

# Production and Characterization of Silver Nanoparticles using some Soil Microorganisms

## Ph.D. Thesis

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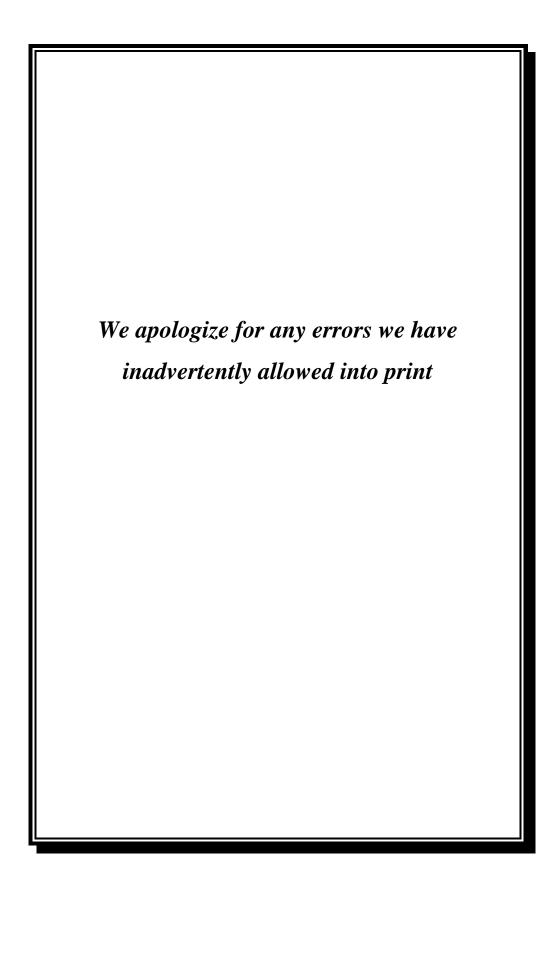
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dissertation has not been previously submitted for any degree, at this or any other university. The references being checked whenever possible show the extent to which I have availed myself of the work of other authors. Wafaa Abdallah

To My Husband and my Son The essence of my life

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# LIST OF ABBREVIATIONS

Abbreviation	Meaning
μM	Micromolar
μm	Micrometer
μmol	Micromole
$AgNO_3$	Silver Nitrate
AgNPs	Silver Nanoparticles
Au	Absorbance unit
AUMC	Assuit University Mycological Center
CFF	Cell Free Filtrate
CS	Culture Supernatant
DLS	Dynamic light scattering
EDX	Energy dispersive X-rays
FTIR	Fourier Transform Infrared
fcc	face centered cube
h	Hour
HR-TEM	High Resolution-Transmission
IIK-IEMI	Electron Microscopy
JCPDS	Joint Committee on Powder
JCI DS	Diffraction Standards
keV	kilo-electron volt
KV	Kilo volt
LB	Luria broth
mA	Milliampere
MGYP	Malt Glucose Yeast Peptone
Min	Minute
mm	Millimeter
mM	Millimolar
mV	Milli-volt

## List of abbreviations

Abbreviation	Meaning
NA	Nutrient agar
NB	Nutrient broth
NEED	N-(1-napthy) Ethelenediamine
NEED	dihydrochloride
nm	Nanometer
nmol	Nanomole
NPs	Nanoparticles
NR	Nitrate Reductase
RPM	Revolutions per minute
SPR	<b>Surface Plasmon Resonance</b>
UV-Vis	Ultraviolet-visible
XRD	X-ray diffraction

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