


<p>Name: Arivukkarasi.V</p> <p>Department: pharmaceutical chemistry</p> <p>Contact Address: Arivukkarasi.V</p> <p>Email ID: arivukkarasi83@gmail.com</p>	<div data-bbox="979 203 1331 439" style="border: 1px solid black; text-align: center;">  </div> <p style="text-align: center;">Recent Picture</p>
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Educational Qualification: M. Pharm (Pharmaceutical Chemistry)

Year of Registration: 2013

Project Supervisors: Dr.MJN. Chandrasekar

Research Abstract (Not more than 100 words: Please work on this space creatively to brand your Portfolio)

**DESIGN, SYNTHESIS, CHARACTERIZATION OF NOVEL CARBOLINES AS ANTINEOPLASTIC AGENT**

The knowledge about the cell cycle mechanism and pathway in cancer pathogenesis is expanding rapidly with the recent developments of novel strategies and targets like bromodomains family.  $\delta$ -carboline have never been fused with 2, 5-pyrrolidinedione or 2-pyrrolidone due to the lack of expedient methods for their synthesis. Keeping in mind the receptor inhibitory properties of carboline nucleus and cancer activity of 2-pyrrolidone, it is proposed to design and develop novel pharmacophores containing carbolines and 2-pyrrolidone scaffold. The lead from this will be further taken for the in-vitro activity. The best lead compound will be brought into light by further trials.

Fellowships: Govt/Non-Govt \_\_\_\_\_ ----NA----- \_\_\_\_\_

Awards & Scholarships (Top 5 of your achievements in short bullet points)

- Have done PG. diploma in bioinformatics
- Done oral presentation in the tittle Design synthesis and biological evaluation of carboline derivatives anti-neoplastic agents
- Done E-poster presentation in the tittle identification of a novel inhibitor for bromodomain through a receptor based drug discovery approach

Way Forward: (Drop few line (NMT 50 words) to describe where you position yourself in 5 years)

I like to position myself in teaching field and be to the best among the student