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## Microwave assisted extraction, isolation and characterization of secondary metabolite from *Eulophia Ochreata* Lindl.

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Medicinal herbs are the local heritage with global importance. During ethnobotanical survey in Maval district near bhimashankar area of Maharashtra, we came across the interesting plant *E. ochreata*. The tubers are used in cough, cold and heart troubles. Tribals have been using tubers as a general tonic and as rejuvenator since long. On the basis of these prominent uses of *E. ochreata*, tubers were used for extraction, isolation and characterisation of active constituents. The solvents play a major role and constitute the backbone of the traditional medicine. Microwave extraction can be the better alternative to conventional extraction. An attempt has been made to make use of microwave for extraction of *Eulophia ochreata* Lindl and compared with conventional method. The parameters selected for comparison were time required and % yield. The results were found to be encouraging to conduct further studies. In recent years, the use of microwave for extraction of active constituents from plant has shown tremendous research interest and potential. The phytochemical tests have been performed to identify the secondary metabolites. Mobile phase was develop to separate the constituents on TLC plates. Isolation of these secondary metabolites like flavonids, and tannins were done by using different methods like preparative TLC and column chromatography. Characterisation of active metabolites will confirm the flavoind as quercetin and tannin as gallic acid by UV, GCMS and NMR. In future, the compounds will be tested for antiarthritic acitivity and according to the literature they are immunomodulatory, also be tested for anti-HIV activitry.

## Biography

Akshada A. Koparde has registered for Ph.D. in 2011 from Shivaji University, Kolhapur under the guide Dr. C. S. Magdum who has completed Ph.D. from Mumbai University in 1999. He is the principal of R. C. P., Kasegaon. He has published more than 25 papers in reputed journals and has been serving as an chair member of Kasegaon Education Society.