

Katerina J Kechris

List of Publications by Year in descending order

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Version: 2024-02-01

120
papers

3,872
citations

147801

31
h-index

149698

56
g-index

129
all docs

129
docs citations

129
times ranked

7427
citing authors

#	ARTICLE	IF	CITATIONS
1	The multiMiR R package and database: integration of microRNA target interactions along with their disease and drug associations. <i>Nucleic Acids Research</i> , 2014, 42, e133-e133.	14.5	409
2	Comb-p: software for combining, analyzing, grouping and correcting spatially correlated <i>P</i> -values. <i>Bioinformatics</i> , 2012, 28, 2986-2988.	4.1	331
3	Genetical genomic determinants of alcohol consumption in rats and humans. <i>BMC Biology</i> , 2009, 7, 70.	3.8	148
4	Meta-analysis of epigenome-wide association studies in neonates reveals widespread differential DNA methylation associated with birthweight. <i>Nature Communications</i> , 2019, 10, 1893.	12.8	140
5	Plasma Sphingolipids Associated with Chronic Obstructive Pulmonary Disease Phenotypes. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2015, 191, 275-284.	5.6	137
6	Structural and functional characterization of endothelial microparticles released by cigarette smoke. <i>Scientific Reports</i> , 2016, 6, 31596.	3.3	112
7	Peripheral Blood Mononuclear Cell Gene Expression in Chronic Obstructive Pulmonary Disease. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2013, 49, 316-323.	2.9	110
8	Cohort Profile: Pregnancy And Childhood Epigenetics (PACE) Consortium. <i>International Journal of Epidemiology</i> , 2018, 47, 22-23u.	1.9	105
9	Multiple biomarkers predict disease severity, progression and mortality in COPD. <i>Respiratory Research</i> , 2017, 18, 117.	3.6	103
10	Perfluoroalkyl Substances during Pregnancy and Offspring Weight and Adiposity at Birth: Examining Mediation by Maternal Fasting Glucose in the Healthy Start Study. <i>Environmental Health Perspectives</i> , 2017, 125, 067016.	6.0	102
11	Biomarkers Predictive of Exacerbations in the SPIROMICS and COPD Gene Cohorts. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2017, 195, 473-481.	5.6	101
12	Common Genetic Polymorphisms Influence Blood Biomarker Measurements in COPD. <i>PLoS Genetics</i> , 2016, 12, e1006011.	3.5	88
13	Narrow Band Ultraviolet B Treatment for Human Vitiligo Is Associated with Proliferation, Migration, and Differentiation of Melanocyte Precursors. <i>Journal of Investigative Dermatology</i> , 2015, 135, 2068-2076.	0.7	86
14	The value of blood cytokines and chemokines in assessing COPD. <i>Respiratory Research</i> , 2017, 18, 180.	3.6	83
15	Transcriptional Adaptation of Drug-tolerant <i>Mycobacterium tuberculosis</i> During Treatment of Human Tuberculosis. <i>Journal of Infectious Diseases</i> , 2015, 212, 990-998.	4.0	82
16	Hypertensive Disorders of Pregnancy and DNA Methylation in Newborns. <i>Hypertension</i> , 2019, 74, 375-383.	2.7	73
17	Metabolomics and transcriptomics pathway approach reveals outcome-specific perturbations in COPD. <i>Scientific Reports</i> , 2018, 8, 17132.	3.3	62
18	The association of plasma biomarkers with computed tomography-assessed emphysema phenotypes. <i>Respiratory Research</i> , 2014, 15, 127.	3.6	61

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19	Maternal obesity alters fatty acid oxidation, AMPK activity, and associated DNA methylation in mesenchymal stem cells from human infants. <i>Molecular Metabolism</i> , 2017, 6, 1503-1516.	6.5	57
20	Blood Transcriptional Biomarkers for Active Tuberculosis among Patients in the United States: a Case-Control Study with Systematic Cross-Classifer Evaluation. <i>Journal of Clinical Microbiology</i> , 2016, 54, 274-282.	3.9	55
21	Exposure to Maternal Diabetes in Utero and DNA Methylation Patterns in the Offspring. <i>Immunometabolism</i> , 2013, 1, 1-9.	6.0	54
22	A systems genetic analysis of alcohol drinking by mice, rats and men: Influence of brain GABAergic transmission. <i>Neuropharmacology</i> , 2011, 60, 1269-1280.	4.1	50
23	Prenatal Exposure to Per- and Polyfluoroalkyl Substances, Umbilical Cord Blood DNA Methylation, and Cardio-Metabolic Indicators in Newborns: The Healthy Start Study. <i>Environmental Health Perspectives</i> , 2020, 128, 127014.	6.0	49
24	The Association of Adiponectin with Computed Tomography Phenotypes in Chronic Obstructive Pulmonary Disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2013, 188, 561-566.	5.6	48
25	MSPrep—Summarization, normalization and diagnostics for processing of mass spectrometry-based metabolomic data. <i>Bioinformatics</i> , 2014, 30, 133-134.	4.1	48
26	Prenatal exposure to per- and polyfluoroalkyl substances and infant growth and adiposity: the Healthy Start Study. <i>Environment International</i> , 2019, 131, 104983.	10.0	48
27	Gene Expression Changes in C57BL/6J and DBA/2J Mice Following Prenatal Alcohol Exposure. <i>Alcoholism: Clinical and Experimental Research</i> , 2012, 36, 1519-1529.	2.4	47
28	High-Risk Human Papillomavirus E7 Alters Host DNA Methylome and Represses HLA-E Expression in Human Keratinocytes. <i>Scientific Reports</i> , 2017, 7, 3633.	3.3	45
29	Joint MiRNA/mRNA Expression Profiling Reveals Changes Consistent with Development of Dysfunctional Corpus Luteum after Weight Gain. <i>PLoS ONE</i> , 2015, 10, e0135163.	2.5	42
30	Longitudinal DNA methylation differences precede type 1 diabetes. <i>Scientific Reports</i> , 2020, 10, 3721.	3.3	37
31	Generalizing Moving Averages for Tiling Arrays Using Combined P-Value Statistics. <i>Statistical Applications in Genetics and Molecular Biology</i> , 2010, 9, Article29.	0.6	36
32	Hedgehog targets in the <i>Drosophila</i> embryo and the mechanisms that generate tissue-specific outputs of Hedgehog signaling. <i>Development (Cambridge)</i> , 2010, 137, 3887-3898.	2.5	35
33	Metabolite-related dietary patterns and the development of islet autoimmunity. <i>Scientific Reports</i> , 2019, 9, 14819.	3.3	34
34	Bronchoalveolar Lavage Fluid from COPD Patients Reveals More Compounds Associated with Disease than Matched Plasma. <i>Metabolites</i> , 2019, 9, 157.	2.9	32
35	Predictive Modeling for Metabolomics Data. <i>Methods in Molecular Biology</i> , 2020, 2104, 313-336.	0.9	32
36	Integrative Omics Approach Identifies Interleukin-16 as a Biomarker of Emphysema. <i>OMICS A Journal of Integrative Biology</i> , 2013, 17, 619-626.	2.0	31

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37	The discordant method: a novel approach for differential correlation. <i>Bioinformatics</i> , 2016, 32, 690-696.	4.1	30
38	Unsupervised discovery of phenotype-specific multi-omics networks. <i>Bioinformatics</i> , 2019, 35, 4336-4343.	4.1	30
39	A Practical Guide to Metabolomics Software Development. <i>Analytical Chemistry</i> , 2021, 93, 1912-1923.	6.5	30
40	Biphasic pro-melanogenic and pro-apoptotic effects of all-trans-retinoic acid (ATRA) on human melanocytes: Time-course study. <i>Journal of Dermatological Science</i> , 2013, 72, 168-176.	1.9	26
41	Soluble receptor for advanced glycation end products (sRAGE) as a biomarker of COPD. <i>Respiratory Research</i> , 2021, 22, 127.	3.6	26
42	Identifying Protein-metabolite Networks Associated with COPD Phenotypes. <i>Metabolites</i> , 2020, 10, 124.	2.9	25
43	Differential correlation for sequencing data. <i>BMC Research Notes</i> , 2017, 10, 54.	1.4	24
44	Multiple Amino Acid Sequence Alignment Nitrogenase Component 1: Insights into Phylogenetics and Structure-Function Relationships. <i>PLoS ONE</i> , 2013, 8, e72751.	2.5	23
45	Plasma Metabolomic Signatures of Chronic Obstructive Pulmonary Disease and the Impact of Genetic Variants on Phenotype-Driven Modules. <i>Network and Systems Medicine</i> , 2020, 3, 159-181.	2.5	22
46	Qualitative Differences Between the IFN γ subtypes and IFN γ Influence Chronic Mucosal HIV-1 Pathogenesis. <i>PLoS Pathogens</i> , 2020, 16, e1008986.	4.7	22
47	Adaptation of <i>Mycobacterium tuberculosis</i> to Impaired Host Immunity in HIV-Infected Patients. <i>Journal of Infectious Diseases</i> , 2016, 214, 1205-1211.	4.0	19
48	Metabolomic similarities between bronchoalveolar lavage fluid and plasma in humans and mice. <i>Scientific Reports</i> , 2017, 7, 5108.	3.3	19
49	Gene and metabolite time-course response to cigarette smoking in mouse lung and plasma. <i>PLoS ONE</i> , 2017, 12, e0178281.	2.5	19
50	Metabolomic Profiling Reveals Sex Specific Associations with Chronic Obstructive Pulmonary Disease and Emphysema. <i>Metabolites</i> , 2021, 11, 161.	2.9	19
51	Multi-omics subtyping pipeline for chronic obstructive pulmonary disease. <i>PLoS ONE</i> , 2021, 16, e0255337.	2.5	19
52	Aptardi predicts polyadenylation sites in sample-specific transcriptomes using high-throughput RNA sequencing and DNA sequence. <i>Nature Communications</i> , 2021, 12, 1652.	12.8	18
53	Meta-analysis of peripheral blood gene expression modules for COPD phenotypes. <i>PLoS ONE</i> , 2017, 12, e0185682.	2.5	17
54	Condition-adaptive fused graphical lasso (CFGL): An adaptive procedure for inferring condition-specific gene co-expression network. <i>PLoS Computational Biology</i> , 2018, 14, e1006436.	3.2	17

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55	Longitudinal analysis of SARS-CoV-2 spike and RNA-dependent RNA polymerase protein sequences reveals the emergence and geographic distribution of diverse mutations. <i>Infection, Genetics and Evolution</i> , 2022, 97, 105153.	2.3	16
56	The oxylipin profile is associated with development of type 1 diabetes: the Diabetes Autoimmunity Study in the Young (DAISY). <i>Diabetologia</i> , 2021, 64, 1785-1794.	6.3	15
57	Reproducibility of mass spectrometry based metabolomics data. <i>BMC Bioinformatics</i> , 2021, 22, 423.	2.6	13
58	Using the Phenogen website for <i>in silico</i> ™ analysis of morphine-induced analgesia: identifying candidate genes. <i>Addiction Biology</i> , 2011, 16, 393-404.	2.6	12
59	Hands-on Workshops as An Effective Means of Learning Advanced Technologies Including Genomics, Proteomics and Bioinformatics. <i>Genomics, Proteomics and Bioinformatics</i> , 2013, 11, 368-377.	6.9	12
60	Metabolomics-related nutrient patterns at seroconversion and risk of progression to type 1 diabetes. <i>Pediatric Diabetes</i> , 2020, 21, 1202-1209.	2.9	12
61	tidyMicro: a pipeline for microbiome data analysis and visualization using the tidyverse in R. <i>BMC Bioinformatics</i> , 2021, 22, 41.	2.6	12
62	Identifying miRNA-mRNA Networks Associated With COPD Phenotypes. <i>Frontiers in Genetics</i> , 2021, 12, 748356.	2.3	12
63	Conserved Amino Acid Sequence Features in the α Subunits of MoFe, VFe, and FeFe Nitrogenases. <i>PLoS ONE</i> , 2009, 4, e6136.	2.5	11
64	Model based heritability scores for high-throughput sequencing data. <i>BMC Bioinformatics</i> , 2017, 18, 143.	2.6	11
65	Placental Insulin/IGF-1 Signaling, PGC-1 α , and Inflammatory Pathways Are Associated With Metabolic Outcomes at 4-6 Years of Age: The ECHO Healthy Start Cohort. <i>Diabetes</i> , 2021, 70, 745-751.	0.6	11
66	An effective processing pipeline for harmonizing DNA methylation data from Illumina™s 450K and EPIC platforms for epidemiological studies. <i>BMC Research Notes</i> , 2021, 14, 352.	1.4	11
67	A2ML1 and otitis media: novel variants, differential expression, and relevant pathways. <i>Human Mutation</i> , 2019, 40, 1156-1171.	2.5	10
68	Bayesian inference of networks across multiple sample groups and data types. <i>Biostatistics</i> , 2020, 21, 561-576.	1.5	10
69	MSCAT: A Machine Learning Assisted Catalog of Metabolomics Software Tools. <i>Metabolites</i> , 2021, 11, 678.	2.9	10
70	Prediction of alternatively skipped exons and splicing enhancers from exon junction arrays. <i>BMC Genomics</i> , 2008, 9, 551.	2.8	9
71	Genetical Genomic Analysis of Complex Phenotypes Using the PhenoGen Website. <i>Behavior Genetics</i> , 2011, 41, 625-628.	2.1	9
72	A Bayesian Approach for Learning Gene Networks Underlying Disease Severity in COPD. <i>Statistics in Biosciences</i> , 2018, 10, 59-85.	1.2	9

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73	miR-MaGIC improves quantification accuracy for small RNA-seq. BMC Research Notes, 2018, 11, 296.	1.4	9
74	MCMSeq: Bayesian hierarchical modeling of clustered and repeated measures RNA sequencing experiments. BMC Bioinformatics, 2020, 21, 375.	2.6	9
75	Pre-analytic Considerations for Mass Spectrometry-Based Untargeted Metabolomics Data. Methods in Molecular Biology, 2019, 1978, 323-340.	0.9	8
76	Patterns of relatedness and genetic diversity inferred from whole genome sequencing of archival blood fluke miracidia (<i>Schistosoma japonicum</i>). PLoS Neglected Tropical Diseases, 2021, 15, e0009020.	3.0	8
77	A Metabolomic Severity Score for Airflow Obstruction and Emphysema. Metabolites, 2022, 12, 368.	2.9	8
78	Mechanism-aware imputation: a two-step approach in handling missing values in metabolomics. BMC Bioinformatics, 2022, 23, 179.	2.6	7
79	Predictive modeling of miRNA-mediated predisposition to alcohol-related phenotypes in mouse. BMC Genomics, 2018, 19, 639.	2.8	6
80	Associations between the activity of placental nutrient-sensing pathways and neonatal and postnatal metabolic health: the ECHO Healthy Start cohort. International Journal of Obesity, 2020, 44, 2203-2212.	3.4	6
81	DNA methylation near the <i>INS</i> gene is associated with <i>INS</i> genetic variation (rs689) and type 1 diabetes in the Diabetes Autoimmunity Study in the Young. Pediatric Diabetes, 2020, 21, 597-605.	2.9	6
82	Inverse probability weighting is an effective method to address selection bias during the analysis of high dimensional data. Genetic Epidemiology, 2021, 45, 593-603.	1.3	6
83	A graphical model method for integrating multiple sources of genome-scale data. Statistical Applications in Genetics and Molecular Biology, 2013, 12, 469-87.	0.6	5
84	Phospholipid Levels at Seroconversion Are Associated With Resolution of Persistent Islet Autoimmunity: The Diabetes Autoimmunity Study in the Young. Diabetes, 2021, 70, 1592-1601.	0.6	5
85	Metabolomic Profiles in Childhood and Adolescence Are Associated with Fetal Overnutrition. Metabolites, 2022, 12, 265.	2.9	5
86	Insight into genetic regulation of miRNA in mouse brain. BMC Genomics, 2019, 20, 849.	2.8	4
87	Comparing Statistical Tests for Differential Network Analysis of Gene Modules. Frontiers in Genetics, 2021, 12, 630215.	2.3	4
88	PaIRKAT: A pathway integrated regression-based kernel association test with applications to metabolomics and COPD phenotypes. PLoS Computational Biology, 2021, 17, e1008986.	3.2	4
89	Epigenome-Wide Association Study of Infant Feeding and DNA Methylation in Infancy and Childhood in a Population at Increased Risk for Type 1 Diabetes. Nutrients, 2021, 13, 4057.	4.1	4
90	Sex-Specific Differences in MicroRNA Expression During Human Fetal Lung Development. Frontiers in Genetics, 2022, 13, 762834.	2.3	4

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91	Ambient air pollution during pregnancy and DNA methylation in umbilical cord blood, with potential mediation of associations with infant adiposity: The Healthy Start study. <i>Environmental Research</i> , 2022, 214, 113881.	7.5	4
92	Prediction of Motifs Based on a Repeated-Measures Model for Integrating Cross-Species Sequence and Expression Data. <i>Statistical Applications in Genetics and Molecular Biology</i> , 2009, 8, 1-34.	0.6	3
93	Genetic analysis of a murine QTL for diet restriction on chromosome 15. <i>Age</i> , 2015, 37, 9740.	3.0	3
94	An Augmented High-Dimensional Graphical Lasso Method to Incorporate Prior Biological Knowledge for Global Network Learning. <i>Frontiers in Genetics</i> , 2021, 12, 760299.	2.3	3
95	Granzyme B ⁺ CD4 T cells accumulate in the colon during chronic HIV-1 infection. <i>Gut Microbes</i> , 2022, 14, 2045852.	9.8	3
96	Changes in the Coexpression of Innate Immunity Genes During Persistent Islet Autoimmunity Are Associated With Progression of Islet Autoimmunity: Diabetes Autoimmunity Study in the Young (DAISY). <i>Diabetes</i> , 2022, 71, 2048-2057.	0.6	3
97	c-REDUCE: Incorporating sequence conservation to detect motifs that correlate with expression. <i>BMC Bioinformatics</i> , 2008, 9, 506.	2.6	2
98	Bayesian Analysis of High-Throughput Quantitative Measurement of Protein-DNA Interactions. <i>PLoS ONE</i> , 2011, 6, e26105.	2.5	2
99	Post-GWAS Prioritization Through Data Integration Provides Novel Insights on Chronic Obstructive Pulmonary Disease. <i>Statistics in Biosciences</i> , 2017, 9, 605-621.	1.2	2
100	Using a spatial point process framework to characterize lung computed tomography scans. <i>Spatial Statistics</i> , 2019, 29, 243-267.	1.9	2
101	Alcohol Use Disorders Are Associated With a Unique Impact on Airway Epithelial Cell Gene Expression. <i>Alcoholism: Clinical and Experimental Research</i> , 2020, 44, 1571-1584.	2.4	2
102	Semi-Supervised Learning Using Hierarchical Mixture Models: Gene Essentiality Case Study. <i>Mathematical and Computational Applications</i> , 2021, 26, 40.	1.3	1
103	A Mediation Approach to Discovering Causal Relationships between the Metabolome and DNA Methylation in Type 1 Diabetes. <i>Metabolites</i> , 2021, 11, 542.	2.9	1
104	Development of a tissue augmented Bayesian model for expression quantitative trait loci analysis. <i>Mathematical Biosciences and Engineering</i> , 2020, 17, 122-143.	1.9	1
105	Biomarkers Predictive of Exacerbations in the SPIROMICS and COPD Gene Cohorts. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2020, 201, 473-481.	5.6	1
106	Systems genetics analysis of the LXS recombinant inbred mouse strains: Genetic and molecular insights into acute ethanol tolerance. <i>PLoS ONE</i> , 2020, 15, e0240253.	2.5	1
107	Significant Subgraph Detection in Multi-omics Networks for Disease Pathway Identification. <i>Frontiers in Big Data</i> , 0, 5, .	2.9	1
108	Interleukin-16 Expression Is Down Regulated In Peripheral Blood Mononuclear Cells From Patients With COPD. , 2011, , .		0

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109	Modeling considerations for using expression data from multiple species. <i>Statistics in Medicine</i> , 2013, 32, 4057-4070.	1.6	0
110	Chronic Marijuana Use Is Associated with Gene Expression Changes in BAL. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2022, 66, 238-239.	2.9	0
111	Title is missing!. , 2020, 15, e0240253.		0
112	Title is missing!. , 2020, 15, e0240253.		0
113	Title is missing!. , 2020, 15, e0240253.		0
114	Title is missing!. , 2020, 15, e0240253.		0
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120	Title is missing!. , 2020, 16, e1008986.		0