Merav Socolovsky

List of Publications by Year in descending order

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57 papers	4,278 citations	201674 27 h-index	276875 41 g-index
60 all docs	60 docs citations	60 times ranked	5430 citing authors

#	Article	IF	Citations
1	Fetal Anemia and Apoptosis of Red Cell Progenitors in Stat5aâ^'/â^'5bâ^'/â^' Mice. Cell, 1999, 98, 181-191.	28.9	665
2	Ineffective erythropoiesis in Stat5aâ^'/â^'5bâ^'/â^' mice due to decreased survival of early erythroblasts. Blood, 2001, 98, 3261-3273.	1.4	625
3	Role of Ras signaling in erythroid differentiation of mouse fetal liver cells: functional analysis by a flow cytometryâ€"based novel culture system. Blood, 2003, 102, 3938-3946.	1.4	365
4	Genetic Analysis of BRCA1 Function in a Defined Tumor Cell Line. Molecular Cell, 1999, 4, 1093-1099.	9.7	332
5	Population snapshots predict early haematopoietic and erythroid hierarchies. Nature, 2018, 555, 54-60.	27.8	292
6	Fundamental limits on dynamic inference from single-cell snapshots. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E2467-E2476.	7.1	243
7	CYTOKINE RECEPTOR SIGNAL TRANSDUCTION AND THE CONTROL OF HEMATOPOIETIC CELL DEVELOPMENT. Annual Review of Cell and Developmental Biology, 1996, 12, 91-128.	9.4	196
8	Suppression of Fas-FasL coexpression by erythropoietin mediates erythroblast expansion during the erythropoietic stress response in vivo. Blood, 2006, 108, 123-133.	1.4	192
9	A Key Commitment Step in Erythropoiesis Is Synchronized with the Cell Cycle Clock through Mutual Inhibition between PU.1 and S-Phase Progression. PLoS Biology, 2010, 8, e1000484.	5.6	149
10	Global DNA Demethylation During Mouse Erythropoiesis in Vivo. Science, 2011, 334, 799-802.	12.6	142
11	Molecular insights into stress erythropoiesis. Current Opinion in Hematology, 2007, 14, 215-224.	2.5	119
12	Identification and Analysis of Mouse Erythroid Progenitors using the CD71/TER119 Flow-cytometric Assay. Journal of Visualized Experiments, 2011, , .	0.3	98
13	The Prolactin Receptor and Severely Truncated Erythropoietin Receptors Support Differentiation of Erythroid Progenitors. Journal of Biological Chemistry, 1997, 272, 14009-14012.	3.4	95
14	Dynamics of the 4D genome during in vivo lineage specification and differentiation. Nature Communications, 2020, 11, 2722.	12.8	79
15	The Prolactin Receptor Rescues EpoRâ^'/â^' Erythroid Progenitors and Replaces EpoR in a Synergistic Interaction With c-kit. Blood, 1998, 92, 1491-1496.	1.4	59
16	Increased EPO Levels Are Associated With Bone Loss in Mice Lacking PHD2 in EPO-Producing Cells. Journal of Bone and Mineral Research, 2016, 31, 1877-1887.	2.8	56
17	Negative Autoregulation by FAS Mediates Robust Fetal Erythropoiesis. PLoS Biology, 2007, 5, e252.	5.6	51
18	Rb and N- ras Function Together To Control Differentiation in the Mouse. Molecular and Cellular Biology, 2003, 23, 5256-5268.	2.3	49

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19	Global increase in replication fork speed during a p57 ^{KIP2} -regulated erythroid cell fate switch. Science Advances, 2017, 3, e1700298.	10.3	44
20	Contrasting dynamic responses in vivo of the Bcl-xL and Bim erythropoietic survival pathways. Blood, 2012, 119, 1228-1239.	1.4	41
21	Stat5 Signaling Specifies Basal versus Stress Erythropoietic Responses through Distinct Binary and Graded Dynamic Modalities. PLoS Biology, 2012, 10, e1001383.	5.6	39
22	Negative Autoregulation by Fas Stabilizes Adult Erythropoiesis and Accelerates Its Stress Response. PLoS ONE, 2011, 6, e21192.	2.5	37
23	Erythropoiesis: From Molecular Pathways to System Properties. Advances in Experimental Medicine and Biology, 2014, 844, 37-58.	1.6	36
24	Transgenic Analysis of the Stem Cell Leukemia +19 Stem Cell Enhancer in Adult and Embryonic Hematopoietic and Endothelial Cells. Stem Cells, 2005, 23, 1378-1388.	3.2	35
25	Developmental Control of Apoptosis by the Immunophilin Aryl Hydrocarbon Receptor-interacting Protein (AIP) Involves Mitochondrial Import of the Survivin Protein. Journal of Biological Chemistry, 2011, 286, 16758-16767.	3.4	35
26	Tyrosine Residues within the Intracellular Domain of the Erythropoietin Receptor Mediate Activation of AP-1 Transcription Factors. Journal of Biological Chemistry, 1998, 273, 2396-2401.	3.4	33
27	The signaling domain of the erythropoietin receptor rescues prolactin receptor-mutant mammary epithelium. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 14241-14245.	7.1	29
28	Exploring the erythroblastic island. Nature Medicine, 2013, 19, 399-401.	30.7	24
29	Cytokines in Hematopoiesis: Specificity and Redundancy in Receptor Function. Advances in Protein Chemistry, 1998, 52, 141-198.	4.4	20
30	EpoR stimulates rapid cycling and larger red cells during mouse and human erythropoiesis. Nature Communications, 2021, 12, 7334.	12.8	18
31	The shifting shape and functional specializations of the cell cycle during lineage development. WIREs Mechanisms of Disease, 2021, 13, e1504.	3.3	13
32	Intracellular signaling by the erythropoietin receptor. , 2009, , 155-174.		13
33	BCL-XL mRNA Is Induced in Erythroid Progenitors In Vivo in a Mouse Model of Erythropoietic Stress.. Blood, 2006, 108, 1129-1129.	1.4	13
34	Role of Interferonâ€Î³â€“Producing Th1 Cells in a Murine Model of Type I Interferonâ€“Independent Autoinflammation Resulting From DN ase II Deficiency. Arthritis and Rheumatology, 2020, 72, 359-370.	5.6	9
35	High-throughput single-cell fate potential assay of murine hematopoietic progenitors in vitro. Experimental Hematology, 2018, 60, 21-29.e3.	0.4	7
36	Flow-Cytometric Measurement of Stat5 Phosphorylation In Vivo in the Mouse.. Blood, 2006, 108, 1158-1158.	1.4	7

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37	From blood development to disease: a paradigm for clinical translation. DMM Disease Models and Mechanisms, 2020, 13, .	2.4	4
38	The role of specialized cell cycles during erythroid lineage development: insights from single-cell RNA sequencing. International Journal of Hematology, 2022, 116, 163-173.	1.6	4
39	The Prolactin Receptor Rescues EpoRâ^'/â^' Erythroid Progenitors and Replaces EpoR in a Synergistic Interaction With c-kit. Blood, 1998, 92, 1491-1496.	1.4	2
40	Global DNA Demethylation During Physiological Erythropoiesis In Vivo. Blood, 2010, 116, 2083-2083.	1.4	1
41	Deletion Of Core Binding Factors Runx1 and Runx2 Leads To Perturbed Hematopoiesis In Multiple Lineages. Blood, 2013, 122, 46-46.	1.4	1
42	Negative Autoregulation by Fas Stabilizes the Erythroid Progenitor Pool and Accelerates the Erythropoietic Stress Response. Blood, 2010, 116, 2045-2045.	1.4	1
43	An SCL +19 Core Enhancer Targets Three Mesoderm-Derived Cell Lineages - Blood, Endothelium and Smooth Muscle.. Blood, 2004, 104, 4200-4200.	1.4	0
44	Bcl-xL Does Not Rescue Erythroid Colony (CFU-e) Formation in EpoRâ^'/â^' Progenitors, Suggesting a Cell-Cycle Role for EpoR.. Blood, 2006, 108, 1117-1117.	1.4	0
45	System-Level Analysis of Two Erythroid Progenitor Survival Pathways Reveals Their Distinct Dynamical Properties. Blood, 2008, 112, 2467-2467.	1.4	0
46	Digital and Analog Modes of Stat5 Signaling Regulate Basal and Stress Erythropoiesis. Blood, 2010, 116, 4766-4766.	1.4	0
47	The Erythropoietin Receptor Regulates The Number Of Cell Divisions and The Duration Of Erythroblast Terminal Differentiation By Regulating Erythroblast Iron. Blood, 2013, 122, 428-428.	1.4	0
48	Systems Biology and Epigenetic Mechanisms in Erythropoiesis. Blood, 2013, 122, SCI-11-SCI-11.	1.4	0
49	Activation of the Erythroid Transcriptional Program in Vivo Requires a Transient Shortening of S Phase, Regulated By the Cyclin-Dependent-Kinase Inhibitor p57KIP2. Blood, 2014, 124, 450-450.	1.4	0
50	Activation of the Erythroid Transcriptional Program in Murine Adult Bone Marrow Takes Place during a Faster, Shorter S Phase and Is Dependent on S Phase Progression. Blood, 2015, 126, 2130-2130.	1.4	0
51	Population Balance Reconstruction of the Hematopoietic Differentiation Hierarchy. Blood, 2016, 128, 3861-3861.	1.4	0
52	Reconstructing Early Erythroid Development In Vivo Using Single-Cell Transcriptomics. Blood, 2016, 128, 1195-1195.	1.4	0
53	Global Increase in Replication Fork Speed during a p57KIP2-Regulated Erythroid Cell Fate Switch. Blood, 2016, 128, 698-698.	1.4	0
54	Blood Cell Fate Decisions: Insights from Single-cell RNA-seq. Blood, 2019, 134, SCI-20-SCI-20.	1.4	0

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55	3027 â€“ HSC-INDEPENDENT EMP CONTAIN ERYTHROID/MEGAKARYOCYTE AND INNATE LYMPHOID/MYELOID LINEAGE HETEROGENEITY PRIOR TO SEEDING THE FETAL LIVER. Experimental Hematology, 2020, 88, S46.	0.4	0
56	Epor Stimulates Rapid Cycling and Larger Red Cells during Mouse and Human Erythropoiesis. Blood, 2021, 138, 852-852.	1.4	0
57	What differentiates a stress response from responsiveness in general?. Cell Systems, 2022, 13, 195-200.	6.2	0