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most of the known functions of alkaloids are related to protection for example aporphine alkaloid liriodenine produced by the tulip tree protects it from parasitic mushrooms in addition the presence of alkaloids in the plant prevents insects and chordate animals from eating it alkaloid any of a class of naturally occurring organic nitrogen containing bases alkaloids have diverse and important physiological effects on humans and other animals well known alkaloids include morphine strychnine quinine ephedrine and nicotine alkaloids play an essential role in both human medicine and in an organism's natural defence alkaloids make up approximately 20% of the known secondary metabolites found in plants 13 in plants alkaloids protect plants from predators and regulate their growth 14 an overview is presented of the well established role of alkaloids in drug discovery the application of more sustainable chemicals and biological approaches and the implementation of information systems to address the current challenges faced in meeting global disease needs alkaloids are compounds that can be found in plants fungi bacteria and animals their function in plants is not entirely understood but it is highly related to seed formation and protection against predators alkaloids are amines so their names usually end in -ine e.g. caffeine nicotine morphine quinine most have complex chemical structures of multiple ring systems they have diverse important physiological effects on humans and other animals but their functions in the plants that produce them are poorly understood alkaloids are one of the largest groups of plant secondary metabolites being present in several economically relevant plant families alkaloids encompass neuroactive molecules such as caffeine and nicotine as well as life saving medicines including emetine used to treat malaria alkaloids can be derived from several biosynthetic pathways such as the shikimate pathway the ornithine lysine and nicotinic acid pathway the histidine and purine pathway and the terpenoid pathway in the public popular literature alkaloids are defined as any of numerous usually colorless complex and bitter organic bases such as morphine or caffeine containing nitrogen and usually oxygen that occur especially in seed plants and are typically physiologically active 1 alkaloids are a group of naturally occurring chemical compounds that contain mostly basic nitrogen atoms some related compounds with neutral or even weakly acidic properties also belong to this group 34 alkaloids are defined as a group of naturally occurring chemical compounds that mostly contain basic nitrogen atoms 1 alkaloid molecules are extremely important for biomedical science alkaloids are a type of secondary metabolites that can be found in different parts of plants this group of compounds is diverse and can be divided into nine subgroups pyridine tropane isoquinoline phenanthrene phenylethylamine indole purine imidazole and terpenoids alkaloids are groups of naturally occurring simple or complex low molecular weight nitrogen containing compounds which are basic in nature they are secondary metabolites abundantly found in plants but also to a lesser extent in microorganisms bacteria and fungi and animals 2 alkaloids have always attracted scientific interest due to either their positive or negative effects on human beings this review aims to summarize their antioxidant effects by both classical in vitro scavenging assay and at the cellular level most plant alkaloids are tertiary amines others contain primary secondary or quaternary nitrogen figures 1-4 the basicity of individual alkaloids varies considerably depending on which of the four types is represented an alkaloid is a naturally occurring nitrogenous organic molecule that has a pharmacological effect on humans and other animals the name derives from the word alkaline originally the term was used to describe any nitrogen containing base an amine in modern terms organic chemistry alkaloids article pdf available a review on the alkaloids an important therapeutic compound from plants september 2017 3 2 1 9 authors arpita roy sharda university the alkaloids identified from dendrobium plants could be divided into five categories based on their chemical structures including sesquiterpenoid alkaloids indolizidine alkaloids pyrrolidine alkaloids phthalide alkaloids and imidazole alkaloids song et al 2022b seven alkaloids were separated and identified from *D. officinale* which were mainly classified into five types tropane alkaloids tetrahydroisoquinoline alkaloids quinolizidine alkaloids piperidine alkaloids and spermidine alkaloids abstract alkaloids are plant secondary metabolites they are well known nitrogen containing natural bioactive compounds cutting edge research is going on alkaloids to unravel novel therapeutic approaches literature reveals that alkaloids contribute multiple biological activities and some alkaloids transform into active metabolites too

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