

Phytochemical investigation of selected Lamiaceae plant species from Western Ghats for their therapeutic potential

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Family Lamiaceae is represented in India by 64 genera and 340 species of which 18 % are endemic. Many Lamiaceae plant species such as basil (*Ocimum*), Lavender (*Lavandula*), Mint (*Mentha*), Oregano (*Origanum*), Patchouli (*Pogostemon*), Rosemary (*Rosmarinus*) and Thyme (*Thymus*) have been used in different Traditional Systems of Medicines, used commercially and also studied Phytochemically and Pharmacologically. Yet there are quite a few species which are either underexplored or unexplored phytochemically and also for their different pharmacological activities. Phytochemically and pharmacological studies of such plants have tremendous potential to yield novel bioactive molecules. These can be taken up for the development of Phyto-products. Investigation of selected Lamiaceae species from the Western Ghats which has lead to the isolation of a number of novel and also known molecules which will be presented. Some of these molecules have represented biological activities such as anti-mycobacterial, cytotoxic, mosquito control (larvicidal and repellent).

Biography

Roshan R. Kulkarni has completed his Ph.D. in Natural Product Chemistry from CSIR-National Chemical Laboratory and currently working as Research Associate at NCL. He has 15 research publications in reputed journals and 6 international patents in the same area. His recent interests are phytochemistry, biologically active molecules, process development for commercially important natural products and Phyto-Drug Technology and Botanical Pest Control Agents.