

# 6<sup>th</sup> Asia-Pacific Pharma Congress

July 11-13, 2016 Kuala Lumpur, Malaysia

## Microwave assisted synthesis and characterization of pyrazoline derivatives from chalcones and (4-fluorophenylthio) acetic acid hydrazide

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Pyrazolines are well known important bioorganic molecules. Some new pyrazolines were synthesized by the cyclocondensation of chalcones derived from substituted acetophenone and substituted benzaldehyde with (4-fluorophenylthio) acetic acid hydrazide. Cyclocondensation was carried out by refluxing glacial acetic acid solution of reactants with a catalytic amount of polyphosphoric acid and also by subjecting the same reaction mixture to MWI. Both the reactions gave the same products with a yield of 65-70%. MWI required lesser reaction time for the completion of the reaction. Products synthesized were characterized by spectral data.

### Biography

R M Ezhilarasi is an Associate Professor in the Department of Chemistry, Guru Nanak College, Chennai, India. Her field of research is synthetic organic chemistry. She teaches graduate and post graduate students and guided a number of students in their projects. She is the co-author of the book 'A Simple Approach to Group Theory in Chemistry'. S Mahalakshmi is Associate Professor and Head, Department of Chemistry, Pachaiyappa's College, Chennai. She has more than 30 years of teaching under graduate and post graduate students and research experience. Her field of research is organic chemistry. She has guided many students for the award of M.Phil. and PhD.

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