Ryan R Brinkman

List of Publications by Year in Descending Order

130 papers	8,441 citations	45 h-index	91 g-index
148 ext. papers	10,130 ext. citations	6.9 avg, IF	5.46 L-index

#	Paper	IF	Citations
130	Occurrence of T-cell and NK-cell subsets with less well-recognized phenotypes in peripheral blood submitted for routine flow cytometry analysis. *Cytometry Part B - Clinical Cytology*, **2021**, 100, 235-239	3.4	2
129	ISAC Probe Tag Dictionary: Standardized Nomenclature for Detection and Visualization Labels Used in Cytometry and Microscopy Imaging. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2021**, 99, 103-106	4.6	3
128	Data File Standard for Flow Cytometry, Version FCS 3.2. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2021**, 99, 100-102	4.6	3
127	Clinical Protocol for a Longitudinal Cohort Study Employing Systems Biology to Identify Markers of Vaccine Immunogenicity in Newborn Infants in The Gambia and Papua New Guinea. *Frontiers in Pediatrics*, **2020**, 8, 197	3.4	7
126	BCG vaccination-induced emergency granulopoiesis provides rapid protection from neonatal sepsis. *Science Translational Medicine*, **2020**, 12,	17.5	35
125	The miR-185/PAK6 axis predicts therapy response and regulates survival of drug-resistant leukemic stem cells in CML. *Blood*, **2020**, 136, 596-609	2.2	12
124	Single Cell Phenotypic Profiling of 27 DLBCL Cases Reveals Marked Intertumoral and Intratumoral Heterogeneity. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2020**, 97, 620-629	4.6	8
123	High-throughput phenotyping reveals expansive genetic and structural underpinnings of immune variation. *Nature Immunology*, **2020**, 21, 86-100	19.1	15
122	Systems Biology Methods Applied to Blood and Tissue for a Comprehensive Analysis of Immune Response to Hepatitis B Vaccine in Adults. *Frontiers in Immunology*, **2020**, 11, 580373	8.4	8
121	"Age Related Differences in the Biology of Chronic Graft-Versus-Host Disease After Hematopoietic Stem Cell Transplantation". *Frontiers in Immunology*, **2020**, 11, 571884	8.4	3
120	Multi-Omic Data Integration Allows Baseline Immune Signatures to Predict Hepatitis B Vaccine Response in a Small Cohort. *Frontiers in Immunology*, **2020**, 11, 578801	8.4	9
119	Guidelines for the use of flow cytometry and cell sorting in immunological studies (second edition). *European Journal of Immunology*, **2019**, 49, 1457-1973	6.1	485
118	Flow cytometry data analysis: Recent tools and algorithms. *International Journal of Laboratory Hematology*, **2019**, 41 Suppl 1, 56-62	2.5	28
117	Data-Driven Flow Cytometry Analysis. *Methods in Molecular Biology*, **2019**, 1989, 245-265	1.4	4
116	Dynamic molecular changes during the first week of human life follow a robust developmental trajectory. *Nature Communications*, **2019**, 10, 1092	17.4	79
115	Improving the Quality and Reproducibility of Flow Cytometry in the Lung. An Official American Thoracic Society Workshop Report. *American Journal of Respiratory Cell and Molecular Biology*, **2019**, 61, 150-161	5.7	23
114	Implementation and Validation of an Automated Flow Cytometry Analysis Pipeline for Human Immune Profiling. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2019**, 95, 183-191	4.6	11

113	flowLearn: fast and precise identification and quality checking of cell populations in flow cytometry. *Bioinformatics*, **2018**, 34, 2245-2253	7.2	22
112	High throughput automated analysis of big flow cytometry data. *Methods*, **2018**, 134-135, 164-176	4.6	13
111	ddPCRclust: an R package and Shiny app for automated analysis of multiplexed ddPCR data. *Bioinformatics*, **2018**, 34, 2687-2689	7.2	8
110	Use FlowRepository to share your clinical data upon study publication. *Cytometry Part B - Clinical Cytometry*, **2018**, 94, 196-198	3.4	5
109	A standardized immune phenotyping and automated data analysis platform for multicenter biomarker studies. *JCI Insight*, **2018**, 3,	9.9	19
108	Single-Cell Profiling Reveals Distinct Tumor Subtypes and Their Associated T-Cell Environments in Follicular Lymphoma. *Blood*, **2018**, 132, 1577-1577	2.2	
107	Global Transcriptome Profiling Identifies a Key Mir-185-PAK6 Axis That Promotes Survival of Leukemic Stem Cells and Drug-Insensitive Blasts in BCR-ABL+ Human Leukemia. *Blood*, **2018**, 132, 931-931	2.2	
106	Methodology for evaluating and comparing flow cytometers: A multisite study of 23 instruments. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2018**, 93, 1087-1091	4.6	8
105	Evaluating flow cytometer performance with weighted quadratic least squares analysis of LED and multi-level bead data. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2017**, 91, 232-249	4.6	10
104	Guidelines for the use of flow cytometry and cell sorting in immunological studies. *European Journal of Immunology*, **2017**, 47, 1584-1797	6.1	359
103	An Early Naïve T Cell Population Lacking PD1 Expression at Day 100 As A Prognostic Biomarker of Chronic GVHD. *Transplantation*, **2017**, 101, S40	1.8	
102	Standardized Immunophenotyping in the Canadian National Transplant Research Program. *Transplantation*, **2017**, 101, S62	1.8	
101	T-Cell Phenotypes Predictive of Frailty and Mortality in Elderly Nursing Home Residents. *Journal of the American Geriatrics Society*, **2017**, 65, 153-159	5.6	22
100	Standardizing Flow Cytometry Immunophenotyping Analysis from the Human ImmunoPhenotyping Consortium. *Scientific Reports*, **2016**, 6, 20686	4.9	168
99	The Ontology for Biomedical Investigations. *PLoS ONE*, **2016**, 11, e0154556	3.7	143
98	flowClean: Automated identification and removal of fluorescence anomalies in flow cytometry data. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2016**, 89, 461-71	4.6	27
97	A benchmark for evaluation of algorithms for identification of cellular correlates of clinical outcomes. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2016**, 89, 16-21	4.6	51
96	Publishing code is essential for reproducible flow cytometry bioinformatics. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2016**, 89, 10-1	4.6	7

95	Thinking outside the gate: single-cell assessments in multiple dimensions. *Immunity*, **2015**, 42, 591-2	32.3	51
94	Deep profiling of multitube flow cytometry data. *Bioinformatics*, **2015**, 31, 1623-31	7.2	10
93	ISAC classification results file format. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2015**, 87, 86-8	4.6	4
92	flowCL: ontology-based cell population labelling in flow cytometry. *Bioinformatics*, **2015**, 31, 1337-9	7.2	15
91	A randomized controlled trial on the effects of goal-directed therapy on the inflammatory response open abdominal aortic aneurysm repair. *Critical Care*, **2015**, 19, 247	10.8	25
90	ISAC Gating-ML 2.0 data exchange standard for gating description. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2015**, 87, 683-7	4.6	9
89	flowDensity: reproducing manual gating of flow cytometry data by automated density-based cell population identification. *Bioinformatics*, **2015**, 31, 606-7	7.2	73
88	The core autophagy protein ATG4B is a potential biomarker and therapeutic target in CML stem/progenitor cells. *Blood*, **2014**, 123, 3622-34	2.2	139
87	The logic of surveillance guidelines: an analysis of vaccine adverse event reports from an ontological perspective. *PLoS ONE*, **2014**, 9, e92632	3.7	6
86	Enhanced flowType/RchyOptimyx: a BioConductor pipeline for discovery in high-dimensional cytometry data. *Bioinformatics*, **2014**, 30, 1329-30	7.2	23
85	Bim regulates alloimmune-mediated vascular injury through effects on T-cell activation and death. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2014**, 34, 1290-7	9.4	5
84	Computational analysis optimizes the flow cytometric evaluation for lymphoma. *Cytometry Part B - Clinical Cytometry*, **2014**, 86, 18-24	3.4	6
83	Computational analysis of high-dimensional flow cytometric data for diagnosis and discovery. *Current Topics in Microbiology and Immunology*, **2014**, 377, 159-75	3.3	3
82	Identification of New microRNA Biomarkers and Candidate Target Genes in Primitive CML Cells Using Global Comparative RNA analyses. *Blood*, **2014**, 124, 3133-3133	2.2	2
81	Immune biomarkers predictive of respiratory viral infection in elderly nursing home residents. *PLoS ONE*, **2014**, 9, e108481	3.7	37
80	GenePattern flow cytometry suite. *Source Code for Biology and Medicine*, **2013**, 8, 14	1.9	14
79	Cerebral oxygen desaturation during one-lung ventilation: correlation with hemodynamic variables. *Canadian Journal of Anaesthesia*, **2013**, 60, 660-6	3	14
78	Scoring relevancy of features based on combinatorial analysis of Lasso with application to lymphoma diagnosis. *BMC Genomics*, **2013**, 14 Suppl 1, S14	4.5	18

77	BAIT: Organizing genomes and mapping rearrangements in single cells. *Genome Medicine*, **2013**, 5, 82	14.4	26
76	Critical assessment of automated flow cytometry data analysis techniques. *Nature Methods*, **2013**, 10, 228-38	21.6	392
75	The luminal progenitor compartment of the normal human mammary gland constitutes a unique site of telomere dysfunction. *Stem Cell Reports*, **2013**, 1, 28-37	8	40
74	Flow cytometry bioinformatics. *PLoS Computational Biology*, **2013**, 9, e1003365	5	63
73	Computational analysis optimizes the flow cytometric evaluation for lymphoma. *Cytometry Part B - Clinical Cytometry*, **2013**,	3.4	3
72	Integration of lyoplate based flow cytometry and computational analysis for standardized immunological biomarker discovery. *PLoS ONE*, **2013**, 8, e65485	3.7	14
71	Distinct but phenotypically heterogeneous human cell populations produce rapid recovery of platelets and neutrophils after transplantation. *Blood*, **2012**, 119, 3431-9	2.2	18
70	B cells with high side scatter parameter by flow cytometry correlate with inferior survival in diffuse large B-cell lymphoma. *American Journal of Clinical Pathology*, **2012**, 137, 805-14	1.9	10
69	Early immunologic correlates of HIV protection can be identified from computational analysis of complex multivariate T-cell flow cytometry assays. *Bioinformatics*, **2012**, 28, 1009-16	7.2	64
68	RchyOptimyx: cellular hierarchy optimization for flow cytometry. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2012**, 81, 1022-30	4.6	46
67	Hematopoietic stem cell subtypes expand differentially during development and display distinct lymphopoietic programs. *Cell Stem Cell*, **2012**, 10, 273-83	18	220
66	FlowRepository: a resource of annotated flow cytometry datasets associated with peer-reviewed publications. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2012**, 81, 727-31	4.6	109
65	The phenotypic distribution and functional profile of tuberculin-specific CD4 T-cells characterizes different stages of TB infection. *Cytometry Part B - Clinical Cytometry*, **2012**, 82, 360-8	3.4	15
64	Preparing a Minimum Information about a Flow Cytometry Experiment (MIFlowCyt) compliant manuscript using the International Society for Advancement of Cytometry (ISAC) FCS file repository (FlowRepository.org). *Current Protocols in Cytometry*, **2012**, Chapter 10, Unit 10.18	3.6	17
63	FCS 3.1 Implementation guidance. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2012**, 81, 523-6	4.6	5
62	Automated analysis of multidimensional flow cytometry data improves diagnostic accuracy between mantle cell lymphoma and small lymphocytic lymphoma. *American Journal of Clinical Pathology*, **2012**, 137, 75-85	1.9	32
61	Short Term Signalling Responses of the Most Primitive Subsets of Human Hematopoietic Cells Stimulated in Vitro Correlate with Their Subsequent Self-Renewal Behaviour.. *Blood*, **2012**, 120, 2341-2341	2.2	1
60	Flow cytometry data standards. *BMC Research Notes*, **2011**, 4, 50	2.3	11

59	Rapid cell population identification in flow cytometry data. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2011**, 79, 6-13	4.6	136
58	Overcoming the ontology enrichment bottleneck with Quick Term Templates. *Applied Ontology*, **2011**, 6, 13-22	1.4	4
57	MIREOT: The minimum information to reference an external ontology term. *Applied Ontology*, **2011**, 6, 23-33	1.4	57
56	Per-channel basis normalization methods for flow cytometry data. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2010**, 77, 121-31	4.6	55
55	Data File Standard for Flow Cytometry, version FCS 3.1. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2010**, 77, 97-100	4.6	32
54	Properties of CD34+ CML stem/progenitor cells that correlate with different clinical responses to imatinib mesylate. *Blood*, **2010**, 116, 2112-21	2.2	44
53	Data reduction for spectral clustering to analyze high throughput flow cytometry data. *BMC Bioinformatics*, **2010**, 11, 403	3.6	107
52	OntoFox: web-based support for ontology reuse. *BMC Research Notes*, **2010**, 3, 175	2.3	117
51	Modeling biomedical experimental processes with OBI. *Journal of Biomedical Semantics*, **2010**, 1 Suppl 1, S7	2.2	187
50	Identification of B cells through negative gating-An example of the MIFlowCyt standard applied. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2010**, 77, 546-51	4.6	13
49	Correlation analysis of intracellular and secreted cytokines via the generalized integrated mean fluorescence intensity. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2010**, 77, 873-80	4.6	35
48	Analysis of High-Throughput Flow Cytometry Data Using plateCore. *Advances in Bioinformatics*, **2009**, 356141	5.5	8
47	A survey of flow cytometry data analysis methods. *Advances in Bioinformatics*, **2009**, 584603	5.5	65
46	Recent bioinformatics advances in the analysis of high throughput flow cytometry data. *Advances in Bioinformatics*, **2009**, 461763	5.5	1
45	Overcoming the Ontology Enrichment Bottleneck with Quick Term Templates. *Nature Precedings*, **2009**,		4
44	A pipeline for automated analysis of flow cytometry data: preliminary results on lymphoma sub-type diagnosis. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2009**, 2009, 4945-8	0.9	6
43	A container for the advanced cytometry standard (ACS) **2009**,		1
42	flowCore: a Bioconductor package for high throughput flow cytometry. *BMC Bioinformatics*, **2009**, 10, 106	3.6	300

41	flowClust: a Bioconductor package for automated gating of flow cytometry data. *BMC Bioinformatics*, **2009**, 10, 145	3.6	129
40	FuGEFlow: data model and markup language for flow cytometry. *BMC Bioinformatics*, **2009**, 10, 184	3.6	6
39	Reply to Œreassessing the human mammary stem cell concept by modeling limiting dilution transplantation assaysŒ *Nature Medicine*, **2009**, 15, 604-605	50.5	
38	Cytogenetic and molecular responses to standard-dose imatinib in chronic myeloid leukemia are correlated with Sokal risk scores and duration of therapy but not trough imatinib plasma levels. *Leukemia Research*, **2009**, 33, 271-5	2.7	63
37	Correlation between trough imatinib plasma concentration and clinical response in chronic myeloid leukemia. *Leukemia Research*, **2009**, 33, 1149-1150	2.7	
36	Reduction in multi-lineage and erythroid progenitors distinguishes myelodysplastic syndromes from non-malignant cytopenias. *Leukemia Research*, **2009**, 33, 1636-42	2.7	0
35	Diffuse large B-cell lymphoma: reduced CD20 expression is associated with an inferior survival. *Blood*, **2009**, 113, 3773-80	2.2	106
34	Merging mixture components for cell population identification in flow cytometry. *Advances in Bioinformatics*, **2009**, 247646	5.5	72
33	Promoting coherent minimum reporting guidelines for biological and biomedical investigations: the MIBBI project. *Nature Biotechnology*, **2008**, 26, 889-96	44.5	417
32	Allogeneic SCT for relapsed composite and transformed lymphoma using related and unrelated donors: long-term results. *Bone Marrow Transplantation*, **2008**, 42, 601-8	4.4	20
31	Automated gating of flow cytometry data via robust model-based clustering. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2008**, 73, 321-32	4.6	185
30	MIFlowCyt: the minimum information about a Flow Cytometry Experiment. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2008**, 73, 926-30	4.6	279
29	Gating-ML: XML-based gating descriptions in flow cytometry. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2008**, 73A, 1151-7	4.6	28
28	Salvage Therapy with Allogeneic Stem Cell Transplantation Results in Better Outcome for Patients with Relapsed/Refractory Follicular Lymphoma Compared to Those with Transformed Non-Hodgkin Lymphoma: A Population-Based Comparative Study.. *Blood*, **2008**, 112, 975-975	2.2	4
27	Impact of Comorbidity Index on Outcome with Allogeneic Hematopoetic Stem Cell Transplantation for Chronic Lymphocytic Leukemia. *Blood*, **2008**, 112, 3305-3305	2.2	
26	Data quality assessment of ungated flow cytometry data in high throughput experiments. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2007**, 71, 393-403	4.6	30
25	The relationship between CAG repeat length and age of onset differs for Huntingtonœ disease patients with juvenile onset or adult onset. *Annals of Human Genetics*, **2007**, 71, 295-301	2.2	89
24	Long-term propagation of distinct hematopoietic differentiation programs in vivo. *Cell Stem Cell*, **2007**, 1, 218-29	18	437

#	Reference	IF	Cites
23	High-content flow cytometry and temporal data analysis for defining a cellular signature of graft-versus-host disease. *Biology of Blood and Marrow Transplantation*, **2007**, 13, 691-700	4.7	55
22	Allogeneic Stem Cell Transplant in First Complete Remission Overcomes the Poor Prognosis Associated with the FLT-3 Internal Tandem Duplication in Acute Myeloid Leukemia.. *Blood*, **2007**, 110, 3491-3491	2.2	
21	Development of FuGO: an ontology for functional genomics investigations. *OMICS A Journal of Integrative Biology*, **2006**, 10, 199-204	3.8	45
20	Data standards for flow cytometry. *OMICS A Journal of Integrative Biology*, **2006**, 10, 209-14	3.8	20
19	Human monogenic disorders - a source of novel drug targets. *Nature Reviews Genetics*, **2006**, 7, 249-60	30.1	69
18	Wrestling with SUMO and bio-ontologies. *Nature Biotechnology*, **2006**, 24, 21-2; author reply 23	44.5	6
17	Wrestling with SUMO and bio-ontologies. *Nature Biotechnology*, **2006**, 24, 21; author reply 23	44.5	5
16	Prior Rituximab Reduces Relapse and Improves Survival Following High Dose Chemotherapy and Stem Cell Transplantation for Relapsed Composite Low and Intermediate Grade (Including Transformed) Lymphoma.. *Blood*, **2006**, 108, 3662-3662	2.2	0
15	A new model for prediction of the age of onset and penetrance for Huntington's disease based on CAG length. *Clinical Genetics*, **2004**, 65, 267-77	4	614
14	Evidence for a modifier of onset age in Huntington disease linked to the HD gene in 4p16. *Neurogenetics*, **2004**, 5, 109-14	3	63
13	Identification of a novel gene (HSN2) causing hereditary sensory and autonomic neuropathy type II through the Study of Canadian Genetic Isolates. *American Journal of Human Genetics*, **2004**, 74, 1064-73	11	111
12	Interaction of normal and expanded CAG repeat sizes influences age at onset of Huntington disease **2003**, 119A, 279-82		117
11	Psychological consequences and predictors of adverse events in the first 5 years after predictive testing for Huntington's disease. *Clinical Genetics*, **2003**, 64, 300-9	4	97
10	A genome scan for modifiers of age at onset in Huntington disease: The HD MAPS study. *American Journal of Human Genetics*, **2003**, 73, 682-7	11	131
9	Familial influence on age of onset among siblings with Huntington disease*. *American Journal of Medical Genetics Part A*, **2001**, 105, 399-403		75
8	Clinical markers of early disease in persons near onset of Huntington's disease. *Neurology*, **2001**, 57, 658-62		180
7	A worldwide assessment of the frequency of suicide, suicide attempts, or psychiatric hospitalization after predictive testing for Huntington disease. *American Journal of Human Genetics*, **1999**, 64, 1293-304	11	214
6	A yeast artificial chromosome-based physical map of the juvenile amyotrophic lateral sclerosis (ALS2) critical region on human chromosome 2q33-q34. *Genomics*, **1999**, 55, 106-12	4.3	18

| 5 | Representation of cloned genomic sequences in two sequencing vectors: correlation of DNA sequence and subclone distribution. *Nucleic Acids Research*, **1997**, 25, 2960-6 | 20.1 | 16 |

| 4 | Toward understanding the molecular pathology of Huntington's disease. *Brain Pathology*, **1997**, 7, 979-1002 | 6 | 68 |

| 3 | The construction and analysis of M13 libraries prepared from YAC DNA. *Nucleic Acids Research*, **1995**, 23, 670-4 | 20.1 | 23 |

| 2 | Complete nucleotide sequence of Saccharomyces cerevisiae chromosome VIII. *Science*, **1994**, 265, 2077-82 | 33.3 | 266 |

| 1 | flowCut – An R package for precise and accurate automated removal of outlier events and flagging of files based on time versus fluorescence analysis | | 3 |