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Drug Discovery in the Treatment of Microbial and Parasitic Diseases

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Message from the Guest Editors

At present, a wide range of active chemical substances developed for drug synthesis originate from plants. Generally, nanoparticles are prepared through a variety of chemical and physical methods which are expensive and potentially hazardous to the environment. Recently, plant-mediated synthesis of nanoparticles, also called "green synthesis", has developed into a new and important branch of nanotechnology, gaining importance because it is environmentally friendly and cost-effective, with lesser toxicity compared to chemical hazards.

Today, despite the wide range of commonly used medicinal plants (alone or in green synthesis of nanoparticles) with antiviral, antibacterial, fungicidal, antiparasitic, and insecticide activity which have been used in traditional and modern medicine, some have not yet been described, and their antimicrobial activities remain to be discovered. Therefore, this Special Issue will gather relevant papers reporting recent advances in the antimicrobial effects of medicinal plants and plant-mediated nanoparticle research, from basic to clinical studies.