

## Supporting Information

# Copper Oxide Nanoparticles as Delivery Vehicles for Different Pt(II)-Drugs: Experimental and Theoretical Evaluation.

*Shahdan Abdelkareem,<sup>a</sup> Mayyada M.H. El-Sayed,<sup>a</sup> Nahed Yacoub,<sup>a</sup> Aly Reda Aly,<sup>a</sup> Valeria Butera,<sup>b</sup> Matteo Farnesi Camellone,<sup>c</sup> Ida Ritacco,<sup>\*d</sup> Tamer Shoeib<sup>\*a</sup>*

*<sup>a</sup>Department of Chemistry, School of Sciences & Engineering, The American University in Cairo, AUC Avenue, P.O. Box 74, New Cairo 11835, Egypt. E-mail: T.Shoeib@aucegypt.edu*

*<sup>b</sup>Dipartimento di Scienze e Tecnologie Biologiche, Chimiche e Farmaceutiche, Università di Palermo, viale delle Scienze Edificio 17, 90128 Palermo, Italy*

*<sup>c</sup>Consiglio Nazionale delle Ricerche-Istituto Officina dei Materiali (CNR-IOM), 34136 Trieste, Italy*

*<sup>d</sup>Dipartimento di Chimica e Biologia, Università degli Studi di Salerno, via Giovanni Paolo II 132, 84084 Fisciano, Salerno, Italy. E-mail: iritacco@unisa.it*

### **Calibration Curves and R<sup>2</sup>**

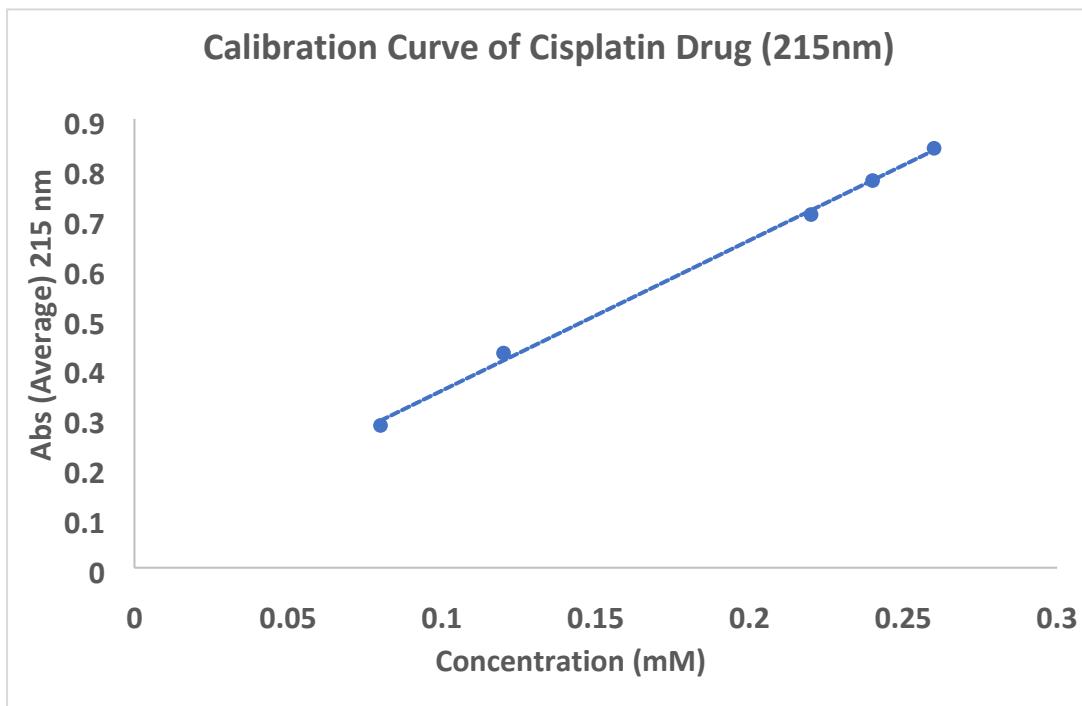


Figure S1: Calibration Curve of CuO@Cisplatin

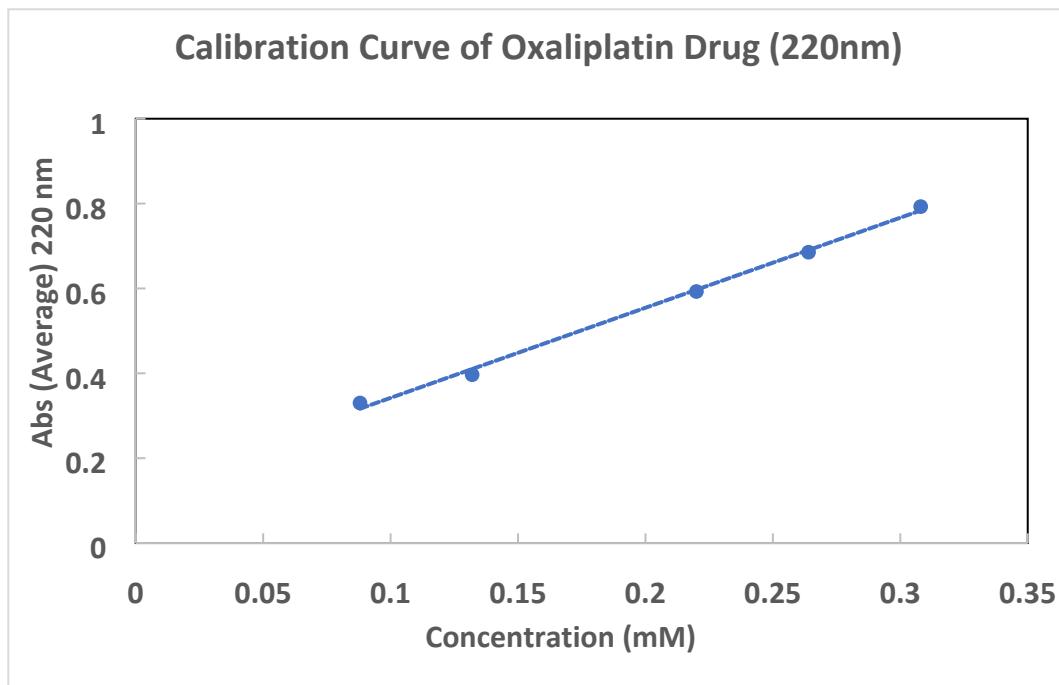


Figure S2: Calibration Curve of CuO@Oxaliplatin

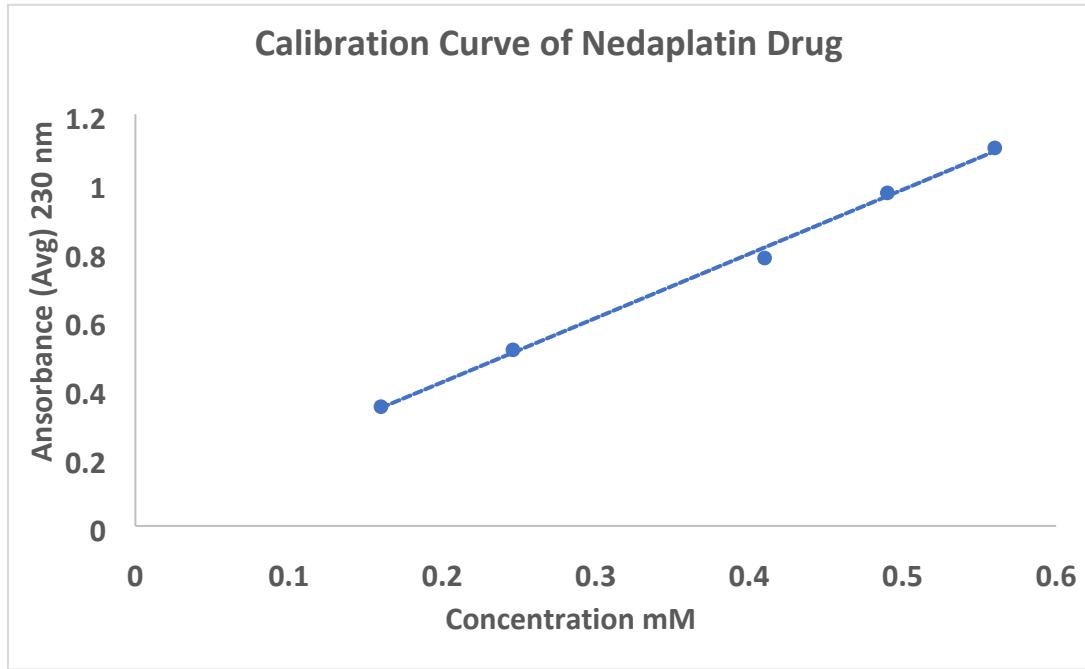


Figure S3: Calibration Curve of CuO@Nedaplatin

**Table S1: LOD and LOQ of Cisplatin, Oxaliplatin, and Nedplatin**

	LOD	LOQ
<b>Cisplatin</b>	<b>0.0127 mM</b>	<b>0.0385 mM</b>
<b>Oxaliplatin</b>	<b>0.0196</b>	<b>0.0596 mM</b>
<b>Nedaplatin</b>	<b>0.0354 mM</b>	<b>0.1073 mM</b>

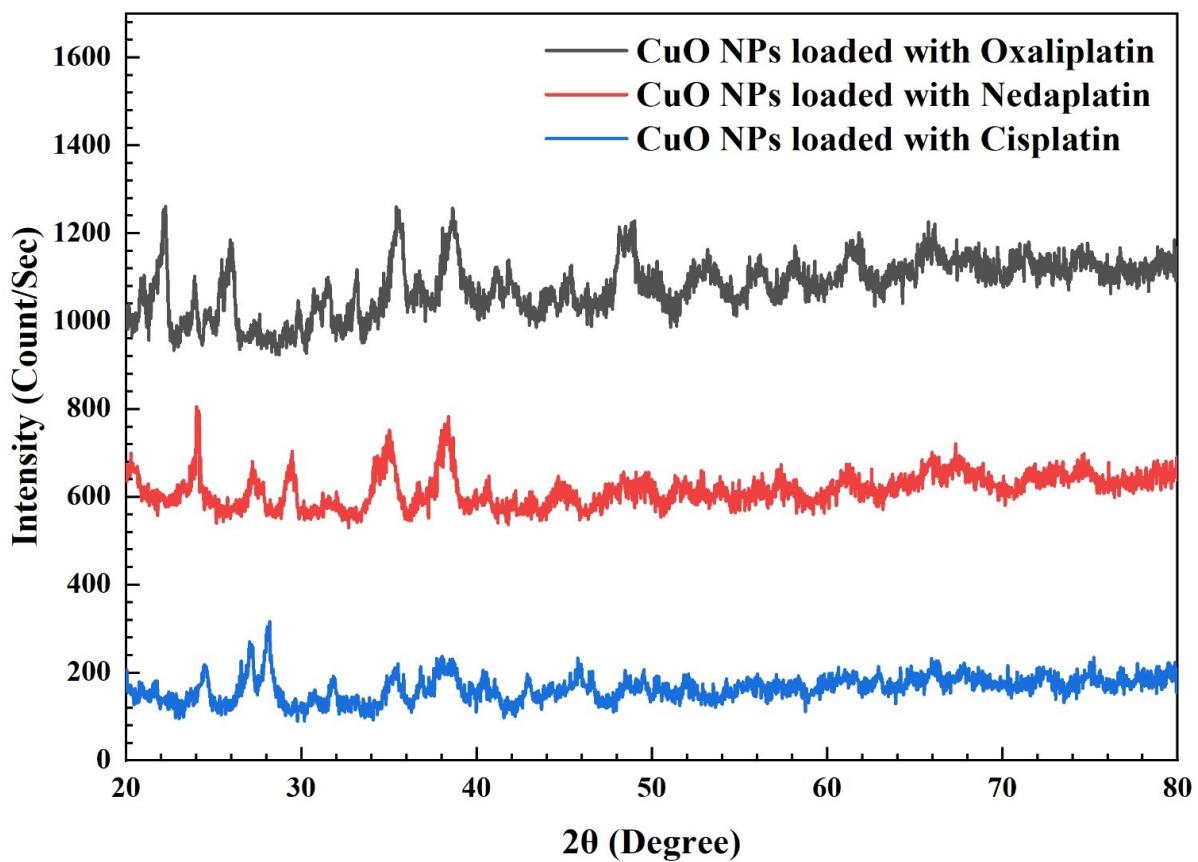


Figure S4: XRD Post Loading of CuO@Cisplatin, CuO@Oxaliplatin, and CuO@Nedaplatin