Special Issue

Drug Discovery in the Treatment of Microbial and Parasitic Diseases

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 vet 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 plantmediated nanoparticle research, from basic to clinical studies.

Guest Editors

Dr. Hossein Mahmoudvand

Razi Herbal Medicines, Lorestan University of Medical Sciences, Khorramabad, Iran

Dr. Javad Ghasemian Yadegari

Department of Pharmacognosy, Lorestan University of Medical Sciences, Khorramabad, Iran

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Editor-in-Chief

Prof. Dr. John Frean

Pathologist, Parasitology Reference Laboratory, Centre for Emerging Zoonotic and Parasitic Diseases, National Institute for Communicable Diseases, University of the Witwatersrand, Johannesburg 2192, South Africa

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