

Robert L Flower

List of Publications by Year in descending order

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Version: 2024-02-01

119
papers

1,611
citations

304743

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395702

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121
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docs citations

121
times ranked

1792
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#	ARTICLE	IF	CITATIONS
1	RBCeq: A robust and scalable algorithm for accurate genetic blood typing. <i>EBioMedicine</i> , 2022, 76, 103759.	6.1	6
2	The genomic landscape of blood groups in Indigenous Australians in remote communities. <i>Transfusion</i> , 2022, , .	1.6	4
3	Using whole-genome sequencing to characterize clinically significant blood groups among healthy older Australians. <i>Blood Advances</i> , 2022, 6, 4593-4604.	5.2	1
4	A new high-prevalence <i>LW</i> antigen detected by an antibody in an Indigenous Australian homozygous for <i>LW</i> * <i>A</i> c. <i>309C</i> & <i>A</i> variant. <i>Vox Sanguinis</i> , 2022, , .	1.5	0
5	The interaction between Glycophorin A (GPA) and Band 3 in the formation of the Wright b (<i>W^b</i>) antigen. <i>Vox Sanguinis</i> , 2021, 116, 489-492.	1.5	2
6	Neonatal Outcomes From Arboviruses in the Perinatal Period: A State-of-the-Art Review. <i>Pediatrics</i> , 2021, 147, .	2.1	2
7	Computational modeling “an approach to the development of blood grouping reagents. <i>Expert Review of Hematology</i> , 2021, 14, 329-334.	2.2	1
8	Low Genetic Diversity of Hepatitis B Virus Surface Gene amongst Australian Blood Donors. <i>Viruses</i> , 2021, 13, 1275.	3.3	3
9	The role of non-invasive prenatal testing (NIPT) for fetal blood group typing in Australia. <i>Australian and New Zealand Journal of Obstetrics and Gynaecology</i> , 2021, , .	1.0	0
10	Past and future epidemic potential of chikungunya virus in Australia. <i>PLoS Neglected Tropical Diseases</i> , 2021, 15, e0009963.	3.0	1
11	Frequency of <i>Mi⁺a⁺</i> (MNS7) and Classification of <i>Mi⁺a⁺</i> -Positive Hybrid Glycophorins in an Australian Blood Donor Population. <i>Transfusion Medicine and Hemotherapy</i> , 2020, 47, 279-287.	1.6	11
12	Targeted exome sequencing designed for blood group, platelet, and neutrophil antigen investigations: Proof-of-principle study for a customized single-test system. <i>Transfusion</i> , 2020, 60, 2108-2120.	1.6	11
13	Estimation of mosquito-borne and sexual transmission of Zika virus in Australia: Risks to blood transfusion safety. <i>PLoS Neglected Tropical Diseases</i> , 2020, 14, e0008438.	3.0	4
14	Understanding occult hepatitis C infection. <i>Transfusion</i> , 2020, 60, 2144-2152.	1.6	4
15	Non-invasive prenatal testing for management of haemolytic disease of the fetus and newborn induced by maternal alloimmunisation. <i>Transfusion and Apheresis Science</i> , 2020, 59, 102947.	1.0	12
16	Inverse Relationship Between Lipopolysaccharide Concentration and Monocyte and Dendritic Cells Inflammatory Response. <i>Journal of Interferon and Cytokine Research</i> , 2020, 40, 349-356.	1.2	1
17	Soluble mediators in packed red blood cells augment lipopolysaccharide-induced monocyte interleukin-1 β production. <i>Vox Sanguinis</i> , 2020, 115, 562-569.	1.5	2
18	Modelling of Red Blood Cell Morphological and Deformability Changes during In-Vitro Storage. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3209.	2.5	14

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19	Coronary artery bypass grafting is associated with immunoparalysis of monocytes and dendritic cells. <i>Journal of Cellular and Molecular Medicine</i> , 2020, 24, 4791-4803.	3.6	14
20	Noninvasive prenatal testing (NIPT) for fetal Kell, Duffy and Rh blood group antigen prediction in alloimmunised pregnant women: power of droplet digital PCR. <i>British Journal of Haematology</i> , 2020, 189, e90-e94.	2.5	16
21	In Silico Analysis of Genetic Diversity of Human Hepatitis B Virus in Southeast Asia, Australia and New Zealand. <i>Viruses</i> , 2020, 12, 427.	3.3	3
22	An Improved Coarse-Grained Model to Accurately Predict Red Blood Cell Morphology and Deformability. , 2020, , 47-84.		0
23	Modeling the parvovirus B19 blood safety risk in Australia. <i>Transfusion</i> , 2019, 59, 295-302.	1.6	3
24	A coarse-grained red blood cell membrane model to study stomatocyte-discocyte-echinocyte morphologies. <i>PLoS ONE</i> , 2019, 14, e0215447.	2.5	53
25	No evidence for widespread <i>Babesia microti</i> transmission in Australia. <i>Transfusion</i> , 2019, 59, 2368-2374.	1.6	8
26	Genetic Variants Within the Erythroid Transcription Factor, KLF1, and Reduction of the Expression of Lutheran and Other Blood Group Antigens: Review of the In(Lu) Phenotype. <i>Transfusion Medicine Reviews</i> , 2019, 33, 111-117.	2.0	6
27	Modified expression of the KEL2 (k) blood group antigen attributed to p.Leu196Val amino acid change three residues from the K/k antigen polymorphism site: implications for donor screening. <i>Transfusion</i> , 2019, 59, 1156-1158.	1.6	1
28	Epidemic potential of Zika virus in Australia: implications for blood transfusion safety. <i>Transfusion</i> , 2019, 59, 648-658.	1.6	7
29	Comprehensive blood group antigen profile predictions for Western Desert Indigenous Australians from whole exome sequence data. <i>Transfusion</i> , 2019, 59, 768-778.	1.6	18
30	A proposed new low-frequency antigen in the A _u blood group system associated with a severe case of hemolytic disease of the fetus and newborn. <i>Transfusion</i> , 2018, 58, 1320-1322.	1.6	9
31	Immune blood donors who are female and who possess at least one HLA-DRB1*15 allele show a propensity for high serum RhIG production. <i>Transfusion</i> , 2018, 58, 1182-1188.	1.6	4
32	KLF1 variants and the impact on the expression of red blood cell surface molecules in blood donors with the In(Lu) phenotype. <i>Pathology</i> , 2018, 50, S104.	0.6	0
33	Ross River virus in Australian blood donors: possible implications for blood transfusion safety. <i>Transfusion</i> , 2018, 58, 485-492.	1.6	10
34	Is Zika virus a potential threat to the Australian Blood Supply?. <i>Australian and New Zealand Journal of Public Health</i> , 2018, 42, 104-105.	1.8	3
35	Packed Red Blood Cell Transfusion Modulates Myeloid Dendritic Cell Activation and Inflammatory Response <i>In Vitro</i> . <i>Journal of Interferon and Cytokine Research</i> , 2018, 38, 111-121.	1.2	8
36	Platelet concentrates modulate myeloid dendritic cell immune responses. <i>Platelets</i> , 2018, 29, 373-382.	2.3	15

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37	Emerging infectious disease outbreaks: estimating disease risk in Australian blood donors travelling overseas. <i>Vox Sanguinis</i> , 2018, 113, 21-30.	1.5	4
38	A DEL phenotype attributed to <i>RHD</i> Exon 9 sequence deletion: slipped-strand mispairing and blood group polymorphisms. <i>Transfusion</i> , 2018, 58, 685-691.	1.6	7
39	Targeted exome sequencing defines novel and rare variants in complex blood group serology cases for a red blood cell reference laboratory setting. <i>Transfusion</i> , 2018, 58, 284-293.	1.6	28
40	Supernatants from packed red blood cells modulate inflammasome activation. <i>Pathology</i> , 2018, 50, S110-S111.	0.6	0
41	Investigation of the variable In(Lu) phenotype caused by <i>KLF1</i> variants. <i>Transfusion</i> , 2018, 58, 2414-2420.	1.6	5
42	GP.Mur red blood cells express variant form of s antigen (MNS4). <i>Pathology</i> , 2018, 50, S103.	0.6	1
43	Severe hemolytic disease of the fetus and newborn due to alloantigen in a patient with a partial DEL phenotype arising from the variant allele described as <i>RHD*148+1T (RHD*01EL.31)</i> . <i>Transfusion</i> , 2018, 58, 2260-2264.	1.6	8
44	Whole-genome sequencing algorithm for blood-group typing. <i>Lancet Haematology</i> , 2018, 5, e233-e234.	4.6	2
45	Genotyping analysis of MNS blood group GP(B) hybrid glycoporphorins in the Chinese Southern Han population using a high-resolution melting assay. <i>Transfusion</i> , 2018, 58, 1763-1771.	1.6	12
46	Genetic factors associated with iron storage in Australian blood donors. <i>Blood Transfusion</i> , 2018, 16, 123-129.	0.4	11
47	Procoagulant role of microparticles in routine storage of packed red blood cells: potential risk for prothrombotic post-transfusion complications. <i>Pathology</i> , 2017, 49, 62-69.	0.6	27
48	Frequency of GP.Hut in association with <i>Mi(a)</i> -positive serology in Asian populations. <i>Pathology</i> , 2017, 49, S108.	0.6	0
49	Exposure to cryopreserved platelets mediates suppression of myeloid dendritic cell subset immune responses. <i>Pathology</i> , 2017, 49, S109.	0.6	0
50	Modulation of immune responses in patients following cardiac surgery. <i>Pathology</i> , 2017, 49, S109-S110.	0.6	0
51	Seroprevalence of antibodies to primate erythroparvovirus 1 among Australian blood donors. <i>Pathology</i> , 2017, 49, S115-S116.	0.6	0
52	Evaluation of targeted exome sequencing for 28 protein-based blood group systems, including the homologous gene systems, for blood group genotyping. <i>Transfusion</i> , 2017, 57, 1078-1088.	1.6	54
53	An alloantibody in a homozygous <i>GYP*Mur</i> individual defines JENU (MNS49), a new high-frequency antigen on glycoporphorin B. <i>Transfusion</i> , 2017, 57, 716-717.	1.6	14
54	Diverse and novel <i>RHD</i> variants in Australian blood donors with a weak D phenotype: implication for transfusion management. <i>Vox Sanguinis</i> , 2017, 112, 279-287.	1.5	19

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55	Noninvasive fetal <i>RHD</i> genotyping of <i>RhD</i> negative pregnant women for targeted anti-D therapy in Australia: A cost-effectiveness analysis. <i>Prenatal Diagnosis</i> , 2017, 37, 1245-1253.	2.3	14
56	Hepatitis E virus RNA in Australian blood donors: prevalence and risk assessment. <i>Vox Sanguinis</i> , 2017, 112, 614-621.	1.5	29
57	Immunomodulatory effect of cryopreserved platelets: altered BDCA3 ⁺ dendritic cell maturation and activation in vitro. <i>Transfusion</i> , 2017, 57, 2878-2887.	1.6	8
58	Genotyping by sequencing defines independent novel <i>RHD</i> variants for an antenatal patient and a blood donor. <i>Transfusion</i> , 2017, 57, 2281-2283.	1.6	3
59	Non-invasive fetal RHD genotyping for RhD negative women stratified into RHD gene deletion or variant groups: comparative accuracy using two blood collection tube types. <i>Pathology</i> , 2017, 49, 757-764.	0.6	18
60	Anti-D in a mother, hemizygous for the variant <i>RHD*DNB</i> gene, associated with hemolytic disease of the fetus and newborn. <i>Transfusion</i> , 2017, 57, 1938-1943.	1.6	6
61	Investigation of red blood cell mechanical properties using AFM indentation and coarse-grained particle method. <i>BioMedical Engineering OnLine</i> , 2017, 16, 140.	2.7	31
62	Hepatitis E virus infections in travellers: assessing the threat to the Australian blood supply. <i>Blood Transfusion</i> , 2017, 15, 191-198.	0.4	3
63	Mitigating the Risk of Transfusion-Transmitted Dengue in Australia. <i>Journal of Blood Transfusion</i> , 2016, 2016, 1-6.	3.3	9
64	A Comparative Study of Assay Performance of Commercial Hepatitis E Virus Enzyme-Linked Immunosorbent Assay Kits in Australian Blood Donor Samples. <i>Journal of Blood Transfusion</i> , 2016, 2016, 1-6.	3.3	23
65	The distribution of <i>MNS</i> hybrid glycoporphins with Mur antigen expression in Chinese donors including identification of a novel <i>GYP</i> . <i>Bun</i> allele. <i>Vox Sanguinis</i> , 2016, 111, 308-314.	1.5	19
66	Detection of emergent strains of West Nile virus with a blood screening assay. <i>Transfusion</i> , 2016, 56, 1503-1507.	1.6	3
67	<i>GYP*Kip</i> , a novel <i>GYP</i> hybrid allele, encoding the MNS48 (KIPP) antigen. <i>Transfusion</i> , 2016, 56, 539-541.	1.6	15
68	Cytomegalovirus in Australian blood donors: seroepidemiology and seronegative red blood cell component inventories. <i>Transfusion</i> , 2016, 56, 1616-1621.	1.6	5
69	Transfusion risk from emerging pathogens in the Asia-Pacific region. <i>ISBT Science Series</i> , 2016, 11, 143-148.	1.1	0
70	A coupled SPH-DEM approach to model the interactions between multiple red blood cells in motion in capillaries. <i>International Journal of Mechanics and Materials in Design</i> , 2016, 12, 477-494.	3.0	10
71	Incorporation of fluorescein conjugated function-spacer-lipid constructs into the red blood cell membrane facilitates detection of labeled cells for the duration of ex-vivo storage. <i>Journal of Immunological Methods</i> , 2016, 429, 66-70.	1.4	2
72	Hybrid glycoporphins: Silent genetic variants complicate genetic testing. <i>Pathology</i> , 2016, 48, S98.	0.6	0

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73	Hepatitis E virus RNA in Australian blood donations. <i>Transfusion</i> , 2016, 56, 3086-3093.	1.6	27
74	Genotyping confirms inheritance of the rare At(aâ ⁺) type in a case of haemolytic disease of the newborn. <i>Journal of Pathology: Clinical Research</i> , 2016, 2, 53-55.	3.0	18
75	Identification of six new <i>RHCE</i> variant alleles in individuals of diverse racial origin. <i>Transfusion</i> , 2016, 56, 244-248.	1.6	4
76	A D+ blood donor with a novel RHD*Da€CE(5â€6)â€D gene variant exhibits the lowâ€frequency antigen RH23 (DW) characteristic of the partial DVa phenotype. <i>Transfusion</i> , 2016, 56, 2322-2330.	1.6	9
77	Genotyping for Glycophorin GYP(B-A-B) Hybrid Genes Using a Single Nucleotide Polymorphism-Based Algorithm by Matrix-Assisted Laser Desorption/Ionisation, Time-of-Flight Mass Spectrometry. <i>Molecular Biotechnology</i> , 2016, 58, 665-671.	2.4	13
78	Hepatitis E virus seroepidemiology: a post-earthquake study among blood donors in Nepal. <i>BMC Infectious Diseases</i> , 2016, 16, 707.	2.9	15
79	SPH-DEM approach to numerically simulate the deformation of three-dimensional RBCs in non-uniform capillaries. <i>BioMedical Engineering OnLine</i> , 2016, 15, 161.	2.7	18
80	Epidemic Potential for Local Transmission of Zika Virus in 2015 and 2016 in Queensland, Australia. <i>PLOS Currents</i> , 2016, 8, .	1.4	7
81	A plasma ferritin is not always a serum ferritin. <i>Pathology</i> , 2015, 47, S89-S90.	0.6	6
82	Identification of genetic polymorphisms that predict responder/non-responder profiles to the RhD antigen. <i>Molecular Immunology</i> , 2015, 68, 628-633.	2.2	8
83	Duffy blood group phenotypeâ€“genotype correlations using highâ€resolution melting analysis <sc>PCR</sc> and microarray reveal complex cases including a new null <i><sc>FY</sc>*A</i> allele: the role for sequencing in genotyping algorithms. <i>Vox Sanguinis</i> , 2015, 109, 296-303.	1.5	16
84	<sc>SARA</sc>: a â€newâ€lowâ€frequency <sc>MNS</sc> antigen (<sc>MNS47</sc>) provides further evidence of the extreme diversity of the <sc>MNS</sc> blood group system. <i>Transfusion</i> , 2015, 55, 1451-1456.	1.6	12
85	Hepatitis E virus: do locally acquired infections in Australia necessitate laboratory testing in acute hepatitis patients with no overseas travel history?. <i>Pathology</i> , 2015, 47, 97-100.	0.6	10
86	Soluble Mediators in Platelet Concentrates Modulate Dendritic Cell Inflammatory Responses in an Experimental Model of Transfusion. <i>Journal of Interferon and Cytokine Research</i> , 2015, 35, 821-830.	1.2	24
87	Numerical Investigation of Motion and Deformation of a Single Red Blood Cell in a Stenosed Capillary. <i>International Journal of Computational Methods</i> , 2015, 12, 1540003.	1.3	6
88	Seroprevalence of Antibodies to Ross River and Barmah Forest Viruses: Possible Implications for Blood Transfusion Safety After Extreme Weather Events. <i>EcoHealth</i> , 2015, 12, 347-353.	2.0	18
89	A novel <i><sc>FY</sc>*A</i> allele with the 265T and 298A <sc>SNP</sc>s formerly associated exclusively with the <i><sc>FY</sc>*B</i> allele and weak Fy^b antigen expression: implication for genotyping interpretative algorithms. <i>Vox Sanguinis</i> , 2015, 108, 52-57.	1.5	14
90	Molecular typing for the Indian blood group associated 252G>C single nucleotide polymorphism in a selected cohort of Australian blood donors. <i>Blood Transfusion</i> , 2015, 13, 78-85.	0.4	12

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91	Hepatitis E Virus and Implications for Blood Supply Safety, Australia. <i>Emerging Infectious Diseases</i> , 2014, 20, 1940-1942.	4.3	34
92	Approaches to Determination of a Full Profile of Blood Group Genotypes: Single Nucleotide Variant Mapping and Massively Parallel Sequencing. <i>Computational and Structural Biotechnology Journal</i> , 2014, 11, 147-151.	4.1	28
93	Strategy for managing maternal variant <i>RHD</i> alleles in Rhesus D negative obstetric populations during fetal <i>RHD</i> genotyping. <i>Prenatal Diagnosis</i> , 2014, 34, 56-62.	2.3	9
94	Cytomegalovirus disease in immunocompetent adults. <i>Medical Journal of Australia</i> , 2014, 201, 578-580.	1.7	95
95	Blood group genotype analysis of Australian reagent red blood cell donors across three genotyping platforms: consistent detection of 7.0% phenotype genotype nonconcordance. <i>ISBT Science Series</i> , 2014, 9, 309-314.	1.1	5
96	Sero-Prevalence of antibodies to hepatitis a virus among australian blood donors. <i>Pathology</i> , 2014, 46, S87.	0.6	0
97	Molecular genotyping platforms for blood group antigen prediction. <i>Pathology</i> , 2014, 46, S87.	0.6	1
98	Next generation sequencing of an australian family to identify the genetic basis of a rare blood group antigen. <i>Pathology</i> , 2014, 46, S87-S88.	0.6	1
99	The <i>RHD</i> (1227G) & <i>A</i> associated allele is the most prevalent <i>DEL</i> allele in <i>A</i> ustralian <i>D</i> blood donors with <i>C</i> + and/or <i>E</i> + phenotypes. <i>Transfusion</i> , 2014, 54, 2931-2940.	1.6	26
100	CHARACTERIZATION OF ENU-INDUCED MUTATIONS IN RED BLOOD CELL STRUCTURAL PROTEINS. <i>Computational and Structural Biotechnology Journal</i> , 2013, 6, e201303012.	4.1	2
101	Implications of Dengue Outbreaks for Blood Supply, Australia. <i>Emerging Infectious Diseases</i> , 2013, 19, 787-789.	4.3	51
102	Noninvasive fetal <i>RHD</i> genotyping by microfluidics digital PCR using maternal plasma from two alloimmunized women with the variant <i>RHD</i> (<i>IVS3+1G</i> & <i>A</i>) allele. <i>Prenatal Diagnosis</i> , 2013, 33, 1214-1216.	2.3	21
103	Increased circulating plasma mannose binding lectin associated serine protease (MASP) as a result of enu-induced mutation in MASP-1. <i>Pathology</i> , 2013, 45, S93.	0.6	0
104	Investigation of age, gender and MBL deficiency in relation to inflammatory markers in blood donors. <i>Pathology</i> , 2013, 45, S93.	0.6	0
105	Evaluation of testing strategies for reliable measurement of rates of subclinical mosquito-borne viral infections. <i>Pathology</i> , 2012, 44, S77.	0.6	0
106	Anti- <i>DEL</i> in pregnant women with the <i>RHD</i> (<i>IVS3+1G</i> & <i>A</i>) associated <i>DEL</i> phenotype. <i>Transfusion</i> , 2012, 52, 2016-2019.	1.6	33
107	Sixty Years of Antibodies to MNS System Hybrid Glycophorins: What Have We Learned?. <i>Transfusion Medicine Reviews</i> , 2011, 25, 111-124.	2.0	44
108	IMMUNOHEMATOLOGY: Novel antibody screening cells, MUT+Mur kodecytes, created by attaching peptides onto red blood cells. <i>Transfusion</i> , 2010, 50, 635-641.	1.6	30

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109	Evaluation of noninvasive prenatal RHD genotyping of the fetus. <i>Medical Journal of Australia</i> , 2009, 191, 21-25.	1.7	57
110	Assessment of In Vitro-Generated Platelet Microparticles Using a Modified Flow Cytometric Strategy. <i>Thrombosis Research</i> , 2001, 103, 47-55.	1.7	22
111	In vitro antiviral activity of the anthraquinone chrysophanic acid against poliovirus. <i>Antiviral Research</i> , 2001, 49, 169-178.	4.1	134
112	Surface and Intracellular Interleukin-2 Receptor Expression on Various Resting and Activated Populations Involved in Cell-Mediated Immunity in Human Peripheral Blood. <i>Scandinavian Journal of Immunology</i> , 2000, 51, 67-72.	2.7	29
113	Diffusion chamber method for in situ measurement of pathogen inactivation in groundwater. <i>Water Research</i> , 1998, 32, 1144-1150.	11.3	11
114	Canine Parvoviral Disease: Experimental Reproduction of the Enteric Form with a Parvovirus Isolated from a Case of Myocarditis. <i>Veterinary Pathology</i> , 1980, 17, 589-599.	1.7	51
115	Antigenic differences between canine parvovirus and feline panleucopenia virus. <i>Veterinary Record</i> , 1980, 107, 254-256.	0.3	24
116	HLA Antigens and the Response to Influenza A Virus. <i>Vox Sanguinis</i> , 1979, 37, 201-208.	1.5	7
117	Mechanism of an action of an antibacterial murine lymphokine. <i>Nature</i> , 1975, 254, 459-460.	27.8	4
118	Routine application of genotyping a step closer: direct PCR on plasma. <i>Annals of Blood</i> , 0, 2, 3-3.	0.4	1
119	Glycophorins and the MNS blood group system: a narrative review. <i>Annals of Blood</i> , 0, 6, 39-39.	0.4	7