

Jeremy W Prokop

List of Publications by Year in descending order

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86
papers

1,761
citations

331670

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h-index

345221

36
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94
all docs

94
docs citations

94
times ranked

3397
citing authors

#	ARTICLE	IF	CITATIONS
1	SIGIRR Mutation in Human Necrotizing Enterocolitis (NEC) Disrupts STAT3-Dependent microRNA Expression in Neonatal Gut. Cellular and Molecular Gastroenterology and Hepatology, 2022, 13, 425-440.	4.5	16
2	N-methyl-D-aspartate (NMDA) receptor genetics: The power of paralog homology and protein dynamics in defining dominant genetic variants. American Journal of Medical Genetics, Part A, 2022, 188, 556-568.	1.2	2
3	Epiregulin as an Alternative Ligand for Leptin Receptor Alleviates Glucose Intolerance without Change in Obesity. Cells, 2022, 11, 425.	4.1	4
4	Loss of Health Promoting Bacteria in the Gastrointestinal Microbiome of PICU Infants with Bronchiolitis: A Single-Center Feasibility Study. Children, 2022, 9, 114.	1.5	2
5	Combined Plasma and Urinary Metabolomics Uncover Metabolic Perturbations Associated with Severe Respiratory Syncytial Viral Infection and Future Development of Asthma in Infant Patients. Metabolites, 2022, 12, 178.	2.9	3
6	Computational and Experimental Analysis of Genetic Variants. , 2022, 12, 3303-3336.		5
7	CFTR-mediated monocyte/macrophage dysfunction revealed by cystic fibrosis proband-parent comparisons. JCI Insight, 2022, 7, .	5.0	6
8	Genomic, transcriptomic, and protein landscape profile of CFTR and cystic fibrosis. Human Genetics, 2021, 140, 423-439.	3.8	3
9	Perinatal Manifestations of <i>DARS2</i>-Associated Leukoencephalopathy With Brainstem and Spinal Cord Involvement and Lactate Elevation (LBSL). Child Neurology Open, 2021, 8, 2329048X2110191.	1.1	3
10	SARS-CoV-2 infection: molecular mechanisms of severe outcomes to suggest therapeutics. Expert Review of Proteomics, 2021, 18, 105-118.	3.0	10
11	The Feasibility of Studying Metabolites in PICU Multi-Organ Dysfunction Syndrome Patients over an 8-Day Course Using an Untargeted Approach. Children, 2021, 8, 151.	1.5	2
12	Pediatric Multi-Organ Dysfunction Syndrome: Analysis by an Untargeted "Shotgun" Lipidomic Approach Reveals Low-Abundance Plasma Phospholipids and Dynamic Recovery over 8-Day Period, a Single-Center Observational Study. Nutrients, 2021, 13, 774.	4.1	4
13	Kinetic Characterization of ASXL1/2-Mediated Allosteric Regulation of the BAP1 Deubiquitinase. Molecular Cancer Research, 2021, 19, 1099-1112.	3.4	1
14	Monitoring neutrophil-to-lymphocyte ratio in patients with coronavirus disease 2019 receiving tocilizumab. Annals of Allergy, Asthma and Immunology, 2021, 126, 306-308.	1.0	4
15	Emerging Role of ODC1 in Neurodevelopmental Disorders and Brain Development. Genes, 2021, 12, 470.	2.4	15
16	Hexosylceramides and Glycerophosphatidylcholine GPC(36:1) Increase in Multi-Organ Dysfunction Syndrome Patients with Pediatric Intensive Care Unit Admission over 8-Day Hospitalization. Journal of Personalized Medicine, 2021, 11, 339.	2.5	1
17	Advanced Sequencing of Kidney Tubule Hypoxia Regulated Epithelial-to-Mesenchymal Transition. FASEB Journal, 2021, 35, .	0.5	0
18	Profiling systemic physiology through blood-based multidimensional RNAseq. FASEB Journal, 2021, 35, .	0.5	0

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19	Balancing precision versus cohort transcriptomic analysis of acute and recovery phase of viral bronchiolitis. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2021, 320, L1147-L1157.	2.9	9
20	Repurposing eflornithine to treat a patient with a rare ODC1 gain-of-function variant disease. <i>ELife</i> , 2021, 10, .	6.0	17
21	High-Density Blood Transcriptomics Reveals Precision Immune Signatures of SARS-CoV-2 Infection in Hospitalized Individuals. <i>Frontiers in Immunology</i> , 2021, 12, 694243.	4.8	26
22	Silver Binding to Bacterial Glutaredoxins Observed by NMR. <i>Biophysica</i> , 2021, 1, 359-376.	1.4	2
23	Expanding the phenotype: Four new cases and hope for treatment in <sc>Bachmann-Bupp</sc> syndrome. <i>American Journal of Medical Genetics, Part A</i> , 2021, 185, 3485-3493.	1.2	10
24	Sept8/SEPTIN8 involvement in cellular structure and kidney damage is identified by genetic mapping and a novel human tubule hypoxic model. <i>Scientific Reports</i> , 2021, 11, 2071.	3.3	13
25	CCR5 and Biological Complexity: The Need for Data Integration and Educational Materials to Address Genetic/Biological Reductionism at the Interface of Ethical, Legal, and Social Implications. <i>Frontiers in Immunology</i> , 2021, 12, 790041.	4.8	5
26	WD Repeat Domain 1 (<i>WDR1</i>) Deficiency Presenting as a Cause of Infantile Inflammatory Bowel Disease. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , 2020, 71, e113-e117.	1.8	3
27	A Human TSC1 Variant Screening Platform in Gabaergic Cortical Interneurons for Genotype to Phenotype Assessments. <i>Frontiers in Molecular Neuroscience</i> , 2020, 13, 573409.	2.9	6
28	SARS-CoV-2-Encoded Proteome and Human Genetics: From Interaction-Based to Ribosomal Biology Impact on Disease and Risk Processes. <i>Journal of Proteome Research</i> , 2020, 19, 4275-4290.	3.7	13
29	SLC6A1 G443D associated with developmental delay and epilepsy. <i>Journal of Physical Education and Sports Management</i> , 2020, 6, a005371.	1.2	6
30	Gene expression signatures identify paediatric patients with multiple organ dysfunction who require advanced life support in the intensive care unit. <i>EBioMedicine</i> , 2020, 62, 103122.	6.1	17
31	Environmental Epigenetics of Diesel Particulate Matter Toxicogenomics. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 7386.	2.6	0
32	A Mutation in β -Adducin Impairs Autoregulation of Renal Blood Flow and Promotes the Development of Kidney Disease. <i>Journal of the American Society of Nephrology: JASN</i> , 2020, 31, 687-700.	6.1	23
33	Transcriptional analysis of the multiple Sry genes and developmental program at the onset of testis differentiation in the rat. <i>Biology of Sex Differences</i> , 2020, 11, 28.	4.1	5
34	Virus-induced genetics revealed by multidimensional precision medicine transcriptional workflow applicable to COVID-19. <i>Physiological Genomics</i> , 2020, 52, 255-268.	2.3	21
35	SARS-CoV-2 (COVID-19) structural and evolutionary dynamicome: Insights into functional evolution and human genomics. <i>Journal of Biological Chemistry</i> , 2020, 295, 11742-11753.	3.4	40
36	Expanding the phenotype of the CDKL5 deficiency disorder: Are seizures mandatory?. <i>American Journal of Medical Genetics, Part A</i> , 2020, 182, 1217-1222.	1.2	11

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37	Rapid whole-genome sequencing identifies a homozygous novel variant, His540Arg, in <i>HSD17B4</i> resulting in D-bifunctional protein deficiency disorder diagnosis. <i>Journal of Physical Education and Sports Management</i> , 2020, 6, a005496.	1.2	6
38	Integrated RNA Sequencing Reveals Epigenetic Impacts of Diesel Particulate Matter Exposure in Human Cerebral Organoids. <i>Developmental Neuroscience</i> , 2020, 42, 195-207.	2.0	12
39	PEA15 loss of function and defective cerebral development in the domestic cat. <i>PLoS Genetics</i> , 2020, 16, e1008671.	3.5	4
40	NAA10 variant in 38-week-gestation male patient: a case study. <i>Journal of Physical Education and Sports Management</i> , 2020, 6, a005868.	1.2	9
41	Breakdown of multiple sclerosis genetics to identify an integrated disease network and potential variant mechanisms. <i>Physiological Genomics</i> , 2019, 51, 562-577.	2.3	9
42	Neuronatin is a modifier of estrogen receptor-positive breast cancer incidence and outcome. <i>Breast Cancer Research and Treatment</i> , 2019, 177, 77-91.	2.5	3
43	Deleterious Variation in <i>BRSK2</i> Associates with a Neurodevelopmental Disorder. <i>American Journal of Human Genetics</i> , 2019, 104, 701-708.	6.2	19
44	Evolution of the phenotype of craniosynostosis with dental anomalies syndrome and report of <i>IL11RA</i> variant population frequencies in a Crouzon-like autosomal recessive syndrome. <i>American Journal of Medical Genetics, Part A</i> , 2019, 179, 668-673.	1.2	12
45	HDAC2 Regulates Site-Specific Acetylation of MDM2 and Its Ubiquitination Signaling in Tumor Suppression. <i>IScience</i> , 2019, 13, 43-54.	4.1	13
46	Genome sequencing for early-onset or atypical dementia: high diagnostic yield and frequent observation of multiple contributory alleles. <i>Journal of Physical Education and Sports Management</i> , 2019, 5, a003491.	1.2	25
47	Examination of Molecular Dynamic Simulations for Glucokinase (<i>GCK</i>) Mutations in Type 2 Diabetes. <i>FASEB Journal</i> , 2019, 33, 455.3.	0.5	0
48	Characterization of Coding/Noncoding Variants for <i>SHROOM3</i> in Patients with CKD. <i>Journal of the American Society of Nephrology: JASN</i> , 2018, 29, 1525-1535.	6.1	40
49	Familial and Somatic <i>BAP1</i> Mutations Inactivate ASXL1/2-Mediated Allosteric Regulation of BAP1 Deubiquitinase by Targeting Multiple Independent Domains. <i>Cancer Research</i> , 2018, 78, 1200-1213.	0.9	24
50	Functional domain analysis of <i>SOX18</i> transcription factor using a single-chain variable fragment-based approach. <i>MAbs</i> , 2018, 10, 596-606.	5.2	7
51	Genetic Fine-Mapping and Identification of Candidate Genes and Variants for Adiposity Traits in Outbred Rats. <i>Obesity</i> , 2018, 26, 213-222.	3.0	64
52	De novo mutations in the GTP/GDP-binding region of <i>RALA</i> , a RAS-like small GTPase, cause intellectual disability and developmental delay. <i>PLoS Genetics</i> , 2018, 14, e1007671.	3.5	16
53	Lethal <i>NARS2</i> -Related Disorder Associated With Rapidly Progressive Intractable Epilepsy and Global Brain Atrophy. <i>Pediatric Neurology</i> , 2018, 89, 26-30.	2.1	20
54	Genome sequencing in the clinic: the past, present, and future of genomic medicine. <i>Physiological Genomics</i> , 2018, 50, 563-579.	2.3	59

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55	De novo mutations in MED13, a component of the Mediator complex, are associated with a novel neurodevelopmental disorder. <i>Human Genetics</i> , 2018, 137, 375-388.	3.8	46
56	Defining Functional Human Variants in the HMG Box of SOX Genes of >60,000 Human Individuals for Potential Cardiovascular and Cancer Genetic Risk. <i>FASEB Journal</i> , 2018, 32, 863.3.	0.5	0
57	Methylation specific targeting of a chromatin remodeling complex from sponges to humans. <i>Scientific Reports</i> , 2017, 7, 40674.	3.3	22
58	Molecular modeling in the age of clinical genomics, the enterprise of the next generation. <i>Journal of Molecular Modeling</i> , 2017, 23, 75.	1.8	39
59	<i>RNF213</i> variants in a child with PHACE syndrome and moyamoya vasculopathy. <i>American Journal of Medical Genetics, Part A</i> , 2017, 173, 2557-2561.	1.2	13
60	Beyond thermoregulation: metabolic function of cetacean blubber in migrating bowhead and beluga whales. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2017, 187, 235-252.	1.5	30
61	On the Molecular Evolution of Leptin, Leptin Receptor, and Endospanin. <i>Frontiers in Endocrinology</i> , 2017, 8, 58.	3.5	59
62	The Tumor-suppressive Small GTPase DiRas1 Binds the Noncanonical Guanine Nucleotide Exchange Factor SmgGDS and Antagonizes SmgGDS Interactions with Oncogenic Small GTPases. <i>Journal of Biological Chemistry</i> , 2016, 291, 6534-6545.	3.4	24
63	Germline and somatic mutations in the <i>MTOR</i> gene in focal cortical dysplasia and epilepsy. <i>Neurology: Genetics</i> , 2016, 2, e118.	1.9	125
64	Differences in the Phosphorylation-Dependent Regulation of Prenylation of Rap1A and Rap1B. <i>Journal of Molecular Biology</i> , 2016, 428, 4929-4945.	4.2	23
65	The phenotypic impact of the male-specific region of chromosome-Y in inbred mating: the role of genetic variants and gene duplications in multiple inbred rat strains. <i>Biology of Sex Differences</i> , 2016, 7, 10.	4.1	15
66	Chromosome Y genetic variants: impact in animal models and on human disease. <i>Physiological Genomics</i> , 2015, 47, 525-537.	2.3	31
67	Similarities and differences of X and Y chromosome homologous genes, SRY and SOX3, in regulating the renin-angiotensin system promoters. <i>Physiological Genomics</i> , 2015, 47, 177-186.	2.3	25
68	Structural libraries of protein models for multiple species to understand evolution of the renin-angiotensin system. <i>General and Comparative Endocrinology</i> , 2015, 215, 106-116.	1.8	10
69	2015 Guidelines for Establishing Genetically Modified Rat Models for Cardiovascular Research. <i>Journal of Cardiovascular Translational Research</i> , 2015, 8, 269-277.	2.4	19
70	An evolutionarily conserved DNA architecture determines target specificity of the TWIST family bHLH transcription factors. <i>Genes and Development</i> , 2015, 29, 603-616.	5.9	66
71	Mutation of <i>SH2B3</i> (<i>LNK</i>), a Genome-Wide Association Study Candidate for Hypertension, Attenuates Dahl Salt-Sensitive Hypertension via Inflammatory Modulation. <i>Hypertension</i> , 2015, 65, 1111-1117.	2.7	60
72	Genetic fine-mapping and gene identification of adiposity traits in outbred rats. <i>FASEB Journal</i> , 2015, 29, 665.7.	0.5	0

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73	MAS promoter regulation: a role for Sry and tyrosine nitration of the KRAB domain of ZNF274 as a feedback mechanism. <i>Clinical Science</i> , 2014, 126, 727-738.	4.3	5
74	The C-Terminal Domain of SRA1p Has a Fold More Similar to PRP18 than to an RRM and Does Not Directly Bind to the SRA1 RNA STR7 Region. <i>Journal of Molecular Biology</i> , 2014, 426, 1753-1765.	4.2	6
75	LIMD2 Is a Small LIM-Only Protein Overexpressed in Metastatic Lesions That Regulates Cell Motility and Tumor Progression by Directly Binding to and Activating the Integrin-Linked Kinase. <i>Cancer Research</i> , 2014, 74, 1390-1403.	0.9	28
76	MOLECULAR EVOLUTION OF GPCRS: Melanocortin/melanocortin receptors. <i>Journal of Molecular Endocrinology</i> , 2014, 52, T29-T42.	2.5	80
77	Refined Mapping of a Hypertension Susceptibility Locus on Rat Chromosome 12. <i>Hypertension</i> , 2014, 64, 883-890.	2.7	10
78	Discovery of the Elusive Leptin in Birds: Identification of Several "Missing Links"™ in the Evolution of Leptin and Its Receptor. <i>PLoS ONE</i> , 2014, 9, e92751.	2.5	60
79	A method for in silico identification of SNAIL/SLUG DNA binding potentials to the E-box sequence using molecular dynamics and evolutionary conserved amino acids. <i>Journal of Molecular Modeling</i> , 2013, 19, 3463-3469.	1.8	17
80	Analysis of Sry duplications on the <i>Rattus norvegicus</i> Y-chromosome. <i>BMC Genomics</i> , 2013, 14, 792.	2.8	18
81	Differential Mechanisms of Activation of the Ang Peptide Receptors AT1, AT2, and MAS: Using In Silico Techniques to Differentiate the Three Receptors. <i>PLoS ONE</i> , 2013, 8, e65307.	2.5	12
82	From Rat to Human: Regulation of Renin-Angiotensin System Genes by Sry. <i>International Journal of Hypertension</i> , 2012, 2012, 1-7.	1.3	14
83	Leptin and leptin receptor: Analysis of a structure to function relationship in interaction and evolution from humans to fish. <i>Peptides</i> , 2012, 38, 326-336.	2.4	84
84	Amino acid function and docking site prediction through combining disease variants, structure alignments, sequence alignments, and molecular dynamics: a study of the HMG domain. <i>BMC Bioinformatics</i> , 2012, 13, S3.	2.6	8
85	Leptin in Teleost Fishes: An Argument for Comparative Study. <i>Frontiers in Physiology</i> , 2011, 2, 26.	2.8	98
86	<i>Sry</i> , more than testis determination?. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011, 301, R561-R571.	1.8	43