

Ebook free Chapter 11 antifungal metabolites from medicinal plants (Download Only)

key points bioactive plant secondary metabolites are important for current and future use in medicine in vitro production is a sustainable alternative to extraction from plants or costly chemical synthesis current research addresses plant cell and tissue culture metabolic engineering and heterologous production graphical abstract research suggests that medicinal plants produce a wide range of secondary metabolites with medicinal properties from various sources these complex metabolites form intricate metabolic networks and function through different cellular and molecular mechanisms in specific environments research have shown that bioactive secondary metabolites from endophytic fungi have unexpected medicinal potential moreover there are complex interactions between endophytic fungi and their host plants which may explain the fact that endophytes can produce plant derived bioactive compounds medicinal plants are known to produce a wide range of specialized metabolites classified into terpenoids alkaloids and phenylpropanoids according to their chemical structure and biosynthetic pathways figures 1 2 which have been extensively studied for their therapeutic properties shi et al 2021a zheng et al 2023 figure 1 the use of plant metabolites started as far back as 2600 bc and in the following 4000 years secondary metabolites originating from plants were used mainly for medicinal and poison purposes as well as food 3 citations abstract medicinal plants are the abundant source of varied secondary metabolites with important therapeutic properties these plants and their extracts have been the basis of several traditional medicines and their usage and demand has grown ever since abstract plants are an essential source for discovering novel medical compounds for drug development and secondary metabolites are sources of medicines from plants secondary metabolites include alkaloids flavonoids terpenoids tannins coumarins quinones carotenoids and steroids open access highlights secondary metabolites from *alternaria* sp possess a worthy anti oxidant activity anti microbial activity against the bacterial pathogens and potent cytotoxicity against a549 mcf 7 and huh 7 cell lines this proves the correlation that the presence of phytochemicals is directly proportional to the bioactivity potential usage of metabolomics in medicinal plant science the challenges in medicinal plant metabolomics studies precautions and tips from sample collection to preparation and analysis to metabolite annotation comparison of gc ms and lc ms based metabolomics analysis for plants this research topic aims to gain novel insight into the new technologies analytical methods for phytochemical analysis new metabolites with significant biological activity efficient isolation methods and the structural modifications total semi synthesis activity evaluation and biosynthesis pathways of plant derived metabolites it explores trends in growth characterization properties and applications of nanoparticles from secondary metabolites including terpenoids alkaloids flavonoids and phenolic compounds it also explains the opportunities and future challenges of secondary metabolites in nanoparticle synthesis metabolite an overview sciencedirect topics chapters and articles chemical microbiology part a xinglin yang howard c hang in methods in enzymology 2022 6 summary and outlook metabolites from the microbiota can directly regulate pathogen virulence via diverse mechanisms it is a species of great ornamental value and potential medicinal value however little has been reported on the metabolites of *c. tuberculata* seeds a total of 1611 metabolites were diosgenin dg is a bioactive metabolite isolated from *dioscorea* species renowned for its medicinal properties brassinosteroids brs are a class of crucial plant steroidal hormones brassinosteroids brs are a class of crucial plant steroidal hormones fungal endophytes produce secondary metabolites that include alkaloids flavonoids glycosides phenols and phenolic compounds steroids saponins and terpenoids which are of utmost importance in the fields of agriculture pharmaceuticals and industry the chemical structures biosynthesis and biological activities of secondary metabolites from the culinary medicinal mushrooms of the genus *hericium* a review j chin j nat med 2024 22 8 1 23 doi 10 1016 s1875 5364 24 60590 x

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