

David J Rawlings

List of Publications by Year in descending order

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122
papers

13,306
citations

26630

56
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22832

112
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128
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128
docs citations

128
times ranked

16919
citing authors

#	ARTICLE	IF	CITATIONS
1	CD19+CD24hiCD38hi B Cells Exhibit Regulatory Capacity in Healthy Individuals but Are Functionally Impaired in Systemic Lupus Erythematosus Patients. <i>Immunity</i> , 2010, 32, 129-140.	14.3	1,382
2	Deficient expression of a B cell cytoplasmic tyrosine kinase in human X-linked agammaglobulinemia. <i>Cell</i> , 1993, 72, 279-290.	28.9	1,295
3	Mutation of unique region of Bruton's tyrosine kinase in immunodeficient XID mice. <i>Science</i> , 1993, 261, 358-361.	12.6	853
4	Functional SARS-CoV-2-Specific Immune Memory Persists after Mild COVID-19. <i>Cell</i> , 2021, 184, 169-183.e17.	28.9	580
5	Novel Suppressive Function of Transitional 2 B Cells in Experimental Arthritis. <i>Journal of Immunology</i> , 2007, 178, 7868-7878.	0.8	507
6	A Crucial Role for the p110 β Subunit of Phosphatidylinositol 3-Kinase in B Cell Development and Activation. <i>Journal of Experimental Medicine</i> , 2002, 196, 753-763.	8.5	417
7	Phosphorylation of the CARMA1 Linker Controls NF- κ B Activation. <i>Immunity</i> , 2005, 23, 561-574.	14.3	311
8	PKC- β controls κ B kinase lipid raft recruitment and activation in response to BCR signaling. <i>Nature Immunology</i> , 2002, 3, 780-786.	14.5	306
9	Tracking genome engineering outcome at individual DNA breakpoints. <i>Nature Methods</i> , 2011, 8, 671-676.	19.0	282
10	Integration of B cell responses through Toll-like receptors and antigen receptors. <i>Nature Reviews Immunology</i> , 2012, 12, 282-294.	22.7	281
11	Altered B cell signalling in autoimmunity. <i>Nature Reviews Immunology</i> , 2017, 17, 421-436.	22.7	243
12	Somatically Hypermutated Plasmodium-Specific IgM+ Memory B Cells Are Rapid, Plastic, Early Responders upon Malaria Rechallenge. <i>Immunity</i> , 2016, 45, 402-414.	14.3	229
13	Trypanosoma cruzi trans-sialidase initiates a program independent of the transcription factors ROR γ t and Ahr that leads to IL-17 production by activated B cells. <i>Nature Immunology</i> , 2013, 14, 514-522.	14.5	225
14	Engagement of the Human Pre-B Cell Receptor Generates a Lipid Raft-Dependent Calcium Signaling Complex. <i>Immunity</i> , 2000, 13, 243-253.	14.3	209
15	Efficient modification of CCR5 in primary human hematopoietic cells using a megaTAL nuclease and AAV donor template. <i>Science Translational Medicine</i> , 2015, 7, 307ra156.	12.4	204
16	HS1 Functions as an Essential Actin-Regulatory Adaptor Protein at the Immune Synapse. <i>Immunity</i> , 2006, 24, 741-752.	14.3	203
17	Transitional B Lymphocyte Subsets Operate as Distinct Checkpoints in Murine Splenic B Cell Development. <i>Journal of Immunology</i> , 2002, 168, 2101-2110.	0.8	201
18	Calcium signalling and cell-fate choice in B cells. <i>Nature Reviews Immunology</i> , 2007, 7, 778-789.	22.7	198

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19	B cell IFN- β receptor signaling promotes autoimmune germinal centers via cell-intrinsic induction of BCL-6. <i>Journal of Experimental Medicine</i> , 2016, 213, 733-750.	8.5	182
20	The CARMA1 signalosome links the signalling machinery of adaptive and innate immunity in lymphocytes. <i>Nature Reviews Immunology</i> , 2006, 6, 799-812.	22.7	175
21	B cell-derived IL-6 initiates spontaneous germinal center formation during systemic autoimmunity. <i>Journal of Experimental Medicine</i> , 2017, 214, 3207-3217.	8.5	168
22	A disease-associated PTPN22 variant promotes systemic autoimmunity in murine models. <i>Journal of Clinical Investigation</i> , 2013, 123, 2024-2036.	8.2	162
23	WASp-deficient B cells play a critical, cell-intrinsic role in triggering autoimmunity. <i>Journal of Experimental Medicine</i> , 2011, 208, 2033-2042.	8.5	146
24	Opposing Impact of B Cell Intrinsic TLR7 and TLR9 Signals on Autoantibody Repertoire and Systemic Inflammation. <i>Journal of Immunology</i> , 2014, 192, 4525-4532.	0.8	136
25	Engineering HIV-Resistant, Anti-HIV Chimeric Antigen Receptor T Cells. <i>Molecular Therapy</i> , 2017, 25, 570-579.	8.2	134
26	B cell-intrinsic TLR signals amplify but are not required for humoral immunity. <i>Journal of Experimental Medicine</i> , 2007, 204, 3095-3101.	8.5	133
27	B Cell Developmental Requirement for the <i>GATA2</i> Gene. <i>Journal of Immunology</i> , 2003, 170, 1707-1715.	0.8	126
28	Characterization of a late transitional B cell population highly sensitive to BAFF-mediated homeostatic proliferation. <i>Journal of Experimental Medicine</i> , 2008, 205, 155-168.	8.5	125
29	The A946T variant of the RNA sensor IFIH1 mediates an interferon program that limits viral infection but increases the risk for autoimmunity. <i>Nature Immunology</i> , 2017, 18, 744-752.	14.5	119
30	Targeted gene editing restores regulated CD40L function in X-linked hyper-IgM syndrome. <i>Blood</i> , 2016, 127, 2513-2522.	1.4	118
31	Altered B Cell Homeostasis Is Associated with Type I Diabetes and Carriers of the PTPN22 Allelic Variant. <i>Journal of Immunology</i> , 2012, 188, 487-496.	0.8	114
32	Protein kinase C family functions in B-cell activation. <i>Current Opinion in Immunology</i> , 2004, 16, 367-373.	5.5	113
33	Signaling in transitional type 2 B cells is critical for peripheral B-cell development. <i>Immunological Reviews</i> , 2004, 197, 161-178.	6.0	106
34	Bruton's Tyrosine Kinase is a Key Regulator in B-Cell Development. <i>Immunological Reviews</i> , 1994, 138, 105-119.	6.0	102
35	Local increase in thymic stromal lymphopoietin induces systemic alterations in B cell development. <i>Nature Immunology</i> , 2007, 8, 522-531.	14.5	95
36	Bruton's Tyrosine Kinase Controls a Sustained Calcium Signal Essential for B Lineage Development and Function. <i>Clinical Immunology</i> , 1999, 91, 243-253.	3.2	92

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37	Engineering Protein-Secreting Plasma Cells by Homology-Directed Repair in Primary Human B Cells. <i>Molecular Therapy</i> , 2018, 26, 456-467.	8.2	92
38	PTPN22 regulates NLRP3-mediated IL1B secretion in an autophagy-dependent manner. <i>Autophagy</i> , 2017, 13, 1590-1601.	9.1	90
39	Wiskott-Aldrich syndrome protein deficiency in B cells results in impaired peripheral homeostasis. <i>Blood</i> , 2008, 112, 4158-4169.	1.4	89
40	Therapeutically relevant engraftment of a CRISPR-Cas9â€‘edited HSC-enriched population with HbF reactivation in nonhuman primates. <i>Science Translational Medicine</i> , 2019, 11, .	12.4	88
41	Excellent outcomes following hematopoietic cell transplantation for Wiskott-Aldrich syndrome: a PIDTC report. <i>Blood</i> , 2020, 135, 2094-2105.	1.4	87
42	Coupling endonucleases with DNA endâ€‘processing enzymes to drive gene disruption. <i>Nature Methods</i> , 2012, 9, 973-975.	19.0	86
43	Rapamycin relieves lentiviral vector transduction resistance in human and mouse hematopoietic stem cells. <i>Blood</i> , 2014, 124, 913-923.	1.4	78
44	Daedalus: a robust, turnkey platform for rapid production of decigram quantities of active recombinant proteins in human cell lines using novel lentiviral vectors. <i>Nucleic Acids Research</i> , 2011, 39, e143-e143.	14.5	74
45	InÂVivo Outcome of Homology-Directed Repair at the HBB Gene in HSC Using Alternative Donor Template Delivery Methods. <i>Molecular Therapy - Nucleic Acids</i> , 2019, 17, 277-288.	5.1	74
46	Gene editing to induce FOXP3 expression in human CD4 ⁺ T cells leads to a stable regulatory phenotype and function. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	73
47	B cell autonomous TLR signaling and autoimmunity. <i>Autoimmunity Reviews</i> , 2008, 7, 313-316.	5.8	69
48	Constitutive membrane association potentiates activation of Bruton tyrosine kinase. <i>Oncogene</i> , 1997, 15, 1375-1383.	5.9	68
49	SHP-1 regulates FcÎ³ receptorâ€‘mediated phagocytosis and the activation of RAC. <i>Blood</i> , 2002, 100, 1852-1859.	1.4	68
50	Altered BCR and TLR signals promote enhanced positive selection of autoreactive transitional B cells in Wiskott-Aldrich syndrome. <i>Journal of Experimental Medicine</i> , 2015, 212, 1663-1677.	8.5	67
51	The Role of <i>PTPN22</i> Risk Variant in the Development of Autoimmunity: Finding Common Ground between Mouse and Human. <i>Journal of Immunology</i> , 2015, 194, 2977-2984.	0.8	66
52	Novel fluorescent genome editing reporters for monitoring DNA repair pathway utilization at endonuclease-induced breaks. <i>Nucleic Acids Research</i> , 2014, 42, e4-e4.	14.5	65
53	Primary Immune Deficiency Treatment Consortium (PIDTC) report. <i>Journal of Allergy and Clinical Immunology</i> , 2014, 133, 335-347.e11.	2.9	65
54	Intraosseous Delivery of Lentiviral Vectors Targeting Factor VIII Expression in Platelets Corrects Murine Hemophilia A. <i>Molecular Therapy</i> , 2015, 23, 617-626.	8.2	63

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55	B cell-specific lentiviral gene therapy leads to sustained B-cell functional recovery in a murine model of X-linked agammaglobulinemia. <i>Blood</i> , 2010, 115, 2146-2155.	1.4	62
56	Cutting Edge: BAFF Promotes Autoantibody Production via TACI-Dependent Activation of Transitional B Cells. <i>Journal of Immunology</i> , 2016, 196, 3525-3531.	0.8	60
57	Homology-Directed Recombination for Enhanced Engineering of Chimeric Antigen Receptor T Cells. <i>Molecular Therapy - Methods and Clinical Development</i> , 2017, 4, 192-203.	4.1	53
58	Treosulfan-Based Conditioning and Hematopoietic Cell Transplantation for Nonmalignant Diseases: A Prospective Multicenter Trial. <i>Biology of Blood and Marrow Transplantation</i> , 2014, 20, 1996-2003.	2.0	51
59	B cells take the front seat: dysregulated B cell signals orchestrate loss of tolerance and autoantibody production. <i>Current Opinion in Immunology</i> , 2015, 33, 70-77.	5.5	51
60	Ubiquitous high-level gene expression in hematopoietic lineages provides effective lentiviral gene therapy of murine Wiskott-Aldrich syndrome. <i>Blood</i> , 2012, 119, 4395-4407.	1.4	50
61	Generation of functional murine CD11c ⁺ age-associated B cells in the absence of B cell Tbet expression. <i>European Journal of Immunology</i> , 2019, 49, 170-178.	2.9	48
62	Resident enteric microbiota and CD8 ⁺ T cells shape the abundance of marginal zone B cells. <i>European Journal of Immunology</i> , 2008, 38, 3411-3425.	2.9	47
63	Sustained correction of B-cell development and function in a murine model of X-linked agammaglobulinemia (XLA) using retroviral-mediated gene transfer. <i>Blood</i> , 2004, 104, 1281-1290.	1.4	46
64	Reduced c-myc Expression Levels Limit Follicular Mature B Cell Cycling in Response to TLR Signals. <i>Journal of Immunology</i> , 2009, 182, 4065-4075.	0.8	45
65	In vitro Inactivation of Latent HSV by Targeted Mutagenesis Using an HSV-specific Homing Endonuclease. <i>Molecular Therapy - Nucleic Acids</i> , 2014, 3, e146.	5.1	45
66	TALEN-Mediated Gene Editing of HBG in Human Hematopoietic Stem Cells Leads to Therapeutic Fetal Hemoglobin Induction. <i>Molecular Therapy - Methods and Clinical Development</i> , 2019, 12, 175-183.	4.1	45
67	Successful Targeting and Disruption of an Integrated Reporter Lentivirus Using the Engineered Homing Endonuclease Y2 I-Anil. <i>PLoS ONE</i> , 2011, 6, e16825.	2.5	45
68	Cutting Edge: BAFF Overexpression Reduces Atherosclerosis via TACI-Dependent B Cell Activation. <i>Journal of Immunology</i> , 2016, 197, 4529-4534.	0.8	41
69	Multiplexed Functional Assessment of Genetic Variants in CARD11. <i>American Journal of Human Genetics</i> , 2020, 107, 1029-1043.	6.2	38
70	VISA - Vector Integration Site Analysis server: a web-based server to rapidly identify retroviral integration sites from next-generation sequencing. <i>BMC Bioinformatics</i> , 2015, 16, 212.	2.6	37
71	The long and the short of it: insights into the cellular source of autoantibodies as revealed by B cell depletion therapy. <i>Current Opinion in Immunology</i> , 2018, 55, 81-88.	5.5	37
72	Intravenous injection of a foamy virus vector to correct canine SCID-X1. <i>Blood</i> , 2014, 123, 3578-3584.	1.4	36

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73	Differential impact of Toll-like receptor signaling on distinct B cell subpopulations. <i>Frontiers in Bioscience - Landmark</i> , 2012, 17, 1499.	3.0	35
74	CD4+ T Cells and CD40 Participate in Selection and Homeostasis of Peripheral B Cells. <i>Journal of Immunology</i> , 2014, 193, 3492-3502.	0.8	34
75	Activated PI3CD drives innate B cell expansion yet limits B cell "intrinsic immune responses. <i>Journal of Experimental Medicine</i> , 2018, 215, 2485-2496.	8.5	34
76	T cells selectively filter oscillatory signals on the minutes timescale. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	33
77	Development of B-lineage Predominant Lentiviral Vectors for Use in Genetic Therapies for B Cell Disorders. <i>Molecular Therapy</i> , 2011, 19, 515-525.	8.2	32
78	MAGUK-Controlled Ubiquitination of CARMA1 Modulates Lymphocyte NF- κ B Activity. <i>Molecular and Cellular Biology</i> , 2010, 30, 922-934.	2.3	31
79	The Tec Kinase "Regulated Phosphoproteome Reveals a Mechanism for the Regulation of Inhibitory Signals in Murine Macrophages. <i>Journal of Immunology</i> , 2015, 195, 246-256.	0.8	31
80	High Efficiency CRISPR/Cas9-mediated Gene Editing in Primary Human T-cells Using Mutant Adenoviral E4orf6/E1b55k "Helper" Proteins. <i>Molecular Therapy</i> , 2016, 24, 1570-1580.	8.2	31
81	The TYK2-P1104A Autoimmune Protective Variant Limits Coordinate Signals Required to Generate Specialized T Cell Subsets. <i>Frontiers in Immunology</i> , 2019, 10, 44.	4.8	30
82	The Autoimmune Risk Variant <i>PTPN22</i> C1858T Alters B Cell Tolerance at Discrete Checkpoints and Differentially Shapes the Naive Repertoire. <i>Journal of Immunology</i> , 2017, 199, 2249-2260.	0.8	29
83	Functional Characterization of CD11c+ Age-Associated B Cells as Memory B Cells. <i>Journal of Immunology</i> , 2019, 203, 2817-2826.	0.8	27
84	Neutralizing Antibodies Protect against Oral Transmission of Lymphocryptovirus. <i>Cell Reports Medicine</i> , 2020, 1, 100033.	6.5	25
85	Serine 649 Phosphorylation within the Protein Kinase C-Regulated Domain Down-Regulates CARMA1 Activity in Lymphocytes. <i>Journal of Immunology</i> , 2009, 183, 7362-7370.	0.8	24
86	$\hat{\nu}$ Integrins regulate germinal center B cell responses through noncanonical autophagy. <i>Journal of Clinical Investigation</i> , 2018, 128, 4163-4178.	8.2	24
87	Multimeric antibodies from antigen-specific human IgM+ memory B cells restrict <i>Plasmodium</i> parasites. <i>Journal of Experimental Medicine</i> , 2021, 218, .	8.5	23
88	BCR and co-receptor crosstalk facilitate the positive selection of self-reactive transitional B cells. <i>Current Opinion in Immunology</i> , 2015, 37, 46-53.	5.5	20
89	Germline SAMD9L truncation variants trigger global translational repression. <i>Journal of Experimental Medicine</i> , 2021, 218, .	8.5	20
90	Transitional B Cells Exhibit a B Cell Receptor-Specific Nuclear Defect in Gene Transcription. <i>Journal of Immunology</i> , 2009, 182, 2868-2878.	0.8	19

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91	B α cell intrinsic TLR7 signals promote depletion of the marginal zone in a murine model of Wiskott-Aldrich syndrome. <i>European Journal of Immunology</i> , 2015, 45, 2773-2779.	2.9	19
92	Integrated B Cell, Toll-like, and BAFF Receptor Signals Promote Autoantibody Production by Transitional B Cells. <i>Journal of Immunology</i> , 2018, 201, 3258-3268.	0.8	19
93	Protein tyrosine phosphatase PTPN22 regulates LFA-1 dependent Th1 responses. <i>Journal of Autoimmunity</i> , 2018, 94, 45-55.	6.5	19
94	Absence of functional fetal regulatory T cells in humans causes in utero organ-specific autoimmunity. <i>Journal of Allergy and Clinical Immunology</i> , 2017, 140, 616-619.e7.	2.9	18
95	Protein tyrosine phosphatase PTPN22 regulates IL-1 β dependent Th17 responses by modulating dectin-1 signaling in mice. <i>European Journal of Immunology</i> , 2018, 48, 306-315.	2.9	17
96	Efficient CRISPR/Cas9 Disruption of Autoimmune-Associated Genes Reveals Key Signaling Programs in Primary Human T Cells. <i>Journal of Immunology</i> , 2019, 203, 3166-3178.	0.8	17
97	Efficient Modification of the CCR5 Locus in Primary Human T Cells With megaTAL Nuclease Establishes HIV-1 Resistance. <i>Molecular Therapy - Nucleic Acids</i> , 2016, 5, e352.	5.1	16
98	Activated interleukin-7 receptor signaling drives B-cell acute lymphoblastic leukemia in mice. <i>Leukemia</i> , 2022, 36, 42-57.	7.2	16
99	Kinase-Independent Feedback of the TAK1/TAB1 Complex on BCL10 Turnover and NF- κ B Activation. <i>Molecular and Cellular Biology</i> , 2013, 33, 1149-1163.	2.3	15
100	Optimizing lentiviral vector transduction of hematopoietic stem cells for gene therapy. <i>Gene Therapy</i> , 2020, 27, 545-556.	4.5	15
101	TACI deletion protects against progressive murine lupus nephritis induced by BAFF overexpression. <i>Kidney International</i> , 2018, 94, 728-740.	5.2	14
102	Cutting Edge: Regulation of TLR4-Driven B Cell Proliferation by RP105 Is Not B Cell Autonomous. <i>Journal of Immunology</i> , 2012, 188, 2065-2069.	0.8	11
103	Safe and Effective Gene Therapy for Murine Wiskott-Aldrich Syndrome Using an Insulated Lentiviral Vector. <i>Molecular Therapy - Methods and Clinical Development</i> , 2017, 4, 1-16.	4.1	11
104	Activated CARD11 accelerates germinal center kinetics, promoting mTORC1 and terminal differentiation. <i>Journal of Experimental Medicine</i> , 2018, 215, 2445-2461.	8.5	11
105	Effective, safe, and sustained correction of murine XLA using a UCOE-BTK promoter-based lentiviral vector. <i>Molecular Therapy - Methods and Clinical Development</i> , 2021, 20, 635-651.	4.1	11
106	Protein tyrosine phosphatase PTPN22 is dispensable for dendritic cell antigen processing and promotion of T-cell activation by dendritic cells. <i>PLoS ONE</i> , 2017, 12, e0186625.	2.5	11
107	Developmentally regulated expression of μ 2C limits the response to BCR engagement in transitional B cells. <i>European Journal of Immunology</i> , 2012, 42, 1327-1336.	2.9	10
108	Emerging Roles for PKC Isoforms in Immune Cell Function. <i>Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics</i> , 2002, 2, 141-144.	3.4	10

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109	Generation of a cost-effective cell line for support of high-throughput isolation of primary human B cells and monoclonal neutralizing antibodies. <i>Journal of Immunological Methods</i> , 2021, 488, 112901.	1.4	9
110	Progressive engineering of a homing endonuclease genome editing reagent for the murine X-linked immunodeficiency locus. <i>Nucleic Acids Research</i> , 2014, 42, 6463-6475.	14.5	8
111	Efficient Enrichment of Gene-Modified Primary T Cells via CCR5-Targeted Integration of Mutant Dihydrofolate Reductase. <i>Molecular Therapy - Methods and Clinical Development</i> , 2018, 9, 347-357.	4.1	8
112	Hydroxychloroquine inhibits calcium signals in T cells: a new mechanism to explain its immunomodulatory properties. <i>Blood</i> , 2000, 95, 3460-3466.	1.4	7
113	Cutting Edge: A Threshold of B Cell Costimulatory Signals Is Required for Spontaneous Germinal Center Formation in Autoimmunity. <i>Journal of Immunology</i> , 2021, 207, 2217-2222.	0.8	6
114	Activated PI3K $\hat{\imath}$ signals compromise plasma cell survival via limiting autophagy and increasing ER stress. <i>Journal of Experimental Medicine</i> , 2021, 218, .	8.5	5
115	The Autoimmune Risk R262W Variant of the Adaptor SH2B3 Improves Survival in Sepsis. <i>Journal of Immunology</i> , 2021, 207, 2710-2719.	0.8	5
116	CRISPR/Cas9-Mediated Insertion of HIV Long Terminal Repeat within <i>BACH2</i> Promotes Expansion of T Regulatory $\hat{\imath}$ -like Cells. <i>Journal of Immunology</i> , 2022, 208, 1700-1710.	0.8	4
117	Phosphatase PTPN22 Regulates Dendritic Cell Homeostasis and cDC2 Dependent T Cell Responses. <i>Frontiers in Immunology</i> , 2020, 11, 376.	4.8	3
118	An optimized measles virus glycoprotein-pseudotyped lentiviral vector production system to promote efficient transduction of human primary B cells. <i>STAR Protocols</i> , 2022, 3, 101228.	1.2	3
119	TACI haploinsufficiency protects against BAFF $\hat{\imath}$ -driven humoral autoimmunity in mice. <i>European Journal of Immunology</i> , 2021, 51, 2225-2236.	2.9	1
120	Loss of the WASP-Interacting Protein, CIP4, Results In Murine Thrombocytopenia: Insights Into the Pathophysiology of WASP-Related Thrombocytopenia. <i>Blood</i> , 2010, 116, 382-382.	1.4	1
121	Health-Related Quality of Life in 91 Patients with X-Linked Agammaglobulinemia. <i>Journal of Clinical Immunology</i> , 2022, 42, 811-818.	3.8	1
122	Murine Hemophilia A With Or Without Pre-Existing Anti-Factor VIII Inhibitors Is Partially Corrected By Factor VIII Stored In Platelets After Intraosseous Infusion Of Lentiviral Vectors Into Bone Marrow Without Preconditioning. <i>Blood</i> , 2013, 122, 719-719.	1.4	0