

Semi-Synthesis of (-)-Palitantin Derivatives for Bioassay Testing

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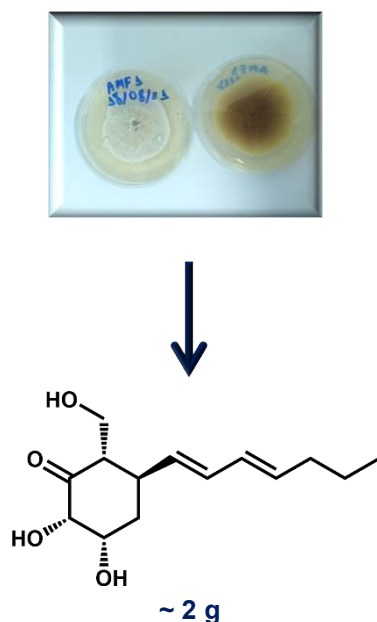
Highlights

A fungal strain *Geomyces* sp. produces large amounts of (-)-palitantin, a multi-functionalized bioactive natural product. To explore its biological activities, new nitrogenated derivatives were prepared.

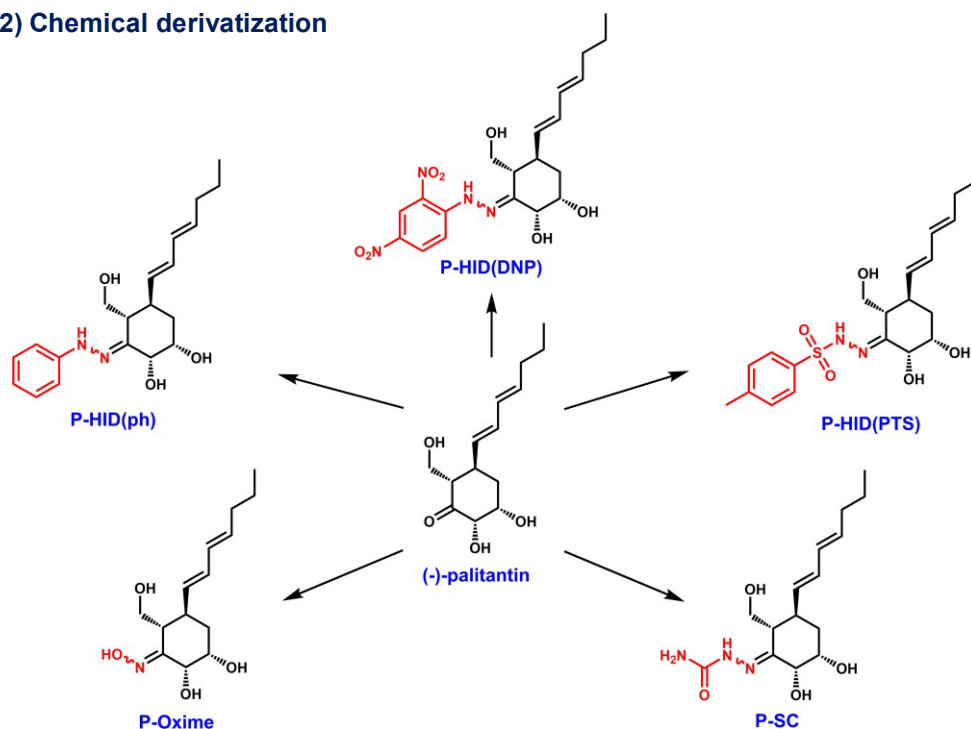
Resumo/Abstract

The derivatization of bioactive natural products aiming to explore and/or to improve their biological activities is currently a subject of much interest. This work reports the isolation and characterization of (-)-palitantin from culture media produced by *Geomyces* sp., in a yield of 200 mg/L. Subsequently, we have been able to prepare three hydrazones, an oxime and a semicarbazone derivatives. The compounds were completely identified by HPLC-PDA-MS and NMR spectroscopy and will be sent to biological assays.

1) NP isolation



2) Chemical derivatization



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