Novel Curcumin Analogs Modeling, Synthesis, Tubulin Polimerization and Cytotoxic Assays. Iten M. Fawzy1, Khairia M. Youssef¬¬1, Nasser S. M. Ismail2, J. Gullbo3 and Khaled A. M. Abouzid¬2.1Pharmaceutical chemistry Dept. Faculty of Pharmaceutical Sciences & Pharmaceutical Industries, Future University, Cairo, 12311, Egypt. 2Pharmaceutical Chemistry Dept. Faculty of Pharmacy, Ain Shams University, Cairo, Egypt.3Division of Clinical Pharmacology, Department of Medical Sciences, Uppsala University Hospital, SE-751 85 Uppsala, Sweden. Athens Institute for Education and Research.

khairia M. Youssef

Professor of Pharmaceutical Organic Chemistry

Abstract

Novel Curcumin analogs were designed, synthesized and tested for their antitumor activities. Also in silico and in vitro studies has been performed to predict the binding affinity of the target compounds and to test their ability to inhibit tubulin assembly and act as microtubule destabilizing agents.

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