

**NUR KARTINEE KASSIM****Ph.D. (Universiti Putra Malaysia)**

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**EXPERTISE**

Organic Chemistry, Spectroscopy, Anti Cancer, Antioxidant, Insecticide

Dr. Nur Kartinee Kassim is a senior lecturer in the Department of Chemistry, Faculty of Science, UPM. Her research interest is primarily focused on the Natural Product Chemistry, investigating the bioactive natural compounds and the applications to agriculture and medical fields. Her research works are sponsored by University Putra Grant Scheme (IPM, IPS and GPPI), Fundamental Research Grant Scheme (FRGS) and Private Grant. She has research collaboration with University of Mississippi, USA and an Industry partner. She is a committee member of Malaysia Association for Cancer Research (MARC) and a member of Royal Society of Chemistry.

**CURRENT RESEARCH INTEREST :****• Natural Product Chemistry**

Rutacea family is one of the richest sources of natural products and have been traditionally used in treating various of illnesses such as cough, fever, pain and infected wound. Presence of a number of rutaceous compounds such as coumarins, lignans, flavanoids and alkaloid in the plant extracts with wide range of biological activities is an indication that the plants can serve as an excellent pool of bioactive compounds with useful therapeutic properties includes anticancer, antimicrobial, antidiabetic and antioxidant.

**• Agriculture**

Crop insects have a destructive impact on crops and the effect often manifests as poor crop yield and heavy economic loss. The synthetic insecticides used in controlling insects pose a lot of problems. Natural insecticides offer safer and eco-friendly alternative.

**• Molecular Docking**

In collaboration with a computational chemist, the potential natural compounds are submitted to *In silico analysis* and molecular docking studies in an attempt to find the binding affinity, which could be a possible lead molecule as anticancer or antidiabetic agents.

**LINK TO POSTGRADUATE FIELD OF STUDY:**

Natural product chemistry, Material Science, Organic Chemistry

**ADDITIONAL INFORMATION:**