

Jeremy W Prokop

List of Publications by Year in descending order

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Version: 2024-02-01

86
papers

1,761
citations

331538

21
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345118

36
g-index

94
all docs

94
docs citations

94
times ranked

3397
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | Germline and somatic mutations in the <i>MTOR</i> gene in focal cortical dysplasia and epilepsy. <i>Neurology: Genetics</i> , 2016, 2, e118. | 0.9 | 125 |
| 2 | Leptin in Teleost Fishes: An Argument for Comparative Study. <i>Frontiers in Physiology</i> , 2011, 2, 26. | 1.3 | 98 |
| 3 | 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. | 1.2 | 84 |
| 4 | MOLECULAR EVOLUTION OF GPCRS: Melanocortin/melanocortin receptors. <i>Journal of Molecular Endocrinology</i> , 2014, 52, T29-T42. | 1.1 | 80 |
| 5 | An evolutionarily conserved DNA architecture determines target specificity of the TWIST family bHLH transcription factors. <i>Genes and Development</i> , 2015, 29, 603-616. | 2.7 | 66 |
| 6 | Genetic Fine-Mapping and Identification of Candidate Genes and Variants for Adiposity Traits in Outbred Rats. <i>Obesity</i> , 2018, 26, 213-222. | 1.5 | 64 |
| 7 | 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. | 1.3 | 60 |
| 8 | 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. | 1.1 | 60 |
| 9 | On the Molecular Evolution of Leptin, Leptin Receptor, and Endospinin. <i>Frontiers in Endocrinology</i> , 2017, 8, 58. | 1.5 | 59 |
| 10 | Genome sequencing in the clinic: the past, present, and future of genomic medicine. <i>Physiological Genomics</i> , 2018, 50, 563-579. | 1.0 | 59 |
| 11 | 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. | 1.8 | 46 |
| 12 | <i>Sry</i> , more than testis determination?. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011, 301, R561-R571. | 0.9 | 43 |
| 13 | Characterization of Coding/Noncoding Variants for SHROOM3 in Patients with CKD. <i>Journal of the American Society of Nephrology: JASN</i> , 2018, 29, 1525-1535. | 3.0 | 40 |
| 14 | 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. | 1.6 | 40 |
| 15 | Molecular modeling in the age of clinical genomics, the enterprise of the next generation. <i>Journal of Molecular Modeling</i> , 2017, 23, 75. | 0.8 | 39 |
| 16 | Chromosome Y genetic variants: impact in animal models and on human disease. <i>Physiological Genomics</i> , 2015, 47, 525-537. | 1.0 | 31 |
| 17 | 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. | 0.7 | 30 |
| 18 | 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. | 0.4 | 28 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | High-Density Blood Transcriptomics Reveals Precision Immune Signatures of SARS-CoV-2 Infection in Hospitalized Individuals. <i>Frontiers in Immunology</i> , 2021, 12, 694243. | 2.2 | 26 |
| 20 | 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. | 1.0 | 25 |
| 21 | 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. | 0.5 | 25 |
| 22 | 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. | 1.6 | 24 |
| 23 | 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. | 0.4 | 24 |
| 24 | Differences in the Phosphorylation-Dependent Regulation of Prenylation of Rap1A and Rap1B. <i>Journal of Molecular Biology</i> , 2016, 428, 4929-4945. | 2.0 | 23 |
| 25 | 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. | 3.0 | 23 |
| 26 | Methylation specific targeting of a chromatin remodeling complex from sponges to humans. <i>Scientific Reports</i> , 2017, 7, 40674. | 1.6 | 22 |
| 27 | Virus-induced genetics revealed by multidimensional precision medicine transcriptional workflow applicable to COVID-19. <i>Physiological Genomics</i> , 2020, 52, 255-268. | 1.0 | 21 |
| 28 | Lethal NARS2-Related Disorder Associated With Rapidly Progressive Intractable Epilepsy and Global Brain Atrophy. <i>Pediatric Neurology</i> , 2018, 89, 26-30. | 1.0 | 20 |
| 29 | 2015 Guidelines for Establishing Genetically Modified Rat Models for Cardiovascular Research. <i>Journal of Cardiovascular Translational Research</i> , 2015, 8, 269-277. | 1.1 | 19 |
| 30 | Deleterious Variation in BRSK2 Associates with a Neurodevelopmental Disorder. <i>American Journal of Human Genetics</i> , 2019, 104, 701-708. | 2.6 | 19 |
| 31 | Analysis of Sry duplications on the <i>Rattus norvegicus</i> Y-chromosome. <i>BMC Genomics</i> , 2013, 14, 792. | 1.2 | 18 |
| 32 | 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. | 0.8 | 17 |
| 33 | 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. | 2.7 | 17 |
| 34 | Repurposing eflornithine to treat a patient with a rare ODC1 gain-of-function variant disease. <i>ELife</i> , 2021, 10, . | 2.8 | 17 |
| 35 | De novo mutations in the GTP/GDP-binding region of RALA, a RAS-like small GTPase, cause intellectual disability and developmental delay. <i>PLoS Genetics</i> , 2018, 14, e1007671. | 1.5 | 16 |
| 36 | SIGIRR Mutation in Human Necrotizing Enterocolitis (NEC) Disrupts STAT3-Dependent microRNA Expression in Neonatal Gut. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2022, 13, 425-440. | 2.3 | 16 |

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|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | 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. | 1.8 | 15 |
| 38 | Emerging Role of ODC1 in Neurodevelopmental Disorders and Brain Development. <i>Genes</i> , 2021, 12, 470. | 1.0 | 15 |
| 39 | From Rat to Human: Regulation of Renin-Angiotensin System Genes by Sry. <i>International Journal of Hypertension</i> , 2012, 2012, 1-7. | 0.5 | 14 |
| 40 | <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. | 0.7 | 13 |
| 41 | HDAC2 Regulates Site-Specific Acetylation of MDM2 and Its Ubiquitination Signaling in Tumor Suppression. <i>IScience</i> , 2019, 13, 43-54. | 1.9 | 13 |
| 42 | 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. | 1.8 | 13 |
| 43 | 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. | 1.6 | 13 |
| 44 | 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. | 1.1 | 12 |
| 45 | 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. | 0.7 | 12 |
| 46 | Integrated RNA Sequencing Reveals Epigenetic Impacts of Diesel Particulate Matter Exposure in Human Cerebral Organoids. <i>Developmental Neuroscience</i> , 2020, 42, 195-207. | 1.0 | 12 |
| 47 | Expanding the phenotype of the CDKL5 deficiency disorder: Are seizures mandatory?. <i>American Journal of Medical Genetics, Part A</i> , 2020, 182, 1217-1222. | 0.7 | 11 |
| 48 | Refined Mapping of a Hypertension Susceptibility Locus on Rat Chromosome 12. <i>Hypertension</i> , 2014, 64, 883-890. | 1.3 | 10 |
| 49 | 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. | 0.8 | 10 |
| 50 | SARS-CoV-2 infection: molecular mechanisms of severe outcomes to suggest therapeutics. <i>Expert Review of Proteomics</i> , 2021, 18, 105-118. | 1.3 | 10 |
| 51 | Expanding the phenotype: Four new cases and hope for treatment in <i>Bachmann-Bupp</i> syndrome. <i>American Journal of Medical Genetics, Part A</i> , 2021, 185, 3485-3493. | 0.7 | 10 |
| 52 | Breakdown of multiple sclerosis genetics to identify an integrated disease network and potential variant mechanisms. <i>Physiological Genomics</i> , 2019, 51, 562-577. | 1.0 | 9 |
| 53 | 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. | 1.3 | 9 |
| 54 | NAA10 variant in 38-week-gestation male patient: a case study. <i>Journal of Physical Education and Sports Management</i> , 2020, 6, a005868. | 0.5 | 9 |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | 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, S3. | 1.2 | 8 |
| 56 | Functional domain analysis of SOX18 transcription factor using a single-chain variable fragment-based approach. MAbs, 2018, 10, 596-606. | 2.6 | 7 |
| 57 | 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, 1753-1765. | 2.0 | 6 |
| 58 | A Human TSC1 Variant Screening Platform in Gabaergic Cortical Interneurons for Genotype to Phenotype Assessments. Frontiers in Molecular Neuroscience, 2020, 13, 573409. | 1.4 | 6 |
| 59 | SLC6A1 G443D associated with developmental delay and epilepsy. Journal of Physical Education and Sports Management, 2020, 6, a005371. | 0.5 | 6 |
| 60 | Rapid whole-genome sequencing identifies a homozygous novel variant, His540Arg, in <i>HSD17B4</i> resulting in D-bifunctional protein deficiency disorder diagnosis. Journal of Physical Education and Sports Management, 2020, 6, a005496. | 0.5 | 6 |
| 61 | CFTR-mediated monocyte/macrophage dysfunction revealed by cystic fibrosis proband-parent comparisons. JCI Insight, 2022, 7, . | 2.3 | 6 |
| 62 | MAS promoter regulation: a role for Sry and tyrosine nitration of the KRAB domain of ZNF274 as a feedback mechanism. Clinical Science, 2014, 126, 727-738. | 1.8 | 5 |
| 63 | 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. | 1.8 | 5 |
| 64 | 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. | 2.2 | 5 |
| 65 | Computational and Experimental Analysis of Genetic Variants. , 2022, 12, 3303-3336. | | 5 |
| 66 | 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. | 1.7 | 4 |
| 67 | Monitoring neutrophil-to-lymphocyte ratio in patients with coronavirus disease 2019 receiving tocilizumab. Annals of Allergy, Asthma and Immunology, 2021, 126, 306-308. | 0.5 | 4 |
| 68 | PEA15 loss of function and defective cerebral development in the domestic cat. PLoS Genetics, 2020, 16, e1008671. | 1.5 | 4 |
| 69 | Epiregulin as an Alternative Ligand for Leptin Receptor Alleviates Glucose Intolerance without Change in Obesity. Cells, 2022, 11, 425. | 1.8 | 4 |
| 70 | Neuronatin is a modifier of estrogen receptor-positive breast cancer incidence and outcome. Breast Cancer Research and Treatment, 2019, 177, 77-91. | 1.1 | 3 |
| 71 | WD Repeat Domain 1 (<i>WDR1</i>) Deficiency Presenting as a Cause of Infantile Inflammatory Bowel Disease. Journal of Pediatric Gastroenterology and Nutrition, 2020, 71, e113-e117. | 0.9 | 3 |
| 72 | Genomic, transcriptomic, and protein landscape profile of CFTR and cystic fibrosis. Human Genetics, 2021, 140, 423-439. | 1.8 | 3 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 73 | Perinatal Manifestations of <i>DARS2</i> -Associated Leukoencephalopathy With Brainstem and Spinal Cord Involvement and Lactate Elevation (LBSL). <i>Child Neurology Open</i> , 2021, 8, 2329048X2110191. | 0.5 | 3 |
| 74 | Combined Plasma and Urinary Metabolomics Uncover Metabolic Perturbations Associated with Severe Respiratory Syncytial Viral Infection and Future Development of Asthma in Infant Patients. <i>Metabolites</i> , 2022, 12, 178. | 1.3 | 3 |
| 75 | The Feasibility of Studying Metabolites in PICU Multi-Organ Dysfunction Syndrome Patients over an 8-Day Course Using an Untargeted Approach. <i>Children</i> , 2021, 8, 151. | 0.6 | 2 |
| 76 | Silver Binding to Bacterial Glutaredoxins Observed by NMR. <i>Biophysica</i> , 2021, 1, 359-376. | 0.6 | 2 |
| 77 | N-methyl-D-aspartate (NMDA) receptor genetics: The power of paralog homology and protein dynamics in defining dominant genetic variants. <i>American Journal of Medical Genetics, Part A</i> , 2022, 188, 556-568. | 0.7 | 2 |
| 78 | Loss of Health Promoting Bacteria in the Gastrointestinal Microbiome of PICU Infants with Bronchiolitis: A Single-Center Feasibility Study. <i>Children</i> , 2022, 9, 114. | 0.6 | 2 |
| 79 | Kinetic Characterization of ASXL1/2-Mediated Allosteric Regulation of the BAP1 Deubiquitinase. <i>Molecular Cancer Research</i> , 2021, 19, 1099-1112. | 1.5 | 1 |
| 80 | Hexosylceramides and Glycerophosphatidylcholine GPC(36:1) Increase in Multi-Organ Dysfunction Syndrome Patients with Pediatric Intensive Care Unit Admission over 8-Day Hospitalization. <i>Journal of Personalized Medicine</i> , 2021, 11, 339. | 1.1 | 1 |
| 81 | Environmental Epigenetics of Diesel Particulate Matter Toxicogenomics. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 7386. | 1.2 | 0 |
| 82 | Advanced Sequencing of Kidney Tubule Hypoxia Regulated Epithelial-to-Mesenchymal Transition. <i>FASEB Journal</i> , 2021, 35, . | 0.2 | 0 |
| 83 | Profiling systemic physiology through blood-based multidimensional RNAseq. <i>FASEB Journal</i> , 2021, 35, . | 0.2 | 0 |
| 84 | Genetic fine-mapping and gene identification of adiposity traits in outbred rats. <i>FASEB Journal</i> , 2015, 29, 665.7. | 0.2 | 0 |
| 85 | 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. | 0.2 | 0 |
| 86 | Examination of Molecular Dynamic Simulations for Glucokinase (GCK) Mutations in Type 2 Diabetes. <i>FASEB Journal</i> , 2019, 33, 455.3. | 0.2 | 0 |