

Rachel S Kelly

List of Publications by Year in descending order

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119
papers

3,463
citations

126858

33
h-index

175177

52
g-index

123
all docs

123
docs citations

123
times ranked

7100
citing authors

#	ARTICLE	IF	CITATIONS
1	Genome-wide association study identifies multiple risk loci for chronic lymphocytic leukemia. <i>Nature Genetics</i> , 2013, 45, 868-876.	9.4	179
2	Analysis of Heritability and Shared Heritability Based on Genome-Wide Association Studies for Thirteen Cancer Types. <i>Journal of the National Cancer Institute</i> , 2015, 107, djv279.	3.0	152
3	Genome-wide association study identifies multiple susceptibility loci for diffuse large B cell lymphoma. <i>Nature Genetics</i> , 2014, 46, 1233-1238.	9.4	147
4	Asthma Metabolomics and the Potential for Integrative Omics in Research and the Clinic. <i>Chest</i> , 2017, 151, 262-277.	0.4	138
5	Life-course socioeconomic status and DNA methylation of genes regulating inflammation. <i>International Journal of Epidemiology</i> , 2015, 44, 1320-1330.	0.9	126
6	t(14;18) Translocation: A Predictive Blood Biomarker for Follicular Lymphoma. <i>Journal of Clinical Oncology</i> , 2014, 32, 1347-1355.	0.8	115
7	Metabolomic Biomarkers of Prostate Cancer: Prediction, Diagnosis, Progression, Prognosis, and Recurrence. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2016, 25, 887-906.	1.1	98
8	Genome-wide Association Study Identifies Five Susceptibility Loci for Follicular Lymphoma outside the HLA Region. <i>American Journal of Human Genetics</i> , 2014, 95, 462-471.	2.6	96
9	Germinal center reentries of BCL2-overexpressing B cells drive follicular lymphoma progression. <i>Journal of Clinical Investigation</i> , 2014, 124, 5337-5351.	3.9	96
10	Meta-analysis of genome-wide association studies discovers multiple loci for chronic lymphocytic leukemia. <i>Nature Communications</i> , 2016, 7, 10933.	5.8	94
11	The Consortium of Metabolomics Studies (COMETS): Metabolomics in 47 Prospective Cohort Studies. <i>American Journal of Epidemiology</i> , 2019, 188, 991-1012.	1.6	81
12	Metabolomics, physical activity, exercise and health: A review of the current evidence. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2020, 1866, 165936.	1.8	77
13	Political influences on greenhouse gas emissions from US states. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 8254-8259.	3.3	75
14	HPV testing as a triage for borderline or mild dyskaryosis on cervical cytology: results from the Sentinel Sites study. <i>British Journal of Cancer</i> , 2011, 105, 983-988.	2.9	72
15	Ejaculation Frequency and Risk of Prostate Cancer: Updated Results with an Additional Decade of Follow-up. <i>European Urology</i> , 2016, 70, 974-982.	0.9	72
16	Human Plasma Metabolomics Study across All Stages of Age-Related Macular Degeneration Identifies Potential Lipid Biomarkers. <i>Ophthalmology</i> , 2018, 125, 245-254.	2.5	66
17	Integrative analysis of the intestinal metabolome of childhood asthma. <i>Journal of Allergy and Clinical Immunology</i> , 2019, 144, 442-454.	1.5	64
18	A genome-wide association study of marginal zone lymphoma shows association to the HLA region. <i>Nature Communications</i> , 2015, 6, 5751.	5.8	58

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19	Metabolomeâ€™Microbiome Crosstalk and Human Disease. <i>Metabolites</i> , 2020, 10, 181.	1.3	55
20	Genetically predicted longer telomere length is associated with increased risk of B-cell lymphoma subtypes. <i>Human Molecular Genetics</i> , 2016, 25, 1663-1676.	1.4	52
21	An Integrative Transcriptomic and Metabolomic Study of Lung Function in Children With Asthma. <i>Chest</i> , 2018, 154, 335-348.	0.4	52
22	Integration of Metabolomic and Other Omics Data in Population-Based Study Designs: An Epidemiological Perspective. <i>Metabolites</i> , 2019, 9, 117.	1.3	47
23	Metabolomic profiling of lung function in Costa-Rican children with asthma. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017, 1863, 1590-1595.	1.8	46
24	New Strategies and Challenges in Lung Proteomics and Metabolomics. An Official American Thoracic Society Workshop Report. <i>Annals of the American Thoracic Society</i> , 2017, 14, 1721-1743.	1.5	44
25	Blood levels of cadmium and lead in relation to breast cancer risk in three prospective cohorts. <i>International Journal of Cancer</i> , 2019, 144, 1010-1016.	2.3	43
26	Metabolomic signatures of the long-term exposure to air pollution and temperature. <i>Environmental Health</i> , 2021, 20, 3.	1.7	42
27	Ambient PM2.5 species and ultrafine particle exposure and their differential metabolomic signatures. <i>Environment International</i> , 2021, 151, 106447.	4.8	41
28	Prediagnostic transcriptomic markers of Chronic lymphocytic leukemia reveal perturbations 10 years before diagnosis. <i>Annals of Oncology</i> , 2014, 25, 1065-1072.	0.6	40
29	Dietary and Plasma Polyunsaturated Fatty Acids Are Inversely Associated with Asthma and Atopy in Early Childhood. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2019, 7, 529-538.e8.	2.0	39
30	Integration of metabolomic and transcriptomic networks in pregnant women reveals biological pathways and predictive signatures associated with preeclampsia. <i>Metabolomics</i> , 2017, 13, 1.	1.4	38
31	Human Plasma Metabolomics in Age-Related Macular Degeneration: Meta-Analysis of Two Cohorts. <i>Metabolites</i> , 2019, 9, 127.	1.3	38
32	Intestinal microbial-derived sphingolipids are inversely associated with childhood food allergy. <i>Journal of Allergy and Clinical Immunology</i> , 2018, 142, 335-338.e9.	1.5	37
33	Metabolomic profiling reveals extensive adrenal suppression due to inhaled corticosteroid therapy in asthma. <i>Nature Medicine</i> , 2022, 28, 814-822.	15.2	37
34	Applications of metabolomics in the study and management of preeclampsia: a review of the literature. <i>Metabolomics</i> , 2017, 13, 1.	1.4	35
35	Characteristics and Mechanisms of a Sphingolipid-associated Childhood Asthma Endotype. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021, 203, 853-863.	2.5	35
36	The Integration of Social, Behavioral, and Biological Mechanisms in Models of Pathogenesis. <i>Perspectives in Biology and Medicine</i> , 2014, 57, 308-328.	0.3	34

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37	Vitamin D prenatal programming of childhood metabolomics profiles at age 3 y. <i>American Journal of Clinical Nutrition</i> , 2017, 106, 1092-1099.	2.2	31
38	Gut Microbial-Derived Metabolomics of Asthma. <i>Metabolites</i> , 2020, 10, 97.	1.3	31
39	Plasma metabolite profiles in children with current asthma. <i>Clinical and Experimental Allergy</i> , 2018, 48, 1297-1304.	1.4	30
40	Incidence of cervical intraepithelial neoplasia grade 2 or worse in colposcopy-negative/human papillomavirus-positive women with low-grade cytological abnormalities. <i>BJOG: an International Journal of Obstetrics and Gynaecology</i> , 2012, 119, 20-25.	1.1	29
41	The role of the 17q21 genotype in the prevention of early childhood asthma and recurrent wheeze by vitamin D. <i>European Respiratory Journal</i> , 2019, 54, 1900761.	3.1	29
42	Blood Erythrocyte Concentrations of Cadmium and Lead and the Risk of B-Cell Non-Hodgkin's Lymphoma and Multiple Myeloma: A Nested Case-Control Study. <i>PLoS ONE</i> , 2013, 8, e81892.	1.1	26
43	The role of tumor metabolism as a driver of prostate cancer progression and lethal disease: results from a nested case-control study. <i>Cancer & Metabolism</i> , 2016, 4, 22.	2.4	26
44	Prediagnostic plasma metabolomics and the risk of amyotrophic lateral sclerosis. <i>Neurology</i> , 2019, 92, 10.1212/WNL.00000000000007401.	1.5	26
45	Tumor expression of adiponectin receptor 2 and lethal prostate cancer. <i>Carcinogenesis</i> , 2015, 36, 639-647.	1.3	25
46	Dietary Intakes and Risk of Lymphoid and Myeloid Leukemia in the European Prospective Investigation into Cancer and Nutrition (EPIC). <i>Nutrition and Cancer</i> , 2014, 66, 14-28.	0.9	24
47	Metabolomics and Communication Skills Development in Children; Evidence from the Ages and Stages Questionnaire. <i>Metabolites</i> , 2019, 9, 42.	1.3	24
48	Metabolomic signatures of lead exposure in the VA Normative Aging Study. <i>Environmental Research</i> , 2020, 190, 110022.	3.7	24
49	DNA methylation profiling implicates exposure to PCBs in the pathogenesis of B-cell chronic lymphocytic leukemia. <i>Environment International</i> , 2019, 126, 24-36.	4.8	23
50	Novel eosinophilic gene expression networks associated with IgE in two distinct asthma populations. <i>Clinical and Experimental Allergy</i> , 2018, 48, 1654-1664.	1.4	22
51	Fecal short-chain fatty acids in pregnancy and offspring asthma and allergic outcomes. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2020, 8, 1100-1102.e13.	2.0	21
52	Partial Least Squares Discriminant Analysis and Bayesian Networks for Metabolomic Prediction of Childhood Asthma. <i>Metabolites</i> , 2018, 8, 68.	1.3	18
53	Metabo-Endotypes of Asthma Reveal Differences in Lung Function: Discovery and Validation in Two TOPMed Cohorts. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2022, 205, 288-299.	2.5	17
54	Prediagnostic immunoglobulin E levels and risk of chronic lymphocytic leukemia, other lymphomas and multiple myeloma-results of the European Prospective Investigation into Cancer and Nutrition. <i>Carcinogenesis</i> , 2014, 35, 2716-2722.	1.3	16

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55	Metabolomics in epidemiologic research: challenges and opportunities for early-career epidemiologists. <i>Metabolomics</i> , 2019, 15, 9.	1.4	16
56	Phosphoric Metabolites Link Phosphate Import and Polysaccharide Biosynthesis for <i>Candida albicans</i> Cell Wall Maintenance. <i>MBio</i> , 2020, 11, .	1.8	16
57	Prediagnostic plasma concentrations of organochlorines and risk of B-cell non-Hodgkin lymphoma in enviromarkers: a nested case-control study. <i>Environmental Health</i> , 2017, 16, 9.	1.7	15
58	Lupus-related single nucleotide polymorphisms and risk of diffuse large B-cell lymphoma. <i>Lupus Science and Medicine</i> , 2017, 4, e000187.	1.1	15
59	The nuts and bolts of omics for the clinical allergist. <i>Annals of Allergy, Asthma and Immunology</i> , 2019, 123, 558-563.	0.5	15
60	Longitudinal analysis of bronchodilator response in asthmatics and effect modification of age-related trends by genotype. <i>Pediatric Pulmonology</i> , 2019, 54, 158-164.	1.0	15
61	Biobanking and cryopreservation of human lung explants for omic analysis. <i>European Respiratory Journal</i> , 2020, 55, 1801635.	3.1	15
62	A polygenic risk score for asthma in a large racially diverse population. <i>Clinical and Experimental Allergy</i> , 2021, 51, 1410-1420.	1.4	15
63	Biomarkers of susceptibility to chemical carcinogens: the example of non-Hodgkin lymphomas. <i>British Medical Bulletin</i> , 2014, 111, 89-100.	2.7	14
64	Maternal Metabolome in Pregnancy and Childhood Asthma or Recurrent Wheeze in the Vitamin D Antenatal Asthma Reduction Trial. <i>Metabolites</i> , 2021, 11, 65.	1.3	14
65	Metabolomic signatures of the short-term exposure to air pollution and temperature. <i>Environmental Research</i> , 2021, 201, 111553.	3.7	14
66	Pre-diagnostic blood immune markers, incidence and progression of B-cell lymphoma and multiple myeloma: Univariate and functionally informed multivariate analyses. <i>International Journal of Cancer</i> , 2018, 143, 1335-1347.	2.3	13
67	Pharmacometabolomics of Bronchodilator Response in Asthma and the Role of Age-Metabolite Interactions. <i>Metabolites</i> , 2019, 9, 179.	1.3	13
68	NHLBI-CMREF Workshop Report on Pulmonary Vascular Disease Classification. <i>Journal of the American College of Cardiology</i> , 2021, 77, 2040-2052.	1.2	13
69	Bacille Calmette-Guérin vaccine reprograms human neonatal lipid metabolism in vivo and in vitro. <i>Cell Reports</i> , 2022, 39, 110772.	2.9	13
70	Allergic disease and low ASQ communication score in children. <i>Brain, Behavior, and Immunity</i> , 2020, 83, 293-297.	2.0	12
71	Circulating Plasma Metabolites and Cognitive Function in a Puerto Rican Cohort. <i>Journal of Alzheimer's Disease</i> , 2020, 76, 1267-1280.	1.2	12
72	Genome-wide interaction study reveals age-dependent determinants of responsiveness to inhaled corticosteroids in individuals with asthma. <i>PLoS ONE</i> , 2020, 15, e0229241.	1.1	12

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73	Plasmalogens Mediate the Effect of Age on Bronchodilator Response in Individuals With Asthma. <i>Frontiers in Medicine</i> , 2020, 7, 38.	1.2	12
74	Association of the gut microbiome and metabolome with wheeze frequency in childhood asthma. <i>Journal of Allergy and Clinical Immunology</i> , 2022, 150, 325-336.	1.5	12
75	Lag Times between Lymphoproliferative Disorder and Clinical Diagnosis of Chronic Lymphocytic Leukemia: A Prospective Analysis Using Plasma Soluble CD23. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2015, 24, 538-545.	1.1	11
76	Gene expression profiling of prostate tissue identifies chromatin regulation as a potential link between obesity and lethal prostate cancer. <i>Cancer</i> , 2017, 123, 4130-4138.	2.0	11
77	Maternal 17q21 genotype influences prenatal vitamin D effects on offspring asthma/recurrent wheeze. <i>European Respiratory Journal</i> , 2021, 58, 2002012.	3.1	11
78	Integrative omics to detect bacteremia in patients with febrile neutropenia. <i>PLoS ONE</i> , 2018, 13, e0197049.	1.1	10
79	COMETS Analytics: An Online Tool for Analyzing and Meta-Analyzing Metabolomics Data in Large Research Consortia. <i>American Journal of Epidemiology</i> , 2022, 191, 147-158.	1.6	9
80	Pharmaco-Metabolomics of Inhaled Corticosteroid Response in Individuals with Asthma. <i>Journal of Personalized Medicine</i> , 2021, 11, 1148.	1.1	9
81	Cardiometabolic Pregnancy Complications in Association With Autism-Related Traits as Measured by the Social Responsiveness Scale in ECHO. <i>American Journal of Epidemiology</i> , 2022, 191, 1407-1419.	1.6	9
82	Gene editing in the context of an increasingly complex genome. <i>BMC Genomics</i> , 2018, 19, 595.	1.2	8
83	Stability of developmental status and risk of impairment at 24 and 36 months in late preterm infants. , 2020, 60, 101462.		8
84	Genomic-Metabolomic Associations Support the Role of LIPC and Glycerophospholipids in Age-Related Macular Degeneration. <i>Ophthalmology Science</i> , 2021, 1, 100017.	1.0	7
85	A strategy for advancing for population-based scientific discovery using the metabolome: the establishment of the Metabolomics Society Metabolomic Epidemiology Task Group. <i>Metabolomics</i> , 2021, 17, 45.	1.4	7
86	Low gestational vitamin D level and childhood asthma are related to impaired lung function in high-risk children. <i>Journal of Allergy and Clinical Immunology</i> , 2021, 148, 110-119.e9.	1.5	7
87	Expression of SMARCD1 interacts with age in association with asthma control on inhaled corticosteroid therapy. <i>Respiratory Research</i> , 2020, 21, 31.	1.4	6
88	Plasma 25-Hydroxyvitamin D Concentrations are Associated with Polyunsaturated Fatty Acid Metabolites in Young Children: Results from the Vitamin D Antenatal Asthma Reduction Trial. <i>Metabolites</i> , 2020, 10, 151.	1.3	6
89	Associations of network-derived metabolite clusters with prevalent type 2 diabetes among adults of Puerto Rican descent. <i>BMJ Open Diabetes Research and Care</i> , 2021, 9, e002298.	1.2	6
90	Plasma Metabolomic Profiles Associated with Three-Year Progression of Age-Related Macular Degeneration. <i>Metabolites</i> , 2022, 12, 32.	1.3	6

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91	Quantifying Social Influences Throughout the Life Course: Action, Structure and Omics™. , 2018, , 587-609.		5
92	Whole Genome Sequencing Identifies CRISPLD2 as a Lung Function Gene in Children With Asthma. Chest, 2019, 156, 1068-1079.	0.4	5
93	Fish oil supplementation during pregnancy is protective against asthma/wheeze in offspring. Journal of Allergy and Clinical Immunology: in Practice, 2020, 8, 388-391.e2.	2.0	5
94	Age by Single Nucleotide Polymorphism Interactions on Bronchodilator Response in Asthmatics. Journal of Personalized Medicine, 2021, 11, 59.	1.1	5
95	Circulating levels of maternal vitamin D and risk of ADHD in offspring: results from the Vitamin D Antenatal Asthma Reduction Trial. International Journal of Epidemiology, 2022, 51, 910-918.	0.9	5
96	Comparison of cytology and histology results in English cervical screening laboratories before and after liquid-based cytology conversion: do the data provide evidence for a single category of high-grade dyskaryosis?. Cytopathology, 2010, 21, 368-373.	0.4	4
97	Association of the Gut Microbiome and Metabolome with Wheeze Frequency in Childhood Asthma. Journal of Allergy and Clinical Immunology, 2021, 147, AB53.	1.5	3
98	Abstract LB-23: Meta-analysis of genome-wide association studies identifies multiple loci associated with chronic lymphocytic leukemia.. , 2013, , .		3
99	Urinary Mass Spectrometry Profiles in Age-Related Macular Degeneration. Journal of Clinical Medicine, 2022, 11, 940.	1.0	3
100	Pharmacogenetics of Bronchodilator Response: Future Directions. Current Allergy and Asthma Reports, 2021, 21, 47.	2.4	3
101	Delayed Motor Milestones Achievement in Infancy Associates with Perturbations of Amino Acids and Lipid Metabolic Pathways. Metabolites, 2020, 10, 337.	1.3	2
102	Metabolomic differences in lung function metrics: evidence from two cohorts. Thorax, 2022, 77, 919-928.	2.7	2
103	PD6-07 EJACULATION FREQUENCY AND RISK OF PROSTATE CANCER: UPDATED RESULTS FROM THE HEALTH PROFESSIONALS FOLLOW-UP STUDY. Journal of Urology, 2015, 193, .	0.2	1
104	Response. Chest, 2018, 153, 1283-1284.	0.4	1
105	The Role of Bile Acids in Food Allergy and Responses to Oral Immunotherapy by Metabolomic Profiling. Journal of Allergy and Clinical Immunology, 2020, 145, AB244.	1.5	1
106	Metabolite quantitative trait loci provide functional link between FADS2 and lung obstruction in asthmatics. , 2018, , .		1
107	Determinants of the t(14;18) translocation and their role in t(14;18)-positive follicular lymphoma. Cancer Causes and Control, 2015, 26, 1845-1855.	0.8	0
108	Reply to Herney Andr�s Garc�a-Perdomo and Ramiro Manzano Nunez's Letter to the Editor Re: Jennifer R. Rider, Kathryn M. Wilson, Jennifer M. Sinnott, Rachel S. Kelly, Lorelei A. Mucci, Edward L. Giovannucci. Ejaculation Frequency and Risk of Prostate Cancer: Updated Results with an Additional Decade of Follow-up. Eur Urol 2016;70:974�82. European Urology, 2016, 70, e156-e157.	0.9	0

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109	Intestinal Microbial-Derived Sphingolipids Are Associated with Childhood Food Allergy. Journal of Allergy and Clinical Immunology, 2018, 141, AB288.	1.5	0
110	Reply. Ophthalmology, 2018, 125, e46-e47.	2.5	0
111	Integrative Analysis of the Intestinal Metabolome of Childhood Asthma. Journal of Allergy and Clinical Immunology, 2019, 143, AB3.	1.5	0
112	Deficiency of Alveolar Epithelial FADS2 Contributes to Pulmonary Fibrosis. , 2020, , .		0
113	Abstract 4686: Identifying obesity-linked gene expression changes in prostate cancer. , 2015, , .		0
114	Abstract 5168: Tumor metabolism as a driver of lethal prostate cancer. , 2015, , .		0
115	Abstract B67: Identifying obesity-linked gene expression changes in prostate cancer. , 2016, , .		0
116	Abstract A25: Tumor metabolism as a driver of lethal prostate cancer. , 2016, , .		0
117	Abstract 4236: Gene expression profiling of prostate tissue identifies biological pathways associated withTMPRSS2:ERGgene fusion. , 2017, , .		0
118	Biomarkers in Obstructive Airway Diseases. Respiratory Medicine, 2020, , 131-153.	0.1	0
119	Abstract 17285: Metabolite-Derived Network Reveals Cluster of Acylcholine Metabolites Associated With Better Diet Quality and Lower Prevalence of Type 2 Diabetes: Findings From the Boston Puerto Rican Health Study. Circulation, 2020, 142, .	1.6	0