



شبكة المعلومات الجامعية
التوثيق الإلكتروني والميكروفيلم

بسم الله الرحمن الرحيم



MONA MAGHRABY



شبكة المعلومات الجامعية
التوثيق الإلكتروني والميكروفيلم



شبكة المعلومات الجامعية التوثيق الإلكتروني والميكروفيلم



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شبكة المعلومات الجامعية
التوثيق الإلكتروني والميكروفيلم

جامعة عين شمس

التوثيق الإلكتروني والميكروفيلم

قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها
علي هذه الأقراص المدمجة قد أعدت دون أية تغيرات



يجب أن

تحفظ هذه الأقراص المدمجة بعيدا عن الغبار



MONA MAGHRABY

Intravenous Versus Local Injection of Bone Marrow Mesenchymal Stem Cells on 5-Fluorouracil treated Parotid Glands of Albino Rats

*A Thesis submitted to the Faculty of Dentistry, Ain Shams University,
in partial fulfillment of the requirements for the Doctorate's Degree in Oral Biology*

By

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2021

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Dedication

This work is dedicated to
*My beloved parents, grandmother, sister and her
beautiful family.*

I would have not accomplished anything in my life
without their love, prayers, support and encouragement.

Acknowledgement

First and foremost, I would like to thank *God* for always holding my hands, giving me strength each day and for showering me with more blessings than I deserve.

My deepest gratitude goes to my dear mentor and father ***Prof. Dr. Medhat El Zainy*** for his unparalleled support. It is an honor learning from a legend in this field like him as an undergraduate, MSD and PhD candidate.

My sincere appreciation goes to my dear teacher and boss ***Prof. Dr. Reham Magdy*** for her efforts in guiding me throughout this research. It is my pleasure working under her supervision throughout the years.

Many thanks also goes to my dear supervisor ***Dr. Iman Fathy*** for her valuable input throughout every step of this research.

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List of Abbreviations

µm	Micrometers
5-FdUrd	5-fluoro-2-deoxyuridine
5-FU	5-Flourouracil
ANOVA	Analysis of Variance
Bax	BCL2-Associated X Protein
Bcl-2	B-cell lymphoma 2
BM	Bone Marrow
BMSCs	Bone Marrow Mesenchymal Stem Cells
BV	Blood Vessel
Ca	Calcium
CD	Cluster of Differentiation
cm	Centimeter
C°	Degrees Celcius
CT	Connective Tissue
DM	Diabetes Mellitus
DNA	Deoxyribonucleic Acid
dUMP	2'-Deoxyuridine 5'-Monophosphate
ED	Excretory Duct
FDA	Food and Drug Administration
FdUMP	5-fluoro-2'-deoxy-5' monophosphate
g	Gram
GIT	Gastrointestinal Tract
Gy	Gray
H&E	Haematoxylin and Eosin
H₂O₂	Hydrogen Peroxide
hAMSCs	Human Adipose Mesenchymal Stem Cells
HCL	Hydrochloric Acid
HIV	Human Immunodeficiency Virus
HSCs	Hematopoietic Stem Cells
ID	Intercalated Duct
IG	Intraglandular

IP	Intraperitoneal
IV	Intravenous
Kg	Kilogram
LM	Light Microscope
MED	Main Excretory Duct
mg	Milligram
ml	Milliliter
MSCs	Mesenchymal Stem Cells
Org. Mag.	Original Magnification
PBS	Phosphate Buffered Saline
PG	Parotid Gland
pH	Potential Hydrogen
RNA	Ribonucleic Acid
SD	Striated Duct
SG	Salivary Gland
SLG	Sublingual Gland
SMG	Submandibular Gland
S-phase	Synthesis Stage
SPSS	Statistical Package for the Social Sciences
SS	Sjogren's Syndrome
TMP	Thiamine Monophosphate
TNF-α	Tumor Necrosis Factor Alpha
TS	Thymidylate Synthase
TTP	Thiamine Triphosphate
WHO	World Health Organization