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**Synthesis, photophysical and biological studies towards highly condensed pyrrole fused compounds****Shubhankar Samanta**

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Pyrrole fused heterocyclic and carbocyclic compound at 1,2 position have been effective today as it is the part structure of natural and unnatural compounds that exhibit a variety of biological and biomedical properties. The wide variety of pyrrole substrate isolated from natural sources exhibited remarkable biological properties such as hypolipidemic, antimicrobial, anti-inflammatory and antitumor activity. Therefore, the development of efficient synthetic path to nitrogen containing molecules is of paramount importance. Keeping these points in mind and growing need of society for new organic molecules our research oriented to create new pyrrole fused molecule which has photophysical and biological activity. In recent communication, we have successfully investigated short synthetic route of N-substituted pyrrole derivatives and their application to the healthy CHO cell line and a cancerous GL261 cell line were well studied. In continuation of the pyrrole fused heterocycles and carbocycles compound synthesis; we focused on the synthesis of pyrrole fused heterocyclic system by using very short and simple methodology and apply it to biological system.

**Biography**

Shubhankar Samanta has pursued his PhD (Organic Chemistry) from the Indian Institute of Technology, Kharagpur, India. He carried out his research work under the supervision of Dr. Jayanta Kumar Ray (Professor of Chemistry) at the Department of Chemistry, Indian Institute of Technology, Kharagpur, India.

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