Microwave-Assisted Synthesis of Novel Spirochromanone–Aurone Hybrids and Their Antimicrobial Activity[1]

N. Ramana Kishore[a], D. Ashok[b]*, M. Sarasija[c], and N. Y. S. Murthy[d]

[a] *Vishnu Chemicals Ltd., Jeedimetla, Hyderabad, Telangana, 500055 India*

[b] *Green and Medicinal Chemistry Laboratory, Department of Chemistry, Osmania University, Hyderabad, Telangana, 500007 India*
**e-mail: ashokdou@gmail.com*

[c] *Department of Chemistry, Satavahana University, Karimnagar, 505002 India*

[d] *Department of Chemistry, Anurag group of Institutions, Hyderabad, Telangana, 500088 India*

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Abstract—New chromanone and aurone hybrids have been synthesized by conventional and microwave induced methods from substituted (*E*)-7-hydroxy-6-[3-(*p*-tolyl)acryloyl]spiro[chroman-2,1'-cyclohexan]-4-one with high yields. Structures of the synthesized compounds have been elucidated from IR, ^{1}H and ^{13}C NMR, and mass spectra. All newly synthesized compounds were tested *in vitro* for their antimicrobial activity. Methoxy-substituted spirochromanones revealed the best antimicrobial profile.

Keywords: spiro chromanones, chalcones, aurones, antimicrobial activity
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