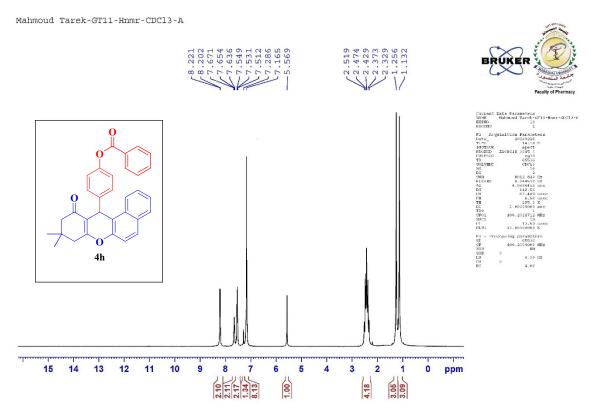
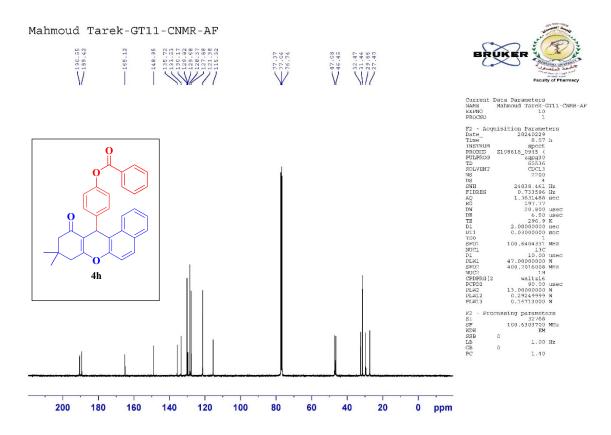
Copper-Vit B<sub>3</sub> MOF preparation, characterization and catalytic evaluation in one-pot synthesis of benzoxanthenones with docking validation as anti *H-pylori* Asma S. Al-Wasidi,<sup>a</sup> Mahmoud Tarek,<sup>b,\*</sup> Gehad E. Said,<sup>b,\*</sup> Ahmed M. Naglah,<sup>c,\*</sup> Abdulrahman A. Almehizia,<sup>c</sup> and Tamer K. Khatab<sup>d</sup>
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<sup>b</sup>Chemistry Department, Faculty of Science, Mansoura University, 35516 Mansoura, Egypt; gehadsaid@mans.edu.eg (G.E.S.), mahmoudtarek.tm@gmail.com (M.T.)
<sup>c</sup>Drug Exploration and Development Chair (DEDC), Department of Pharmaceutical Chemistry, College of Pharmacy, King Saud University, P.O. Box 2457, Riyadh 11451, Saudi Arabia; anaglah@ksu.edu.sa (*A.M.N.*), mehizia@ksu.edu.sa (*A.A.A.*)
<sup>d</sup>Organometallic and Organometalloid Chemistry Department, National Research Centre, 33 ElBehouth St., Dokki, 12622 Giza, Egypt; Tamer\_khatab@hotmail.com (T.K.Khatab)

## Experimental

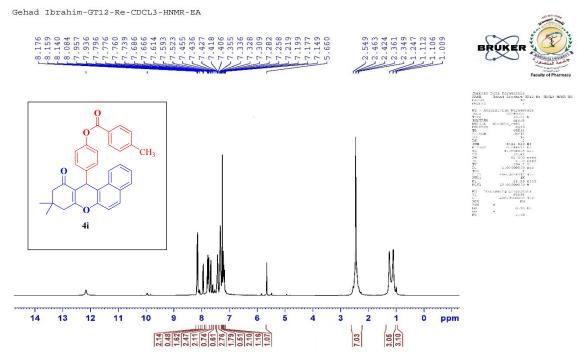
All melting points were evaluated using electric Gallenkamp (Germany) apparatus. The <sup>1</sup>H-NMR and <sup>13</sup>C-NMR spectra were run on a Bruker Avance III spectrophotometer at 400 and 100 MHz, respectively. The elemental microanalytical data were measured at the Microanalytical Unit, Cairo University on Vario, Elementar apparatus (Shimadzu). TLC was used to monitor the reaction mixtures using silica gel-coated plates and irradiation with UV-Lamp for visualization. The solvents and reagents were purchased from sigma Aldrich and fluka companies.



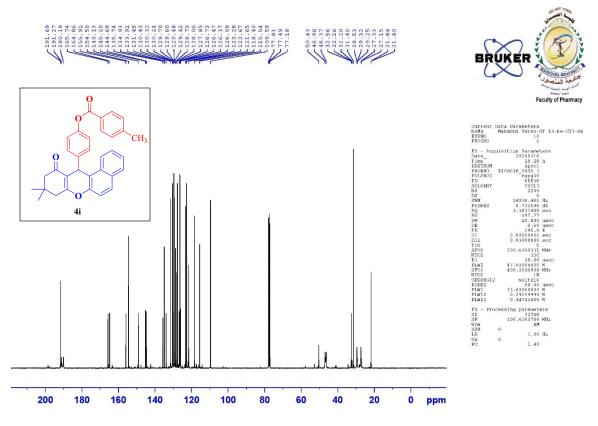
<sup>1</sup>H NMR spectrum of compound 4h



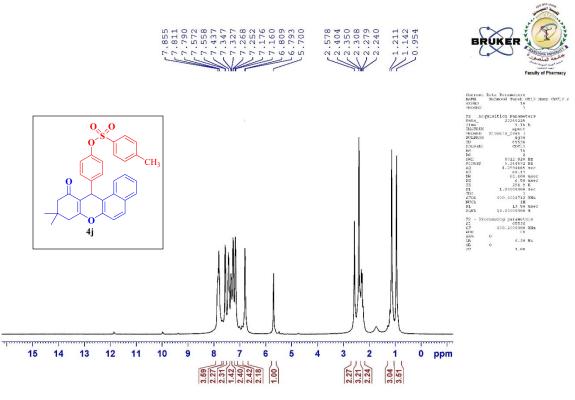
<sup>13</sup>C NMR spectrum of compound 4h



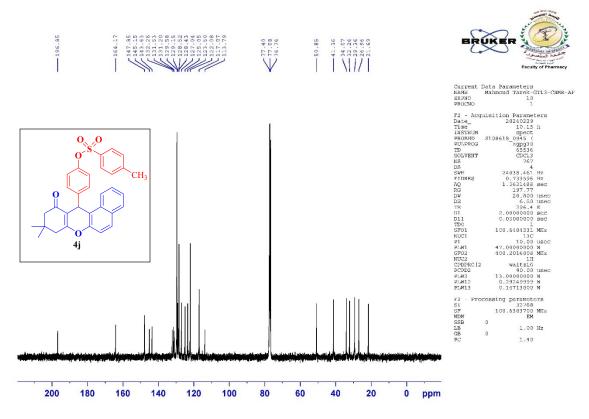
<sup>1</sup>H NMR spectrum of compound 4i



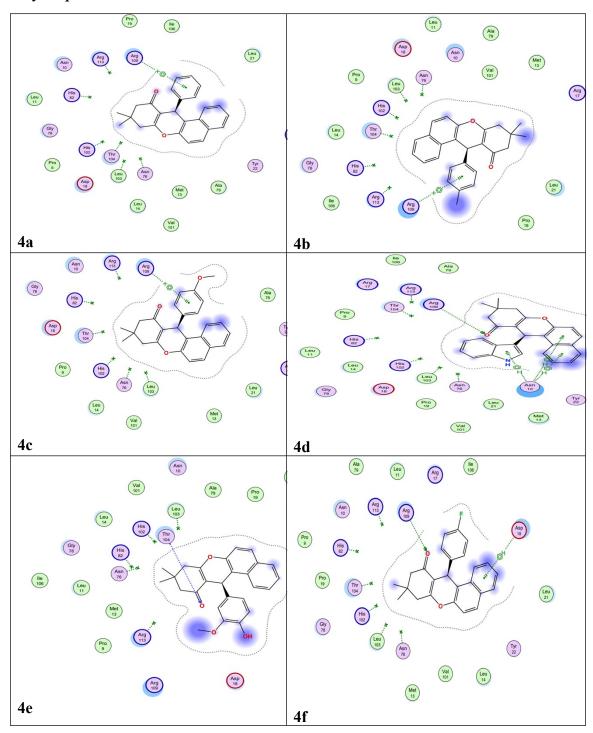
<sup>13</sup>C NMR spectrum of compound 4i



<sup>1</sup>H NMR spectrum of compound 4j



<sup>13</sup>C NMR spectrum of compound 4j



2D interaction between the prepared ligands and "*Helicobacter pylori Type II dehydroquinase*"

