Richard H Scheuermann

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7829943/publications.pdf

Version: 2024-02-01

145 papers

15,849 citations

50 h-index 24511 114 g-index

176 all docs

176 docs citations

times ranked

176

28827 citing authors

#	Article	IF	CITATIONS
1	Defining the risk of SARS-CoV-2 variants on immune protection. Nature, 2022, 605, 640-652.	13.7	117
2	Genomic evolution of the Coronaviridae family. Virology, 2022, 570, 123-133.	1.1	13
3	The genome and preliminary single-nuclei transcriptome of <i>Lemna minuta </i> reveals mechanisms of invasiveness. Plant Physiology, 2022, 188, 879-897.	2.3	13
4	Cell type matching in single-cell RNA-sequencing data using FR-Match. Scientific Reports, 2022, 12, .	1.6	12
5	Acute flaccid myelitis: cause, diagnosis, and management. Lancet, The, 2021, 397, 334-346.	6.3	88
6	Standardization of assay representation in the Ontology for Biomedical Investigations. Database: the Journal of Biological Databases and Curation, 2021, 2021, .	1.4	5
7	SARS-CoV-2 infection of the oral cavity and saliva. Nature Medicine, 2021, 27, 892-903.	15.2	527
8	A system-view of Bordetella pertussis booster vaccine responses in adults primed with whole-cell versus acellular vaccine in infancy. JCI Insight, 2021, 6, .	2.3	10
9	A machine learning method for the discovery of minimum marker gene combinations for cell type identification from single-cell RNA sequencing. Genome Research, 2021, 31, 1767-1780.	2.4	50
10	Impact of SARS-CoV-2 variants on the total CD4+ and CD8+ TÂcell reactivity in infected or vaccinated individuals. Cell Reports Medicine, 2021, 2, 100355.	3.3	490
11	Database and Analytical Resources for Viral Research Community. , 2021, , 141-152.		4
12	Comparative cellular analysis of motor cortex in human, marmoset and mouse. Nature, 2021, 598, 111-119.	13.7	361
13	Machine Learning-Based Single Cell and Integrative Analysis Reveals That Baseline mDC Predisposition Correlates With Hepatitis B Vaccine Antibody Response. Frontiers in Immunology, 2021, 12, 690470.	2.2	8
14	Machine Learning of Discriminative Gate Locations for Clinical Diagnosis. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2020, 97, 296-307.	1.1	8
15	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.	2.2	28
16	Guidelines for reporting single-cell RNA-seq experiments. Nature Biotechnology, 2020, 38, 1384-1386.	9.4	27
17	Epidemiology and Sequence-Based Evolutionary Analysis of Circulating Non-Polio Enteroviruses. Microorganisms, 2020, 8, 1856.	1.6	23
18	A community-based transcriptomics classification and nomenclature of neocortical cell types. Nature Neuroscience, 2020, 23, 1456-1468.	7.1	183

#	Article	IF	Citations
19	FR-Match: robust matching of cell type clusters from single cell RNA sequencing data using the Friedman–Rafsky non-parametric test. Briefings in Bioinformatics, 2020, 22, .	3.2	12
20	Multi-Omic Data Integration Allows Baseline Immune Signatures to Predict Hepatitis B Vaccine Response in a Small Cohort. Frontiers in Immunology, 2020, 11, 578801.	2.2	20
21	Sampling bias and incorrect rooting make phylogenetic network tracing of SARS-COV-2 infections unreliable. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 12522-12523.	3.3	68
22	Unbiased analysis of peripheral blood mononuclear cells reveals CD4 T cell response to RSV matrix protein. Vaccine: X, 2020, 5, 100065.	0.9	0
23	A Sequence Homology and Bioinformatic Approach Can Predict Candidate Targets for Immune Responses to SARS-CoV-2. Cell Host and Microbe, 2020, 27, 671-680.e2.	5.1	893
24	Transcriptomic evidence that von Economo neurons are regionally specialized extratelencephalic-projecting excitatory neurons. Nature Communications, 2020, 11, 1172.	5.8	70
25	Candidate Targets for Immune Responses to 2019-Novel Coronavirus (nCoV): Sequence Homology- and Bioinformatic-Based Predictions. SSRN Electronic Journal, 2020, , 3541361.	0.4	13
26	1409. Genomic Variation Among Respiratory Syncytial Viruses. Open Forum Infectious Diseases, 2020, 7, S712-S712.	0.4	0
27	Classification of human Herpesviridae proteins using Domain-architecture Aware Inference of Orthologs (DAIO). Virology, 2019, 529, 29-42.	1.1	12
28	A survey of known immune epitopes in the enteroviruses strains associated with acute flaccid myelitis. Human Immunology, 2019, 80, 923-929.	1.2	11
29	Conserved cell types with divergent features in human versus mouse cortex. Nature, 2019, 573, 61-68.	13.7	1,198
30	Hepatitis C Virus Database and Bioinformatics Analysis Tools in the Virus Pathogen Resource (ViPR). Methods in Molecular Biology, 2019, 1911, 47-69.	0.4	4
31	Differential transcriptome and development of human peripheral plasma cell subsets. JCI Insight, 2019, 4, .	2.3	41
32	DAFi: A directed recursive data filtering and clustering approach for improving and interpreting data clustering identification of cell populations from polychromatic flow cytometry data. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2018, 93, 597-610.	1,1	18
33	Cell type discovery using single-cell transcriptomics: implications for ontological representation. Human Molecular Genetics, 2018, 27, R40-R47.	1.4	63
34	Allergen-specific immunotherapy modulates the balance of circulating Tfh and Tfr cells. Journal of Allergy and Clinical Immunology, 2018, 141, 775-777.e6.	1.5	45
35	Single-nucleus and single-cell transcriptomes compared in matched cortical cell types. PLoS ONE, 2018, 13, e0209648.	1.1	400
36	Contemporary Circulating Enterovirus D68 Strains Have Acquired the Capacity for Viral Entry and Replication in Human Neuronal Cells. MBio, 2018, 9, .	1.8	79

#	Article	IF	Citations
37	Chromosome Y–encoded antigens associate with acute graft-versus-host disease in sex-mismatched stem cell transplant. Blood Advances, 2018, 2, 2419-2429.	2.5	11
38	VDJServer: A Cloud-Based Analysis Portal and Data Commons for Immune Repertoire Sequences and Rearrangements. Frontiers in Immunology, 2018, 9, 976.	2.2	68
39	Bioinformatics Meets Virology: The European Virus Bioinformatics Center's Second Annual Meeting. Viruses, 2018, 10, 256.	1.5	6
40	Transcriptomic and morphophysiological evidence for a specialized human cortical GABAergic cell type. Nature Neuroscience, 2018, 21, 1185-1195.	7.1	212
41	An Integrated Workflow To Assess Technical and Biological Variability of Cell Population Frequencies in Human Peripheral Blood by Flow Cytometry. Journal of Immunology, 2017, 198, 1748-1758.	0.4	69
42	A bioinformatics roadmap for the human vaccines project. Expert Review of Vaccines, 2017, 16, 535-544.	2.0	6
43	PRODUCTION OF A PRELIMINARY QUALITY CONTROL PIPELINE FOR SINGLE NUCLEI RNA-SEQ AND ITS APPLICATION IN THE ANALYSIS OF CELL TYPE DIVERSITY OF POST-MORTEM HUMAN BRAIN NEOCORTEX. , 2017, 22, 564-575.		8
44	Automated Analysis of Clinical Flow Cytometry Data. Clinics in Laboratory Medicine, 2017, 37, 931-944.	0.7	7
45	Fast and accurate HLA typing from short-read next-generation sequence data with xHLA. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 8059-8064.	3.3	118
46	Influenza Research Database: An integrated bioinformatics resource for influenza virus research. Nucleic Acids Research, 2017, 45, D466-D474.	6.5	293
47	Automated Analysis of Flow Cytometry Data to Reduce Inter-Lab Variation in the Detection of Major Histocompatibility Complex Multimer-Binding T Cells. Frontiers in Immunology, 2017, 8, 858.	2.2	9
48	Comprehensive Annotation of Mature Peptides and Genotypes for Zika Virus. PLoS ONE, 2017, 12, e0170462.	1.1	21
49	VDJPipe: a pipelined tool for pre-processing immune repertoire sequencing data. BMC Bioinformatics, 2017, 18, 448.	1.2	18
50	Cell type discovery and representation in the era of high-content single cell phenotyping. BMC Bioinformatics, 2017, 18, 559.	1.2	51
51	Identification of diagnostic peptide regions that distinguish Zika virus from related mosquito-borne Flaviviruses. PLoS ONE, 2017, 12, e0178199.	1.1	26
52	Genetic changes found in a distinct clade of Enterovirus D68 associated with paralysis during the 2014 outbreak. Virus Evolution, 2016, 2, vew015.	2.2	44
53	The Ontology for Biomedical Investigations. PLoS ONE, 2016, 11, e0154556.	1.1	217
54	A Phylogeny-Based Global Nomenclature System and Automated Annotation Tool for H1 Hemagglutinin Genes from Swine Influenza A Viruses. MSphere, 2016, 1, .	1.3	151

#	Article	IF	CITATIONS
55	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.	1.1	65
56	Mapping cell populations in flow cytometry data for crossâ€sample comparison using the Friedman–Rafsky test statistic as a distance measure. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2016, 89, 71-88.	1.1	20
57	Automated analysis of flow cytometry data comes of age. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2016, 89, 13-15.	1.1	23
58	Standardizing Flow Cytometry Immunophenotyping Analysis from the Human ImmunoPhenotyping Consortium. Scientific Reports, 2016, 6, 20686.	1.6	240
59	VDJML: a file format with tools for capturing the results of inferring immune receptor rearrangements. BMC Bioinformatics, 2016, 17, 333.	1.2	16
60	Using single nuclei for RNA-seq to capture the transcriptome of postmortem neurons. Nature Protocols, $2016,11,499\text{-}524.$	5.5	358
61	Zika virus: designate standardized names. Nature, 2016, 531, 173-173.	13.7	3
62	Stateâ€ofâ€theâ€Art in the Computational Analysis of Cytometry Data. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2015, 87, 591-593.	1,1	13
63	A RESTful API for Access to Phylogenetic Tools via the CIPRES Science Gateway. Evolutionary Bioinformatics, 2015, 11, EBO.S21501.	0.6	390
64	FlowGate., 2015,,.		5
65	Thinking Outside the Gate: Single-Cell Assessments in Multiple Dimensions. Immunity, 2015, 42, 591-592.	6.6	67
66	Diversifying Selection Analysis Predicts Antigenic Evolution of 2009 Pandemic H1N1 Influenza A Virus in Humans. Journal of Virology, 2015, 89, 5427-5440.	1.5	21
67	flowCL: ontology-based cell population labelling in flow cytometry. Bioinformatics, 2015, 31, 1337-1339.	1.8	25
68	Standardized Metadata for Human Pathogen/Vector Genomic Sequences. PLoS ONE, 2014, 9, e99979.	1.1	34
69	A comprehensive collection of systems biology data characterizing the host response to viral infection. Scientific Data, 2014, 1, 140033.	2.4	62
70	Toward a method for tracking virus evolutionary trajectory applied to the pandemic H1N1 2009 influenza virus. Infection, Genetics and Evolution, 2014, 28, 351-357.	1.0	3
71	Response of human skin to esthetic scarification. Burns, 2014, 40, 1338-1344.	1.1	5
72	GenePattern flow cytometry suite. Source Code for Biology and Medicine, 2013, 8, 14.	1.7	16

#	Article	IF	Citations
73	Metadata-driven comparative analysis tool for sequences (meta-CATS): An automated process for identifying significant sequence variations that correlate with virus attributes. Virology, 2013, 447, 45-51.	1.1	35
74	Critical assessment of automated flow cytometry data analysis techniques. Nature Methods, 2013, 10, 228-238.	9.0	509
75	Virus Pathogen Database and Analysis Resource (ViPR): A Comprehensive Bioinformatics Database and Analysis Resource for the Coronavirus Research Community. Viruses, 2012, 4, 3209-3226.	1.5	156
76	ViPR: an open bioinformatics database and analysis resource for virology research. Nucleic Acids Research, 2012, 40, D593-D598.	6.5	610
77	Influenza Virus Sequence Feature Variant Type Analysis: Evidence of a Role for NS1 in Influenza Virus Host Range Restriction. Journal of Virology, 2012, 86, 5857-5866.	1.5	35
78	FCSTrans: An open source software system for FCS file conversion and data transformation. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2012, 81A, 353-356.	1.1	15
79	Influenza Research Database: an integrated bioinformatics resource for influenza research and surveillance. Influenza and Other Respiratory Viruses, 2012, 6, 404-416.	1.5	270
80	Minimum Information about a Genotyping Experiment (MIGEN). Standards in Genomic Sciences, 2011, 5, 224-229.	1.5	3
81	Hematopoietic cell types: Prototype for a revised cell ontology. Journal of Biomedical Informatics, 2011, 44, 75-79.	2.5	35
82	Toward an ontology-based framework for clinical research databases. Journal of Biomedical Informatics, 2011, 44, 48-58.	2.5	28
83	Ontologies for clinical and translational research: Introduction. Journal of Biomedical Informatics, 2011, 44, 3-7.	2.5	14
84	A gene selection method for GeneChip array data with small sample sizes. BMC Genomics, 2011, 12, S7.	1.2	6
85	Overcoming the ontology enrichment bottleneck with Quick Term Templates. Applied Ontology, 2011, 6, 13-22.	1.0	7
86	Identifying Differentially Expressed Genes based on probe level data for GeneChip arrays. International Journal of Computational Biology and Drug Design, 2010, 3, 237.	0.3	5
87	Personalized care, comparative effectiveness research and the electronic health record. Current Opinion in Allergy and Clinical Immunology, 2010, 10, 168-170.	1.1	2
88	Deterministic graph-theoretic algorithm for detecting modules in biological interaction networks. International Journal of Bioinformatics Research and Applications, 2010, 6, 101.	0.1	3
89	Elucidation of seventeen human peripheral blood Bâ€cell subsets and quantification of the tetanus response using a densityâ€based method for the automated identification of cell populations in multidimensional flow cytometry data. Cytometry Part B - Clinical Cytometry, 2010, 78B, S69-82.	0.7	178
90	Novel sequence feature variant type analysis of the HLA genetic association in systemic sclerosis. Human Molecular Genetics, 2010, 19, 707-719.	1.4	37

#	Article	IF	Citations
91	GO-Bayes: Gene Ontology-based overrepresentation analysis using a Bayesian approach. Bioinformatics, 2010, 26, 905-911.	1.8	29
92	Towards Viral Genome Annotation Standards, Report from the 2010 NCBI Annotation Workshop. Viruses, 2010, 2, 2258-2268.	1.5	27
93	Technical and Policy Approaches to Balancing Patient Privacy and Data Sharing in Clinical and Translational Research. Journal of Investigative Medicine, 2010, 58, 11-18.	0.7	97
94	An Ontology-Based Framework for Clinical Research Databases. Nature Precedings, 2009, , .	0.1	0
95	Hematopoietic Cell Types: Prototype for a Revised Cell Ontology. Nature Precedings, 2009, , .	0.1	O
96	Pre-existing immunity against swine-origin H1N1 influenza viruses in the general human population. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 20365-20370.	3.3	298
97	FuGEFlow: data model and markup language for flow cytometry. BMC Bioinformatics, 2009, 10, 184.	1.2	6
98	An improved ontological representation of dendritic cells as a paradigm for all cell types. BMC Bioinformatics, 2009, 10, 70.	1.2	29
99	Core and periphery structures in protein interaction networks. BMC Bioinformatics, 2009, 10, S8.	1.2	36
100	A distribution-free convolution model for background correction of oligonucleotide microarray data. BMC Genomics, 2009, 10, S19.	1.2	13
101	Synergies and Distinctions Between Computational Disciplines in Biomedical Research: Perspective From the Clinical and Translational Science Award Programs. Academic Medicine, 2009, 84, 964-970.	0.8	39
102	SEQUENCE FEATURE VARIANT TYPE (SFVT) ANALYSIS OF THE HLA GENETIC ASSOCIATION IN JUVENILE IDIOPATHIC ARTHRITIS., 2009, , 359-370.		12
103	Complete Genome Sequence of Francisella tularensis Subspecies holarctica FTNF002-00. PLoS ONE, 2009, 4, e7041.	1.1	47
104	Toward an ontological treatment of disease and diagnosis. Summit on Translational Bioinformatics, 2009, 2009, 116-20.	0.7	85
105	MIFlowCyt: The minimum information about a flow cytometry experiment. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2008, 73A, 926-930.	1.1	381
106	Promoting coherent minimum reporting guidelines for biological and biomedical investigations: the MIBBI project. Nature Biotechnology, 2008, 26, 889-896.	9.4	506
107	BioHealthBase: informatics support in the elucidation of influenza virus host–pathogen interactions and virulence. Nucleic Acids Research, 2008, 36, D497-D503.	6.5	71
108	Exploring Core/Periphery Structures in Protein Interaction Networks Provides Structure-Property Relation Insights. , 2008, , .		0

#	Article	IF	CITATIONS
109	Ontology development for biological systems: immunology. Bioinformatics, 2007, 23, 913-915.	1.8	49
110	Modular organization of protein interaction networks. Bioinformatics, 2007, 23, 207-214.	1.8	151
111	National Institute of Allergy and Infectious Diseases Bioinformatics Resource Centers: New Assets for Pathogen Informatics. Infection and Immunity, 2007, 75, 3212-3219.	1.0	50
112	A distribution free summarization method for Affymetrix GeneChip(R) arrays. Bioinformatics, 2007, 23, 321-327.	1.8	89
113	The OBO Foundry: coordinated evolution of ontologies to support biomedical data integration. Nature Biotechnology, 2007, 25, 1251-1255.	9.4	1,955
114	Complete Genomic Characterization of a Pathogenic A.II Strain of Francisella tularensis Subspecies tularensis. PLoS ONE, 2007, 2, e947.	1,1	46
115	Nucleic acid testing for viral burden and viral genotyping. Clinica Chimica Acta, 2006, 363, 197-205.	0.5	16
116	Application of random matrix theory to biological networks. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 357, 420-423.	0.9	172
117	Components of the antigen processing and presentation pathway revealed by gene expression microarray analysis following B cell antigen receptor (BCR) stimulation. BMC Bioinformatics, 2006, 7, 237.	1.2	33
118	Detecting Functional Modules from Protein Interaction Networks. , 2006, , .		1
119	Analysis of the Major Patterns of B Cell Gene Expression Changes in Response to Short-Term Stimulation with 33 Single Ligands. Journal of Immunology, 2004, 173, 7141-7149.	0.4	55
120	Development of Real-Time PCR Assays for the Quantitative Detection of Epstein-Barr Virus and Cytomegalovirus, Comparison of TaqMan Probes, and Molecular Beacons. Journal of Molecular Diagnostics, 2003, 5, 15-20.	1.2	50
121	A Novel Colonic Repressor Element Regulates Intestinal Gene Expression by Interacting with Cux/CDP. Molecular and Cellular Biology, 2002, 22, 5467-5478.	1.1	29
122	Presence of simian virus 40 DNA sequences in human lymphomas. Lancet, The, 2002, 359, 851-852.	6.3	142
123	Activation of the Syk tyrosine kinase is insufficient for downstream signal transduction in B lymphocytes. BMC Immunology, 2002, 3, 16.	0.9	9
124	Lymphoid apoptosis and myeloid hyperplasia in CCAAT displacement protein mutant mice. Blood, 2001, 98, 3658-3667.	0.6	96
125	Prevalence and Cellular Reservoir of Latent Human Herpesvirus 6 in Tonsillar Lymphoid Tissue. American Journal of Clinical Pathology, 2001, 116, 648-654.	0.4	42
126	Transcriptional Activation by a Matrix Associating Region-binding Protein. Journal of Biological Chemistry, 2001, 276, 21325-21330.	1.6	30

#	Article	IF	CITATIONS
127	Tyrosine kinase activation in the decision between growth, differentiation, and death responses initiated from the B cell antigen receptor. Advances in Immunology, 2000, 75, 283-316.	1.1	67
128	Predictive Value of Quantitative PCR-Based Viral Burden Analysis for Eight Human Herpesviruses in Pediatric Solid Organ Transplant Patients. Journal of Molecular Diagnostics, 2000, 2, 191-201.	1.2	36
129	MARs of Antigen Receptor and Co-Receptor Genes. Critical Reviews in Eukaryotic Gene Expression, 1999, 9, 295-310.	0.4	34
130	Annexin V Staining Due to Loss of Membrane Asymmetry Can Be Reversible and Precede Commitment to Apoptotic Death. Experimental Cell Research, 1999, 251, 16-21.	1.2	172
131	Quantitation of 8 Human Herpesviruses in Peripheral Blood of Human Immunodeficiency Virus-Infected Patients and Healthy Blood Donors by Polymerase Chain Reaction. American Journal of Clinical Pathology, 1999, 111, 655-659.	0.4	15
132	Cux/CDP Homeoprotein Is a Component of NF- \hat{l}^{1} /4NR and Represses the Immunoglobulin Heavy Chain Intronic Enhancer by Antagonizing the Bright Transcription Activator. Molecular and Cellular Biology, 1999, 19, 284-295.	1.1	76
133	Human Herpesvirus-6 and Sudden Death in Infancy: Report of a Case and Review of the Literature. Journal of Forensic Sciences, 1999, 44, 432-437.	0.9	12
134	Bcl-2 Expression in Langerhans' Cell Histiocytosis. Pediatric and Developmental Pathology, 1998, 1, 210-215.	0.5	21
135	Epstein-Barr Virus Polymerase Chain Reaction and Serology in Pediatric Post-Transplant Lymphoproliferative Disorder: Three-Year Experience. Pediatric and Developmental Pathology, 1998, 1, 480-486.	0.5	17
136	Polymerase chain reaction amplification of archival material for epstein-barr virus, cytomegalovirus, human herpesvirus 6, and parvovirus B19 in children with bone marrow hemophagocytosis. Human Pathology, 1998, 29, 1074-1077.	1.1	40
137	Benefits and dangers of genetic tests. Nature, 1998, 392, 14-14.	13.7	1
138	Quantitative polymerase chain reaction for human herpesvirus diagnosis and measurement of Epstein–Barr virus burden in posttransplant lymphoproliferative disorder. Clinical Chemistry, 1997, 43, 1843-1849.	1.5	111
139	Tumor Dormancy and Cell Signaling. V. Regrowth of the BCL1 Tumor After Dormancy Is Established. Blood, 1997, 89, 4425-4436.	0.6	51
140	Cancer dormancy: Opportunities for new therapeutic approaches. Nature Medicine, 1997, 3, 505-509.	15.2	191
141	Mutually Exclusive Interaction of a Novel Matrix Attachment Region Binding Protein and the NF-νNR Enhancer Repressor. Journal of Biological Chemistry, 1995, 270, 24010-24018.	1.6	27
142	Induction of B cell tumor dormancy by anti-idiotypic antibodies. Current Opinion in Immunology, 1993, 5, 740-744.	2.4	20
143	[33] Polymerase chain reaction-based mRNA quantification using an internal standard: Analysis of oncogene expression. Methods in Enzymology, 1993, 218, 446-473.	0.4	55
144	Analysis of cis- and trans-Acting Factors Regulating Gene Transcription. , 1990, , 75-93.		3

#	Article	IF	CITATIONS
145	UmuD mutagenesis protein of Escherichia coli: overproduction, purification, and cleavage by RecA Proceedings of the National Academy of Sciences of the United States of America, 1988, 85, 1811-1815.	3.3	325