

Sarah M Russell

List of Publications by Year in descending order

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81
papers

5,705
citations

126907

33
h-index

85541

71
g-index

88
all docs

88
docs citations

88
times ranked

6495
citing authors

#	ARTICLE	IF	CITATIONS
1	Defective lymphoid development in mice lacking expression of the common cytokine receptor $\hat{1}^3$ chain. <i>Immunity</i> , 1995, 2, 223-238.	14.3	993
2	Asymmetric T Lymphocyte Division in the Initiation of Adaptive Immune Responses. <i>Science</i> , 2007, 315, 1687-1691.	12.6	777
3	Heterodimerization of the IL-2 receptor $\hat{1}^2$ - and $\hat{1}^3$ -chain cytoplasmic domains is required for signalling. <i>Nature</i> , 1994, 369, 330-333.	27.8	320
4	Dlg, Scribble and Lgl in cell polarity, cell proliferation and cancer. <i>BioEssays</i> , 2003, 25, 542-553.	2.5	272
5	A Network of PDZ-Containing Proteins Regulates T Cell Polarity and Morphology during Migration and Immunological Synapse Formation. <i>Immunity</i> , 2005, 22, 737-748.	14.3	237
6	T cell protein tyrosine phosphatase attenuates T cell signaling to maintain tolerance in mice. <i>Journal of Clinical Investigation</i> , 2011, 121, 4758-4774.	8.2	198
7	The Molecular Basis of X-Linked Severe Combined Immunodeficiency: The Role of the Interleukin-2 Receptor gamma Chain as a Common gamma Chain, <i>gamma</i> c. <i>Immunological Reviews</i> , 1994, 138, 61-86.	6.0	190
8	Different interleukin 2 receptor beta-chain tyrosines couple to at least two signaling pathways and synergistically mediate interleukin 2-induced proliferation.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996, 93, 2077-2082.	7.1	184
9	DOCK8 deficiency impairs CD8 T cell survival and function in humans and mice. <i>Journal of Experimental Medicine</i> , 2011, 208, 2305-2320.	8.5	175
10	Asymmetric Proteasome Segregation as a Mechanism for Unequal Partitioning of the Transcription Factor T-bet during T Lymphocyte Division. <i>Immunity</i> , 2011, 34, 492-504.	14.3	166
11	The tumour-suppressor Scribble dictates cell polarity during directed epithelial migration: regulation of Rho GTPase recruitment to the leading edge. <i>Oncogene</i> , 2007, 26, 2272-2282.	5.9	164
12	The Scribble and Par complexes in polarity and migration: friends or foes?. <i>Trends in Cell Biology</i> , 2006, 16, 622-630.	7.9	137
13	Tissue-specific and allelic expression of the complement regulator CD46 is controlled by alternative splicing. <i>European Journal of Immunology</i> , 1992, 22, 1513-1518.	2.9	129
14	Asymmetric Cell Division of T Cells upon Antigen Presentation Uses Multiple Conserved Mechanisms. <i>Journal of Immunology</i> , 2010, 185, 367-375.	0.8	117
15	hScrib is a functional homologue of the Drosophila tumour suppressor Scribble. <i>Oncogene</i> , 2003, 22, 9225-9230.	5.9	104
16	Polymorphic expression of CD46 protein isoforms due to tissue-specific RNA splicing. <i>Molecular Immunology</i> , 1993, 30, 1231-1241.	2.2	95
17	Postoperative serious adverse events in a teaching hospital: a prospective study. <i>Medical Journal of Australia</i> , 2002, 176, 216-218.	1.7	91
18	Asymmetric segregation and self-renewal of hematopoietic stem and progenitor cells with endocytic Ap2a2. <i>Blood</i> , 2012, 119, 2510-2522.	1.4	84

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19	Alternatively spliced RNAs encode several isoforms of CD46 (MCP), a regulator of complement activation. <i>Immunogenetics</i> , 1991, 33, 335-344.	2.4	78
20	Ligand Binding Determines Whether CD46 Is Internalized by Clathrin-coated Pits or Macropinocytosis. <i>Journal of Biological Chemistry</i> , 2003, 278, 46927-46937.	3.4	70
21	Regulation of asymmetric cell division and polarity by Scribble is not required for humoral immunity. <i>Nature Communications</i> , 2013, 4, 1801.	12.8	65
22	Delineation of the Regions of Interleukin-2 (IL-2) Receptor \hat{I}^2 Chain Important for Association of Jak1 and Jak3. <i>Journal of Biological Chemistry</i> , 1998, 273, 10719-10725.	3.4	62
23	CD46: A complement regulator and pathogen receptor that mediates links between innate and acquired immune function. <i>Tissue Antigens</i> , 2004, 64, 111-118.	1.0	57
24	Second harmonic generation imaging via nonlinear endomicroscopy. <i>Optics Express</i> , 2010, 18, 1255.	3.4	57
25	A Functional Interaction between CD46 and DLG4. <i>Journal of Biological Chemistry</i> , 2002, 277, 4477-4484.	3.4	55
26	Human astrocytes express membrane cofactor protein (CD46), a regulator of complement activation. <i>Journal of Neuroimmunology</i> , 1992, 36, 199-208.	2.3	49
27	Different membrane cofactor protein (CD46) isoforms protect transfected cells against antibody and complement mediated lysis. <i>Transplant Immunology</i> , 1993, 1, 101-108.	1.2	49
28	Ligation of the cell surface receptor, CD46, alters T cell polarity and response to antigen presentation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 18685-18690.	7.1	47
29	A method for prolonged imaging of motile lymphocytes. <i>Immunology and Cell Biology</i> , 2009, 87, 154-158.	2.3	42
30	Cutting Edge: DNAX Accessory Molecule \hat{I} -Deficient CD8+ T Cells Display Immunological Synapse Defects That Impair Antitumor Immunity. <i>Journal of Immunology</i> , 2014, 192, 553-557.	0.8	39
31	The Cytoplasmic Tail of $\hat{I}\pm 1,3$ -Galactosyltransferase Inhibits Golgi Localization of the Full-length Enzyme. <i>Journal of Biological Chemistry</i> , 2002, 277, 10374-10378.	3.4	37
32	Polarized Cells, Polarized Views: Asymmetric Cell Division in Hematopoietic Cells. <i>Frontiers in Immunology</i> , 2014, 5, 26.	4.8	36
33	Imaging of goblet cells as a marker for intestinal metaplasia of the stomach by one-photon and two-photon fluorescence endomicroscopy. <i>Journal of Biomedical Optics</i> , 2009, 14, 064031.	2.6	35
34	Asymmetric cell division during T cell development controls downstream fate. <i>Journal of Cell Biology</i> , 2015, 210, 933-950.	5.2	33
35	How polarity shapes the destiny of T cells. <i>Journal of Cell Science</i> , 2008, 121, 131-136.	2.0	31
36	Upsides and downsides to polarity and asymmetric cell division in leukemia. <i>Oncogene</i> , 2008, 27, 7003-7017.	5.9	30

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37	Characterization of In Vivo Dlg1 Deletion on T Cell Development and Function. PLoS ONE, 2012, 7, e45276.	2.5	26
38	Context-Specific Mechanisms of Cell Polarity Regulation. Journal of Molecular Biology, 2018, 430, 3457-3471.	4.2	21
39	Quantifying subcellular distribution of fluorescent fusion proteins in cells migrating within tissues. Immunology and Cell Biology, 2011, 89, 549-557.	2.3	19
40	Divergent lymphocyte signalling revealed by a powerful new tool for analysis of time-lapse microscopy. Immunology and Cell Biology, 2013, 91, 70-81.	2.3	19
41	Nanoscale magnetic imaging enabled by nitrogen vacancy centres in nanodiamonds labelled by iron-oxide nanoparticles. Nanoscale, 2020, 12, 8847-8857.	5.6	18
42	Developing T cells form an immunological synapse for passage through the β 2-selection checkpoint. Journal of Cell Biology, 2021, 220, .	5.2	18
43	Expression of interleukin-2 receptor β 3 on human monocytes: characterization of lineage specific post-translational modifications. European Journal of Immunology, 1995, 25, 291-294.	2.9	17
44	A new role for Notch in the control of polarity and asymmetric cell division of developing T cells. Journal of Cell Science, 2020, 133, .	2.0	17
45	Lethal Giant Larvae 1 Tumour Suppressor Activity Is Not Conserved in Models of Mammalian T and B Cell Leukaemia. PLoS ONE, 2014, 9, e87376.	2.5	17
46	Calcium Signaling Is Required for Erythroid Eucleation. PLoS ONE, 2016, 11, e0146201.	2.5	17
47	The Reorientation of T-Cell Polarity and Inhibition of Immunological Synapse Formation by CD46 Involves Its Recruitment to Lipid Rafts. Journal of Lipids, 2011, 2011, 1-10.	4.8	16
48	Chitosan-coated amyloid fibrils increase adipogenesis of mesenchymal stem cells. Materials Science and Engineering C, 2017, 79, 363-371.	7.3	16
49	Scribble acts as an oncogene in β 1/4-myc-driven lymphoma. Oncogene, 2016, 35, 1193-1197.	5.9	15
50	Compartmentalization in T-cell signalling: Membrane microdomains and polarity orchestrate signalling and morphology. Immunology and Cell Biology, 2006, 84, 107-113.	2.3	13
51	Determination of T-cell fate by dendritic cells: a new role for asymmetric cell division?. Immunology and Cell Biology, 2008, 86, 423-427.	2.3	12
52	Normalized Polarization Ratios for the Analysis of Cell Polarity. PLoS ONE, 2014, 9, e99885.	2.5	12
53	Retroviral Vector for Gene Therapy of X-Linked Severe Combined Immunodeficiency Syndrome. Stem Cells and Development, 1995, 4, 91-98.	1.0	11
54	Three-dimensional localisation of fluorescence resonance energy transfer in living cells under two-photon excitation. Scanning, 2001, 23, 9-13.	1.5	11

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55	TACTICS, an interactive platform for customized high-content bioimaging analysis. <i>Bioinformatics</i> , 2013, 29, 817-818.	4.1	11
56	Dense small molecule labeling enables activator-dependent STORM by proximity mapping. <i>Histochemistry and Cell Biology</i> , 2016, 146, 255-266.	1.7	11
57	An integrated transcriptional switch at the \hat{I}^2 -selection checkpoint determines T cell survival, development and leukaemogenesis. <i>Biochemical Society Transactions</i> , 2019, 47, 1077-1089.	3.4	9
58	Maps of variability in cell lineage trees. <i>PLoS Computational Biology</i> , 2019, 15, e1006745.	3.2	9
59	A Chemical Screening Approach to Identify Novel Key Mediators of Erythroid Enucleation. <i>PLoS ONE</i> , 2015, 10, e0142655.	2.5	8
60	The Scribbleâ€“Dlgâ€“Lgl Module in Cell Polarity Regulation. , 2015, , 65-111.		8
61	Superâ€“resolution imaging and statistical analysis of CdSe/CdS Core/Shell semiconductor nanocrystals. <i>Journal of Biophotonics</i> , 2010, 3, 437-445.	2.3	6
62	Polarization of excitation light influences molecule counting in single-molecule localization microscopy. <i>Histochemistry and Cell Biology</i> , 2015, 143, 11-19.	1.7	6
63	Polarity and asymmetric cell division in the control of lymphocyte fate decisions and function. <i>Current Opinion in Immunology</i> , 2016, 39, 143-149.	5.5	6
64	Imaging Asymmetric T Cell Division. <i>Methods in Molecular Biology</i> , 2017, 1584, 383-398.	0.9	6
65	Interplay of Polarity Proteins and GTPases in T-Lymphocyte Function. <i>Clinical and Developmental Immunology</i> , 2012, 2012, 1-8.	3.3	5
66	Lethal giant larvaeâ€“1 deficiency enhances the CD8 + effector Tâ€“cell response to antigen challenge in vivo. <i>Immunology and Cell Biology</i> , 2016, 94, 306-311.	2.3	5
67	Parity reduces mammary repopulating activity but does not affect mammary stem cells defined as CD24â€“%+â€“%CD29/CD49fhi in mice. <i>Breast Cancer Research and Treatment</i> , 2020, 183, 565-575.	2.5	4
68	The Asymmetric Cell Division Regulators Par3, Scribble and Pins/Gpsm2 Are Not Essential for Erythroid Development or Enucleation. <i>PLoS ONE</i> , 2017, 12, e0170295.	2.5	4
69	Spectra and lifetimes of fluorescence resonance energy transfer fluorophores under twoâ€“photon excitation. <i>Scanning</i> , 2003, 25, 116-120.	1.5	1
70	<i>In vitro</i> tracking and intracellular protein distribution in immunology. <i>Immunology and Cell Biology</i> , 2017, 95, 501-505.	2.3	1
71	Perturbation Of Gpsm2/Lgn Enhances Haematopoietic Stem Cell Function. <i>Blood</i> , 2013, 122, 1176-1176.	1.4	1
72	Establishing a multiplex imaging panel to study Tâ€“cell development in the thymus in mouse. <i>STAR Protocols</i> , 2022, 3, 101472.	1.2	1

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73	The common Î³ chain (Î³c) and its involvement in X-linked SCID. Clinical Immunology Newsletter, 1994, 14, 79-83.	0.1	0
74	A mechanism for the regulation of immune cell signalling by the complement receptor, CD46. Molecular Immunology, 2007, 44, 223-224.	2.2	0
75	Combining optical tweezing and confocal microscopy for the study of cell mechanics. , 2007, , .		0
76	Role of the polarity protein, scribble, in hematopoiesis and leukemia. Experimental Hematology, 2014, 42, S31.	0.4	0
77	The polarity protein, PAR3, is a key regulator of haematopoietic progenitors. Experimental Hematology, 2015, 43, S61.	0.4	0
78	Scribble impacts on thymocyte numbers in vivo. Experimental Hematology, 2016, 44, S69.	0.4	0
79	Mediating signaling response to actin-mediated forces: Caspase is causal in the T cell response to forces triggered by antigen presentation. Immunology and Cell Biology, 2016, 94, 905-906.	2.3	0
80	Superresolved Magnetic Imaging of Cells with Nanodiamonds. , 2018, , .		0
81	Estrogen receptor positive luminal progenitors the cancer cell origin for Estrogen receptor positive breast cancer. Oncology Abstracts, 0, , .	0.0	0