

David Scott Wishart

List of Publications by Year in descending order

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Version: 2024-02-01

419
papers

86,667
citations

1296

112
h-index

448

280
g-index

429
all docs

429
docs citations

429
times ranked

103035
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | NP-MRD: the Natural Products Magnetic Resonance Database. <i>Nucleic Acids Research</i> , 2022, 50, D665-D677. | 6.5 | 39 |
| 2 | HMDB 5.0: the Human Metabolome Database for 2022. <i>Nucleic Acids Research</i> , 2022, 50, D622-D631. | 6.5 | 736 |
| 3 | Metabolomics in Exercise and Sports: A Systematic Review. <i>Sports Medicine</i> , 2022, 52, 547-583. | 3.1 | 34 |
| 4 | Emerging technologies and their impact on regulatory science. <i>Experimental Biology and Medicine</i> , 2022, 247, 1-75. | 1.1 | 22 |
| 5 | Urinary metabolomics to develop predictors for pediatric acute kidney injury. <i>Pediatric Nephrology</i> , 2022, 37, 2079-2090. | 0.9 | 4 |
| 6 | Metabolomic Fingerprint of Behavioral Changes in Response to Full-Spectrum Cannabis Extracts. <i>Frontiers in Pharmacology</i> , 2022, 13, 831052. | 1.6 | 2 |
| 7 | Blood Metabolomic Phenotyping of Dry Cows Could Predict the High Milk Somatic Cells in Early Lactation—Preliminary Results. <i>Dairy</i> , 2022, 3, 59-77. | 0.7 | 3 |
| 8 | Identification of Serum-Predictive Biomarkers for Subclinical Mastitis in Dairy Cows and New Insights into the Pathobiology of the Disease. <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 1724-1746. | 2.4 | 5 |
| 9 | Combination of mouse prion protein with detoxified lipopolysaccharide triggers colon genes related to inflammatory, antibacterial, and apoptotic responses. <i>Research in Veterinary Science</i> , 2022, 144, 98-107. | 0.9 | 1 |
| 10 | Metabolomics and the Multi-Omics View of Cancer. <i>Metabolites</i> , 2022, 12, 154. | 1.3 | 17 |
| 11 | Systemic inflammation and metabolic disturbances underlie inpatient mortality among ill children with severe malnutrition. <i>Science Advances</i> , 2022, 8, eabj6779. | 4.7 | 14 |
| 12 | BioTransformer 3.0—a web server for accurately predicting metabolic transformation products. <i>Nucleic Acids Research</i> , 2022, 50, W115-W123. | 6.5 | 33 |
| 13 | The impact of methodological choices when developing predictive models using urinary metabolite data. <i>Statistics in Medicine</i> , 2022, , . | 0.8 | 0 |
| 14 | Advances in Metabolomics-Driven Diagnostic Breeding and Crop Improvement. <i>Metabolites</i> , 2022, 12, 511. | 1.3 | 9 |
| 15 | Predictive blood biomarkers of sheep pregnancy and litter size. <i>Scientific Reports</i> , 2022, 12, . | 1.6 | 4 |
| 16 | Acylcarnitines: Nomenclature, Biomarkers, Therapeutic Potential, Drug Targets, and Clinical Trials. <i>Pharmacological Reviews</i> , 2022, 74, 506-551. | 7.1 | 106 |
| 17 | MarkerDB: an online database of molecular biomarkers. <i>Nucleic Acids Research</i> , 2021, 49, D1259-D1267. | 6.5 | 64 |
| 18 | Predicting PAMPA permeability using the 3D-RISM-KH theory: are we there yet?. <i>Journal of Computer-Aided Molecular Design</i> , 2021, 35, 261-269. | 1.3 | 6 |

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|----|---|-----|-----------|
| 19 | Food Constituent and Food Metabolite Databases. , 2021, , 2-18. | | 2 |
| 20 | Cloning and high-level expression of monomeric human superoxide dismutase 1 (SOD1) and its interaction with pyrimidine analogs. PLoS ONE, 2021, 16, e0247684. | 1.1 | 1 |
| 21 | CpG-ODN induced antimicrobial immunity in neonatal chicks involves a substantial shift in serum metabolic profiles. Scientific Reports, 2021, 11, 9028. | 1.6 | 3 |
| 22 | A Comprehensive Targeted Metabolomics Assay for Crop Plant Sample Analysis. Metabolites, 2021, 11, 303. | 1.3 | 15 |
| 23 | CyProduct: A Software Tool for Accurately Predicting the Byproducts of Human Cytochrome P450 Metabolism. Journal of Chemical Information and Modeling, 2021, 61, 3128-3140. | 2.5 | 14 |
| 24 | Chemical language models enable navigation in sparsely populated chemical space. Nature Machine Intelligence, 2021, 3, 759-770. | 8.3 | 48 |
| 25 | Targeted metabolomics identifies high performing diagnostic and prognostic biomarkers for COVID-19. Scientific Reports, 2021, 11, 14732. | 1.6 | 41 |
| 26 | A Cross-Platform Metabolomics Comparison Identifies Serum Metabolite Signatures of Liver Fibrosis Progression in Chronic Hepatitis C Patients. Frontiers in Molecular Biosciences, 2021, 8, 676349. | 1.6 | 11 |
| 27 | Immunometabolic signatures predict risk of progression to sepsis in COVID-19. PLoS ONE, 2021, 16, e0256784. | 1.1 | 22 |
| 28 | CFM-ID 4.0: More Accurate ESI-MS/MS Spectral Prediction and Compound Identification. Analytical Chemistry, 2021, 93, 11692-11700. | 3.2 | 151 |
| 29 | Mice Treated Subcutaneously with Mouse LPS-Converted PrPres or LPS Alone Showed Brain Gene Expression Profiles Characteristic of Prion Disease. Veterinary Sciences, 2021, 8, 200. | 0.6 | 1 |
| 30 | A Targeted Serum Metabolomics GC-MS Approach Identifies Predictive Blood Biomarkers for Retained Placenta in Holstein Dairy Cows. Metabolites, 2021, 11, 633. | 1.3 | 5 |
| 31 | A longitudinal dataset of incidence and intervention policy impacts regarding the COVID-19 pandemic in Canadian provinces. Data in Brief, 2021, 38, 107381. | 0.5 | 2 |
| 32 | A Multi-Platform Metabolomics Approach Identifies Urinary Metabolite Signatures That Differentiate Ketotic From Healthy Dairy Cows. Frontiers in Veterinary Science, 2021, 8, 595983. | 0.9 | 12 |
| 33 | Exploring Biological Impacts of Prenatal Nutrition and Selection for Residual Feed Intake on Beef Cattle Using Omics Technologies: A Review. Frontiers in Genetics, 2021, 12, 720268. | 1.1 | 2 |
| 34 | A deep generative model enables automated structure elucidation of novel psychoactive substances. Nature Machine Intelligence, 2021, 3, 973-984. | 8.3 | 28 |
| 35 | A Canadian Study of Cisplatin Metabolomics and Nephrotoxicity (ACCENT): A Clinical Research Protocol. Canadian Journal of Kidney Health and Disease, 2021, 8, 205435812110577. | 0.6 | 1 |
| 36 | Perspective: Dietary Biomarkers of Intake and Exposureâ€”Exploration with Omics Approaches. Advances in Nutrition, 2020, 11, 200-215. | 2.9 | 79 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | PathBank: a comprehensive pathway database for model organisms. <i>Nucleic Acids Research</i> , 2020, 48, D470-D478. | 6.5 | 83 |
| 38 | Serum metabolic fingerprinting of pre-lameness dairy cows by GC-MS reveals typical profiles that can identify susceptible cows. <i>Journal of Proteomics</i> , 2020, 213, 103620. | 1.2 | 8 |
| 39 | Mass-spec-based urinary metabotyping around parturition identifies screening biomarkers for subclinical mastitis in dairy cows. <i>Research in Veterinary Science</i> , 2020, 129, 39-52. | 0.9 | 12 |
| 40 | Gut Microenvironment and Bacterial Invasion in Paediatric Inflammatory Bowel Diseases. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , 2020, 71, 624-632. | 0.9 | 12 |
| 41 | Workshop report: Toward the development of a human whole stool reference material for metabolomic and metagenomic gut microbiome measurements. <i>Metabolomics</i> , 2020, 16, 119. | 1.4 | 12 |
| 42 | Serum Metabolite Biomarkers for Predicting Residual Feed Intake (RFI) of Young Angus Bulls. <i>Metabolites</i> , 2020, 10, 491. | 1.3 | 18 |
| 43 | Excretory/Secretory Metabolome of the Zoonotic Roundworm Parasite <i>Toxocara canis</i> . <i>Biomolecules</i> , 2020, 10, 1157. | 1.8 | 12 |
| 44 | Metabolomics Profiling of Critically Ill Coronavirus Disease 2019 Patients: Identification of Diagnostic and Prognostic Biomarkers. , 2020, 2, e0272. | | 92 |
| 45 | Candidate serum metabolite biomarkers of residual feed intake and carcass merit in sheep. <i>Journal of Animal Science</i> , 2020, 98, . | 0.2 | 19 |
| 46 | Urinary Metabolomics around Parturition Identifies Metabolite Alterations in Dairy Cows Affected Postpartum by Lameness: Preliminary Study. <i>Dairy</i> , 2020, 1, 2. | 0.7 | 9 |
| 47 | The Bovine Metabolome. <i>Metabolites</i> , 2020, 10, 233. | 1.3 | 77 |
| 48 | Serum metabolomics identifies metabolite panels that differentiate lame dairy cows from healthy ones. <i>Metabolomics</i> , 2020, 16, 73. | 1.4 | 6 |
| 49 | Effect of Diet on the Vitamin B Profile of Bovine Milk-Based Protein Ingredients. <i>Foods</i> , 2020, 9, 578. | 1.9 | 8 |
| 50 | Insights into origins and function of the unexplored majority of the reductive dehalogenase gene family as a result of genome assembly and ortholog group classification. <i>Environmental Sciences: Processes and Impacts</i> , 2020, 22, 663-678. | 1.7 | 31 |
| 51 | Milk Metabotyping Identifies Metabolite Alterations in the Whole Raw Milk of Dairy Cows with Lameness. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 4507-4514. | 2.4 | 10 |
| 52 | A High-Performing Plasma Metabolite Panel for Early-Stage Lung Cancer Detection. <i>Cancers</i> , 2020, 12, 622. | 1.7 | 37 |
| 53 | Comprehensive Targeted Metabolomic Assay for Urine Analysis. <i>Analytical Chemistry</i> , 2020, 92, 10627-10634. | 3.2 | 39 |
| 54 | FOBI: an ontology to represent food intake data and associate it with metabolomic data. <i>Database: the Journal of Biological Databases and Curation</i> , 2020, 2020, . | 1.4 | 29 |

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|----|---|------|-----------|
| 55 | Value-based healthcare delivery through metabolomics-based personalized health platform. <i>Healthcare Management Forum</i> , 2020, 33, 126-134. | 0.6 | 5 |
| 56 | The Urinary Metabolome of Healthy Newborns. <i>Metabolites</i> , 2020, 10, 165. | 1.3 | 20 |
| 57 | Targeted metabolomics highlights perturbed metabolism in the brain of autism spectrum disorder sufferers. <i>Metabolomics</i> , 2020, 16, 59. | 1.4 | 15 |
| 58 | Metabolomic Data Exploration and Analysis with the Human Metabolome Database. <i>Methods in Molecular Biology</i> , 2020, 2104, 165-184. | 0.4 | 6 |
| 59 | Metabolomics for Investigating Physiological and Pathophysiological Processes. <i>Physiological Reviews</i> , 2019, 99, 1819-1875. | 13.1 | 516 |
| 60 | Urinary Organic Acids Increase After Clinical Stabilization of Hospitalized Children With Severe Acute Malnutrition. <i>Food and Nutrition Bulletin</i> , 2019, 40, 532-543. | 0.5 | 0 |
| 61 | NMR metabolomics: A look ahead. <i>Journal of Magnetic Resonance</i> , 2019, 306, 155-161. | 1.2 | 129 |
| 62 | NMR Spectroscopy for Metabolomics Research. <i>Metabolites</i> , 2019, 9, 123. | 1.3 | 627 |
| 63 | Metabolomic profiling of the excretory and secretory products of hookworm and whipworm. <i>Metabolomics</i> , 2019, 15, 101. | 1.4 | 26 |
| 64 | Using MetaboAnalyst 4.0 for Comprehensive and Integrative Metabolomics Data Analysis. <i>Current Protocols in Bioinformatics</i> , 2019, 68, e86. | 25.8 | 1,644 |
| 65 | International Ring Trial of a High Resolution Targeted Metabolomics and Lipidomics Platform for Serum and Plasma Analysis. <i>Analytical Chemistry</i> , 2019, 91, 14407-14416. | 3.2 | 66 |
| 66 | The role of hydration effects in 5-fluorouridine binding to SOD1: insight from a new 3D-RISM-KH based protocol for including structural water in docking simulations. <i>Journal of Computer-Aided Molecular Design</i> , 2019, 33, 913-926. | 1.3 | 4 |
| 67 | Preparation and characterization of a highly soluble A ¹⁻⁴² peptide variant. <i>Protein Expression and Purification</i> , 2019, 164, 105480. | 0.6 | 5 |
| 68 | Comparison of the metabolomic profiles of irritable bowel syndrome patients with ulcerative colitis patients and healthy controls: new insights into pathophysiology and potential biomarkers. <i>Alimentary Pharmacology and Therapeutics</i> , 2019, 49, 723-732. | 1.9 | 37 |
| 69 | Transformation of polyphenols found in pigmented gluten-free flours during in vitro large intestinal fermentation. <i>Food Chemistry</i> , 2019, 298, 125068. | 4.2 | 32 |
| 70 | Protocols for NMR Analysis in Livestock Metabolomics. <i>Methods in Molecular Biology</i> , 2019, 1996, 311-324. | 0.4 | 8 |
| 71 | A fast, sensitive, single-step colorimetric dipstick assay for quantifying ascorbic acid in urine. <i>Analytical Biochemistry</i> , 2019, 580, 1-13. | 1.1 | 10 |
| 72 | CFM-ID 3.0: Significantly Improved ESI-MS/MS Prediction and Compound Identification. <i>Metabolites</i> , 2019, 9, 72. | 1.3 | 196 |

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|----|---|-----|-----------|
| 73 | Systems Biology and Multi-Omics Integration: Viewpoints from the Metabolomics Research Community. <i>Metabolites</i> , 2019, 9, 76. | 1.3 | 387 |
| 74 | Chemical Composition of Commercial Cow's Milk. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 4897-4914. | 2.4 | 139 |
| 75 | Porous Nanophotonic Optomechanical Beams for Enhanced Mass Adsorption. <i>ACS Sensors</i> , 2019, 4, 1197-1202. | 4.0 | 5 |
| 76 | Editorial: metabolomic biomarkers for colorectal adenocarcinoma and in the differentiation between irritable bowel syndrome and ulcerative colitis in clinical remission " confounded by the gut microbiome? Authors' reply. <i>Alimentary Pharmacology and Therapeutics</i> , 2019, 49, 1088-1089. | 1.9 | 0 |
| 77 | Non-invasive differentiation of non-rejection kidney injury from acute rejection in pediatric renal transplant recipients. <i>Pediatric Transplantation</i> , 2019, 23, e13364. | 0.5 | 6 |
| 78 | Solvent Composition Effects on the Structural Properties of the A ²⁴² Monomer from the 3D-RISM-KH Molecular Theory of Solvation. <i>Journal of Physical Chemistry B</i> , 2019, 123, 2491-2506. | 1.2 | 6 |
| 79 | Exposome-Explorer 2.0: an update incorporating candidate dietary biomarkers and dietary associations with cancer risk. <i>Nucleic Acids Research</i> , 2019, 48, D908-D912. | 6.5 | 31 |
| 80 | Impact of Bovine Diet on Metabolomic Profile of Skim Milk and Whey Protein Ingredients. <i>Metabolites</i> , 2019, 9, 305. | 1.3 | 20 |
| 81 | Assessing the performance of genome-wide association studies for predicting disease risk. <i>PLoS ONE</i> , 2019, 14, e0220215. | 1.1 | 43 |
| 82 | Nutrimetabolomics: An Integrative Action for Metabolomic Analyses in Human Nutritional Studies. <i>Molecular Nutrition and Food Research</i> , 2019, 63, e1800384. | 1.5 | 173 |
| 83 | Edible nuts deliver polyphenols and their transformation products to the large intestine: An in vitro fermentation model combining targeted/untargeted metabolomics. <i>Food Research International</i> , 2019, 116, 786-794. | 2.9 | 43 |
| 84 | CEU Mass Mediator 3.0: A Metabolite Annotation Tool. <i>Journal of Proteome Research</i> , 2019, 18, 797-802. | 1.8 | 104 |
| 85 | BioTransformer: a comprehensive computational tool for small molecule metabolism prediction and metabolite identification. <i>Journal of Cheminformatics</i> , 2019, 11, 2. | 2.8 | 269 |
| 86 | PHAST, PHASTER and PHASTEST: Tools for finding prophage in bacterial genomes. <i>Briefings in Bioinformatics</i> , 2019, 20, 1560-1567. | 3.2 | 151 |
| 87 | First-trimester metabolomic prediction of stillbirth. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2019, 32, 3435-3441. | 0.7 | 5 |
| 88 | Automated Tools for the Analysis of 1D-NMR and 2D-NMR Spectra. <i>Methods in Molecular Biology</i> , 2019, 2037, 429-449. | 0.4 | 9 |
| 89 | Assessing the performance of genome-wide association studies for predicting disease risk. , 2019, 14, e0220215. | | 0 |
| 90 | Assessing the performance of genome-wide association studies for predicting disease risk. , 2019, 14, e0220215. | | 0 |

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| 91 | Assessing the performance of genome-wide association studies for predicting disease risk. , 2019, 14, e0220215. | | 0 |
| 92 | Assessing the performance of genome-wide association studies for predicting disease risk. , 2019, 14, e0220215. | | 0 |
| 93 | Recommended strategies for spectral processing and post-processing of 1D 1H-NMR data of biofluids with a particular focus on urine. <i>Metabolomics</i> , 2018, 14, 31. | 1.4 | 107 |
| 94 | Guidelines for Biomarker of Food Intake Reviews (BFIRev): how to conduct an extensive literature search for biomarker of food intake discovery. <i>Genes and Nutrition</i> , 2018, 13, 3. | 1.2 | 71 |
| 95 | The role of the Human Metabolome Database in inborn errors of metabolism. <i>Journal of Inherited Metabolic Disease</i> , 2018, 41, 329-336. | 1.7 | 15 |
| 96 | DrugBank 5.0: a major update to the DrugBank database for 2018. <i>Nucleic Acids Research</i> , 2018, 46, D1074-D1082. | 6.5 | 5,428 |
| 97 | A sensitive, high-throughput LC-MS/MS method for measuring catecholamines in low volume serum. <i>Analytica Chimica Acta</i> , 2018, 1037, 159-167. | 2.6 | 49 |
| 98 | PAMDB: a comprehensive <i>Pseudomonas aeruginosa</i> metabolome database. <i>Nucleic Acids Research</i> , 2018, 46, D575-D580. | 6.5 | 45 |
| 99 | Evolution of renal function and urinary biomarker indicators of inflammation on serial kidney biopsies in pediatric kidney transplant recipients with and without rejection. <i>Pediatric Transplantation</i> , 2018, 22, e13202. | 0.5 | 15 |
| 100 | HMDB 4.0: the human metabolome database for 2018. <i>Nucleic Acids Research</i> , 2018, 46, D608-D617. | 6.5 | 2,805 |
| 101 | Unraveling the unknown areas of the human metabolome: the role of infrared ion spectroscopy. <i>Journal of Inherited Metabolic Disease</i> , 2018, 41, 367-377. | 1.7 | 44 |
| 102 | Identification of serum metabolites associated with the risk of metritis in transition dairy cows. <i>Canadian Journal of Animal Science</i> , 2018, 98, 525-537. | 0.7 | 10 |
| 103 | nmrML: A Community Supported Open Data Standard for the Description, Storage, and Exchange of NMR Data. <i>Analytical Chemistry</i> , 2018, 90, 649-656. | 3.2 | 50 |
| 104 | Rapid and reliable protein structure determination via chemical shift threading. <i>Journal of Biomolecular NMR</i> , 2018, 70, 33-51. | 1.6 | 4 |
| 105 | Metabolomic prediction of endometrial cancer. <i>Metabolomics</i> , 2018, 14, 6. | 1.4 | 24 |
| 106 | Functionalized gold nanoparticle-enhanced competitive assay for sensitive small-molecule metabolite detection using surface plasmon resonance. <i>Analyst</i> , The, 2018, 143, 289-296. | 1.7 | 36 |
| 107 | A Simple and Convenient Synthesis of Unlabeled and ¹³ C-Labeled 3-(3-Hydroxyphenyl)-3-Hydroxypropionic Acid and Its Quantification in Human Urine Samples. <i>Metabolites</i> , 2018, 8, 80. | 1.3 | 8 |
| 108 | Non-invasive Point-of-Care Device To Diagnose Acute Mesenteric Ischemia. <i>ACS Sensors</i> , 2018, 3, 2296-2302. | 4.0 | 12 |

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|-----|--|-----|-----------|
| 109 | A simple in vitro assay for assessing the efficacy, mechanisms and kinetics of anti-prion fibril compounds. <i>Prion</i> , 2018, 12, 280-300. | 0.9 | 15 |
| 110 | MetaboAnalyst 4.0: towards more transparent and integrative metabolomics analysis. <i>Nucleic Acids Research</i> , 2018, 46, W486-W494. | 6.5 | 3,199 |
| 111 | Residue-specific mobility changes in soluble oligomers of the prion protein define regions involved in aggregation. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2018, 1866, 982-988. | 1.1 | 2 |
| 112 | Growth of Malignant Non-CNS Tumors Alters Brain Metabolome. <i>Frontiers in Genetics</i> , 2018, 9, 41. | 1.1 | 2 |
| 113 | Pasture Feeding Changes the Bovine Rumen and Milk Metabolome. <i>Metabolites</i> , 2018, 8, 27. | 1.3 | 70 |
| 114 | A review on human fecal metabolomics: Methods, applications and the human fecal metabolome database. <i>Analytica Chimica Acta</i> , 2018, 1030, 1-24. | 2.6 | 187 |
| 115 | CypReact: A Software Tool for in Silico Reactant Prediction for Human Cytochrome P450 Enzymes. <i>Journal of Chemical Information and Modeling</i> , 2018, 58, 1282-1291. | 2.5 | 54 |
| 116 | Noninvasive staging of chronic kidney allograft damage using urine metabolomic profiling. <i>Pediatric Transplantation</i> , 2018, 22, e13226. | 0.5 | 13 |
| 117 | Informatics and Data Analytics to Support Exposome-Based Discovery for Public Health. <i>Annual Review of Public Health</i> , 2017, 38, 279-294. | 7.6 | 97 |
| 118 | Metabotyping reveals distinct metabolic alterations in ketotic cows and identifies early predictive serum biomarkers for the risk of disease. <i>Metabolomics</i> , 2017, 13, 1. | 1.4 | 35 |
| 119 | Improved Glucose Homeostasis in Obese Mice Treated With Resveratrol Is Associated With Alterations in the Gut Microbiome. <i>Diabetes</i> , 2017, 66, 418-425. | 0.3 | 189 |
| 120 | Urinary Metabolomics for Noninvasive Detection of Antibody-Mediated Rejection in Children After Kidney Transplantation. <i>Transplantation</i> , 2017, 101, 2553-2561. | 0.5 | 26 |
| 121 | Targeted Metabolic Profiling of Post-Mortem Brain from Infants Who Died from Sudden Infant Death Syndrome. <i>Journal of Proteome Research</i> , 2017, 16, 2587-2596. | 1.8 | 15 |
| 122 | Microbiome and metabolome modifying effects of several cardiovascular disease interventions in apo-E ^{-/-} /A ^{-/-} mice. <i>Microbiome</i> , 2017, 5, 30. | 4.9 | 83 |
| 123 | Peptide-based fluorescence biosensors for detection/measurement of nanoparticles. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 903-915. | 1.9 | 4 |
| 124 | Exposome-Explorer: a manually-curated database on biomarkers of exposure to dietary and environmental factors. <i>Nucleic Acids Research</i> , 2017, 45, D979-D984. | 6.5 | 109 |
| 125 | The compound (3-{5-[(2,5-dimethoxyphenyl)amino]-1,3,4-thiadiazolidin-2-yl}-5,8-methoxy-2H-chromen-2-one) inhibits the prion protein conversion from Pr ^{PC} to Pr ^{PSc} with lower IC ₅₀ in ScN2a cells. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 5875-5888. | 1.4 | 2 |
| 126 | Recombinant Incretin-Secreting Microbe Improves Metabolic Dysfunction in High-Fat Diet Fed Rodents. <i>Scientific Reports</i> , 2017, 7, 13523. | 1.6 | 16 |

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|-----|---|-----|-----------|
| 127 | DI/LC-MS/MS-Based Metabolic Profiling for Identification of Early Predictive Serum Biomarkers of Metritis in Transition Dairy Cows. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 8510-8521. | 2.4 | 20 |
| 128 | Unraveling the meaning of chemical shifts in protein NMR. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2017, 1865, 1564-1576. | 1.1 | 22 |
| 129 | A Web Tool for Generating High Quality Machine-readable Biological Pathways. <i>Journal of Visualized Experiments</i> , 2017, , . | 0.2 | 6 |
| 130 | Metallotyping of ketotic dairy cows reveals major alterations preceding, associating, and following the disease occurrence. <i>Metabolomics</i> , 2017, 13, 1. | 1.4 | 4 |
| 131 | Initial Structural Models of the AÎ²42 Dimer from Replica Exchange Molecular Dynamics Simulations. <i>ACS Omega</i> , 2017, 2, 7621-7636. | 1.6 | 10 |
| 132 | Combining traditional dietary assessment methods with novel metabolomics techniques: present efforts by the Food Biomarker Alliance. <i>Proceedings of the Nutrition Society</i> , 2017, 76, 619-627. | 0.4 | 93 |
| 133 | GC-MS Metabolomics Identifies Metabolite Alterations That Precede Subclinical Mastitis in the Blood of Transition Dairy Cows. <i>Journal of Proteome Research</i> , 2017, 16, 433-446. | 1.8 | 72 |
| 134 | Metabolomic determination of pathogenesis of late-onset preeclampsia. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2017, 30, 658-664. | 0.7 | 35 |
| 135 | The future of NMR-based metabolomics. <i>Current Opinion in Biotechnology</i> , 2017, 43, 34-40. | 3.3 | 651 |
| 136 | Dietary and health biomarkersâ€”time for an update. <i>Genes and Nutrition</i> , 2017, 12, 24. | 1.2 | 43 |
| 137 | A scheme for a flexible classification of dietary and health biomarkers. <i>Genes and Nutrition</i> , 2017, 12, 34. | 1.2 | 76 |
| 138 | Development and Validation of a High-Throughput Mass Spectrometry Based Urine Metabolomic Test for the Detection of Colonic Adenomatous Polyyps. <i>Metabolites</i> , 2017, 7, 32. | 1.3 | 30 |
| 139 | YMDB 2.0: a significantly expanded version of the yeast metabolome database. <i>Nucleic Acids Research</i> , 2017, 45, D440-D445. | 6.5 | 137 |
| 140 | Livestock metabolomics and the livestock metabolome: A systematic review. <i>PLoS ONE</i> , 2017, 12, e0177675. | 1.1 | 226 |
| 141 | Dietary and metabolomic determinants of relapse in ulcerative colitis patients: A pilot prospective cohort study. <i>World Journal of Gastroenterology</i> , 2017, 23, 3890. | 1.4 | 28 |
| 142 | Cancer Metabolomics and the Human Metabolome Database. <i>Metabolites</i> , 2016, 6, 10. | 1.3 | 116 |
| 143 | Current and Future Perspectives on the Structural Identification of Small Molecules in Biological Systems. <i>Metabolites</i> , 2016, 6, 46. | 1.3 | 110 |
| 144 | Inter-Laboratory Robustness of Next-Generation Bile Acid Study in Mice and Humans: International Ring Trial Involving 12 Laboratories. <i>journal of applied laboratory medicine</i> , The, 2016, 1, 129-142. | 0.6 | 30 |

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|-----|--|------|-----------|
| 145 | Computational Prediction of Electron Ionization Mass Spectra to Assist in GC/MS Compound Identification. <i>Analytical Chemistry</i> , 2016, 88, 7689-7697. | 3.2 | 109 |
| 146 | Using DrugBank for In Silico Drug Exploration and Discovery. <i>Current Protocols in Bioinformatics</i> , 2016, 54, 14.4.1-14.4.31. | 25.8 | 26 |
| 147 | Role of polysaccharide and lipid in lipopolysaccharide induced prion protein conversion. <i>Prion</i> , 2016, 10, 466-483. | 0.9 | 7 |
| 148 | Live demonstration: Portable impedance-based biosensor system for metabolomic sensing. , 2016, , . | | 0 |
| 149 | Heatmapper: web-enabled heat mapping for all. <i>Nucleic Acids Research</i> , 2016, 44, W147-W153. | 6.5 | 1,766 |
| 150 | Serum metabolomic markers for traumatic brain injury: a mouse model. <i>Metabolomics</i> , 2016, 12, 1. | 1.4 | 22 |
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