

# Author's Accepted Manuscript

Exploiting the synergistic effect of concurrent data signals: low-level fusion of liquid chromatographic with dual detection data

Carla M. Teglia, Silvana M. Azcarate, Mirta R. Alcaráz, Héctor C. Goicoechea, María J. Culzoni



[www.elsevier.com/locate/talanta](http://www.elsevier.com/locate/talanta)

PII: S0039-9140(18)30447-8  
DOI: <https://doi.org/10.1016/j.talanta.2018.04.090>  
Reference: TAL18629

To appear in: *Talanta*

Received date: 6 February 2018

Revised date: 24 April 2018

Accepted date: 27 April 2018

Cite this article as: Carla M. Teglia, Silvana M. Azcarate, Mirta R. Alcaráz, Héctor C. Goicoechea and María J. Culzoni, Exploiting the synergistic effect of concurrent data signals: low-level fusion of liquid chromatographic with dual detection data, *Talanta*, <https://doi.org/10.1016/j.talanta.2018.04.090>

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 galley proof before it is published in its final citable 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.

# Exploiting the synergistic effect of concurrent data signals: low-level fusion of liquid chromatographic with dual detection data

Carla M. Teglia<sup>a,c</sup>, Silvana M. Azcarate<sup>b,c</sup>, Mirta R. Alcaráz<sup>a,c</sup>, Héctor C. Goicoechea<sup>a,c</sup>, María J. Culzoni<sup>a,c,\*</sup>

<sup>a</sup>Laboratorio de Desarrollo Analítico y Quimiometría (LADAQ), Cátedra de Química Analítica I, Facultad de Bioquímica y Ciencias Biológicas, Universidad Nacional del Litoral, Ciudad Universitaria, Santa Fe (S3000ZAA), Argentina.

<sup>b</sup>Facultad de Ciencias Exactas y Naturales, Universidad Nacional de La Pampa, and Instituto de Ciencias de la Tierra y Ambientales de La Pampa (INCITAP), Av. Uruguay 151, Santa Rosa (L6300CLB), La Pampa, Argentina.

<sup>c</sup>Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET), Godoy Cruz 2290 CABA (C1425FQB), Argentina.

\*Corresponding author: E-mail: mculzoni@fbcn.unl.edu.ar (M. J. Culzoni)

## Abstract

A low-level data fusion strategy was developed and implemented for data processing of second-order liquid chromatographic data with dual detection, i.e. absorbance and fluorescence monitoring. The synergistic effect of coupling individual information provided by two different detectors was evaluated by analyzing the results

Download English Version:

<https://daneshyari.com/en/article/7676215>

Download Persian Version:

<https://daneshyari.com/article/7676215>

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