Tomas Kalina

List of Publications by Year
in descending order

120 papers	5,701 citations	136950 32 h-index	85541 71 g-index
121 all docs	121 docs citations	121 times ranked	10458 citing authors

#	Article	IF	Citations
1	Guidelines for the use of flow cytometry and cell sorting in immunological studies (second edition). European Journal of Immunology, 2019, 49, 1457-1973.	2.9	766
2	EuroFlow antibody panels for standardized n-dimensional flow cytometric immunophenotyping of normal, reactive and malignant leukocytes. Leukemia, 2012, 26, 1908-1975.	7.2	738
3	EuroFlow standardization of flow cytometer instrument settings and immunophenotyping protocols. Leukemia, 2012, 26, 1986-2010.	7.2	668
4	Guidelines for the use of flow cytometry and cell sorting in immunological studies[*]. European Journal of Immunology, 2017, 47, 1584-1797.	2.9	505
5	Age-associated distribution of normal B-cell and plasma cell subsets in peripheral blood. Journal of Allergy and Clinical Immunology, 2018, 141, 2208-2219.e16.	2.9	217
6	Flash survey on severe acute respiratory syndrome coronavirus-2 infections in paediatric patients on anticancer treatment. European Journal of Cancer, 2020, 132, 11-16.	2.8	155
7	Quality assessment program for EuroFlow protocols: Summary results of four‑year (2010‑2013) quality assurance rounds. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2015, 87, 145-156.	1.5	144
8	Immunogenicity of BNT162b2 mRNA COVID-19 vaccine and SARS-CoV-2 infection in lung transplant recipients. Journal of Heart and Lung Transplantation, 2021, 40, 754-758.	0.6	106
9	The EuroFlow PID Orientation Tube for Flow Cytometric Diagnostic Screening of Primary Immunodeficiencies of the Lymphoid System. Frontiers in Immunology, 2019, 10, 246.	4.8	100
10	Genetic defects in PI3Kδ affect B-cell differentiation and maturation leading to hypogammaglobulineamia and recurrent infections. Clinical Immunology, 2017, 176, 77-86.	3.2	80
11	Flow cytometric immunobead assay for the detection of BCR–ABL fusion proteins in leukemia patients. Leukemia, 2009, 23, 1106-1117.	7.2	75
12	Utility of Ruxolitinib in a Child with Chronic Mucocutaneous Candidiasis Caused by a Novel STAT1 Gain-of-Function Mutation. Journal of Clinical Immunology, 2018, 38, 589-601.	3.8	70
13	Prognosis of children with mixed phenotype acute leukemia treated on the basis of consistent immunophenotypic criteria. Haematologica, 2010, 95, 928-935.	3.5	63
14	Recovery from and consequences of severe iatrogenic lymphopenia (induced to treat autoimmune) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.2	56
15	Defects in memory B-cell and plasma cell subsets expressing different immunoglobulin-subclasses in patients with CVID and immunoglobulin subclass deficiencies. Journal of Allergy and Clinical Immunology, 2019, 144, 809-824.	2.9	55
16	A high-throughput pipeline for validation of antibodies. Nature Methods, 2018, 15, 909-912.	19.0	52
17	Loss of B cells and their precursors is the most constant feature of GATA-2 deficiency in childhood myelodysplastic syndrome. Haematologica, 2016, 101, 707-716.	3.5	51
18	Regulation of Src Family Kinases Involved in T Cell Receptor Signaling by Protein-tyrosine Phosphatase CD148. Journal of Biological Chemistry, 2011, 286, 22101-22112.	3.4	46

#	Article	IF	Citations
19	Regulatory B cells in CVID patients fail to suppress multifunctional IFN-Î³+TNF-Î±+CD4+ T cells differentiation. Clinical Immunology, 2015, 160, 292-300.	3.2	46
20	CVID-Associated Tumors: Czech Nationwide Study Focused on Epidemiology, Immunology, and Genetic Background in a Cohort of Patients With CVID. Frontiers in Immunology, 2018, 9, 3135.	4.8	45
21	Automated database-guided expert-supervised orientation for immunophenotypic diagnosis and classification of acute leukemia. Leukemia, 2018, 32, 874-881.	7.2	44
22	Signature profiles of CMV-specific T-cells in patients with CMV reactivation after hematopoietic SCT. Bone Marrow Transplantation, 2011, 46, 1089-1098.	2.4	43
23	CD2-positive B-cell precursor acute lymphoblastic leukemia with an early switch to the monocytic lineage. Leukemia, 2014, 28, 609-620.	7.2	43
24	Fluorochrome choices for multi-color flow cytometry. Journal of Immunological Methods, 2019, 475, 112618.	1.4	43
25	EuroFlow-Based Flowcytometric Diagnostic Screening and Classification of Primary Immunodeficiencies of the Lymphoid System. Frontiers in Immunology, 2019, 10, 1271.	4.8	43
26	Myeloid antigens in childhood lymphoblastic leukemia:clinical data point to regulation of CD66c distinct from other myeloid antigens. BMC Cancer, 2005, 5, 38.	2.6	40
27	CD Mapsâ€"Dynamic Profiling of CD1â€"CD100 Surface Expression on Human Leukocyte and Lymphocyte Subsets. Frontiers in Immunology, 2019, 10, 2434.	4.8	39
28	Reproducibility of Flow Cytometry Through Standardization: Opportunities and Challenges. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2020, 97, 137-147.	1.5	39
29	Polyclonal, newly derived T cells with low expression of inhibitory molecule PD-1 in tonsils define the phenotype of lymphocytes in children with Periodic Fever, Aphtous Stomatitis, Pharyngitis and Adenitis (PFAPA) syndrome. Molecular Immunology, 2015, 65, 139-147.	2.2	38
30	Detailed immunophenotyping of Bâ€cell precursors in regenerating bone marrow of acute lymphoblastic leukaemia patients: implications for minimal residual disease detection. British Journal of Haematology, 2017, 178, 257-266.	2.5	37
31	Transfer of genomics information to flow cytometry: expression of CD27 and CD44 discriminates subtypes of acute lymphoblastic leukemia. Leukemia, 2005, 19, 876-878.	7.2	36
32	The TREC/KREC Assay for the Diagnosis and Monitoring of Patients with DiGeorge Syndrome. PLoS ONE, 2014, 9, e114514.	2.5	34
33	Human interleukinâ€23 receptor antagonists derived from an albuminâ€binding domain scaffold inhibit ILâ€23â€dependent *ex vivo* expansion of ILâ€17â€producing Tâ€cells. Proteins: Structure, Function and Bioinformatics, 2014, 82, 975-989.	2.6	31
34	Common Variable Immunodeficiency patients with a phenotypic profile of immunosenescence present with thrombocytopenia. Scientific Reports, 2017, 7, 39710.	3.3	31
35	Interleukin-7 improves reconstitution of antiviral CD4 T cells. Clinical Immunology, 2005, 114, 30-41.	3.2	30
36	MetaMass, a tool for meta-analysis of subcellular proteomics data. Nature Methods, 2016, 13, 837-840.	19.0	30

#	ARTICLE	IF	CITATIONS
37	Detection of residual B precursor lymphoblastic leukemia by uniform gating flow cytometry. Pediatric Blood and Cancer, 2010, 54, 62-70.	1.5	29
38	Optimization and testing of dried antibody tube: The EuroFlow LST and PIDOT tubes as examples. Journal of Immunological Methods, 2019, 475, 112287.	1.4	29
39	<i>DUX4r</i>, <i>ZNF384r</i> and <i>PAX5</i>-P80R mutated B-cell precursor acute lymphoblastic leukemia frequently undergo monocytic switch. Haematologica, 2021, 106, 2066-2075.	3.5	29
40	Multiplexed immuno‐precipitation with 1725 commercially available antibodies to cellular proteins. Proteomics, 2011, 11, 4578-4582.	2.2	27
41	Flow cytometric immunobead assay for fast and easy detection of PML–RARA fusion proteins for the diagnosis of acute promyelocytic leukemia. Leukemia, 2012, 26, 1976-1985.	7.2	27
42	Danon disease: A focus on processing of the novel LAMP2 mutation and comments on the beneficial use of peripheral white blood cells in the diagnosis of LAMP2 deficiency. Gene, 2012, 498, 183-195.	2.2	27
43	Unrelated partially matched lymphocyte infusions in a patient with complete DiGeorge/CHARGE syndrome. Pediatric Transplantation, 2007, 11, 441-447.	1.0	26
44	Frequent issues and lessons learned from EuroFlow QA. Journal of Immunological Methods, 2019, 475, 112520.	1.4	26
45	Impaired Humoral Response to Third Dose of BNT162b2 mRNA COVID-19 Vaccine Despite Detectable Spike Protein–specific T cells in Lung Transplant Recipients. Transplantation, 2021, Publish Ahead of Print, .	1.0	26
46	Lymphoid Differentiation Pathways Can Be Traced by TCR Î´ Rearrangements. Journal of Immunology, 2005, 175, 2495-2500.	0.8	25
47	Kinetics of dendritic cells reconstitution and costimulatory molecules expression after myeloablative allogeneic haematopoetic stem cell transplantation: Implications for the development of acute graft-versus host disease. Clinical Immunology, 2009, 131, 60-69.	3.2	25
48	EVI2B is a C/EBPÎ± target gene required for granulocytic differentiation and functionality of hematopoietic progenitors. Cell Death and Differentiation, 2017, 24, 705-716.	11.2	25
49	A distinct CD38+CD45RA+ population of CD4+, CD8+, and double-negative T cells is controlled by FAS. Journal of Experimental Medicine, 2021, 218, .	8.5	25
50	Profiling of polychromatic flow cytometry data on B‐cells reveals patients' clusters in common variable immunodeficiency. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2009, 75A, 902-909.	1.5	24
51	Comments on EuroFlow standard operating procedures for instrument setup and compensation for BD FACS Canto II, Navios and BD FACS Lyric instruments. Journal of Immunological Methods, 2019, 475, 112680.	1.4	24
52	Detection of fusion genes at the protein level in leukemia patients via the flow cytometric immunobead assay. Best Practice and Research in Clinical Haematology, 2010, 23, 333-345.	1.7	23
53	Characterization of Lymphocyte Subsets in Patients with Common Variable Immunodeficiency Reveals Subsets of Naive Human B Cells Marked by CD24 Expression. Journal of Immunology, 2010, 185, 6431-6438.	0.8	23
54	How to make usage of the standardized EuroFlow 8-color protocols possible for instruments of different manufacturers. Journal of Immunological Methods, 2019, 475, 112388.	1.4	23

#	Article	IF	Citations
55	Correlation of CD33 with poorer prognosis in childhood ALL implicates a potential of anti-CD33 frontline therapy. Leukemia, 2005, 19, 1092-1094.	7.2	22
56	CD44 and CD27 delineate B-precursor stages with different recombination status and with an uneven distribution in nonmalignant and malignant hematopoiesis. Tissue Antigens, 2008, 71, 57-66.	1.0	22
57	Relevance of Antibody Validation for Flow Cytometry. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2020, 97, 126-136.	1.5	21
58	p19-targeted ABD-derived protein variants inhibit IL-23 binding and exert suppressive control over IL-23-stimulated expansion of primary human IL-17+ T-cells. Autoimmunity, 2017, 50, 102-113.	2.6	20
59	Heterologous Cytomegalovirus and Allo-Reactivity by Shared T Cell Receptor Repertoire in Kidney Transplantation. Frontiers in Immunology, 2019, 10, 2549.	4.8	20
60	Lot-to-lot stability of antibody reagents for flow cytometry. Journal of Immunological Methods, 2019, 475, 112294.	1.4	20
61	Acute lymphoblastic leukemia incidence during socioeconomic transition: selective increase in children from 1 to 4 years. Leukemia, 0, 16, 720-725.	7.2	20
62	The Identification of (ETV6)/RUNX1-Regulated Genes in Lymphopoiesis Using Histone Deacetylase Inhibitors in ETV6/RUNX1-Positive Lymphoid Leukemic Cells. Clinical Cancer Research, 2007, 13, 1726-1735.	7.0	19
63	Alteration of B cell subsets and the receptor for B cell activating factor (BAFF) in paediatric patients with type 1 diabetes. Immunology Letters, 2017, 189, 94-100.	2.5	19
64	Appearance of cytomegalovirus-specific T-cells predicts fast resolution of viremia post hematopoietic stem cell transplantation. Cytometry Part B - Clinical Cytometry, 2017, 92, 380-388.	1.5	18
65	Mosaic tissue distribution of the tandem duplication of *LAMP2* exons 4 and 5 demonstrates the limits of Danon disease cellular and molecular diagnostics. Journal of Inherited Metabolic Disease, 2014, 37, 117-124.	3.6	17
66	Selection and validation of antibody clones against IgG and IgA subclasses in switched memory B-cells and plasma cells. Journal of Immunological Methods, 2019, 475, 112372.	1.4	17
67	EuroFlow Standardized Approach to Diagnostic Immunopheneotyping of Severe PID in Newborns and Young Children. Frontiers in Immunology, 2020, 11, 371.	4.8	17
68	TLR8/TLR7 dysregulation due to a novel *TLR8* mutation causes severe autoimmune hemolytic anemia and autoinflammation in identical twins. American Journal of Hematology, 2022, 97, 338-351.	4.1	17
69	Automated identification of leukocyte subsets improves standardization of database-guided expert-supervised diagnostic orientation in acute leukemia: a EuroFlow study. Modern Pathology, 2021, 34, 59-69.	5.5	15
70	De novo generation of CD4 T cells against viruses present in the host during immune reconstitution. Blood, 2005, 105, 2410-2414.	1.4	14
71	Aberrantly expressed CEACAM6 is involved in the signaling leading to apoptosis of acute lymphoblastic leukemia cells. Experimental Hematology, 2010, 38, 653-660.e1.	0.4	14
72	Delineating Human B Cell Precursor Development With Genetically Identified PID Cases as a Model. Frontiers in Immunology, 2019, 10, 2680.	4.8	14

#	Article	IF	Citations
73	Lymphoproliferation, immunodeficiency and early-onset inflammatory bowel disease associated with a novel mutation in Caspase 8. Haematologica, 2019, 104, e32-e34.	3.5	14
74	An automated analysis of highly complex flow cytometryâ€based proteomic data. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2012, 81A, 120-129.	1.5	13
75	A homozygous deletion in the SLC19A1 gene as a cause of folate-dependent recurrent megaloblastic anemia. Blood, 2020, 135, 2427-2431.	1.4	13
76	Dissection of the Pre-Germinal Center B-Cell Maturation Pathway in Common Variable Immunodeficiency Based on Standardized Flow Cytometric EuroFlow Tools. Frontiers in Immunology, 2020, 11, 603972.	4.8	13
77	Novel SAMD9 Mutation in a Patient With Immunodeficiency, Neutropenia, Impaired Anti-CMV Response, and Severe Gastrointestinal Involvement. Frontiers in Immunology, 2019, 10, 2194.	4.8	12
78	Low marginal zone-like B lymphocytes and natural antibodies characterize skewed B-lymphocyte subpopulations in del22q11 DiGeorge patients. Clinical Immunology, 2015, 161, 144-149.	3.2	11
79	Adaptor molecules expression in normal lymphopoiesis and in childhood leukemia. Immunology Letters, 2009, 122, 185-192.	2.5	10
80	Flow diagnostics essential code: A simple and brief format for the summary of leukemia phenotyping. , 2014, 86, 288-291.		10
81	High-resolution Antibody Array Analysis of Childhood Acute Leukemia Cells. Molecular and Cellular Proteomics, 2016, 15, 1246-1261.	3.8	10
82	Early-onset pulmonary and cutaneous vasculitis driven by constitutively active SRC-family kinase HCK. Journal of Allergy and Clinical Immunology, 2022, 149, 1464-1472.e3.	2.9	10
83	Selected Adaptor Proteins NTAL, LAT, PAG, LIME Function in Proximal Signaling, Corticosteroid Driven Apoptosis and Expression of IKAROS Isoforms in the T-Leukemic Cells.. Blood, 2009, 114, 5034-5034.	1.4	10
84	Lymphocyte enrichment using CD81â€targeted immunoaffinity matrix. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2017, 91, 62-72.	1.5	9
85	<i>LAMP2</i> exonâ€copy number variations in Danon disease heterozygote female probands: Infrequent or underdetected?. American Journal of Medical Genetics, Part A, 2018, 176, 2430-2434.	1.2	9
86	Alu â€mediated Xq24 deletion encompassing CUL4B , LAMP2 , ATP1B4 , TMEM255A , and ZBTB33 genes causes Danon disease in a female patient. American Journal of Medical Genetics, Part A, 2020, 182, 219-223.	1.2	9
87	Expert-independent classification of mature B-cell neoplasms using standardized flow cytometry: a multicentric study. Blood Advances, 2021, , .	5.2	9
88	Danon disease is an underdiagnosed cause of advanced heart failure in young female patients: a LAMP2 flow cytometric study. ESC Heart Failure, 2020, 7, 2534-2543.	3.1	8
89	Either IL-7 activation of JAK-STAT or BEZ inhibition of PI3K-AKT-mTOR pathways dominates the single-cell phosphosignature of <i>ex vivo</i> treated pediatric T-cell acute lymphoblastic leukemia cells. Haematologica, 2022, 107, 1293-1310.	3.5	8
90	Standardization of Workflow and Flow Cytometry Panels for Quantitative Expression Profiling of Surface Antigens on Blood Leukocyte Subsets: An HCDM CDMaps Initiative. Frontiers in Immunology, 2022, 13, 827898.	4.8	8

#	ARTICLE	IF	CITATIONS
91	The adaptor protein NTAL enhances proximal signaling and potentiates corticosteroid-induced apoptosis in T-ALL. Experimental Hematology, 2012, 40, 379-385.	0.4	7
92	Quantitative expression of regulatory and differentiation-related genes in the key steps of human hematopoiesis: The LeukoStage Database. Differentiation, 2016, 91, 19-28.	1.9	7
93	TEL/AML1 and immunoreceptor gene rearrangementsâ€"which comes first?. Leukemia Research, 2005, 29, 633-639.	0.8	6
94	Analyses of large flow cytometry datasets. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2014, 85, 203-205.	1.5	6
95	LAMP2 flow cytometry in peripheral white blood cells is an established method that facilitates identification of heterozygous Danon disease female patients and mosaic mutation carriers. Journal of Cardiology, 2015, 66, 88-89.	1.9	6
96	Microarray Guided Flow Cytometry: CD44 and CD27 Are Extremely Powerful Discriminators of ALL Subtypes.. Blood, 2004, 104, 168-168.	1.4	6
97	Interlaboratory variability of CD34+ stem cell enumeration. A pilot study to national external quality assessment within the Czech Republic. International Journal of Laboratory Hematology, 2010, 32, e229-36.	1.3	5
98	Characterization of the B-cell compartment in a patient with Schnitzler syndrome. Scandinavian Journal of Rheumatology, 2011, 40, 158-160.	1.1	5
99	Flow diagnostics essential (FDE) code: A simple and brief format for the summary of leukemia phenotyping. , 2013, , n/a-n/a.		5
100	Cytokines, growth, and environment factors in bone marrow plasma of acute lymphoblastic leukemia pediatric patients. European Cytokine Network, 2014, 25, 8-13.	2.0	5
101	Pigmentary retinopathy can indicate the presence of pathogenic LAMP2 variants even in somatic mosaic carriers with no additional signs of Danon disease. Acta Ophthalmologica, 2021, 99, 61-68.	1.1	5
102	Acute lymphoblastic leukemia with aleukemic prodrome: preleukemic dynamics and possible mechanisms of immunosurveillance. Haematologica, 2017, 102, e225-e228.	3.5	4
103	Editorial: Application of Cytometry in Primary Immunodeficiencies. Frontiers in Immunology, 2020, 11, 463.	4.8	4
104	Implementation of Mass Cytometry for Immunoprofiling of Patients with Solid Tumors. Journal of Immunology Research, 2019, 2019, 1-10.	2.2	3
105	Cytometric analysis of cell suspension generated by cavitron ultrasonic surgical aspirator in pediatric brain tumors. Journal of Neuro-Oncology, 2019, 143, 15-25.	2.9	3
106	Backtracking of ALL to cord blood. Leukemia Research, 2009, 33, e107-e108.	0.8	2
107	Somatic Mutations in Oncogenes Are in Chronic Myeloid Leukemia Acquired De Novo via Deregulated Base-Excision Repair and Alternative Non-Homologous End Joining. Frontiers in Oncology, 2021, 11, 744373.	2.8	2
108	Switching Towards Monocytic Lineage and Discordancy between Flow Cytometric and PCR Minimal Residual Disease Results Is a Hallmark Feature of DUX4 Rearranged B-Cell Precursor Acute Lymphoblastic Leukemia. Blood, 2018, 132, 2825-2825.	1.4	2

#	Article	IF	Citations
109	Interleukin-7 improves reconstitution of antiviral CD4 T cells. Biology of Blood and Marrow Transplantation, 2005, 11, 53-54.	2.0	1
110	CD27 expression in malignant and normal human B precursors: a confirmed phenomenon. Reply to Nilsson and colleagues.. Experimental Hematology, 2006, 34, 573.	0.4	1
111	Histone Deacetylase Inhibitors Are Capable to Modify Leukaemia-Specific Phenotype of TEL/AML1-Positive Leukaemic Cells.. Blood, 2004, 104, 1891-1891.	1.4	1
112	Flow Cytometric Detection of BCR-ABL Fusion Proteins in Leukemia Patients Via An Immunobead Assay. Blood, 2008, 112, 2533-2533.	1.4	0
113	B Precursor ALL Subset with Aberrant CD2 Expression and a Specific Predisposition to Early Monocytic Transdifferentiation. Blood, 2010, 116, 1708-1708.	1.4	0
114	Dual Production of IL-2 and IFN-Gamma by CMV-Specific CD8+ T-Cells Is a Hallmark of Their Ability to Control CMV Reactivation in Patients After Hematopoietic Stem Cell Transplantation,. Blood, 2011, 118, 4081-4081.	1.4	0
115	Novel Flow Cytometry-Based Method Of Affinity Proteomics Revealing Expression, Post-Translational Modification and Proteolysis In Primary Childhood Acute Leukemias. Blood, 2013, 122, 2553-2553.	1.4	0
116	Potential Involvement of Physiological TCR Gamma Delta Clones in Immune Surveillance of Preleukemic Cells. Blood, 2014, 124, 3775-3775.	1.4	0
117	CD Maps - Dynamic Profiling of CD1 to CD100 Surface Expression on Human Leukocyte and Lymphocyte Subsets. Blood, 2019, 134, 4878-4878.	1.4	0
118	THU0053â€¦CONTRIBUTION OF DEFECTIVE NON-APOPTOTIC FAS SIGNALING TO IMMUNE DYSREGULATION IN AUTOIMMUNE LYMPHOPROLIFERATIVE SYNDROME (ALPS). Annals of the Rheumatic Diseases, 2020, 79, 238.3-238.	0.9	0
119	Single-Cell Profiling of Signal Transduction Pathways in Pediatric T-Cell Acute Lymphoblastic Leukemia By Mass Cytometry:Dissecting JAK/STAT and PI3K/Akt/mTOR Active Signalling. Blood, 2020, 136, 38-39.	1.4	0
120	Hydrops fetalis and failure of hematopoietic stem cell transplantation â€" A long route to the diagnosis of SPTA1-associated hereditary spherocytosis. Blood Cells, Molecules, and Diseases, 2022, 95, 102664.	1.4	0