



شبكة المعلومات الجامعية
التوثيق الإلكتروني والميكرو فيلم

بسم الله الرحمن الرحيم



MONA MAGHRABY



شبكة المعلومات الجامعية
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شبكة المعلومات الجامعية التوثيق الإلكتروني والميكروفيلم



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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



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تحفظ هذه الأقراص المدمجة بعيدا عن الغبار



MONA MAGHRABY



The effect of Epitranscriptomic writer (METTL3) silencing on Hepatocellular carcinoma cell line

Thesis

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Medical Biochemistry and Molecular Biology*

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

قالوا

سبحانك لا علم لنا
إلا ما علمتنا إنك أنت
العليم العظيم

صدق الله العظيم

سورة البقرة الآية: ٣٢

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DEDICATION

*To the souls of my lovely father
and mother*

*To My Husband
and My daughter, Eman*

For their endurance and loving

To My Sisters and My Brothers

For their love and support

Afaf Rabea



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List of Abbreviations

Abb.	Full term
5'-UTR	5' untranslated regions
aa	amino acids
AdoHcy	S-adenosylhomocysteine
AdoMet	S-adenosylmethionine
AFP	Alpha fetoprotein
AFP-L1	AFP-Lectin 1
AGO2	Argonaute 2
AJCC	American Joint Committee on Cancer
Akt	Protein kinase B
ALKBH5	α -ketoglutarate-dependent dioxygenase alkB homolog 5
AML	acute myloid leukemia
ANOVA	Analysis of Variance
ARID1A	AT-Rich Interaction Domain 1A
ARNT	aryl hydrocarbon receptor nuclear translocator
ATM	Ataxia telangiectasia mutated
AXIN1	axis inhibition protein 1
BCL9	B-cell /lymphoma 9 protein
BCLC	Barcelona Clinic Liver Cancer staging system
BLAST	Basic Local Alignment Search Tool
CCCH	Cys-Cys-Cys-His
CD147	functional lactate transporter
Cdk	Cyclin-dependent kinases
CDKN2A	cyclin-dependent kinase inhibitor 2A
cDNA	Complementary DNA
ceRNAs	competitive endogenous RNAs
CIN	chromosomal instability
Cip family	Cyclin dependent kinase inhibitory protein
cirRNA	Circular RNA

List of Abbreviations Cont.

Abb.	Full term
c-myc.....	c-myelocytomatosis
CNAs	copy number alterations
CpG island.....	Ganosine-Cytocine rich regions of the genome
CT	Computed Tomography
CT	threshold cycle
DCP	Des- γ -Carboxyprothrombin
DEPC	Diethyl pyrocarbonate
DLC1	deleted in liver cancer 1
DMEM.....	Dulbecco's Modified Eagle's Medium
DNMTs	DNA methyltransferases
dNTPs.....	Deoxy nucleotide triphosphate
dsDNA	Double stranded DNA
dsRNA	Double stranded RNA
<i>E2F</i>	Eukaryotic transcription factor
E-cadherin.....	epithelial cadherin
EDTA.....	ethylene diamine tetra acetic acid
eEF2	Eukaryotic elongation factor2
eIF3.....	Eukaryotic initiation factor 3
EZH2	enhancer of zeste homologue 2
FBS.....	fetal bovine serum
FOXO3 gene	Forkhead box O3 gene
FTO.....	fat mass and obesity-associated protein
G0	Growth phase 0 of cell cycle
G1	Growth 1 phase
G2/M	Growth2 / Mitotic phase of cell cycle
GP73	Golgi Protein-73
GPC3	Glypican-3
GPI.....	Glycosylphosphatidylinositol
GSCs.....	glioblastoma stem cells