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**EXPERTISE**

Inorganic Synthesis, Crystallography

Dr. Mohamed Ibrahim Mohamed Tahir's main research interest lies in coordination chemistry which includes the synthesis, characterisation and biological studies of novel compounds. Single crystal X-ray diffraction is the main tool for determining the structures of these complexes. Coordination compounds of particular interest are those that show biological activities such as anti-cancer, anti-microbial or antioxidant activity. These metal complexes are also investigated for their potential as homogeneous catalysts. An important goal is to determine the structure-activity relationship of these compounds using suitable computational studies. Major funding agencies include MOSTI , MOHE (FRGS) and UPM (RUGS). He is a member of the American Chemical Society (ACS), British Crystallographic Association (BCA) and Malaysian Crystallographic Association (MyCA).

CURRENT RESEARCH INTERESTS:

The synthesis, characterisation and biological studies of Schiff base related compounds and its metal complexes. These compounds have a broad range of biological activity such as anti-cancer, antimicrobial and anti-viral. The metals used are transition elements as these metal complexes give a wide range of coordination numbers, accessible redox potentials and variable structures. The structure-reactivity relationship of the metal complexes is also explored using computer aided simulation. These metal complexes are also being studied for their homogeneous catalytic properties for a variety of organic reactions.

LINK TO POSTGRADUATE FIELD OF STUDY:

Inorganic Synthesis

ADDITIONAL INFORMATION:

<http://profile.upm.edu.my/ibra>