2013

Book of Abstracts of the1st International Symposium on Profiling

2nd - 4th
September 2013
Caparica - Portugal

Book of Abstracts of the 1st International Symposium on Profiling 2013

ISPROF 2013 - 1st

Caparica - Almada, Portugal

2nd – 4th SEPTEMBER 2013

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ISPROF 2013 - 1st

Cover design: Hugo Santos

Organization of the Book of Abstracts: José Luís Capelo, Mário Diniz, Carlos Lodeiro, Hugo Santos, Elisabete Oliveira, Eduardo Araujo

ISBN: 978-989-98415-5-0 (pdf version)
ISBN: 978-989-98415-4-3 (paper version)

Printed by Proteomass (Portugal)

Printage: 200 copies (CD-ROM); 30 copies (paper)

Caparica, Portugal, 2013

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Shot-Gun Presentations

S20. Synthesis of acetylated glucuronide derivatives of *p*-hydroxybenzoic and cinnamic acids, two compounds commonly found in wild mushrooms

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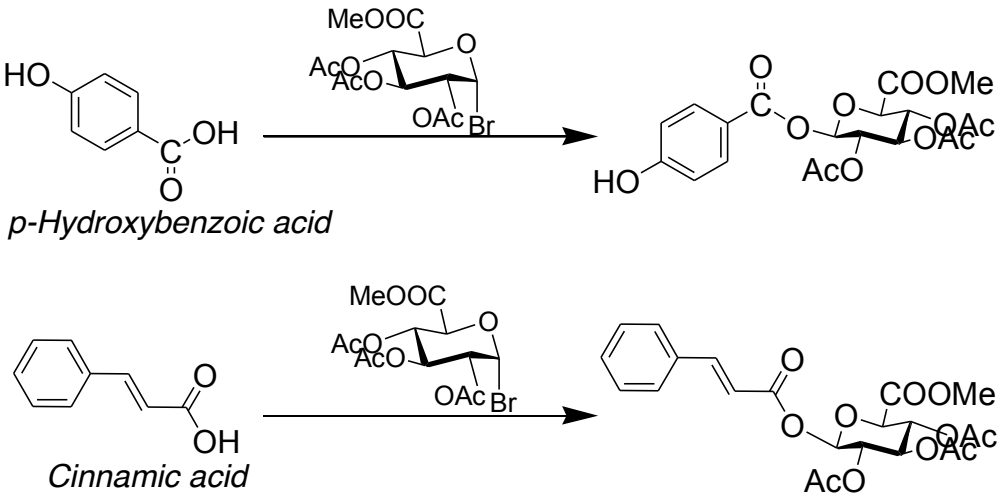
Abstract

Dietary phenolic compounds are widely considered to contribute to health benefits in humans. However, little is known about their bioactive forms *in vivo* and the mechanisms by which they may contribute toward disease prevention. Moreover, many studies on the biological effects of phenolic compounds have ignored the question of their achievable concentrations in the circulation after ingestion as well as their metabolism [1].

Wild mushrooms are extensively studied due to their medicinal properties which have been related to the presence of bioactive molecules such as phenolic compounds. *p*-Hydroxibenzoic acid is among the most abundant phenolic acids found in wild mushrooms, as well as cinnamic acid [2].

The present work aims at contributing to the knowledge of the mechanisms involved in the health-promoting properties of phenolic acids and precursors, usually present in mushrooms.

Herein, we describe the synthesis of acetylated glucuronide derivatives of *p*-hydroxybenzoic and cinnamic acids, as protected glucuronide metabolites (Scheme).



Scheme. Glucuronidation of *p*-hydroxybenzoic and cinnamic acids.

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Acknowledgements: FCT-Portugal for financial support to the Portuguese NMR network and to FCT and FEDER-COMPETE/QREN/EU for the financial support through the research project (PTDC/AGR-ALI/110062/2009), research centres (PEst-C/QUI/UI0686/2011 and PEst-OE/AGR/UI0690/2011) and through the PhD grant attributed to S.A.H. (SFRH/BD/70304/2010).