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10.13 Secondary metabolism

This chapter aims to report the efforts of the scientific discoveries and developments of new antifungal flavonoid molecules and also to understand the flavonoids chemistry. An overview of the recent papers on the antifungal activity of flavonoids which represent a potential alternative to conventional fungicides is presented.

Pharmacology - Chapter 11; Antifungal Agents/Topical ...

Chapter 11 (Page no: 165) Recent and future discoveries of pharmacologically active metabolites from tropical fungi. This article focuses on the identification of pharmacologically active metabolites from tropical fungi that can be used as antiviral, antifungal and antiprotozoal agents, insecticides, and insulin mimetics.

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It is divided in four parts: Part I examines the global distribution of plant-derived antifungal compounds, Part II deals with antifungal activities of plant metabolites, Part III includes plants used in Ayurveda and traditional systems for treating fungal diseases, and Part IV discusses the use of plant-derived products to protect plants against fungal diseases.

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Recent and future discoveries of pharmacologically active ...

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11.1.2. Fungal secondary metabolites. Fungi have the potential to synthesize a wide array of secondary metabolites, which helps them to survive in harsh conditions. These secondary metabolites, released as defense and survival mechanisms, are beneficial as well as harmful.

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10.13 Secondary metabolism

On the basis of the results from in vitro studies, either the combination of extracellular hydrolytic enzymes and secondary antifungal metabolite(s) or the secondary antifungal metabolite(s) alone can be assumed to play a major role in the inhibition of fungal growth. To clarify this assumption, the exponential and stationary culture filtrates were treated by heating at 100 °C for 45 min or with proteinase K at 37 °C for 60 min before testing of antifungal bioassay.

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