



International Journal of ChemTech Research

CODEN (USA): IJCRGG, ISSN: 0974-4290, ISSN(Online):2455-9555 Vol.13 No.01, pp 38-47, **2020**

Synthesis and Evaluation of Antipsychotic and Anticonvulsant Activity of Indol-5-YL and Benzoxazepin-4-YL Carbazoles

Archana^{1*} and Anandveer Sindhu¹

¹Medicinal Chemistry Laboratory, Department of Chemistry, Meerut College, Meerut-250001,U.P., India.

Abstract: Various1-(substituted indolylidenylchalconyl) carbazole(**2a-2b**), 1-[2⁻(5⁻substituted indolyl)-1⁻, 5⁻benzoxazepinyl]-carbazoles(**3a-3b**) and 1-[2⁻(5⁻substituted indolyl)-3⁻(2⁻)-substituted indolyl)-3⁻(2⁻)-substituted amino)-methyl-1⁻, 5⁻benzoxazepinyl]-carbazoles(**4a-4n**) have been synthesized according to scheme -1. These compounds were screened for antipsychotic and anticonvulsant activity as well as for acute toxicity. Compound **4d**I.E. 1-[2⁻(5⁻)-methoxy indolyl)-3⁻(2⁻)-dichlorophenyl amino)-methyl-1⁻, 5⁻-benzoxazepinyl]-carbazoles showed most promising antipsyctotic and anticonvulsant activity with ALD₅₀greaterthan 2000 mg/kg i.p. The structures of all the newly synthesized compounds were confirmed by elemental (C, H, N) and spectral (IR, ¹H-NMR and mass) analysis.

Keywords: Indol-5-yl benzoxazepin-4-yl carbazoles, Antipsychotic activity, anticonvulsant activity, acute toxicity.

Archana et al / International Journal of ChemTech Research, 2020,13(1): 38-47.

DOI= http://dx.doi.org/10.20902/IJCTR.2019.130105
