

## PhD / Master degree studentship

### ***Project title:***

Design of 5-azapurine derivatives as new modulators of purinergic receptors

### ***Description of the project:***

Purinergic receptors represent an important and diverse family of membrane proteins that are broadly distributed in almost all types of mammalian tissues comprising purinergic signaling system. The purinergic receptors include P1 receptors (adenosine receptors), activated by adenosine, P2 receptors, activated by purine nucleotides and recently discovered (P0 adenosine receptor), activated by adenosine. The A2a adenosine receptors have been approved as a valid target for therapy of the Parkinson's disease. The proposed project will form a solid basis for rational design of potential therapeutic agents in this area.

The project involves the computation work / molecular modeling of ligand and receptors to understand the interactions and selectivity of ligands against specific receptors. Based on this, new drug will be designed. This project will lead to identification of new lead molecule.

### ***Eligibility:***

The applicant must have bachelor (honors) or master degree in pharmaceutical sciences, pharmacy, medicinal chemistry, organic chemistry, computational chemistry or related field.

### ***Support / sponsorship available:***

MONASH University scholarship is available on competitive basis for qualified / deserving students.

Fee waiver (with stipend of RM2300 per month) is also available for deserving candidates for the period of 3 years.

### ***Closing Date for application:***

Application will be closed once suitable candidate is found.

### ***To apply or find out more, please contact:***

***Name of Supervisor:*** Dr. Nafees Ahmed, School of Pharmacy

***Position:*** Lecturer

***Email:*** nafees.ahemad@monash.edu

***Tel no.:*** +60103776828