Tamir Kanias

List of Publications by Year
in descending order

60 papers	3,091 citations	218381 26 h-index	161609 54 g-index
60 all docs	60 docs citations	60 times ranked	2799 citing authors

#	Article	IF	Citations
1	Nitric Oxide Scavenging by Red Blood Cell Microparticles and Cell-Free Hemoglobin as a Mechanism for the Red Cell Storage Lesion. Circulation, 2011, 124, 465-476.	1.6	674
2	The relationship between the severity of hemolysis, clinical manifestations and risk of death in 415 patients with sickle cell anemia in the US and Europe. Haematologica, 2013, 98, 464-472.	1.7	170
3	Ethnicity, sex, and age are determinants of red blood cell storage and stress hemolysis: results of the REDS-III RBC-Omics study. Blood Advances, 2017, 1, 1132-1141.	2.5	164
4	Mortality increases after massive exchange transfusion with older stored blood in canines with experimental pneumonia. Blood, 2013, 121, 1663-1672.	0.6	156
5	Biopreservation of red blood cells â€“ the struggle with hemoglobin oxidation. FEBS Journal, 2010, 277, 343-356.	2.2	155
6	Hemolysis and cell-free hemoglobin drive an intrinsic mechanism for human disease. Journal of Clinical Investigation, 2012, 122, 1205-1208.	3.9	143
7	Testosteroneâ€dependent sex differences in red blood cell hemolysis in storage, stress, and disease. Transfusion, 2016, 56, 2571-2583.	0.8	118
8	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. Haematologica, 2021, 106, 1290-1302.	1.7	95
9	Haemoglobinuria is associated with chronic kidney disease and its progression in patients with sickle cell anaemia. British Journal of Haematology, 2014, 164, 729-739.	1.2	91
10	Assessing the influence of component processing and donor characteristics on quality of red cell concentrates using quality control data. Vox Sanguinis, 2016, 111, 8-15.	0.7	82
11	Methylation of protein aspartates and deamidated asparagines as a function of blood bank storage and oxidative stress in human red blood cells. Transfusion, 2018, 58, 2978-2991.	0.8	71
12	Heterogeneity of blood processing and storage additives in different centers impacts stored red blood cell metabolism as much as storage time: lessons from REDSâ€IIIâ€”Omics. Transfusion, 2019, 59, 89-100.	0.8	71
13	Effects of Aged Stored Autologous Red Blood Cells on Human Endothelial Function. American Journal of Respiratory and Critical Care Medicine, 2015, 192, 1223-1233.	2.5	66
14	Washing older blood units before transfusion reduces plasma iron and improves outcomes in experimental canine pneumonia. Blood, 2014, 123, 1403-1411.	0.6	64
15	Genetic variants and cell-free hemoglobin processing in sickle cell nephropathy. Haematologica, 2015, 100, 1275-1284.	1.7	60
16	Nitric oxide, hemolysis, and the red blood cell storage lesion: interactions between transfusion, donor, and recipient. Transfusion, 2012, 52, 1388-1392.	0.8	57
17	Effects of aged stored autologous red blood cells on human plasma metabolome. Blood Advances, 2019, 3, 884-896.	2.5	54
18	Transfusion of older stored blood worsens outcomes in canines depending on the presence and severity of pneumonia. Transfusion, 2014, 54, 1712-1724.	0.8	52

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19	Intradonor reproducibility and changes in hemolytic variables during red blood cell storage: results of recall phase of the REDSâ€II RBCâ€Omics study. Transfusion, 2019, 59, 79-88.	0.8	47
20	Frequent blood donations alter susceptibility of red blood cells to storageâ€•and stressâ€induced hemolysis. Transfusion, 2019, 59, 67-78.	0.8	44
21	Blood, sweat, and tears: Red Blood Cellâ€Omics study objectives, design, and recruitment activities. Transfusion, 2019, 59, 46-56.	0.8	44
22	Multiple-ancestry genome-wide association study identifies 27 loci associated with measures of hemolysis following blood storage. Journal of Clinical Investigation, 2021, 131, .	3.9	42
23	Effects of nitric oxide and its congeners on sickle red blood cell deformability. Transfusion, 2015, 55, 2464-2472.	0.8	39
24	Mammalian Cell Desiccation: Facing The Challenges. Cell Preservation Technology, 2006, 4, 253-277.	0.8	38
25	Sickle Cell Trait Increases Red Blood Cell Storage Hemolysis and Post-Transfusion Clearance in Mice. EBioMedicine, 2016, 11, 239-248.	2.7	34
26	Nicotine exposure increases markers of oxidant stress in stored red blood cells from healthy donor volunteers. Transfusion, 2020, 60, 1160-1174.	0.8	33
27	Development and evaluation of a transfusion medicine genome wide genotyping array. Transfusion, 2019, 59, 101-111.	0.8	30
28	Impact of taurine on red blood cell metabolism and implications for blood storage. Transfusion, 2020, 60, 1212-1226.	0.8	30
29	Blood donor obesity is associated with changes in red blood cell metabolism and susceptibility to hemolysis in cold storage and in response to osmotic and oxidative stress. Transfusion, 2021, 61, 435-448.	0.8	29
30	Donor genetic and nongenetic factors affecting red blood cell transfusion effectiveness. JCI Insight, 2022, 7, .	2.3	29
31	In a canine pneumonia model of exchange transfusion, altering the age but not the volume of older red blood cells markedly alters outcome. Transfusion, 2015, 55, 2564-2575.	0.8	25
32	Testosterone replacement therapy in blood donors modulates erythrocyte metabolism and susceptibility to hemolysis in cold storage. Transfusion, 2021, 61, 108-123.	0.8	24
33	Trehalose loading into red blood cells is accompanied with hemoglobin oxidation and membrane lipid peroxidation. Cryobiology, 2009, 58, 232-239.	0.3	23
34	Towards microfluidic-based depletion of stiff and fragile human red cells that accumulate during blood storage. Lab on A Chip, 2015, 15, 448-458.	3.1	23
35	Piloting and implementation of quality assessment and quality control procedures in RBCâ€Omics: a large multiâ€center study of red blood cell hemolysis during storage. Transfusion, 2019, 59, 57-66.	0.8	22
36	Red blood cell endothelial nitric oxide synthase does not modulate red blood cell storage hemolysis. Transfusion, 2013, 53, 981-989.	0.8	21

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37	Stored <scp>RBC</scp> metabolism as a function of caffeine levels. Transfusion, 2020, 60, 1197-1211.	0.8	20
38	Characterization of the inhibitory dopamine receptor from the pituitary of tilapia. Fish Physiology and Biochemistry, 2003, 28, 73-75.	0.9	15
39	Additive effects of blood donor smoking and gamma irradiation on outcome measures of red blood cell transfusion. Transfusion, 2020, 60, 1175-1182.	0.8	15
40	Determination of Lipid Peroxidation in Desiccated Red Blood Cells. Cell Preservation Technology, 2007, 5, 165-174.	0.8	14
41	In vivo reduction of cellâ€free methemoglobin to oxyhemoglobin results in vasoconstriction in canines. Transfusion, 2013, 53, 3149-3163.	0.8	14
42	Hemolysis and hemolysisâ€related complications in females vs. males with sickle cell disease. American Journal of Hematology, 2018, 93, E376-E380.	2.0	14
43	Mechanism of hemoglobin-induced cellular injury in desiccated red blood cells. Free Radical Biology and Medicine, 2010, 49, 539-547.	1.3	12
44	Diversity in a blood bag: application of omics technologies to inform precision Transfusion Medicine. Blood Transfusion, 2019, 17, 258-262.	0.3	11
45	Immunodeficient mice are better for modeling the transfusion of human blood components than wild-type mice. PLoS ONE, 2020, 15, e0237106.	1.1	9
46	Sex hormone intake in female blood donors: impact on haemolysis during cold storage and regulation of erythrocyte calcium influx by progesterone. Blood Transfusion, 2019, 17, 263-273.	0.3	9
47	Improved quantitative detection of biotinâ€labeled red blood cells by flow cytometry. Transfusion, 2019, 59, 2691-2698.	0.8	8
48	Exposure of tilapia pituitary cells to saponins: Insight into their mechanism of action. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2005, 140, 79-86.	1.3	6
49	Current good manufacturing practicesâ€“compliant manufacture and measurement of biotin-labeled red blood cells. Cytotherapy, 2019, 21, 793-800.	0.3	5
50	The prevalence and demographic determinants of blood donors receiving testosterone replacement therapy at a large USA blood service organization. Transfusion, 2020, 60, 947-954.	0.8	5
51	Red Blood Cell Storage In Pediatric Transfer Bags Is Correlated With Increased Levels Of Hemolysis and Altered Osmotic Fragility. Blood, 2013, 122, 2403-2403.	0.6	4
52	Blood donor componentâ€recipient linkages: is there fire where there is smoke?. Transfusion, 2019, 59, 2485-2488.	0.8	2
53	Toxic masculinity in red blood cell units? Testosterone therapy in blood donors revisited. Transfusion, 2021, 61, 3174-3180.	0.8	2
54	Correlation Between Female Gender and the Red Blood Cell Propensity to Hemolyze Under Various Stresses. Blood, 2011, 118, 2325-2325.	0.6	2

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55	Sex-specific genetic modifiers identified susceptibility of cold stored red blood cells to osmotic hemolysis. BMC Genomics, 2022, 23, 227.	1.2	2
56	Evaluation of the Functional Effects of an African American Glucose-6-Phosphate Dehydrogenase (G6PD) Polymorphism (Val68Met) on RBC Hemolytic Propensity and Post-Transfusion Recovery in a Humanized Mouse Model. Blood, 2019, 134, 102-102.	0.6	1
57	Thrombospondin-1 Stimulates Calcium Influx and Echinocytosis in Sickle Cell-Derived Red Blood Cells. Blood, 2014, 124, 4068-4068.	0.6	1
58	G.B. Quan et al., Inhibition of high glucose-induced erythrocyte phosphatidylserine exposure by leupeptin and disaccharides, Cryobiology 56 (1) (2008) 53â€“61. Cryobiology, 2009, 58, 240.	0.3	0
59	Hemoglobinuria Is a Risk Factor For Kidney Disease Progression In Sickle Cell Anemia. Blood, 2013, 122, 996-996.	0.6	0
60	Increased Methylation of Deamidated Asparagines and Aspartates in Stored Red Blood Cells from Glucose 6-Phosphate Dehydrogenase-Deficient Blood Donors. Blood, 2018, 132, 2543-2543.	0.6	0