

## Accepted Manuscript

Combination of complementary data mining methods for geographical characterization of extra virgin olive oils based on mineral composition

Ana Sayago, Raúl González-Domínguez, Rafael Beltrán, Ángeles Fernández-Recamales

PII: S0308-8146(18)30633-2

DOI: <https://doi.org/10.1016/j.foodchem.2018.04.019>

Reference: FOCH 22714

To appear in: *Food Chemistry*

Received Date: 13 July 2017

Revised Date: 5 February 2018

Accepted Date: 8 April 2018

Please cite this article as: Sayago, A., González-Domínguez, R., Beltrán, R., Fernández-Recamales, A., Combination of complementary data mining methods for geographical characterization of extra virgin olive oils based on mineral composition, *Food Chemistry* (2018), doi: <https://doi.org/10.1016/j.foodchem.2018.04.019>

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.



**Combination of complementary data mining methods for geographical  
characterization of extra virgin olive oils based on mineral composition**

Ana Sayago<sup>a,b</sup>, Raúl González-Domínguez<sup>a,b,1\*</sup>, Rafael Beltrán<sup>a,b</sup>, Ángeles Fernández-  
Recamales<sup>a,b</sup>

<sup>a</sup>Department of Chemistry, Faculty of Experimental Sciences, University of Huelva.

21007, Spain. <sup>b</sup>International Campus of Excellence Ceia3, University of Huelva. 21007,

Spain. <sup>1</sup>Present address: Biomarkers & Nutrimetabolomics Laboratory, Department of  
Nutrition, Food Sciences and Gastronomy, Faculty of Pharmacy and Food Sciences,  
University of Barcelona. 08028, Spain.

**\*corresponding author:** Raúl González-Domínguez; e-mail address:

[raul.gonzalez@dqcm.uhu.es](mailto:raul.gonzalez@dqcm.uhu.es); Phone: +34 959219975; Postal address: Department of  
Chemistry, Faculty of Experimental Sciences, University of Huelva. 21007, Spain.

**e-mail addresses:** Ana Sayago: [ana.sayago@dqcm.uhu.es](mailto:ana.sayago@dqcm.uhu.es); Raúl González-Domínguez:

[raul.gonzalez@dqcm.uhu.es](mailto:raul.gonzalez@dqcm.uhu.es); Rafael Beltrán: [beltran@uhu.es](mailto:beltran@uhu.es); Ángeles Fernández-

Recamales: [recamale@uhu.es](mailto:recamale@uhu.es)

**Abbreviations.** EVOO, extra virgin olive oil; ICP-OES, inductively coupled plasma optical  
emission spectrometry; ICP-MS, inductively coupled plasma mass spectrometry; LDA,  
linear discriminant analysis; PCA, principal component analysis; PLS-DA, partial least  
squares discriminant analysis; RF, random forest; SENS, sensitivity; SPEC, specificity;  
SVM, support vector machine

Download English Version:

<https://daneshyari.com/en/article/7584860>

Download Persian Version:

<https://daneshyari.com/article/7584860>

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