

## Accepted Manuscript

Title: Chemometrics-assisted investigation of interactions of Tasmar with human serum albumin at a glassy carbon disk: Application to electrochemical biosensing of electro-inactive serum albumin

Authors: Ghobad Mohammadi, Elahe Faramarzi, Majid Mahmoudi, Sirous Ghobadi, Ali Reza Ghiasvand, Hector C. Goicoechea, Ali R. Jalalvand

PII: S0731-7085(18)30544-2  
DOI: <https://doi.org/10.1016/j.jpba.2018.04.021>  
Reference: PBA 11920

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

Received date: 2-3-2018  
Revised date: 8-4-2018  
Accepted date: 14-4-2018

Please cite this article as: Ghobad Mohammadi, Elahe Faramarzi, Majid Mahmoudi, Sirous Ghobadi, Ali Reza Ghiasvand, Hector C. Goicoechea, Ali R. Jalalvand, Chemometrics-assisted investigation of interactions of Tasmar with human serum albumin at a glassy carbon disk: Application to electrochemical biosensing of electro-inactive serum albumin, *Journal of Pharmaceutical and Biomedical Analysis* <https://doi.org/10.1016/j.jpba.2018.04.021>

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.



# Chemometrics-assisted investigation of interactions of Tasmar with human serum albumin at a glassy carbon disk: Application to electrochemical biosensing of electro-inactive serum albumin

Ghobad Mohammadi<sup>a</sup>, Elahe Faramarzi<sup>b</sup>, Majid Mahmoudi<sup>b</sup>, Sirous Ghobadi<sup>c</sup>, Ali Reza Ghiasvand<sup>d</sup>, Hector C. Goicoechea<sup>e</sup>, Ali R. Jalalvand<sup>b,\*</sup>

<sup>a</sup>Department of Pharmaceutics, School of Pharmacy, Kermanshah University of Medical Sciences, Kermanshah, Iran

<sup>b</sup>Research Center of Oils and Fats, Kermanshah University of Medical Sciences, Kermanshah, Iran

<sup>c</sup>Department of Biology, Faculty of Science, Razi University, Kermanshah, Iran

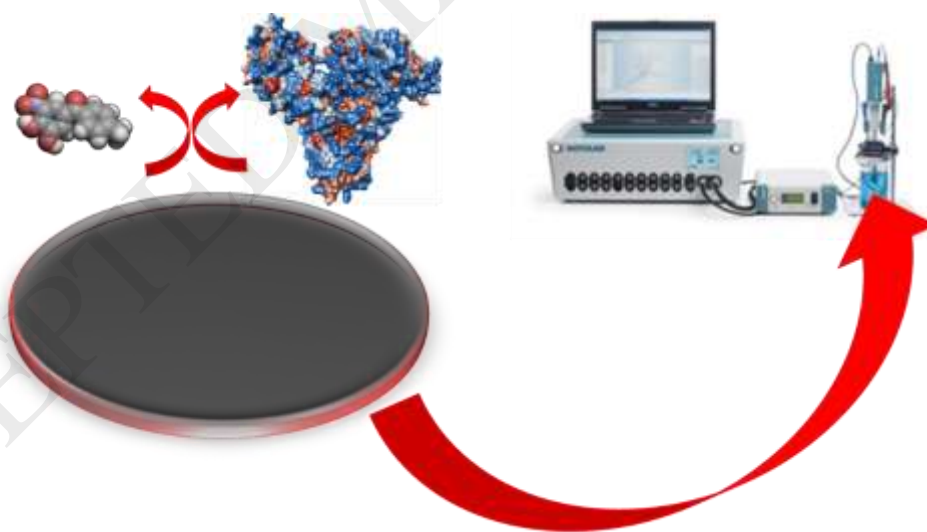
<sup>d</sup>Department of Chemistry, Lorestan University, Khoramabad, Iran

<sup>e</sup>Laboratorio de Desarrollo Analítico y Quimiometría (LADAQ), Catedra de Química Analítica I, Universidad Nacional del Litoral, Ciudad Universitaria, CC242 (S3000ZAA), Santa Fe, Argentina

\*Corresponding Author: Tel.: +988334302345, Fax: +988334279745

E-mail Address: ali.jalalvand1984@gmail.com (A.-R. Jalalvand)

## Graphical abstract



## Highlights

- ✓ Voltammetric and spectroscopic data was separately used to investigate interactions of TAS with HSA.
- ✓ Voltammetric and spectroscopic data were combined and resolved by MCR-ALS.
- ✓ Interactions of TAS with HSA were also modeled by molecular modeling methods.
- ✓ The results of experimental and theoretical sections confirmed each other.

Download English Version:

<https://daneshyari.com/en/article/7626593>

Download Persian Version:

<https://daneshyari.com/article/7626593>

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