	21.63	34
99	Lentiviral Gene Therapy with Autologous Hematopoietic Stem and Progenitor Cells (HSPCs) for the Treatment of Severe Combined Immune Deficiency Due to Adenosine Deaminase Deficiency (ADA-SCID): Results in an Expanded Cohort. <i>Blood</i> , <b>2019</b> , 134, 3345-3345	2.2	11
98	MLL3 governs human haematopoietic stem-cell self-renewal and engraftment. <i>Nature</i> , <b>2019</b> , 576, 281-286	56.4	38
97	From pluripotent stem cells to T cells. <i>Experimental Hematology</i> , <b>2019</b> , 71, 24-31	3.1	20
96	IND-Enabling Studies for a Clinical Trial to Genetically Program a Persistent Cancer-Targeted Immune System. <i>Clinical Cancer Research</i> , <b>2019</b> , 25, 1000-1011	12.9	7
95	Organoid-Induced Differentiation of Conventional T Cells from Human Pluripotent Stem Cells. <i>Cell Stem Cell</i> , <b>2019</b> , 24, 376-389.e8	18	70

94	Transcriptionally and Functionally Distinct Mesenchymal Subpopulations Are Generated from Human Pluripotent Stem Cells. <i>Stem Cell Reports</i> , <b>2018</b> , 10, 436-446	8	17
93	Myeloid Disease Mutations of Splicing Factor SRSF2 Cause G2-M Arrest and Skewed Differentiation of Human Hematopoietic Stem and Progenitor Cells. <i>Stem Cells</i> , <b>2018</b> , 36, 1663-1675	5.8	11
92	Generation of mature T cells from human hematopoietic stem and progenitor cells in artificial thymic organoids. <i>Nature Methods</i> , <b>2017</b> , 14, 521-530	21.6	91
91	In Vitro Generation of Human Pluripotent Stem Cell-Derived T Cells for Immunotherapy. <i>Blood</i> , <b>2017</b> , 130, 691-691	2.2	
90	Artificial Thymic Organoids Permit Allelic Exclusion and Efficient Generation of Naïve TCR-Engineered T-Cells from Human Hematopoietic Stem Cells In Vitro. <i>Blood</i> , <b>2016</b> , 128, 4553-4553	2.2	
89	BCL11B Is a Key Regulator of T-Lineage Differentiation during the Initial Stages of Human Thymopoiesis. <i>Blood</i> , <b>2016</b> , 128, 2657-2657	2.2	
88	Genetic Tagging During Human Mesoderm Differentiation Reveals Tripotent Lateral Plate Mesodermal Progenitors. <i>Stem Cells</i> , <b>2016</b> , 34, 1239-50	5.8	7
87	Medial HOXA genes demarcate haematopoietic stem cell fate during human development. <i>Nature Cell Biology</i> , <b>2016</b> , 18, 595-606	23.4	50
86	Long non-coding RNA profiling of human lymphoid progenitor cells reveals transcriptional divergence of B cell and T cell lineages. <i>Nature Immunology</i> , <b>2015</b> , 16, 1282-91	19.1	134
85	GPI-80 defines self-renewal ability in hematopoietic stem cells during human development. <i>Cell Stem Cell</i> , <b>2015</b> , 16, 80-7	18	50
84	BALR-6 regulates cell growth and cell survival in B-lymphoblastic leukemia. <i>Molecular Cancer</i> , <b>2015</b> , 14, 214	42.1	21
83	Unrelated donor hematopoietic stem cell transplantation for the treatment of non-malignant genetic diseases: An alemtuzumab based regimen is associated with cure of clinical disease; earlier clearance of alemtuzumab may be associated with graft rejection. <i>American Journal of Hematology</i> , <b>2015</b> , 90, 1031-4	7.1	4
82	The expansion of thymopoiesis in neonatal mice is dependent on expression of high mobility group a 2 protein (Hmga2). <i>PLoS ONE</i> , <b>2015</b> , 10, e0125414	3.7	3
81	A reduced-toxicity regimen is associated with durable engraftment and clinical cure of nonmalignant genetic diseases among children undergoing blood and marrow transplantation with an HLA-matched related donor. <i>Biology of Blood and Marrow Transplantation</i> , <b>2015</b> , 21, 440-4	4.7	8
80	Lysophosphatidic acid mediates fibrosis in injured joints by regulating collagen type I biosynthesis. <i>Osteoarthritis and Cartilage</i> , <b>2015</b> , 23, 308-18	6.2	19
79	Dynamics of HSPC repopulation in nonhuman primates revealed by a decade-long clonal-tracking study. <i>Cell Stem Cell</i> , <b>2014</b> , 14, 473-85	18	67
78	Erythropoiesis from human embryonic stem cells through erythropoietin-independent AKT signaling. <i>Stem Cells</i> , <b>2014</b> , 32, 1503-14	5.8	8
77	Engineering the human thymic microenvironment to support thymopoiesis in vivo. <i>Stem Cells</i> , <b>2014</b> , 32, 2386-96	5.8	33

76	Human lymphoid development in the absence of common $\beta$ chain receptor signaling. <i>Journal of Immunology</i> , <b>2014</b> , 192, 5050-8	5.3	12
75	Perivascular support of human hematopoietic stem/progenitor cells. <i>Blood</i> , <b>2013</b> , 121, 2891-901	2.2	138
74	Human developmental chondrogenesis as a basis for engineering chondrocytes from pluripotent stem cells. <i>Stem Cell Reports</i> , <b>2013</b> , 1, 575-89	8	81
73	Critical differences in hematopoiesis and lymphoid development between humans and mice. <i>Journal of Clinical Immunology</i> , <b>2013</b> , 33, 711-5	5.7	40
72	Integrin alpha4 blockade sensitizes drug resistant pre-B acute lymphoblastic leukemia to chemotherapy. <i>Blood</i> , <b>2013</b> , 121, 1814-8	2.2	82
71	Inducing Definitive Erythropoiesis From Human Embryonic Stem Cells Through a Novel Intracellular MPL Dimerization Strategy. <i>Blood</i> , <b>2013</b> , 122, 1172-1172	2.2	1
70	Lysophosphatidic acid mediates myeloid differentiation within the human bone marrow microenvironment. <i>PLoS ONE</i> , <b>2013</b> , 8, e63718	3.7	27
69	Engineering The Human Thymic Microenvironment To Support Thymopoiesis. <i>Blood</i> , <b>2013</b> , 122, 3494-3494		
68	Rapid thymic reconstitution following bone marrow transplantation in neonatal mice is VEGF-dependent. <i>Biology of Blood and Marrow Transplantation</i> , <b>2012</b> , 18, 683-9	4.7	12
67	Novel pathways to erythropoiesis induced by dimerization of intracellular C-Mpl in human hematopoietic progenitors. <i>Stem Cells</i> , <b>2012</b> , 30, 697-708	5.8	7
66	Lymphoid priming in human bone marrow begins before expression of CD10 with upregulation of L-selectin. <i>Nature Immunology</i> , <b>2012</b> , 13, 963-71	19.1	82
65	Gene therapy for adenosine deaminase-deficient severe combined immune deficiency: clinical comparison of retroviral vectors and treatment plans. <i>Blood</i> , <b>2012</b> , 120, 3635-46	2.2	189
64	Inability to Express HOXA Cluster and BCL11A Genes Compromises Self-Renewal and Multipotency of hESC-Derived Hematopoietic Cells. <i>Blood</i> , <b>2012</b> , 120, 1190-1190	2.2	1
63	Efficient Erythropoiesis From Human Embryonic Stem Cells Through Dimerization of Intracellular MPL.. <i>Blood</i> , <b>2012</b> , 120, 2291-2291	2.2	
62	Effects of sublethal irradiation on patterns of engraftment after murine bone marrow transplantation. <i>Biology of Blood and Marrow Transplantation</i> , <b>2011</b> , 17, 608-19	4.7	20
61	Lineage assays: which pathway to take?. <i>Blood</i> , <b>2011</b> , 117, 2560	2.2	1
60	The challenges and promises of blood engineered from human pluripotent stem cells. <i>Advanced Drug Delivery Reviews</i> , <b>2011</b> , 63, 331-41	18.5	11
59	Anti-CD52 antibody-mediated immune ablation with autologous immune recovery for the treatment of refractory juvenile polymyositis. <i>Journal of Clinical Immunology</i> , <b>2011</b> , 31, 615-22	5.7	16

58	Dysregulated gene expression during hematopoietic differentiation from human embryonic stem cells. <i>Molecular Therapy</i> , <b>2011</b> , 19, 768-81	11.7	12
57	Vascular Pericytes Sustain Hematopoietic Stem Cells. <i>Blood</i> , <b>2011</b> , 118, 2394-2394	2.2	2
56	Preclinical Studies for Sickle Cell Disease Gene Therapy Using Bone Marrow CD34+ Cells Modified with a $\beta$ S3-Globin Lentiviral Vector. <i>Blood</i> , <b>2011</b> , 118, 3119-3119	2.2	
55	Human hematopoietic stem/progenitor cells modified by zinc-finger nucleases targeted to CCR5 control HIV-1 in vivo. <i>Nature Biotechnology</i> , <b>2010</b> , 28, 839-47	44.5	555
54	Mapping the first stages of mesoderm commitment during differentiation of human embryonic stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 13742-7	11.5	179
53	Regulated expansion of human pancreatic beta-cells. <i>Molecular Therapy</i> , <b>2010</b> , 18, 1389-96	11.7	3
52	In vivo deficiency of both C/EBP $\alpha$ and C/EBP $\beta$ results in highly defective myeloid differentiation and lack of cytokine response. <i>PLoS ONE</i> , <b>2010</b> , 5, e15419	3.7	39
51	Stable transgene expression in primitive human CD34+ hematopoietic stem/progenitor cells, using the Sleeping Beauty transposon system. <i>Human Gene Therapy</i> , <b>2009</b> , 20, 1607-26	4.8	41
50	Pre- and post-natal treatment of hemophagocytic lymphohistiocytosis. <i>Pediatric Blood and Cancer</i> , <b>2009</b> , 52, 139-42	3	4
49	Clinical and genetic heterogeneity in Omenn syndrome and severe combined immune deficiency. <i>Pediatric Transplantation</i> , <b>2009</b> , 13, 244-50	1.8	27
48	VEGF-mediated cross-talk within the neonatal murine thymus. <i>Blood</i> , <b>2009</b> , 113, 2723-31	2.2	26
47	Inferring relative numbers of human leucocyte genome replications. <i>British Journal of Haematology</i> , <b>2008</b> , 141, 862-71	4.5	15
46	Human intrathymic lineage commitment is marked by differential CD7 expression: identification of CD7- lympho-myeloid thymic progenitors. <i>Blood</i> , <b>2008</b> , 111, 1318-26	2.2	70
45	Expansion of multipotent and lymphoid-committed human progenitors through intracellular dimerization of Mpl. <i>Blood</i> , <b>2008</b> , 111, 4064-74	2.2	16
44	Progressive declines in neurocognitive function among survivors of hematopoietic stem cell transplantation for pediatric hematologic malignancies. <i>Journal of Pediatric Hematology/Oncology</i> , <b>2008</b> , 30, 411-8	1.2	46
43	Expansion of liver cancer stem cells during aging in methionine adenosyltransferase 1A-deficient mice. <i>Hepatology</i> , <b>2008</b> , 47, 1288-97	11.2	74
42	Frequent in Vivo redundancy of C/EBP $\alpha$ and C/EBP $\beta$ during Myeloid Development. <i>Blood</i> , <b>2008</b> , 112, 2440-2440	2.2	
41	A CD133-expressing murine liver oval cell population with bilineage potential. <i>Stem Cells</i> , <b>2007</b> , 25, 2419-29	5.29	119

40	Bone marrow fails to differentiate into liver epithelium during murine development and regeneration. <i>Hepatology</i> , <b>2007</b> , 45, 1250-60	11.2	26
39	Fibroblast growth factor 10 is critical for liver growth during embryogenesis and controls hepatoblast survival via beta-catenin activation. <i>Hepatology</i> , <b>2007</b> , 46, 1187-97	11.2	105
38	Quantum dot labeling and tracking of human leukemic, bone marrow and cord blood cells. <i>Leukemia Research</i> , <b>2007</b> , 31, 643-51	2.7	34
37	Prolonged pancytopenia in a gene therapy patient with ADA-deficient SCID and trisomy 8 mosaicism: a case report. <i>Blood</i> , <b>2007</b> , 109, 503-6	2.2	30
36	The effects of Campath 1H upon graft-versus-host disease, infection, relapse, and immune reconstitution in recipients of pediatric unrelated transplants. <i>Biology of Blood and Marrow Transplantation</i> , <b>2007</b> , 13, 584-93	4.7	53
35	Immune-cell lineage commitment: translation from mice to humans. <i>Immunity</i> , <b>2007</b> , 26, 674-7	32.3	52
34	In Vivo Biosafety Model To Assess Risk of Adverse Events from Retroviral and Lentiviral Vectors.. <i>Blood</i> , <b>2007</b> , 110, 2595-2595	2.2	
33	Stable gene transfer to human CD34(+) hematopoietic cells using the Sleeping Beauty transposon. <i>Experimental Hematology</i> , <b>2006</b> , 34, 1333-43	3.1	48
32	Fluorescent immunohistochemistry and in situ hybridization analysis of mouse pancreas using low-power antigen-retrieval technique. <i>Journal of Histochemistry and Cytochemistry</i> , <b>2006</b> , 54, 843-7	3.4	13
31	Formation of pancreatic duct epithelium from bone marrow during neonatal development. <i>Stem Cells</i> , <b>2006</b> , 24, 307-14	5.8	31
30	Human Thymus Contains Hematopoietic Stem and Lymphoid Progenitor Populations That Can Be Identified by Differential Expression of CD7.. <i>Blood</i> , <b>2006</b> , 108, 1660-1660	2.2	
29	Campath 1H Versus ATG for the Prophylaxis of Graft Versus Host Disease Does Not Increase the Risk of Relapse or Infections.. <i>Blood</i> , <b>2006</b> , 108, 2888-2888	2.2	
28	The contribution of bone marrow-derived cells to the tumor vasculature in neuroblastoma is matrix metalloproteinase-9 dependent. <i>Cancer Research</i> , <b>2005</b> , 65, 3200-8	10.1	137
27	SCL expression at critical points in human hematopoietic lineage commitment. <i>Stem Cells</i> , <b>2005</b> , 23, 852-60	5.8	27
26	Successful hematopoietic stem cell transplantation for Niemann-Pick disease type B. <i>Pediatrics</i> , <b>2005</b> , 116, 1022-5	7.4	30
25	Human Progenitor and Stem Cell Expansion through Selective, Reversible Cytokine Receptor Signaling.. <i>Blood</i> , <b>2005</b> , 106, 31-31	2.2	
24	Utility of Quantum Dots for Labeling and Tracking Leukemic Cell Lines, Human Bone Marrow and CD 34+ Umbilical Cord Blood.. <i>Blood</i> , <b>2005</b> , 106, 1729-1729	2.2	
23	Busulfan and cyclophosphamide as a conditioning regimen for pediatric acute lymphoblastic leukemia patients undergoing bone marrow transplantation. <i>Journal of Pediatric Hematology/Oncology</i> , <b>2004</b> , 26, 91-7	1.2	22

22	In Vitro T Cell Differentiation from Human Hematopoietic Stem Cells (HSC) and Lymphoid Progenitors.. <i>Blood</i> , <b>2004</b> , 104, 4159-4159	2.2	
21	Formation of Pancreatic Duct Cells from Bone Marrow during Neonatal Development.. <i>Blood</i> , <b>2004</b> , 104, 675-675	2.2	1
20	Albumin-expressing hepatocyte-like cells develop in the livers of immune-deficient mice that received transplants of highly purified human hematopoietic stem cells. <i>Blood</i> , <b>2003</b> , 101, 4201-8	2.2	225
19	Dynamic tracking of human hematopoietic stem cell engraftment using in vivo bioluminescence imaging. <i>Blood</i> , <b>2003</b> , 102, 3478-82	2.2	141
18	Ikaros isoform x is selectively expressed in myeloid differentiation. <i>Journal of Immunology</i> , <b>2003</b> , 170, 3091-8	5.3	47
17	Human hematopoietic lineage commitment. <i>Immunological Reviews</i> , <b>2002</b> , 187, 48-64	11.3	30
16	Second hematopoietic stem cell transplantation in pediatric patients: overall survival and long-term follow-up. <i>Biology of Blood and Marrow Transplantation</i> , <b>2002</b> , 8, 221-8	4.7	15
15	Expression from second-generation feline immunodeficiency virus vectors is impaired in human hematopoietic cells. <i>Molecular Therapy</i> , <b>2002</b> , 6, 645-52	11.7	10
14	Identification of a novel, human multilymphoid progenitor in cord blood. <i>Blood</i> , <b>2001</b> , 97, 3683-90	2.2	164
13	Detection of leukemic cells in the CD34(+)CD38(-) bone marrow progenitor population in children with acute lymphoblastic leukemia. <i>Blood</i> , <b>2001</b> , 97, 3925-30	2.2	66
12	Hematopoietic stem cell transplantation for severe combined immune deficiency. <i>Current Allergy and Asthma Reports</i> , <b>2001</b> , 1, 416-20	5.6	3
11	Cutting edge: predominant expression of a novel Ikaros isoform in normal human hemopoiesis. <i>Journal of Immunology</i> , <b>2001</b> , 167, 1867-70	5.3	32
10	IL-3 increases production of B lymphoid progenitors from human CD34+CD38- cells. <i>Journal of Immunology</i> , <b>2000</b> , 165, 2382-9	5.3	12
9	Critical factors influencing stable transduction of human CD34(+) cells with HIV-1-derived lentiviral vectors. <i>Molecular Therapy</i> , <b>2000</b> , 2, 71-80	11.7	142
8	Gene therapy for adenosine deaminase deficiency. <i>Annual Review of Medicine</i> , <b>2000</b> , 51, 33-47	17.4	28
7	T lymphocytes with a normal ADA gene accumulate after transplantation of transduced autologous umbilical cord blood CD34+ cells in ADA-deficient SCID neonates. <i>Nature Medicine</i> , <b>1998</b> , 4, 775-80	50.5	286
6	In Vitro Identification of Single CD34+CD38 <sup>low</sup> Cells With Both Lymphoid and Myeloid Potential. <i>Blood</i> , <b>1998</b> , 91, 4145-4151	2.2	87
5	Analysis of Fes kinase activity in myeloid cell growth and differentiation. <i>Stem Cells</i> , <b>1996</b> , 14, 714-24	5.8	5

4	Retroviral mediated transfer of the cDNA for human glucocerebrosidase into hematopoietic stem cells of patients with Gaucher disease. A phase I study. <i>Human Gene Therapy</i> , <b>1996</b> , 7, 231-53	4.8	44
3	Engraftment of gene-modified umbilical cord blood cells in neonates with adenosine deaminase deficiency. <i>Nature Medicine</i> , <b>1995</b> , 1, 1017-23	50.5	529
2	Ifosfamide and etoposide in recurrent childhood acute lymphoblastic leukemia. <i>Journal of Pediatric Hematology/Oncology</i> , <b>1995</b> , 17, 34-8	1.2	16
1	Toward gene therapy for Gaucher disease. <i>Human Gene Therapy</i> , <b>1991</b> , 2, 101-5	4.8	36