

James C Zimring

List of Publications by Year in descending order

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Version: 2024-02-01

101
papers

4,644
citations

87843

38
h-index

110317

64
g-index

104
all docs

104
docs citations

104
times ranked

4248
citing authors

#	ARTICLE	IF	CITATIONS
1	Transfusion of red blood cells after prolonged storage produces harmful effects that are mediated by iron and inflammation. <i>Blood</i> , 2010, 115, 4284-4292.	0.6	449
2	COVID-19 infection alters kynurenine and fatty acid metabolism, correlating with IL-6 levels and renal status. <i>JCI Insight</i> , 2020, 5, .	2.3	412
3	Evidence of Structural Protein Damage and Membrane Lipid Remodeling in Red Blood Cells from COVID-19 Patients. <i>Journal of Proteome Research</i> , 2020, 19, 4455-4469.	1.8	189
4	Serum Proteomics in COVID-19 Patients: Altered Coagulation and Complement Status as a Function of IL-6 Level. <i>Journal of Proteome Research</i> , 2020, 19, 4417-4427.	1.8	155
5	Hypoxia modulates the purine salvage pathway and decreases red blood cell and supernatant levels of hypoxanthine during refrigerated storage. <i>Haematologica</i> , 2018, 103, 361-372.	1.7	131
6	Inflammation enhances consumption and presentation of transfused RBC antigens by dendritic cells. <i>Blood</i> , 2007, 110, 2736-2743.	0.6	126
7	Testosterone-dependent sex differences in red blood cell hemolysis in storage, stress, and disease. <i>Transfusion</i> , 2016, 56, 2571-2583.	0.8	118
8	Minor histocompatibility antigens on transfused leukoreduced units of red blood cells induce bone marrow transplant rejection in a mouse model. <i>Blood</i> , 2009, 114, 2315-2322.	0.6	116
9	A novel mouse model of red blood cell storage and posttransfusion in vivo survival. <i>Transfusion</i> , 2009, 49, 1546-1553.	0.8	106
10	Donor sex, age and ethnicity impact stored red blood cell antioxidant metabolism through mechanisms in part explained by glucose 6-phosphate dehydrogenase levels and activity. <i>Haematologica</i> , 2021, 106, 1290-1302.	1.7	95
11	Bridging channel dendritic cells induce immunity to transfused red blood cells. <i>Journal of Experimental Medicine</i> , 2016, 213, 887-896.	4.2	89
12	Strain-specific red blood cell storage, metabolism, and eicosanoid generation in a mouse model. <i>Transfusion</i> , 2014, 54, 137-148.	0.8	87
13	Established and theoretical factors to consider in assessing the red cell storage lesion. <i>Blood</i> , 2015, 125, 2185-2190.	0.6	85
14	Metabolomics of ADSOL (AS-1) Red Blood Cell Storage. <i>Transfusion Medicine Reviews</i> , 2014, 28, 41-55.	0.9	83
15	Red blood cells as an organ? How deep omics characterization of the most abundant cell in the human body highlights other systemic metabolic functions beyond oxygen transport. <i>Expert Review of Proteomics</i> , 2018, 15, 855-864.	1.3	81
16	Current problems and future directions of transfusion-induced alloimmunization: summary of an NHLBI working group. <i>Transfusion</i> , 2011, 51, 435-441.	0.8	78
17	Nonhemolytic antibody-induced loss of erythrocyte surface antigen. <i>Blood</i> , 2005, 106, 1105-1112.	0.6	76
18	IMMUNOHEMATOLOGY: Storage of murine red blood cells enhances alloantibody responses to an erythroid-specific model antigen. <i>Transfusion</i> , 2010, 50, 642-648.	0.8	71

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19	Factors Influencing RBC Alloimmunization: Lessons Learned from Murine Models. <i>Transfusion Medicine and Hemotherapy</i> , 2014, 41, 406-419.	0.7	71
20	Methylation of protein aspartates and deamidated asparagines as a function of blood bank storage and oxidative stress in human red blood cells. <i>Transfusion</i> , 2018, 58, 2978-2991.	0.8	71
21	Heterogeneity of blood processing and storage additives in different centers impacts stored red blood cell metabolism as much as storage time: lessons from REDSâ€™Omics. <i>Transfusion</i> , 2019, 59, 89-100.	0.8	71
22	Metabolic pathways that correlate with post-transfusion circulation of stored murine red blood cells. <i>Haematologica</i> , 2016, 101, 578-586.	1.7	69
23	Donor glucose-6-phosphate dehydrogenase deficiency decreases blood quality for transfusion. <i>Journal of Clinical Investigation</i> , 2020, 130, 2270-2285.	3.9	69
24	Differences in Steap3 expression are a mechanism of genetic variation of RBC storage and oxidative damage in mice. <i>Blood Advances</i> , 2019, 3, 2272-2285.	2.5	65
25	Bioactive lipids accumulate in stored red blood cells despite leukoreduction: a targeted metabolomics study. <i>Transfusion</i> , 2016, 56, 2560-2570.	0.8	64
26	Regulation of CD8+ cytolytic T lymphocyte differentiation by a cholinergic pathway. <i>Journal of Neuroimmunology</i> , 2005, 164, 66-75.	1.1	62
27	A novel role for C3 in antibody-induced red blood cell clearance and antigen modulation. <i>Blood</i> , 2013, 122, 1793-1801.	0.6	62
28	Transfusion of murine red blood cells expressing the human <i>KEL</i> glycoprotein induces clinically significant alloantibodies. <i>Transfusion</i> , 2014, 54, 179-189.	0.8	61
29	Type I IFN Is Necessary and Sufficient for Inflammation-Induced Red Blood Cell Alloimmunization in Mice. <i>Journal of Immunology</i> , 2017, 199, 1041-1050.	0.4	56
30	Functional Attributes of Antibodies, Effector Cells, and Target Cells Affecting NK Cell-Mediated Antibody-Dependent Cellular Cytotoxicity. <i>Journal of Immunology</i> , 2019, 203, 3126-3135.	0.4	54
31	The role of inflammation in alloimmunization to antigens on transfused red blood cells. <i>Current Opinion in Hematology</i> , 2008, 15, 631-635.	1.2	50
32	Chronological storage age and metabolic age of stored red blood cells: are they the same?. <i>Transfusion</i> , 2019, 59, 1620-1623.	0.8	48
33	Generation of transgenic mice with antithetical <i>KEL1</i> and <i>KEL2</i> human blood group antigens on red blood cells. <i>Transfusion</i> , 2012, 52, 2620-2630.	0.8	47
34	Complex Changes in von Willebrand Factor-Associated Parameters Are Acquired during Uncomplicated Pregnancy. <i>PLoS ONE</i> , 2014, 9, e112935.	1.1	47
35	Red blood cell metabolism in Rhesus macaques and humans: comparative biology of blood storage. <i>Haematologica</i> , 2020, 105, 2174-2186.	1.7	46
36	Transfusion of minor histocompatibility antigen-mismatched platelets induces rejection of bone marrow transplants in mice. <i>Journal of Clinical Investigation</i> , 2009, 119, 2787-2794.	3.9	45

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37	Anti-KEL sera prevents alloimmunization to transfused KEL RBCs in a murine model. <i>Haematologica</i> , 2015, 100, e394-e397.	1.7	42
38	Antibody-Mediated Immune Suppression of Erythrocyte Alloimmunization Can Occur Independently from Red Cell Clearance or Epitope Masking in a Murine Model. <i>Journal of Immunology</i> , 2014, 193, 2902-2910.	0.4	41
39	The interactome of the N-terminus of band 3 regulates red blood cell metabolism and storage quality. <i>Haematologica</i> , 2021, 106, 2971-2985.	1.7	40
40	Blood donor exposome and impact of common drugs on red blood cell metabolism. <i>JCI Insight</i> , 2021, 6, .	2.3	39
41	Alloimmunization to transfused platelets requires priming of CD4+ T cells in the splenic microenvironment in a murine model. <i>Transfusion</i> , 2012, 52, 849-859.	0.8	38
42	Erythrophagocytosis by plasmacytoid dendritic cells and monocytes is enhanced during inflammation. <i>Transfusion</i> , 2016, 56, 905-916.	0.8	37
43	Biological and Clinical Factors Contributing to the Metabolic Heterogeneity of Hospitalized Patients with and without COVID-19. <i>Cells</i> , 2021, 10, 2293.	1.8	37
44	Pathobiology of Transfusion Reactions. <i>Annual Review of Pathology: Mechanisms of Disease</i> , 2015, 10, 83-110.	9.6	33
45	Nicotine exposure increases markers of oxidant stress in stored red blood cells from healthy donor volunteers. <i>Transfusion</i> , 2020, 60, 1160-1174.	0.8	33
46	Complement activation on endothelium initiates antibody-mediated acute lung injury. <i>Journal of Clinical Investigation</i> , 2020, 130, 5909-5923.	3.9	32
47	Transfusion-induced autoantibodies and differential immunogenicity of blood group antigens: a novel hypothesis. <i>Transfusion</i> , 2007, 47, 2189-2196.	0.8	30
48	Interleukin-6 receptor-alpha signaling drives anti-RBC alloantibody production and T-follicular helper cell differentiation in a murine model of red blood cell alloimmunization. <i>Haematologica</i> , 2016, 101, e440-e444.	1.7	30
49	Impact of taurine on red blood cell metabolism and implications for blood storage. <i>Transfusion</i> , 2020, 60, 1212-1226.	0.8	30
50	Protect, repair, destroy or sacrifice: a role of oxidative stress biology in inter-donor variability of blood storage?. <i>Blood Transfusion</i> , 2019, 17, 281-288.	0.3	28
51	Cross-reactivity of mouse IgG subclasses to human Fc gamma receptors: Antibody deglycosylation only eliminates IgG2b binding. <i>Molecular Immunology</i> , 2020, 127, 79-86.	1.0	27
52	Fatty acid desaturase activity in mature red blood cells and implications for blood storage quality. <i>Transfusion</i> , 2021, 61, 1867-1883.	0.8	26
53	Serological blind spots for variants of human I^i and I^i by a commonly used anti-immunoglobulin reagent. <i>Transfusion</i> , 2016, 56, 2953-2962.	0.8	25
54	Ethyl glucuronide, a marker of alcohol consumption, correlates with metabolic markers of oxidant stress but not with hemolysis in stored red blood cells from healthy blood donors. <i>Transfusion</i> , 2020, 60, 1183-1196.	0.8	25

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55	Effect of storage of red blood cells on alloimmunization. <i>Transfusion</i> , 2013, 53, 2795-2800.	0.8	24
56	Immunization to minor histocompatibility antigens on transfused RBCs through crosspriming into recipient MHC class I pathways. <i>Blood</i> , 2006, 107, 187-189.	0.6	23
57	Macrophages clear refrigerator storage-damaged red blood cells and subsequently secrete cytokines in vivo, but not in vitro, in a murine model. <i>Transfusion</i> , 2014, 54, 3186-3197.	0.8	23
58	Iron-deficient erythropoiesis in blood donors and red blood cell recovery after transfusion: initial studies with a mouse model. <i>Blood Transfusion</i> , 2017, 15, 158-164.	0.3	23
59	Performance Characteristics of Two Real-Time PCR Assays for the Quantification of Epstein-Barr Virus DNA. <i>American Journal of Clinical Pathology</i> , 2006, 125, 665-671.	0.4	21
60	Parabiosis Incompletely Reverses Aging-Induced Metabolic Changes and Oxidant Stress in Mouse Red Blood Cells. <i>Nutrients</i> , 2019, 11, 1337.	1.7	21
61	Reexamination of the chromium-51-labeled posttransfusion red blood cell recovery method. <i>Transfusion</i> , 2019, 59, 2264-2275.	0.8	21
62	The Nlrp3 Inflammasome Does Not Regulate Alloimmunization to Transfused Red Blood Cells in Mice. <i>EBioMedicine</i> , 2016, 9, 77-86.	2.7	20
63	Transfusion-induced alloimmunization and platelet refractoriness in a mouse model: mechanisms and interventions. <i>Transfusion</i> , 2016, 56, 91-100.	0.8	20
64	Stored RBC metabolism as a function of caffeine levels. <i>Transfusion</i> , 2020, 60, 1197-1211.	0.8	20
65	ZOOMICS: Comparative Metabolomics of Red Blood Cells From Old World Monkeys and Humans. <i>Frontiers in Physiology</i> , 2020, 11, 593841.	1.3	19
66	Murine red blood cells from genetically distinct donors cross-regulate when stored together. <i>Transfusion</i> , 2017, 57, 2657-2664.	0.8	18
67	CD75s is a marker of murine CD8+ suppressor T cells. <i>International Immunology</i> , 2003, 15, 1389-1399.	1.8	17
68	CTLA4 ^{tg} prevents alloantibody production and BMT rejection in response to platelet transfusions in mice. <i>Transfusion</i> , 2012, 52, 2209-2219.	0.8	16
69	Widening our gaze of red blood storage haze: a role for metabolomics. <i>Transfusion</i> , 2015, 55, 1139-1142.	0.8	13
70	Metabolic Reprogramming of Mouse Bone Marrow Derived Macrophages Following Erythrophagocytosis. <i>Frontiers in Physiology</i> , 2020, 11, 396.	1.3	12
71	Identification and Characterization of CD8 ⁺ Suppressor T Cells. <i>Immunologic Research</i> , 2004, 29, 303-312.	1.3	11
72	LC-MS/MS-MRM-Based Targeted Metabolomics for Quantitative Analysis of Polyunsaturated Fatty Acids and Oxylipins. <i>Methods in Molecular Biology</i> , 2019, 1978, 107-120.	0.4	10

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73	Mouse background genetics in biomedical research: The devil's in the details. <i>Transfusion</i> , 2021, 61, 3017-3025.	0.8	10
74	The lysophospholipid-binding molecule <i>CD1D</i> is not required for the alloimmunization response to fresh or stored <i>RBCs</i> in mice despite <i>RBC</i> storage driving alterations in lysophospholipids. <i>Transfusion</i> , 2021, 61, 2169-2178.	0.8	8
75	Do immune complexes play a role in hemolytic sequelae of intravenous immune globulin?. <i>Transfusion</i> , 2015, 55, S86-9.	0.8	7
76	The Impact of Age and BMI on the VWF/ADAMTS13 Axis and Simultaneous Thrombin and Plasmin Generation in Hospitalized COVID-19 Patients. <i>Frontiers in Medicine</i> , 2021, 8, 817305.	1.2	7
77	Innate and Adaptive Immunity to Transfused Allogeneic RBCs in Mice Requires <i>MyD88</i> . <i>Journal of Immunology</i> , 2022, 208, 991-997.	0.4	7
78	Deuterated Linoleic Acid Attenuates the RBC Storage Lesion in a Mouse Model of Poor RBC Storage. <i>Frontiers in Physiology</i> , 2022, 13, 868578.	1.3	7
79	Errors in data interpretation from genetic variation of human analytes. <i>JCI Insight</i> , 2017, 2, .	2.3	6
80	Poly(I:C) causes failure of immunoprophylaxis to red blood cells expressing the <i>KEL</i> glycoprotein in mice. <i>Blood</i> , 2020, 135, 1983-1993.	0.6	6
81	The impact of donor sex and age on stored platelet metabolism and post-transfusion recovery. <i>Blood Transfusion</i> , 2021, 19, 216-223.	0.3	6
82	Complement Plays a Critical Role in Inflammation-Induced Immunoprophylaxis Failure in Mice. <i>Frontiers in Immunology</i> , 2021, 12, 704072.	2.2	5
83	Recent Developments and Future Directions of Alloimmunization to Transfused Blood Products. <i>Clinics in Laboratory Medicine</i> , 2010, 30, 467-473.	0.7	4
84	Correlation Between Red Blood Cell Survival and Cytochrome P450 1A2 Enzyme Activity. <i>Blood</i> , 2013, 122, 3658-3658.	0.6	4
85	Effect of Mediators of Innate Immunity and Inflammation on <i>CD8+</i> Veto Cells. <i>Transplantation</i> , 2004, 78, 1597-1600.	0.5	3
86	<i>IgG3</i> anti- <i>Kell</i> allotypic variation results in differential antigen binding and phagocytosis. <i>Transfusion</i> , 2020, 60, 688-693.	0.8	3
87	Bioactive Lipids Are Generated to Micromolar Levels during RBC Storage, Even in Leukoreduced Units. <i>Blood</i> , 2015, 126, 2344-2344.	0.6	3
88	Turning over a new leaf on turning over RBCs. <i>Blood</i> , 2020, 136, 1569-1570.	0.6	3
89	Common murine immunoglobulin detection reagents have diminished reactivity with <i>IgG3</i> – A vulnerability to misinterpretation. <i>Journal of Immunological Methods</i> , 2018, 455, 10-13.	0.6	2
90	Refractoriness to platelet transfusion in the presence of anti-HLA antibodies – reassessing the alloantibody hypothesis. <i>Annals of Blood</i> , 0, 4, 8-8.	0.4	2

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91	IgG Subtype Affects Immunomodulation through Fc γ 3Rs, on Non-Macrophage Populations in a Murine Model - Mechanistic Implications for Anti-D. Blood, 2016, 128, 21-21.	0.6	2
92	In utero exposure to alloantigens primes alloimmunization to platelet transfusion in mice. Transfusion, 2021, 61, 687-691.	0.8	1
93	Initiation of AIHA: a study in scarlet. Blood, 2007, 110, 4139-4140.	0.6	0
94	The fat and the skinny on acute lung injury. Blood, 2014, 124, 2617-2618.	0.6	0
95	Characterization and refinement of monoclonal anti-human globulins that lack reactivity with human IgG4. Transfusion, 2020, 60, 1060-1068.	0.8	0
96	Effects of Amotosalen Hydrochloride and Ultraviolet a Light on CD4 and CD8 Cells.. Blood, 2004, 104, 4981-4981.	0.6	0
97	Transfusion of Leukoreduced RBC Results in Immunization to Minor Histocompatibility Antigens by Crosspriming into Recipient MHC Class I Pathways.. Blood, 2005, 106, 1266-1266.	0.6	0
98	Host Inflammation Increases Alloimmunization to Transfused Red Blood Cells.. Blood, 2005, 106, 1887-1887.	0.6	0
99	Activation and Effector Phenotype of CD8+ T Cells Crossprimed by a Minor Histocompatibility Antigen Expressed on Red Blood Cells. Blood, 2008, 112, 2571-2571.	0.6	0
100	Transfused Stored or Antibody-Coated Red Blood Cells Are Internalized By and Activate Splenic Professional Antigen Presenting Cells. Blood, 2015, 126, 3564-3564.	0.6	0
101	Peripheral but Not Central Tolerance Regulates RBC Autoreactive CD4+ T Cells in a Novel Mouse. Blood, 2015, 126, 3441-3441.	0.6	0