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Synthesis and characterization techniques of isoniazid with pentacyclic triterpenes co-crystal systems

Victor O Fadipe, ^{1,2}, Mohammed S Haruna³, Abayomi Oguntunde¹, Hussaini D Ibrahim⁴, and Andrew R Opoku² ¹Federal Ministry of Science and Technology, Nigeria ²University of Zululand, South Africa

³National Agency for Science & Engineering Infrastructure, Nigeria ⁴Raw Materials Research and Development Council, Nigeria

Studies have shown that nanomaterials remain one of the most promising materials for modern and advance in the development of science and technology. In medicine particularly, cure and management of chronic diseases have been discovered through the application of nanochemistry. Development of synthesis protocols for realizing nanomaterials over a range of

sizes, shapes, and chemical compositions and biological activity is, therefore, an important application of nanochemistry in medicine. The remarkable biological activity-dependent physicochemical properties of the co-crystal system have fascinated and inspired research activity in this direction. In this presentation, therefore, attention will be focused on the background introduction, the synthesis methods to prepare a co-crystal system from two solid organic compounds for better management and treatment of infectious diseases particularly tuberculosis, and its various characterization techniques will be discussed.

yomi_za@yahoo.com