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Phytochemical screening, isolation and structure determination of anti-oxidant and antibacterial compounds from *Thymus serpyllum*

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Plants are an essential part of human life since the civilization started. Medicinal plants are the boon of nature to cure a number of diseases of human beings. In many parts of the world medicinal plants are used against bacterial, viral and fungal infections. Evaluation of plants bearing efficiency in healing various diseases is growing in recent years. A large number of biologically active compounds of plants are found to possess antibacterial properties. Practitioners of Ayurveda and Unani system of medicine regularly employ a large number of Indian medicinal plants as antibiotic agents and over the last 40 years, intensive efforts have been made to discover clinically used herbal antibacterial and antifungal drugs. The genus *Thymus* L. belongs to the family Lamiaceae and consists of about 215 to 350 species, according to different literature data thyme oil is among the world's top 10 essential oils also used as a preservative for food. The *Thymus* species have aromatic and medicinal properties that have made it one of the most popular herbs among all medicinal plants. The medicinal importance and bioactivity of *Thymus serpyllum* prompted us to carry out phytochemical investigations on this species.

Biography

Ashfaq Ahmad Khan has completed his PhD in 2014 from University of Peshawar, Pakistan. He has worked at the Strathclyde Institute of Pharmacy and Biomedical Sciences (SIPBS) for six months at UK and also worked for one year with in CIBCAS China. As a Doctoral Fellow at University of Peshawar, he focused on the development of skills and expertise used for the isolation, derivatization and spectral interpretation of secondary metabolites.

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