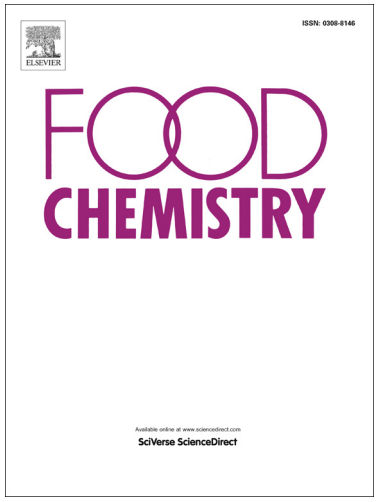

Development and validation of an UHPLC-HRMS protocol for the analysis of flavan-3-ol metabolites and catabolites in urine, plasma and feces of rats fed a red wine proanthocyanidin extract

Gema Pereira-Caro, José Luis Ordó ñez, Iziar Ludwig, Sylvie Gaillet, Pedro Mena, Daniel Del Rio, Jean-Max Rouanet, Keren A. Bindon, José Manuel Moreno-Rojas, Alan Crozier

PII: S0308-8146(18)30093-1
DOI: https://doi.org/10.1016/j.foodchem.2018.01.083
Reference: FOCH 22272

To appear in: *Food Chemistry*

Received Date: 13 November 2017
Revised Date: 9 January 2018
Accepted Date: 11 January 2018

Please cite this article as: Pereira-Caro, G., Ordó ñez, J.L., Ludwig, I., Gaillet, S., Mena, P., Del Rio, D., Rouanet, J-M., Bindon, K.A., Moreno-Rojas, J.M., Crozier, A., Development and validation of an UHPLC-HRMS protocol for the analysis of flavan-3-ol metabolites and catabolites in urine, plasma and feces of rats fed a red wine proanthocyanidin extract, *Food Chemistry* (2018), doi: https://doi.org/10.1016/j.foodchem.2018.01.083

Development and validation of an UHPLC-HRMS protocol for the analysis of flavan-3-ol metabolites and catabolites in urine, plasma and feces of rats fed a red wine proanthocyanidin extract

Gema Pereira-Caro[a‡], José Luis Ordóñez[a‡], Iziar Ludwig[b], Sylvie Gaillet[c], Pedro Mena[d], Daniel Del Rio[d], Jean-Max Rouanet[e], Keren A. Bindon[f], José Manuel Moreno-Rojas[a], and Alan Crozier[g]*

[a]*Department of Food and Health. Andalusian Institute of Agricultural and Fisheries Research and Training (IFAPA), Avenida Menendez-Pidal, SN, 14004, Córdoba, Spain.*
[b]*Department of Food and Technology, Universidad de Lleida, 25198, Lleida, Spain*
[c]*INRA, UMR 866, Muscle Dynamics and Metabolism, University of Montpellier, Montpellier, France*
[d]*Department of Food and Drugs, University of Parma, Via Volturno, 39, 43125 Parma, Italy*
[e]*Nutrition and Metabolism, UMR 204 NutriPass. University of Montpellier, Montpellier, France*
[f]*The Australian Wine Research Institute, PO. Box 197, Glen Osmond, SA, 5064, Australia*
[g]*Department of Nutrition, University of Davis, 3134 Meyer Hall, One Shields Avenue, Davis, California 95616-5270, USA*

‡ These authors contributed equally to this work.

*Corresponding author: Gema Pereira-Caro
Department of Food and Health, IFAPA-Alameda del Obipso
Avenida Menéndez-Pidal, SN, 14004, Córdoba (Spain)
E-mail: mariag.pereira@juntadeandalucia.es