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Book of Abstracts of the 1st International Symposium on Profiling

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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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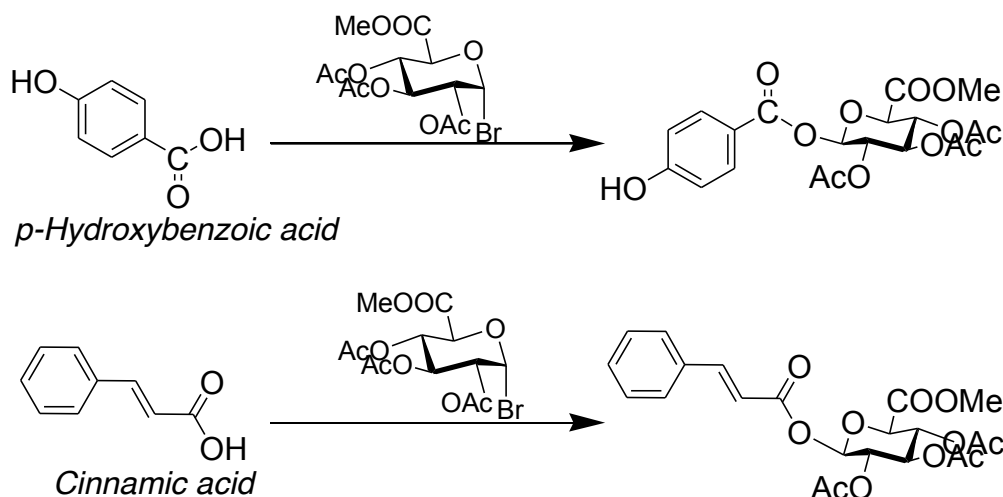
Abstract

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*-Hydroxybenzoic 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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