Jeremy W Prokop

List of Publications by Year in Descending Order

78 papers	1,127 citations	19 h-index	31 g-index
94 ext. papers	1,506 ext. citations	4.9 avg, IF	4.21 L-index

#	Paper	IF	Citations
78	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,	5.6	2
77	Computational and Experimental Analysis of Genetic Variants. **2022**, 12, 3303-3336		2
76	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.. *Frontiers in Immunology*, **2021**, 12, 790041	8.4	1
75	Monitoring neutrophil-to-lymphocyte ratio in patients with coronavirus disease 2019 receiving tocilizumab. *Annals of Allergy, Asthma and Immunology*, **2021**, 126, 306-308	3.2	3
74	Emerging Role of in Neurodevelopmental Disorders and Brain Development. *Genes*, **2021**, 12,	4.2	4
73	Balancing precision versus cohort transcriptomic analysis of acute and recovery phase of viral bronchiolitis. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2021**, 320, L1147-L1157	5.8	3
72	Repurposing eflornithine to treat a patient with a rare ODC1 gain-of-function variant disease. *ELife*, **2021**, 10,	8.9	6
71	Genomic, transcriptomic, and protein landscape profile of CFTR and cystic fibrosis. *Human Genetics*, **2021**, 140, 423-439	6.3	1
70	Perinatal Manifestations of -Associated Leukoencephalopathy With Brainstem and Spinal Cord Involvement and Lactate Elevation (LBSL). *Child Neurology Open*, **2021**, 8, 2329048X211019173	1.3	1
69	SARS-CoV-2 infection: molecular mechanisms of severe outcomes to suggest therapeutics. *Expert Review of Proteomics*, **2021**, 18, 105-118	4.2	2
68	Kinetic Characterization of ASXL1/2-Mediated Allosteric Regulation of the BAP1 Deubiquitinase. *Molecular Cancer Research*, **2021**, 19, 1099-1112	6.6	
67	High-Density Blood Transcriptomics Reveals Precision Immune Signatures of SARS-CoV-2 Infection in Hospitalized Individuals. *Frontiers in Immunology*, **2021**, 12, 694243	8.4	9
66	Silver Binding to Bacterial Glutaredoxins Observed by NMR. *Biophysica*, **2021**, 1, 359-376		2
65	SIGIRR Mutation in Human Necrotizing Enterocolitis (NEC) Disrupts STAT3-Dependent microRNA Expression in Neonatal Gut. *Cellular and Molecular Gastroenterology and Hepatology*, **2021**,	7.9	5
64	Expanding the phenotype: Four new cases and hope for treatment in Bachmann-Bupp syndrome. *American Journal of Medical Genetics, Part A*, **2021**, 185, 3485-3493	2.5	3
63	Sept8/SEPTIN8 involvement in cellular structure and kidney damage is identified by genetic mapping and a novel human tubule hypoxic model. *Scientific Reports*, **2021**, 11, 2071	4.9	2
62	A Mutation in -Adducin Impairs Autoregulation of Renal Blood Flow and Promotes the Development of Kidney Disease. *Journal of the American Society of Nephrology: JASN*, **2020**, 31, 687-700	12.7	11

61	Transcriptional analysis of the multiple Sry genes and developmental program at the onset of testis differentiation in the rat. *Biology of Sex Differences*, **2020**, 11, 28	9.3	2
60	Virus-induced genetics revealed by multidimensional precision medicine transcriptional workflow applicable to COVID-19. *Physiological Genomics*, **2020**, 52, 255-268	3.6	12
59	SARS-CoV-2 (COVID-19) structural and evolutionary dynamicome: Insights into functional evolution and human genomics. *Journal of Biological Chemistry*, **2020**, 295, 11742-11753	5.4	30
58	Expanding the phenotype of the CDKL5 deficiency disorder: Are seizures mandatory?. *American Journal of Medical Genetics, Part A*, **2020**, 182, 1217-1222	2.5	4
57	Integrated RNA Sequencing Reveals Epigenetic Impacts of Diesel Particulate Matter Exposure in Human Cerebral Organoids. *Developmental Neuroscience*, **2020**, 42, 195-207	2.2	3
56	PEA15 loss of function and defective cerebral development in the domestic cat. *PLoS Genetics*, **2020**, 16, e1008671	6	2
55	NAA10 variant in 38-week-gestation male patient: a case study. *Journal of Physical Education and Sports Management*, **2020**, 6,	2.8	3
54	SARS-CoV2 (COVID-19) Structural/Evolution Dynamicome: Insights into functional evolution and human genomics **2020**,		4
53	Rapid whole-genome sequencing identifies a homozygous novel variant, His540Arg, in resulting in D-bifunctional protein deficiency disorder diagnosis. *Journal of Physical Education and Sports Management*, **2020**, 6,	2.8	2
52	WD Repeat Domain 1 (WDR1) Deficiency Presenting as a Cause of Infantile Inflammatory Bowel Disease. *Journal of Pediatric Gastroenterology and Nutrition*, **2020**, 71, e113-e117	2.8	1
51	A Human Variant Screening Platform in Gabaergic Cortical Interneurons for Genotype to Phenotype Assessments. *Frontiers in Molecular Neuroscience*, **2020**, 13, 573409	6.1	2
50	SARS-CoV-2-Encoded Proteome and Human Genetics: From Interaction-Based to Ribosomal Biology Impact on Disease and Risk Processes. *Journal of Proteome Research*, **2020**, 19, 4275-4290	5.6	9
49	SLC6A1 G443D associated with developmental delay and epilepsy. *Journal of Physical Education and Sports Management*, **2020**, 6,	2.8	2
48	Gene expression signatures identify paediatric patients with multiple organ dysfunction who require advanced life support in the intensive care unit. *EBioMedicine*, **2020**, 62, 103122	8.8	3
47	Breakdown of multiple sclerosis genetics to identify an integrated disease network and potential variant mechanisms. *Physiological Genomics*, **2019**, 51, 562-577	3.6	3
46	Neuronatin is a modifier of estrogen receptor-positive breast cancer incidence and outcome. *Breast Cancer Research and Treatment*, **2019**, 177, 77-91	4.4	1
45	Deleterious Variation in BRSK2 Associates with a Neurodevelopmental Disorder. *American Journal of Human Genetics*, **2019**, 104, 701-708	11	5
44	Examination of Molecular Dynamic Simulations for Glucokinase (GCK) Mutations in Type 2 Diabetes. *FASEB Journal*, **2019**, 33, 455.3	0.9	

43	Evolution of the phenotype of craniosynostosis with dental anomalies syndrome and report of IL11RA variant population frequencies in a Crouzon-like autosomal recessive syndrome. *American Journal of Medical Genetics, Part A*, **2019**, 179, 668-673	2.5	9
42	HDAC2 Regulates Site-Specific Acetylation of MDM2 and Its Ubiquitination Signaling in Tumor Suppression. *IScience*, **2019**, 13, 43-54	6.1	9
41	Genome sequencing for early-onset or atypical dementia: high diagnostic yield and frequent observation of multiple contributory alleles. *Journal of Physical Education and Sports Management*, **2019**, 5,	2.8	15
40	Characterization of Coding/Noncoding Variants for in Patients with CKD. *Journal of the American Society of Nephrology: JASN*, **2018**, 29, 1525-1535	12.7	22
39	Familial and Somatic Mutations Inactivate ASXL1/2-Mediated Allosteric Regulation of BAP1 Deubiquitinase by Targeting Multiple Independent Domains. *Cancer Research*, **2018**, 78, 1200-1213	10.1	17
38	Functional domain analysis of SOX18 transcription factor using a single-chain variable fragment-based approach. *MAbs*, **2018**, 10, 596-606	6.6	5
37	Lethal NARS2-Related Disorder Associated With Rapidly Progressive Intractable Epilepsy and Global Brain Atrophy. *Pediatric Neurology*, **2018**, 89, 26-30	2.9	11
36	Genome sequencing in the clinic: the past, present, and future of genomic medicine. *Physiological Genomics*, **2018**, 50, 563-579	3.6	31
35	De novo mutations in MED13, a component of the Mediator complex, are associated with a novel neurodevelopmental disorder. *Human Genetics*, **2018**, 137, 375-388	6.3	26
34	Defining Functional Human Variants in the HMG Box of SOX Genes of >60,000 Human Individuals for Potential Cardiovascular and Cancer Genetic Risk. *FASEB Journal*, **2018**, 32, 863.3	0.9	
33	Genetic Fine-Mapping and Identification of Candidate Genes and Variants for Adiposity Traits in Outbred Rats. *Obesity*, **2018**, 26, 213-222	8	33
32	De novo mutations in the GTP/GDP-binding region of RALA, a RAS-like small GTPase, cause intellectual disability and developmental delay. *PLoS Genetics*, **2018**, 14, e1007671	6	11
31	Methylation specific targeting of a chromatin remodeling complex from sponges to humans. *Scientific Reports*, **2017**, 7, 40674	4.9	16
30	Molecular modeling in the age of clinical genomics, the enterprise of the next generation. *Journal of Molecular Modeling*, **2017**, 23, 75	2	28
29	RNF213 variants in a child with PHACE syndrome and moyamoya vasculopathy. *American Journal of Medical Genetics, Part A*, **2017**, 173, 2557-2561	2.5	10
28	Beyond thermoregulation: metabolic function of cetacean blubber in migrating bowhead and beluga whales. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, **2017**, 187, 235-252	2.2	20
27	On the Molecular Evolution of Leptin, Leptin Receptor, and Endospanin. *Frontiers in Endocrinology*, **2017**, 8, 58	5.7	35
26	Germline and somatic mutations in the gene in focal cortical dysplasia and epilepsy. *Neurology: Genetics*, **2016**, 2, e118	3.8	76

25	Differences in the Phosphorylation-Dependent Regulation of Prenylation of Rap1A and Rap1B. *Journal of Molecular Biology*, **2016**, 428, 4929-4945	6.5	16
24	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. *Biology of Sex Differences*, **2016**, 7, 10	9.3	11
23	The Tumor-suppressive Small GTPase DiRas1 Binds the Noncanonical Guanine Nucleotide Exchange Factor SmgGDS and Antagonizes SmgGDS Interactions with Oncogenic Small GTPases. *Journal of Biological Chemistry*, **2016**, 291, 6534-45	5.4	16
22	Structural libraries of protein models for multiple species to understand evolution of the renin-angiotensin system. *General and Comparative Endocrinology*, **2015**, 215, 106-16	3	9
21	2015 Guidelines for Establishing Genetically Modified Rat Models for Cardiovascular Research. *Journal of Cardiovascular Translational Research*, **2015**, 8, 269-77	3.3	18
20	An evolutionarily conserved DNA architecture determines target specificity of the TWIST family bHLH transcription factors. *Genes and Development*, **2015**, 29, 603-16	12.6	45
19	Mutation of SH2B3 (LNK), a genome-wide association study candidate for hypertension, attenuates Dahl salt-sensitive hypertension via inflammatory modulation. *Hypertension*, **2015**, 65, 1111-7	8.5	47
18	Chromosome Y genetic variants: impact in animal models and on human disease. *Physiological Genomics*, **2015**, 47, 525-37	3.6	20
17	Similarities and differences of X and Y chromosome homologous genes, SRY and SOX3, in regulating the renin-angiotensin system promoters. *Physiological Genomics*, **2015**, 47, 177-86	3.6	22
16	Genetic fine-mapping and gene identification of adiposity traits in outbred rats. *FASEB Journal*, **2015**, 29, 665.7	0.9	
15	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. *Cancer Research*, **2014**, 74, 1390-1403	10.1	19
14	Molecular evolution of GPCRs: Melanocortin/melanocortin receptors. *Journal of Molecular Endocrinology*, **2014**, 52, T29-42	4.5	65
13	Refined mapping of a hypertension susceptibility locus on rat chromosome 12. *Hypertension*, **2014**, 64, 883-90	8.5	7
12	MAS promoter regulation: a role for Sry and tyrosine nitration of the KRAB domain of ZNF274 as a feedback mechanism. *Clinical Science*, **2014**, 126, 727-38	6.5	5
11	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. *Journal of Molecular Biology*, **2014**, 426, 1753-65	6.5	6
10	Discovery of the elusive leptin in birds: identification of several 'missing links' in the evolution of leptin and its receptor. *PLoS ONE*, **2014**, 9, e92751	3.7	53
9	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. *Journal of Molecular Modeling*, **2013**, 19, 3463-9	2	14
8	Analysis of Sry duplications on the Rattus norvegicus Y-chromosome. *BMC Genomics*, **2013**, 14, 792	4.5	14

7	Differential mechanisms of activation of the Ang peptide receptors AT1, AT2, and MAS: using in silico techniques to differentiate the three receptors. *PLoS ONE*, **2013**, 8, e65307	3.7	11
6	Leptin and leptin receptor: analysis of a structure to function relationship in interaction and evolution from humans to fish. *Peptides*, **2012**, 38, 326-36	3.8	66
5	Amino acid function and docking site prediction through combining disease variants, structure alignments, sequence alignments, and molecular dynamics: a study of the HMG domain. *BMC Bioinformatics*, **2012**, 13 Suppl 2, S3	3.6	7
4	From rat to human: regulation of Renin-Angiotensin system genes by sry. *International Journal of Hypertension*, **2012**, 2012, 724240	2.4	14
3	Leptin in teleost fishes: an argument for comparative study. *Frontiers in Physiology*, **2011**, 2, 26	4.6	83
2	Sry, more than testis determination?. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2011**, 301, R561-71	3.2	34
1	Genome sequencing for early-onset dementia: high diagnostic yield and frequent observation of multiple contributory alleles		1