

Accepted Manuscript

Title: Quality Assurance Procedures for Mass Spectrometry
Untargeted Metabolomics. A review

Authors: Danuta Dudzik, Cecilia Barbas-Bernardos, Antonia
García, Coral Barbas



PII: S0731-7085(17)31591-1
DOI: <http://dx.doi.org/doi:10.1016/j.jpba.2017.07.044>
Reference: PBA 11424

To appear in: *Journal of Pharmaceutical and Biomedical Analysis*

Please cite this article as: Danuta Dudzik, Cecilia Barbas-Bernardos, Antonia García, Coral Barbas, Quality Assurance Procedures for Mass Spectrometry Untargeted Metabolomics. A review, Journal of Pharmaceutical and Biomedical Analysis <http://dx.doi.org/10.1016/j.jpba.2017.07.044>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Quality Assurance Procedures for Mass Spectrometry Untargeted Metabolomics. A review

Authors: Danuta Dudzik*, Cecilia Barbas-Bernardos*, Antonia García, Coral Barbas**

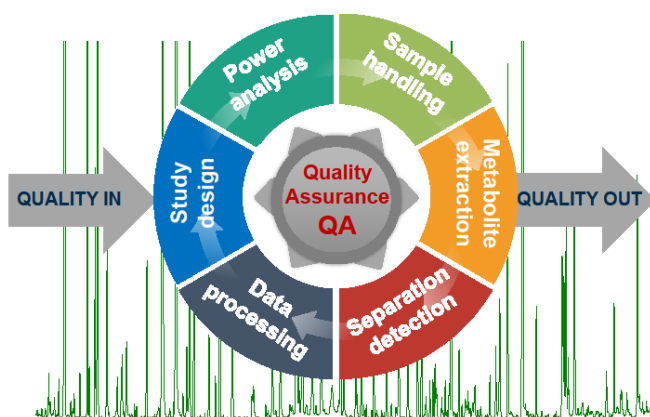
* Both authors contributed equally to this work

Center for Metabolomics and Bioanalysis (CEMBIO), Faculty of Pharmacy, San Pablo CEU University, Boadilla del Monte, ES-28668, Madrid, Spain; danuta.dudzik@ceu.es (D.D.); cec.barbas.ce@ceindo.ceu.es (C.B.-B.); antogar@ceu.es (A.G.); cbarbas@ceu.es (C.B.);

**Corresponding author:

Coral Barbas (Corresponding author):
Center for Metabolomics and Bioanalysis (CEMBIO)
Faculty of Pharmacy
San Pablo CEU University
Campus Montepíncipe
Boadilla del Monte
28668 Madrid, Spain
E-mail: cbarbas@ceu.es
Tel.: +34 913724753; fax: +34 913724712

Graphical abstract



Highlights:

- Understanding metabolomics challenges helps to control unwanted variance.
- Unwanted variation, bias and any source of possible errors should be minimized.
- Quality assurance plays the crucial role in quality of metabolomics studies.
- Standardized methods and SOPs for metabolomics are required.

Abstract

Untargeted metabolomics, as a global approach, has already proven its great potential and capabilities for the investigation of health and disease, as well as the wide applicability for other research areas.

Download English Version:

<https://daneshyari.com/en/article/7627601>

Download Persian Version:

<https://daneshyari.com/article/7627601>

[Daneshyari.com](https://daneshyari.com)