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EXPERTISE

Biochemistry/ Molecule Biology

Dr Meenakshii Nallappan is currently a senior lecturer with the Department of Biology, Faculty of Science, UPM. A biochemist by training with a keen interest in drug development has led much of her research work in the area of bioassay guided fractionation of medicinal plants. This involves the use of in vitro cell cultures and in vivo experimental animal models for efficacy testing, mechanism of action of crude plant extracts and isolated compounds, toxicological assessment and safety evaluation. Much of her work revolves on anticancer research and has also diversified over the years into testing of plant extracts in diabetic, hypertensive, hypercholesterolemic and psoriatic models.

CURRENT RESEARCH INTEREST :

- Anti-lipid related anti-obesity extracts from selected medicinal plants from *Curcuma* spp & *Zingiber* spp.
 - Antidiabetic effects of selected medicinal plants employing Type I and II Diabetic models in vitro and in vivo
 - Hypertensive investigation of selected medicinal plants employing SHR models
 - Anticholesterolemic effects of selected medicinal plants employing hypercholesterolemic animal models
 - Wound healing and skin repair of psoriatic models employing plant extracts
 - Bioassay guided fractionation of bioactive compounds of therapeutic potencies
 - Pre-clinical studies : Mechanism of action of anticancer compounds
 - Safety & Toxicity Assessment of Bioactive compounds with potential therapeutic advantages.
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LINK TO POSTGRADUATE FIELD OF STUDY:

ADDITIONAL INFORMATION: