

بسم الله الرحمن الرحيم





شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



جامعة عين شمس

التوثيق الإلكتروني والميكروفيلم

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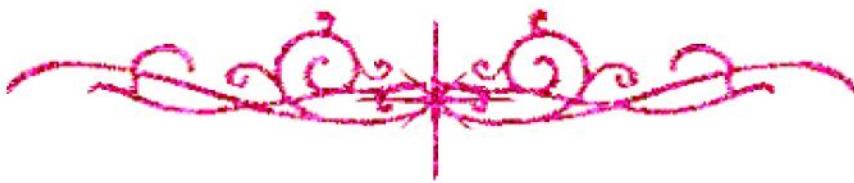
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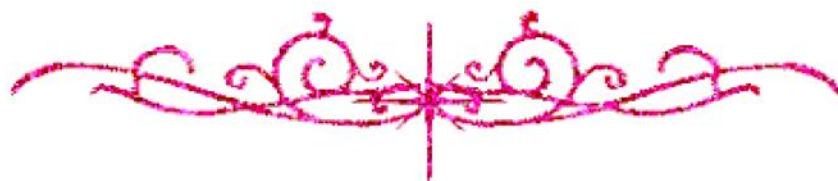


بعض الوثائق الأصلية تالفة





بالرسالة صفحات
لم ترد بالأصل





**Assessment of Silver Nanoparticles Toxicity and
the Possible Protective Effect of Vitamin C and
Vitamin E administration on Filiform and
Circumvallate Tongue Papillae of Albino Rats
Histological and Immunohistochemical study**

*Thesis submitted in partial fulfillment for Master Degree in Oral
Biology, Faculty of Dentistry, Ain Shams University*

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

﴿قَالُوا سُبْحَانَكَ لَا عِلْمَ لَنَا إِلَّا مَا عَلَّمْتَنَا إِنَّكَ أَنْتَ الْعَلِيمُ الْحَكِيمُ﴾

صدق الله العظيم

سورة البقرة

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Dedication

To

My father and mother

*For providing honest living and for teaching me to
trust in ALLAH and believe in hard work*

My dear husband Ashraf

*For being extremely supportive, understanding and for
his endless help and for always believing in me*

My beloved brothers and Mai

For their great support and continuous encouragement

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For their guidance and endless help

My beloved girls Malak and Laila

*For always being there for me and making the world a
better place to live in*

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List of abbreviations

Ag	Silver
AgNO₃	Silver nitrate
AgNPs	Silver nanoparticles
B.W	Body weight
BALF	Broncho-alveolar lavage fluid
C.T.	Connective tissue
CFU	Colony forming units
CVP	Circumvallate papilla
DAP	Di-aminobenzidine
DNA	Deoxyribonucleic Acid
EBF-s	Human embryonic stem cell-derived fibroblasts
Fig.	Figure
gms	Grams
GSH	Glutathione
H&E	Hematoxylin and Eosin
HA	Hydroxyapatite
I.P	Intraperitoneal
I.V	Intravenous
IL-1b	Interleukin-1b
IL-6	Interleukin -6
IU/kg	International Units per kilogram
LPO	lipid peroxidation

Mg	Milligram
mg/kg	Milligram per kilogram
mg/lt.	Milligrams per liter
ml	Milliliter
MRI	Magnetic Resonance Image
nm	Nanometer
NPs	Nanoparticles
NS	Noritake Super
Orig. Mag.	Original magnification
PBS	Phosphate buffered solution
PPM	Part per million
PVP	polyvinyl pyrrolidine
RBCs	Red blood cells
ROS	Reactive oxygen species
SBS	Shear bond strength
SD	Standard deviation
TM	Trademark
TNF-α	Tumor necrosis factor alpha
UK	United Kingdom
VESG	Von Ebner salivary gland
VLUs	Venous leg ulcers
ZnO	Zinc oxide