Faculty of Science
Chemistry Department

# A study on the phytochemical Analysis, Gold Nanoparticles Synthesis using some Wild Plant Extracts and Its Biological Activity

*Presented by*

**Nadia Ahmed Soliman Ali**

A Thesis Submitted

*To*

Faculty of Science, Chemistry Department

*For*

**The Degree of Doctor of Philosophy of Science**

**Faculty of Science /Ain Shams University**

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(Chemistry)

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بسم الله الرحمن الرحيم

فَأَمَّا الزَّبَدُ فَيَذْهَبُ جُفَاءً وَأَمَّا مَا يَنْفَعُ النَّاسَ فَيَمْكُثُ فِي الأَرْضِ

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*Nadia Ahmed Soliman ALi*

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# List of Abbreviations

**AuNPs** **:** Gold nanoparticles

**AgNPs** **:** Silver nanoparticles

**DLS** **:** Dynamic Light Scattering

**FTIR** **:** Fourier transform infra-red spectroscopy

**FT-IR** **:** Fourier Transform Infrared

**FWHM** **:** Full width at half maximum

**FWHM** **:** Full width at half maximum

**SPR** **:** Surface plasmon resonance

**TEM** **:** Transmission electron microscopy

**TGA** **:** Thermo gravimetric analysis

**HePG2** **:** Hepatocellular carcinoma

**HCT-116** **:** Colon carcinoma

**MIC** **:**Minimal inhibitory concentration

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