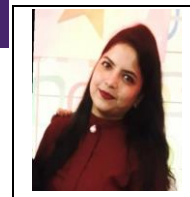
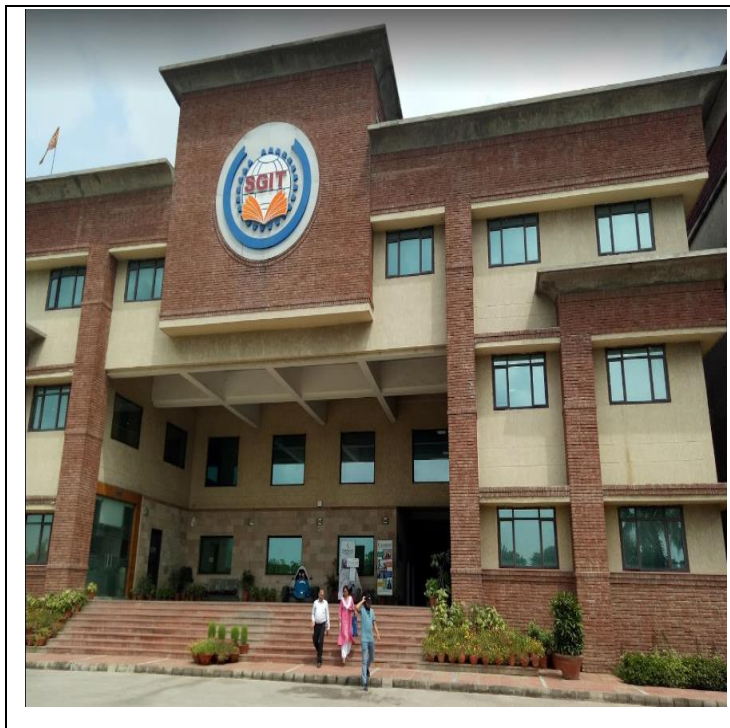


**Antiepileptic activity of Rubiadin isolated from the roots of *Rubia cordifolia* Linn. And Neurotransmitter assay in brain homogenate in mice.****Anuradha Verma,**

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**ABSTRACT:**

Herbs have a vital role in the prevention and treatment of convulsion. The phytochemical exploration of these herbs has contributed to some extent in this race for the discovery of new antiepileptic drugs (AED). In recent years owing to the fear of side effects people prefer more and more use of natural plant products for convulsions. In the present research Rubiadin was isolated using column chromatography from roots of *Rubia cordifolia*. Rubiadin was also analysed by spectroscopic methods like UV, IR, NMR and Mass. For antiepileptic effect the isolated Rubiadin suspension as well as whole extract of *Rubia cordifolia* was studied for Pentylene tetrazole (PTZ) & Maximal electro shock (MES) model in Albino mice. Epileptic seizure were induced in mice of either sex and the challenged animals treated with Whole *Rubia cordifolia* root extract & isolated Rubiadin suspension at two doses 100 mg & 250 mg respectively. Rubiadin suspension 250 mg was able to delay PTZ-induced seizures and it is probable that it may be interfering with GABAergic mechanism to exert its effect. In the present work the results show minimal alteration in the level of GABA. The isolated Rubiadin suspension at 250 mg dose showed significant reduction in MES and PTZ induced epileptic seizure which is compared with whole-plant extract in mice.

**Key words:** Rubia cordifolia, Rubiadin, epilepsy, antiepileptic activity**Biography:**

Mrs Anuradha Verma has submitted her PhD at the age of 40 years at IFTM University. She is the Associate Professor at Sanskar College of Pharmacy & Research, Ghaziabad, UP, a premier organization. She has published more than 5 papers in reputed journals and has been serving as an editorial board member of repute.

**Publication:**

1. Effect of interactions amongst heavy metals on primary production.
2. Copper toxicity to plankton.
3. Effect of heavy metals on the productivity of a freshwater pond.
4. Nanostructured Ni:BiVO<sub>4</sub> photoanode in photoelectrochemical water splitting for hydrogen generation.
5. Photoelectrochemical water splitting with 600 keV N<sub>2</sub><sup>+</sup> ion irradiated BiVO<sub>4</sub> and BiVO<sub>4</sub>/Au photoanodes.

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