

# Guidelines and considerations for the use of system suitability samples in mass spectrometry assays applied in untargeted

Metabolomics

14, 72

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Review of recent developments in GC-MS approaches to metabolomics-based research. <i>Metabolomics</i> , 2018, 14, 152.	1.4	314
2	Impact of Blood Collection Tubes and Sample Handling Time on Serum and Plasma Metabolome and Lipidome. <i>Metabolites</i> , 2018, 8, 88.	1.3	35
3	Metabolic Footprinting of a Clear Cell Renal Cell Carcinoma <i>in Vitro</i> Model for Human Kidney Cancer Detection. <i>Journal of Proteome Research</i> , 2018, 17, 3877-3888.	1.8	19
4	Metabolomics Data Preprocessing: From Raw Data to Features for Statistical Analysis. <i>Comprehensive Analytical Chemistry</i> , 2018, , 197-225.	0.7	5
5	Introduction to the Data Analysis Relevance in the Omic Era. <i>Comprehensive Analytical Chemistry</i> , 2018, , 1-12.	0.7	1
6	Human Milk Lipidomics: Current Techniques and Methodologies. <i>Nutrients</i> , 2018, 10, 1169.	1.7	34
7	Characterizing the plasma metabolome during and following a maximal exercise cycling test. <i>Journal of Applied Physiology</i> , 2018, 125, 1193-1203.	1.2	22
8	MS-based lipidomics of human blood plasma: a community-initiated position paper to develop accepted guidelines. <i>Journal of Lipid Research</i> , 2018, 59, 2001-2017.	2.0	231
9	Non-targeted metabolomics reveals alterations in liver and plasma of gilt-head bream exposed to oxybenzone. <i>Chemosphere</i> , 2018, 211, 624-631.	4.2	39
10	Metabolomics for Investigating Physiological and Pathophysiological Processes. <i>Physiological Reviews</i> , 2019, 99, 1819-1875.	13.1	516
11	Monitoring of system conditioning after blank injections in untargeted UPLC-MS metabolomic analysis. <i>Scientific Reports</i> , 2019, 9, 9822.	1.6	26
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13	Tissue-Specific Sample Dilution: An Important Parameter to Optimise Prior to Untargeted LC-MS Metabolomics. <i>Metabolites</i> , 2019, 9, 124.	1.3	15
14	The application of artificial neural networks in metabolomics: a historical perspective. <i>Metabolomics</i> , 2019, 15, 142.	1.4	66
15	Examining the practical limits of batch effect-correction algorithms: When should you care about batch effects?. <i>Journal of Genetics and Genomics</i> , 2019, 46, 433-443.	1.7	26
16	pseudoQC: A Regression-Based Simulation Software for Correction and Normalization of Complex Metabolomics and Proteomics Datasets. <i>Proteomics</i> , 2019, 19, e1900264.	1.3	16
17	Troubleshooting in Large-Scale LC-ToF-MS Metabolomics Analysis: Solving Complex Issues in Big Cohorts. <i>Metabolites</i> , 2019, 9, 247.	1.3	13
18	A comparative evaluation of the generalised predictive ability of eight machine learning algorithms across ten clinical metabolomics data sets for binary classification. <i>Metabolomics</i> , 2019, 15, 150.	1.4	106

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20	Metabolomics using Fourier transform mass spectrometry. , 2019, , 325-356.		2
21	Metabolomics approaches for the determination of multiple contaminants in food. <i>Current Opinion in Food Science</i> , 2019, 28, 49-57.	4.1	29
22	Efficient methodology for the extraction and analysis of lipids from porcine pulmonary artery by supercritical fluid chromatography coupled to mass spectrometry. <i>Journal of Chromatography A</i> , 2019, 1592, 173-182.	1.8	13
23	Metabolomic Analysis of Defense-Related Reprogramming in <i>Sorghum bicolor</i> in Response to <i>Colletotrichum sublineolum</i> Infection Reveals a Functional Metabolic Web of Phenylpropanoid and Flavonoid Pathways. <i>Frontiers in Plant Science</i> , 2018, 9, 1840.	1.7	83
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26	Mass spectrometry-based non-targeted metabolic profiling for disease detection: Recent developments. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 118, 158-169.	5.8	28
27	Impact of sample preparation upon intracellular metabolite measurements in 3D cell culture systems. <i>Metabolomics</i> , 2019, 15, 92.	1.4	9
28	Translational Metabolomics: Current Challenges and Future Opportunities. <i>Metabolites</i> , 2019, 9, 108.	1.3	136
30	Metabolomic Strategies in Biomarker Research—New Approach for Indirect Identification of Drug Consumption and Sample Manipulation in Clinical and Forensic Toxicology?. <i>Frontiers in Chemistry</i> , 2019, 7, 319.	1.8	82
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39	Single Spheroid Metabolomics: Optimizing Sample Preparation of Three-Dimensional Multicellular Tumor Spheroids. <i>Metabolites</i> , 2019, 9, 304.	1.3	16
40	Analytical techniques for metabolomic studies: a review. <i>Bioanalysis</i> , 2019, 11, 2297-2318.	0.6	129
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51	Improving diagnosis of genitourinary cancers: Biomarker discovery strategies through mass spectrometry-based metabolomics. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 178, 112905.	1.4	13
52	Liquid chromatographic methods combined with mass spectrometry in metabolomics. , 2020, , 149-169.		2
53	Mass spectrometry metabolomic data handling for biomarker discovery. , 2020, , 369-388.		2
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81	Metabolic Phenotyping Study of Mouse Brains Following Acute or Chronic Exposures to Ethanol. <i>Journal of Proteome Research</i> , 2020, 19, 4071-4081.	1.8	11
82	Metabolic profile of fish muscle tissue changes with sampling method, storage strategy and time. <i>Analytica Chimica Acta</i> , 2020, 1136, 42-50.	2.6	14
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