

Stephanie Byrum

List of Publications by Year in descending order

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Version: 2024-02-01

87
papers

2,511
citations

279798

23
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233421

45
g-index

94
all docs

94
docs citations

94
times ranked

3854
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | DNA methylation on N6-adenine in mammalian embryonic stem cells. <i>Nature</i> , 2016, 532, 329-333. | 27.8 | 554 |
| 2 | Phase separation drives aberrant chromatin looping and cancer development. <i>Nature</i> , 2021, 595, 591-595. | 27.8 | 197 |
| 3 | ChAP-MS: A Method for Identification of Proteins and Histone Posttranslational Modifications at a Single Genomic Locus. <i>Cell Reports</i> , 2012, 2, 198-205. | 6.4 | 110 |
| 4 | ATXN7L3 and ENY2 Coordinate Activity of Multiple H2B Deubiquitinases Important for Cellular Proliferation and Tumor Growth. <i>Molecular Cell</i> , 2016, 62, 558-571. | 9.7 | 106 |
| 5 | Multi-omics data integration considerations and study design for biological systems and disease. <i>Molecular Omics</i> , 2021, 17, 170-185. | 2.8 | 85 |
| 6 | Anti-PD-1/L1 lead-in before MAPK inhibitor combination maximizes antitumor immunity and efficacy. <i>Cancer Cell</i> , 2021, 39, 1375-1387.e6. | 16.8 | 78 |
| 7 | A CRISPR-based approach for proteomic analysis of a single genomic locus. <i>Epigenetics</i> , 2014, 9, 1207-1211. | 2.7 | 71 |
| 8 | Indicators of responsiveness to immune checkpoint inhibitors. <i>Scientific Reports</i> , 2017, 7, 807. | 3.3 | 70 |
| 9 | proteNorm – A User-Friendly Tool for Normalization and Analysis of TMT and Label-Free Protein Quantification. <i>ACS Omega</i> , 2020, 5, 25625-25633. | 3.5 | 53 |
| 10 | Purification of a specific native genomic locus for proteomic analysis. <i>Nucleic Acids Research</i> , 2013, 41, e195-e195. | 14.5 | 49 |
| 11 | A PWWP Domain-Containing Protein Targets the NuA3 Acetyltransferase Complex via Histone H3 Lysine 36 trimethylation to Coordinate Transcriptional Elongation at Coding Regions. <i>Molecular and Cellular Proteomics</i> , 2014, 13, 2883-2895. | 3.8 | 48 |
| 12 | Impact of sarA and Phenol-Soluble Modulins on the Pathogenesis of Osteomyelitis in Diverse Clinical Isolates of <i>Staphylococcus aureus</i> . <i>Infection and Immunity</i> , 2016, 84, 2586-2594. | 2.2 | 46 |
| 13 | Loss of E-Cadherin Inhibits CD103 Antitumor Activity and Reduces Checkpoint Blockade Responsiveness in Melanoma. <i>Cancer Research</i> , 2019, 79, 1113-1123. | 0.9 | 45 |
| 14 | Durable Suppression of Acquired MEK Inhibitor Resistance in Cancer by Sequestering MEK from ERK and Promoting Antitumor T-cell Immunity. <i>Cancer Discovery</i> , 2021, 11, 714-735. | 9.4 | 45 |
| 15 | Quantitative Proteomics Identifies Activation of Hallmark Pathways of Cancer in Patient Melanoma. <i>Journal of Proteomics and Bioinformatics</i> , 2013, 06, 43-50. | 0.4 | 43 |
| 16 | Impact of Spaceflight and Artificial Gravity on the Mouse Retina: Biochemical and Proteomic Analysis. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2546. | 4.1 | 41 |
| 17 | Spaceflight induces oxidative damage to blood-brain barrier integrity in a mouse model. <i>FASEB Journal</i> , 2020, 34, 15516-15530. | 0.5 | 39 |
| 18 | Analysis of Stable and Transient Protein-Protein Interactions. <i>Methods in Molecular Biology</i> , 2012, 833, 143-152. | 0.9 | 36 |

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|----|---|------|-----------|
| 19 | Mitotic phosphorylation of histone H3 threonine 80. <i>Cell Cycle</i> , 2014, 13, 440-452. | 2.6 | 32 |
| 20 | Characterization of mouse ocular response to a 35-day spaceflight mission: Evidence of blood-retinal barrier disruption and ocular adaptations. <i>Scientific Reports</i> , 2019, 9, 8215. | 3.3 | 30 |
| 21 | A NSD3-targeted PROTAC suppresses NSD3 and cMyc oncogenic nodes in cancer cells. <i>Cell Chemical Biology</i> , 2022, 29, 386-397.e9. | 5.2 | 30 |
| 22 | ZMYND11-MBTD1 induces leukemogenesis through hijacking NuA4/TIP60 acetyltransferase complex and a PWWP-mediated chromatin association mechanism. <i>Nature Communications</i> , 2021, 12, 1045. | 12.8 | 27 |
| 23 | Quantitative Histone Mass Spectrometry Identifies Elevated Histone H3 Lysine 27 (Lys27) Trimethylation in Melanoma. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 765-775. | 3.8 | 26 |
| 24 | Metaproteomics reveals potential mechanisms by which dietary resistant starch supplementation attenuates chronic kidney disease progression in rats. <i>PLoS ONE</i> , 2019, 14, e0199274. | 2.5 | 25 |
| 25 | Time- and radiation-dose dependent changes in the plasma proteome after total body irradiation of non-human primates: Implications for biomarker selection. <i>PLoS ONE</i> , 2017, 12, e0174771. | 2.5 | 25 |
| 26 | Circulating Exosomal microRNAs as Predictive Biomarkers of Neoadjuvant Chemotherapy Response in Breast Cancer. <i>Current Oncology</i> , 2022, 29, 613-630. | 2.2 | 24 |
| 27 | A Proteomic Study of Human Merkel Cell Carcinoma. <i>Journal of Proteomics and Bioinformatics</i> , 2013, 06, 275-282. | 0.4 | 23 |
| 28 | Cistrome analysis of YY1 uncovers a regulatory axis of YY1:BRD2/4-PFKP during tumorigenesis of advanced prostate cancer. <i>Nucleic Acids Research</i> , 2021, 49, 4971-4988. | 14.5 | 22 |
| 29 | ProteoViz: a tool for the analysis and interactive visualization of phosphoproteomics data. <i>Molecular Omics</i> , 2020, 16, 316-326. | 2.8 | 19 |
| 30 | Epigenetic Control of <i>Cdkn2a.Arfl</i> Protects Tumor-Infiltrating Lymphocytes from Metabolic Exhaustion. <i>Cancer Research</i> , 2020, 80, 4707-4719. | 0.9 | 19 |
| 31 | 1,3-Butadiene-induced mitochondrial dysfunction is correlated with mitochondrial CYP2E1 activity in Collaborative Cross mice. <i>Toxicology</i> , 2017, 378, 114-124. | 4.2 | 18 |
| 32 | Label-Free Proteomic Approach to Characterize Protease-Dependent and -Independent Effects of <i>sarA</i> Inactivation on the <i>Staphylococcus aureus</i> Exoproteome. <i>Journal of Proteome Research</i> , 2018, 17, 3384-3395. | 3.7 | 18 |
| 33 | Formula Diet Alters the Ileal Metagenome and Transcriptome at Weaning and during the Postweaning Period in a Porcine Model. <i>MSystems</i> , 2020, 5, . | 3.8 | 18 |
| 34 | Discovery of a dual WDR5 and Ikaros PROTAC degrader as an anti-cancer therapeutic. <i>Oncogene</i> , 2022, 41, 3328-3340. | 5.9 | 18 |
| 35 | Proteomic analysis of bone cancer: a review of current and future developments. <i>Expert Review of Proteomics</i> , 2007, 4, 371-378. | 3.0 | 17 |
| 36 | Proteomics-Based Identification of Differentially Abundant Proteins from Human Keratinocytes Exposed to Arsenic Trioxide. <i>Journal of Proteomics and Bioinformatics</i> , 2014, 07, 166-178. | 0.4 | 17 |

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|----|---|------|-----------|
| 37 | RNA-Seq Analysis of Spinal Cord Tissues from hPFN1G118V Transgenic Mouse Model of ALS at Pre-symptomatic and End-Stages of Disease. <i>Scientific Reports</i> , 2018, 8, 13737. | 3.3 | 16 |
| 38 | Quantitative Analysis of Histone Exchange during Chromatin Purification. <i>Journal of Integrated OMICS</i> , 2011, 1, 61-65. | 0.5 | 15 |
| 39 | SarA plays a predominant role in controlling the production of extracellular proteases in the diverse clinical isolates of <i>Staphylococcus aureus</i> LAC and UAMS-1. <i>Virulence</i> , 2020, 11, 1738-1762. | 4.4 | 15 |
| 40 | A conserved BAH module within mammalian BAHD1 connects H3K27me3 to Polycomb gene silencing. <i>Nucleic Acids Research</i> , 2021, 49, 4441-4455. | 14.5 | 15 |
| 41 | The promise of bone cancer proteomics. <i>Annals of the New York Academy of Sciences</i> , 2010, 1192, 222-229. | 3.8 | 14 |
| 42 | Exploiting Correlations between Protein Abundance and the Functional Status of <i>saeRS</i> and <i>sarA</i> To Identify Virulence Factors of Potential Importance in the Pathogenesis of <i>Staphylococcus aureus</i> Osteomyelitis. <i>ACS Infectious Diseases</i> , 2020, 6, 237-249. | 3.8 | 14 |
| 43 | Activation-induced cytidine deaminase localizes to G-quadruplex motifs at mutation hotspots in lymphoma. <i>NAR Cancer</i> , 2020, 2, zcaa029. | 3.1 | 14 |
| 44 | Assessing the Effects of Redox Modifier MnTnBuOE-2-PyP 5+ on Cognition and Hippocampal Physiology Following Doxorubicin, Cyclophosphamide, and Paclitaxel Treatment. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1867. | 4.1 | 14 |
| 45 | Quantitative analysis of histone exchange for transcriptionally active chromatin. <i>Journal of Clinical Bioinformatics</i> , 2011, 1, 17. | 1.2 | 13 |
| 46 | Differences in cell death in methionine versus cysteine depletion. <i>Environmental and Molecular Mutagenesis</i> , 2021, 62, 216-226. | 2.2 | 13 |
| 47 | Raman Spectroscopy and Machine Learning Reveals Early Tumor Microenvironmental Changes Induced by Immunotherapy. <i>Cancer Research</i> , 2021, 81, 5745-5755. | 0.9 | 13 |
| 48 | Proteomics Indicates Lactate Dehydrogenase Is Prognostic in Acetaminophen-Induced Acute Liver Failure Patients and Reveals Altered Signaling Pathways. <i>Toxicological Sciences</i> , 2022, 187, 25-34. | 3.1 | 13 |
| 49 | Identification of Viral and Host Proteins That Interact with Murine Gammaherpesvirus 68 Latency-Associated Nuclear Antigen during Lytic Replication: a Role for Hsc70 in Viral Replication. <i>Journal of Virology</i> , 2016, 90, 1397-1413. | 3.4 | 12 |
| 50 | Proteomic identification of histone post-translational modifications and proteins enriched at a DNA double-strand break. <i>Nucleic Acids Research</i> , 2017, 45, 10923-10940. | 14.5 | 12 |
| 51 | Local and Relayed Effects of Deep Brain Stimulation of the Pedunclopontine Nucleus. <i>Brain Sciences</i> , 2019, 9, 64. | 2.3 | 12 |
| 52 | Respiratory defects in the <i>Crtp</i> KO mouse model of osteogenesis imperfecta. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2020, 318, L592-L605. | 2.9 | 11 |
| 53 | Continuous Developmental and Early Life Trichloroethylene Exposure Promoted DNA Methylation Alterations in Polycomb Protein Binding Sites in Effector/Memory CD4+ T Cells. <i>Frontiers in Immunology</i> , 2019, 10, 2016. | 4.8 | 10 |
| 54 | Inhibition of tryptophan 2,3-dioxygenase impairs DNA damage tolerance and repair in glioma cells. <i>NAR Cancer</i> , 2021, 3, zcab014. | 3.1 | 10 |

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|----|---|-----|-----------|
| 55 | Cognitive impairment resulting from treatment with docetaxel, doxorubicin, and cyclophosphamide. <i>Brain Research</i> , 2021, 1760, 147397. | 2.2 | 10 |
| 56 | Accurate and Sensitive Quantitation of the Dynamic Heat Shock Proteome Using Tandem Mass Tags. <i>Journal of Proteome Research</i> , 2020, 19, 1183-1195. | 3.7 | 9 |
| 57 | Multi-omics data integration reveals correlated regulatory features of triple negative breast cancer. <i>Molecular Omics</i> , 2021, 17, 677-691. | 2.8 | 9 |
| 58 | Purification of Specific Chromatin Loci for Proteomic Analysis. <i>Methods in Molecular Biology</i> , 2015, 1228, 83-92. | 0.9 | 9 |
| 59 | Control of the Anterior Pituitary Cell Lineage Regulator POU1F1 by the Stem Cell Determinant Musashi. <i>Endocrinology</i> , 2021, 162, . | 2.8 | 9 |
| 60 | Ionizing Radiation Activates Mitochondrial Function in Osteoclasts and Causes Bone Loss in Young Adult Male Mice. <i>International Journal of Molecular Sciences</i> , 2022, 23, 675. | 4.1 | 9 |
| 61 | In vivo transcriptional analysis of mice infected with <i>Leishmania major</i> unveils cellular heterogeneity and altered transcriptomic profiling at single-cell resolution. <i>PLoS Neglected Tropical Diseases</i> , 2022, 16, e0010518. | 3.0 | 9 |
| 62 | A Quantitative Proteomic Analysis of Urine from Gamma-Irradiated Non- Human Primates. <i>Journal of Proteomics and Bioinformatics</i> , 2014, 01, . | 0.4 | 7 |
| 63 | Effect of Sulforaphane and 5-Aza-2-Deoxycytidine on Melanoma Cell Growth. <i>Medicines (Basel)</i> , 2021, 10, 1477. | 1.4 | 7 |
| 64 | Cranial irradiation impairs juvenile social memory and modulates hippocampal physiology. <i>Brain Research</i> , 2020, 1748, 147095. | 2.2 | 7 |
| 65 | Neonatal Diet Impacts Circulatory miRNA Profile in a Porcine Model. <i>Frontiers in Immunology</i> , 2020, 11, 1240. | 4.8 | 6 |
| 66 | Proteogenomic analysis of melanoma brain metastases from distinct anatomical sites identifies pathways of metastatic progression. <i>Acta Neuropathologica Communications</i> , 2020, 8, 157. | 5.2 | 5 |
| 67 | PHF19 inhibition as a therapeutic target in multiple myeloma. <i>Current Research in Translational Medicine</i> , 2021, 69, 103290. | 1.8 | 5 |
| 68 | The Effects of 5-Fluorouracil/Leucovorin Chemotherapy on Cognitive Function in Male Mice. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 762116. | 3.5 | 5 |
| 69 | Proteomic characterization of the arsenic response locus in <i>S. cerevisiae</i> . <i>Epigenetics</i> , 2019, 14, 130-145. | 2.7 | 4 |
| 70 | Cold Storage Increases Albumin and Advanced Glycation-End Product-Albumin Levels in Kidney Transplants: A Possible Cause for Exacerbated Renal Damage. <i>Transplantation Direct</i> , 2019, 5, e454. | 1.6 | 4 |
| 71 | PTMViz: a tool for analyzing and visualizing histone post translational modification data. <i>BMC Bioinformatics</i> , 2021, 22, 275. | 2.6 | 4 |
| 72 | Deficiency of N-glycanase 1 perturbs neurogenesis and cerebral development modeled by human organoids. <i>Cell Death and Disease</i> , 2022, 13, 262. | 6.3 | 4 |

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|----|---|-----|-----------|
| 73 | Proteomic profiling of tear fluid as a promising non-invasive screening test for colon cancer. <i>American Journal of Surgery</i> , 2022, 224, 19-24. | 1.8 | 4 |
| 74 | Misregulation of Rad50 expression in Melanoma cells. <i>Journal of Cutaneous Pathology</i> , 2012, 39, 680-684. | 1.3 | 3 |
| 75 | Dysbiotic stress increases the sensitivity of the tumor vasculature to radiotherapy and c-Met inhibitors. <i>Angiogenesis</i> , 2021, 24, 597-611. | 7.2 | 3 |
| 76 | Proteomic Technologies for the Study of Osteosarcoma. <i>Sarcoma</i> , 2012, 2012, 1-10. | 1.3 | 2 |
| 77 | Vulvar squamous cell carcinoma aggressiveness is associated with differential expression of collagen and STAT1. <i>Clinical Proteomics</i> , 2017, 14, 40. | 2.1 | 2 |
| 78 | Milk Formula Diet Alters Bacterial and Host Protein Profile in Comparison to Human Milk Diet in Neonatal Piglet Model. <i>Nutrients</i> , 2021, 13, 3718. | 4.1 | 2 |
| 79 | Epigenetically Enhanced MED12L in ETO2-GLIS2 Positive Pediatric Acute Megakaryoblastic Leukemia Is Associated with Resistance to the CDK8 Inhibitors. <i>Blood</i> , 2021, 138, 2208-2208. | 1.4 | 2 |
| 80 | Short-Term Metformin Treatment Enriches <i>Bacteroides dorei</i> in an Obese Liver Steatosis Zucker Rat Model. <i>Frontiers in Microbiology</i> , 2022, 13, 834776. | 3.5 | 2 |
| 81 | HIF-1 α Activation Impacts Macrophage Function during Murine <i>Leishmania major</i> Infection. <i>Pathogens</i> , 2021, 10, 1584. | 2.8 | 2 |
| 82 | Effect of excess weight and insulin resistance on DNA methylation in prepubertal children. <i>Scientific Reports</i> , 2022, 12, 8430. | 3.3 | 2 |
| 83 | Registered report protocol: Quantitative analysis of septin Cdc10-associated proteome in <i>Cryptococcus neoformans</i> . <i>PLoS ONE</i> , 2020, 15, e0242381. | 2.5 | 1 |
| 84 | PSII-29 Identification of serum proteins that interact with extracellular histones in feedlot cattle. <i>Journal of Animal Science</i> , 2019, 97, 246-246. | 0.5 | 0 |
| 85 | Phosphoproteomics Provides Novel Insights into the Response of Primary Acute Lymphoblastic Leukemia Cells to Microtubule Depolymerization in G1 Phase of the Cell Cycle. <i>ACS Omega</i> , 2021, 6, 24949-24959. | 3.5 | 0 |
| 86 | PTHrP(12-48) for the diagnosis of breast cancer bone metastasis. <i>Journal of Clinical Oncology</i> , 2012, 30, e21039-e21039. | 1.6 | 0 |
| 87 | Methamphetamine-Induced Proteomic Changes Within the Neuroinflammatory TLR4 Pathway Persist After Long-Term Self-Administration in Rats. <i>FASEB Journal</i> , 2022, 36, . | 0.5 | 0 |