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Synthesis, characterization and in vitro antimicrobial activity of carboxamides

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Abstract: A series of new carboxamides: (R)-(3,4-dioxocyclobut-1-en-1-yl)-N-phenylpiperidine-3-carboxamide derivatives were synthesized. The characterization of synthesized compounds was done by IR, 1H NMR, mass spectroscopy and LC-MS. All these synthesized compounds were tested for in vitro antimicrobial against various bacterial and fungal strains in N, N-dimethyl formamide and Dimethyl sulfoxide. It is observed that almost all the compounds showed moderate antimicrobial activity and N, N-dimethyl formamide is better solvent than dimethyl sulfoxide.

Biography: Divyata Lava is Ph. D scholar in Chemistry department of Saurashtra University, Rajkot (India) under the guidance of Prof. Shipra Baluja on "Study of Physico-chemical properties of some Bioactive Heterocyclic Analogs". Simultaneously, she is working as a Lab Technician for M.Sc. Chemistry in the Department. At the age of 27, she has 8 published research papers in her name in National and International journals. She has industrial experience of about two years in Oceanic Foods Pvt. Ltd. Jamnagar and Piramal Pharma Solutions, Ahmedabad.

Publications:

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