
PLENARY PRESENTATIONS

PLANT METABOLITES IN THE DEVELOPMENT OF THERAPEUTIC AGENTS

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Plant metabolites serve as a vital resource for the development of new therapeutic agents and drugs. Their ready availability, inherent biological activity, susceptibility to chemical modification, and low toxicity make these compounds highly attractive starting molecules in medicinal chemistry.

At the Department of Medicinal Chemistry of the Novosibirsk Institute of Organic Chemistry, monoterpenoids are widely used in the synthesis of antiviral agents and promising analgesics, while sesquiterpenoids have been employed to synthesize bioactive compounds resembling those found in ginseng.

Extensive research has been conducted on the modification of triterpenoids, resulting in a diverse array of interesting derivatives.

Phenolic derivatives—secondary metabolites found in various lichens—exhibit a broad spectrum of inherent biological activity; their derivatives have proven to be effective anti-tuberculosis agents and potent inhibitors of cellular DNA repair enzymes.

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