

**DR. NURHIDANATASHA ABU BAKAR**

BSc. (Biology) MSc. (Zoology) Ph.D (Biochemistry)

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Specialisation:

Fluorescence microscopy, Confocal microscopy, scanning electron microscopy, transmission electron microscopy, flow cytometry, biochemical assays, malaria parasite culture

Research Interest:

Cellular and molecular biology of *Plasmodium falciparum* and *Plasmodium knowlesi*
Antimalarial drug discovery and development from natural medicinal plants
Mechanisms of action and resistance of antimalarial drugs

Research Recognition and Achievements:

Editorial board member of Journal Chimica et Natura Acta, Invited manuscript reviewer for Journal Chimica et Natura Acta, Examiner of MSc theses, Member of Malaysian Society of Parasitology and Tropical Medicine (MSPTM), Member of Australian Society of Biochemistry and Molecular Biology (ASBMB)

Available Postgraduate Research Topics:

1. Adaptation of *Plasmodium knowlesi* to *in vitro* culture in reticulocytes derived from human CD34⁺ haematopoietic stem/progenitor cells
2. Determination of the mechanism of action of artemisinin in the malaria parasite, *Plasmodium falciparum*
3. Evaluation of the antimalarial activity of *Quercus infectoria* (manjakani) gall extracts against the malaria parasite, *Plasmodium falciparum*
4. Examination of the effects of a pure compound, pyrogallol of *Quercus infectoria* on the morphology of the *Plasmodium falciparum*'s mitochondrion, endoplasmic reticulum and digestive vacuole
5. Determination of the feeding process of the malaria parasite, *Plasmodium falciparum*