

David B Sykes

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

2,956
citations

257450

24
h-index

189892

50
g-index

89
all docs

89
docs citations

89
times ranked

5082
citing authors

#	ARTICLE	IF	CITATIONS
1	Inhibition of Dihydroorotate Dehydrogenase Overcomes Differentiation Blockade in Acute Myeloid Leukemia. <i>Cell</i> , 2016, 167, 171-186.e15.	28.9	353
2	Quantitative production of macrophages or neutrophils ex vivo using conditional Hoxb8. <i>Nature Methods</i> , 2006, 3, 287-293.	19.0	337
3	SIRT1 regulates differentiation of mesenchymal stem cells by deacetylating β -catenin. <i>EMBO Molecular Medicine</i> , 2013, 5, 430-440.	6.9	233
4	Non-genotoxic conditioning for hematopoietic stem cell transplantation using a hematopoietic-cell-specific internalizing immunotoxin. <i>Nature Biotechnology</i> , 2016, 34, 738-745.	17.5	176
5	The novel dihydroorotate dehydrogenase (DHODH) inhibitor BAY 2402234 triggers differentiation and is effective in the treatment of myeloid malignancies. <i>Leukemia</i> , 2019, 33, 2403-2415.	7.2	138
6	Hoxa9 immortalizes a Granulocyte-Macrophage Colony-Stimulating Factor-Dependent Promyelocyte Capable of Biphenotypic Differentiation to Neutrophils or Macrophages, Independent of Enforced Meis Expression. <i>Molecular and Cellular Biology</i> , 2000, 20, 3274-3285.	2.3	122
7	Bone marrow-derived immature myeloid cells are a main source of circulating suPAR contributing to proteinuric kidney disease. <i>Nature Medicine</i> , 2017, 23, 100-106.	30.7	121
8	Human prostate cancer bone metastases have an actionable immunosuppressive microenvironment. <i>Cancer Cell</i> , 2021, 39, 1464-1478.e8.	16.8	98
9	Dectin-1 Activation Controls Maturation of β -1,3-Glucan-containing Phagosomes. <i>Journal of Biological Chemistry</i> , 2013, 288, 16043-16054.	3.4	80
10	Induction of a Timed Metabolic Collapse to Overcome Cancer Chemoresistance. <i>Cell Metabolism</i> , 2020, 32, 391-403.e6.	16.2	79
11	The TEMPI Syndrome – A Novel Multisystem Disease. <i>New England Journal of Medicine</i> , 2011, 365, 475-477.	27.0	77
12	The emergence of dihydroorotate dehydrogenase (DHODH) as a therapeutic target in acute myeloid leukemia. <i>Expert Opinion on Therapeutic Targets</i> , 2018, 22, 893-898.	3.4	77
13	Glycerol-3-phosphate is an FGF23 regulator derived from the injured kidney. <i>Journal of Clinical Investigation</i> , 2020, 130, 1513-1526.	8.2	75
14	Aldehyde dehydrogenase 3a2 protects AML cells from oxidative death and the synthetic lethality of ferroptosis inducers. <i>Blood</i> , 2020, 136, 1303-1316.	1.4	68
15	A modern reassessment of glycoprotein-specific direct platelet autoantibody testing in immune thrombocytopenia. <i>Blood Advances</i> , 2020, 4, 9-18.	5.2	56
16	Single Targeted Exon Mutation Creates a True Congenic Mouse for Competitive Hematopoietic Stem Cell Transplantation: The C57BL/6-CD45.1STEM Mouse. <i>Stem Cell Reports</i> , 2016, 6, 985-992.	4.8	54
17	Development of ML390: A Human DHODH Inhibitor That Induces Differentiation in Acute Myeloid Leukemia. <i>ACS Medicinal Chemistry Letters</i> , 2016, 7, 1112-1117.	2.8	51
18	An unappreciated role for neutrophil-DC hybrids in immunity to invasive fungal infections. <i>PLoS Pathogens</i> , 2018, 14, e1007073.	4.7	49

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19	Spatiotemporal multiplexed immunofluorescence imaging of living cells and tissues with bioorthogonal cycling of fluorescent probes. <i>Nature Biotechnology</i> , 2022, 40, 1654-1662.	17.5	42
20	Modulating Cell Fate as a Therapeutic Strategy. <i>Cell Stem Cell</i> , 2018, 23, 329-341.	11.1	40
21	Estrogen-dependent E2a/Pbx1 myeloid cell lines exhibit conditional differentiation that can be arrested by other leukemic oncoproteins. <i>Blood</i> , 2001, 98, 2308-2318.	1.4	35
22	KAT6A and ENL Form an Epigenetic Transcriptional Control Module to Drive Critical Leukemogenic Gene-Expression Programs. <i>Cancer Discovery</i> , 2022, 12, 792-811.	9.4	33
23	Complete and Partial Responses of the TEMPI Syndrome to Bortezomib. <i>New England Journal of Medicine</i> , 2012, 367, 778-780.	27.0	32
24	Chromatin accessibility promotes hematopoietic and leukemia stem cell activity. <i>Nature Communications</i> , 2020, 11, 1406.	12.8	32
25	Bone marrow findings of the newly described TEMPI syndrome: when erythrocytosis and plasma cell dyscrasia coexist. <i>Modern Pathology</i> , 2015, 28, 367-372.	5.5	30
26	The TEMPI syndrome. <i>Blood</i> , 2020, 135, 1199-1203.	1.4	30
27	Severe autoimmune hemolytic anemia following receipt of SARS-CoV-2 mRNA vaccine. <i>Transfusion</i> , 2021, 61, 3267-3271.	1.6	29
28	RECQL5 Suppresses Oncogenic JAK2-Induced Replication Stress and Genomic Instability. <i>Cell Reports</i> , 2015, 13, 2345-2352.	6.4	28
29	Chromatin-state barriers enforce an irreversible mammalian cell fate decision. <i>Cell Reports</i> , 2021, 37, 109967.	6.4	28
30	Complete Responses in the TEMPI Syndrome after Treatment with Daratumumab. <i>New England Journal of Medicine</i> , 2018, 378, 2240-2242.	27.0	26
31	Spleen Tyrosine Kinase Is a Critical Regulator of Neutrophil Responses to <i>Candida</i> Species. <i>MBio</i> , 2020, 11, .	4.1	25
32	The metabolic regulator mTORC1 controls terminal myeloid differentiation. <i>Science Immunology</i> , 2017, 2, .	11.9	23
33	Niche-Based Screening in Multiple Myeloma Identifies a Kinesin-5 Inhibitor with Improved Selectivity over Hematopoietic Progenitors. <i>Cell Reports</i> , 2015, 10, 755-770.	6.4	21
34	Frontline Science: Employing enzymatic treatment options for management of ocular biofilm-based infections. <i>Journal of Leukocyte Biology</i> , 2019, 105, 1099-1110.	3.3	20
35	A Subset of Localized Prostate Cancer Displays an Immunogenic Phenotype Associated with Losses of Key Tumor Suppressor Genes. <i>Clinical Cancer Research</i> , 2021, 27, 4836-4847.	7.0	20
36	tiRNA signaling via stress-regulated vesicle transfer in the hematopoietic niche. <i>Cell Stem Cell</i> , 2021, 28, 2090-2103.e9.	11.1	20

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37	SKAP2 is required for defense against <i>K. pneumoniae</i> infection and neutrophil respiratory burst. <i>ELife</i> , 2020, 9, .	6.0	18
38	Fluorescent Tracking of Yeast Division Clarifies the Essential Role of Spleen Tyrosine Kinase in the Intracellular Control of <i>Candida glabrata</i> in Macrophages. <i>Frontiers in Immunology</i> , 2018, 9, 1058.	4.8	17
39	Biguanides enhance antifungal activity against <i>Candida glabrata</i> . <i>Virulence</i> , 2018, 9, 1150-1162.	4.4	15
40	Disruption of dNTP homeostasis by ribonucleotide reductase hyperactivation overcomes AML differentiation blockade. <i>Blood</i> , 2022, 139, 3752-3770.	1.4	12
41	A cryptic imatinib-sensitive G3BP1-PDGFRB rearrangement in a myeloid neoplasm with eosinophilia. <i>Blood Advances</i> , 2020, 4, 445-448.	5.2	11
42	JAK inhibition in a patient with a STAT1 gain-of-function variant reveals STAT1 dysregulation as a common feature of aplastic anemia. <i>Med</i> , 2022, 3, 42-57.e5.	4.4	11
43	Difficulties in hematopoietic progenitor cell collection from a patient with TEMPI syndrome and severe iatrogenic iron deficiency. <i>Transfusion</i> , 2015, 55, 2142-2148.	1.6	10
44	Hormones and the Bone Marrow: Panhypopituitarism and Pancytopenia in a Man with a Pituitary Adenoma. <i>Journal of General Internal Medicine</i> , 2015, 30, 692-696.	2.6	10
45	A new murine model of Barth syndrome neutropenia links TFAZZIN deficiency to increased ER stress-induced apoptosis. <i>Blood Advances</i> , 2022, 6, 2557-2577.	5.2	10
46	Regulation of chromatin accessibility by the histone chaperone CAF-1 sustains lineage fidelity. <i>Nature Communications</i> , 2022, 13, 2350.	12.8	8
47	Neutrophils require SKAP2 for reactive oxygen species production following C-type lectin and <i>Candida</i> stimulation. <i>IScience</i> , 2021, 24, 102871.	4.1	7
48	The Art of Oncology: COVID-19 Era. <i>Oncologist</i> , 2020, 25, 997-1000.	3.7	6
49	Transfusable neutrophil progenitors as cellular therapy for the prevention of invasive fungal infections. <i>Journal of Leukocyte Biology</i> , 2022, 111, 1133-1145.	3.3	6
50	In vivo genome-wide CRISPR screening in murine acute myeloid leukemia uncovers microenvironmental dependencies. <i>Blood Advances</i> , 2022, 6, 5072-5084.	5.2	6
51	Case report: a 37-year-old male with telangiectasias, polycythemia vera, perinephric fluid collections, and intrapulmonary shunting. <i>BMC Hematology</i> , 2014, 14, 11.	2.6	5
52	Functional Defects In Neutrophils Derived From <i>Ezh2</i> Null Mice. <i>Blood</i> , 2013, 122, 1556-1556.	1.4	5
53	Case 10-2020: An 83-Year-Old Man with Pancytopenia and Acute Renal Failure. <i>New England Journal of Medicine</i> , 2020, 382, 1258-1266.	27.0	4
54	Combined epigenetic and metabolic treatments overcome differentiation blockade in acute myeloid leukemia. <i>IScience</i> , 2021, 24, 102651.	4.1	4

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55	Host defense against fungal pathogens: Adaptable neutrophil responses and the promise of therapeutic opportunities?. PLoS Pathogens, 2021, 17, e1009691.	4.7	4
56	Immune neutropenia mediated by micafungin. American Journal of Hematology, 2019, 94, 830-832.	4.1	3
57	Inhibition of the Enzyme Dihydroorotate Dehydrogenase Overcomes Differentiation Blockade in Acute Myeloid Leukemia. Blood, 2016, 128, 1656-1656.	1.4	3
58	TLR Signaling Rescues Fungicidal Activity in Syk-Deficient Neutrophils. Journal of Immunology, 2022, 208, 1664-1674.	0.8	3
59	Case 40-2017. New England Journal of Medicine, 2017, 377, 2581-2590.	27.0	2
60	A case of antisynthetase syndrome with thrombotic thrombocytopenic purpura. Rheumatology, 2021, 60, e143-e145.	1.9	2
61	DHODH Inhibitors in the Treatment of Acute Myeloid Leukemia: Defining the Mechanism of Action and the Basis of the Metabolic Therapeutic Window. Blood, 2018, 132, 2716-2716.	1.4	2
62	Loss of FLT3 Sensitizes Myeloid Cells to Differentiation Via DHODH Inhibition. Blood, 2019, 134, 2712-2712.	1.4	2
63	Acquired haemophilia A with a recalcitrant high-titre factor VIII inhibitor in the setting of interstitial lung disease. BMJ Case Reports, 2017, 2017, bcr-2017-220932.	0.5	2
64	Severe babesiosis with associated splenic infarcts and asplenia. Baylor University Medical Center Proceedings, 2021, 34, 597-599.	0.5	1
65	Systematic tissue collection during clinical breast biopsy is feasible, safe and enables high-content translational analyses. Npj Precision Oncology, 2021, 5, 85.	5.4	1
66	Niche-Based Screening Identifies Novel Small Molecules That Overcome Stromal Effects in Multiple Myeloma. Blood, 2012, 120, 571-571.	1.4	1
67	Immunotoxin Enables Non-Genotoxic Conditioning for Hematopoietic Stem Cell Transplantation. Blood, 2015, 126, 32-32.	1.4	1
68	TEMPI: A Reversible Syndrome Following Treatment with Bortezomib. Blood, 2012, 120, 986-986.	1.4	1
69	Targeting Pre-B Cell Receptor and BCL6 In TCF3-PBX1 B-Lineage Acute Lymphoblastic Leukemia. Blood, 2013, 122, 349-349.	1.4	1
70	TREM4 is required for enhanced OpZ-induced superoxide generation following priming. Journal of Leukocyte Biology, 2022, , .	3.3	1
71	A man with polycythemia vera, myelodysplastic syndrome and acquired microcytosis. BMJ Case Reports, 2019, 12, e229695.	0.5	0
72	Insights From a Patient With Lung Cancerâ€”Party Therapy Is Way Better Than Chemotherapy. JAMA Oncology, 2019, 5, 1685.	7.1	0

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73	The TEMPI Syndrome: Telangiectasias, Elevated Erythropoietin and Erythrocytosis, Monoclonal Gammopathy, Perinephric Fluid Collections, and Intrapulmonary Shunting. <i>Blood</i> , 2011, 118, 1037-1037.	1.4	0
74	Identifying Small Molecules That Overcome HoxA9-Mediated Differentiation Arrest in Acute Myeloid Leukemia. <i>Blood</i> , 2012, 120, 3513-3513.	1.4	0
75	Aldehyde Dehydrogenase 3a2 (Aldh3a2) Represents a Distinct Metabolic Vulnerability in MLL-AF9 AML Leukemia Initiating Cells. <i>Blood</i> , 2012, 120, 208-208.	1.4	0
76	Neutrophils Derived from Ezh2 ^{-/-} Progenitor Cells Demonstrate Aberrant Erythroid Lineage Gene Expression. <i>Blood</i> , 2015, 126, 4112-4112.	1.4	0
77	Osteoblastic Cell-Derived Extracellular Vesicles Transfer Small RNAs That Alter the Physiology of Hematopoietic Cells <i>In Vivo</i> . <i>Blood</i> , 2017, 130, 93-93.	1.4	0
78	Specific Bone Marrow Mesenchymal Subsets in Patients with Myelodysplastic Syndromes Harbor Molecular Perturbations That Alter the Dynamics of Competition between Pre-Leukemic Clones and Normal Cells. <i>Blood</i> , 2018, 132, 938-938.	1.4	0
79	Functionally Distinct Subsets of Monocytes in Mouse and Human Blood. <i>Blood</i> , 2019, 134, 438-438.	1.4	0
80	Niche Transfer of Small Non-Coding RNAs Regulates Hematopoietic Response to Stress. <i>Blood</i> , 2019, 134, 1207-1207.	1.4	0
81	What Links Neutropenia to Immature Cardiolipin in Patients with Barth Syndrome (tafazzin-deficiency)? <i>Blood</i> , 2019, 134, 3579-3579.	1.4	0
82	Abstract 982: A new transcriptional metastatic signature predicts survival in clear cell renal cell carcinoma. <i>Cancer Research</i> , 2022, 82, 982-982.	0.9	0