

GRG TRUST RESEARCH PROJECT

Quinoline based cyclometallated Iridium (III) and Rh(III) complexes as potent anticancer agents

PI: Dr. G. Selvi

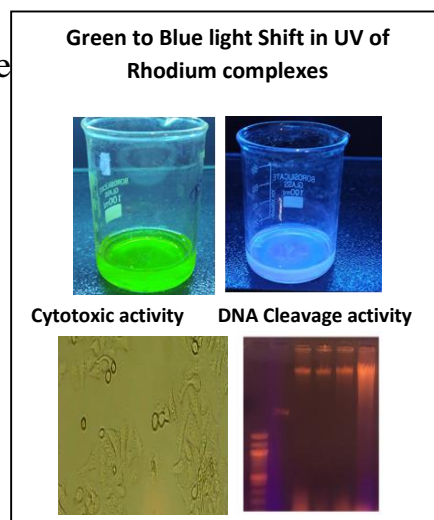
Co PI: Dr G Sathya Priyadarshini

Amount Sanctioned: Rs. 1,75,000/-

Year: 2018-2021

Project outcomes:

- Synthesised Novel quinoline conjugated Cyclometallated Rh(III) complexes -Exhibits
- Good Antioxidant activity
- Better cytotoxic against HeLA Cells, No toxicity against normal cells.
- Excellent fluorescent emitting property (OLED)



For more information, please contact: (Mail id)

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❖ Publications:

1. Evaluation of the synthesized novel Iridium (III) complexes against HeLa cell lines through in-silico , in-vitro and DNA nicking, G Sathya Priyadarshini, Aathi Muthusankar, Ramesh Subramani Selvi Gopal, **Asian Pacific Journal of Cancer Prevention**, 22(2) 2021, 447-455. (Scopus)
2. Non Linear Optical Properties of Potent Quinoline Based Schiff Bases G. Sathya Priyadarshini, Vidya Edathil, Selvi Gopal, **Materials Today: Proceedings**, 2021 <https://doi.org/10.1016/j.matpr.2020.11.91> Scopus
3. Luminescence Cobalt (II) Complexes: Synthesis, Characterization, Photophysical and DFT Study, G. Sathya Priyadarshini, Selvi Gopal, **Materials Today: Proceedings**, Volume 40, Supplement 1, 2021, Pages S19-S27, [DOI:https://doi.org/10.1016/j.matpr.2020.03.252](https://doi.org/10.1016/j.matpr.2020.03.252) Scopus

❖ Conference/ Seminar/ Workshop: 6

❖ Books: -

❖ Any other achievements: 2 Projects applied [DST SERB]