بسم الله الرحمن الرحيم

MONA MAGHRABY

شبكة المعلومات الجامعية

التوثيق الالكتروني 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

يجب أن

تحفظ هذه الأقراص المدمجة بعيدا عن الغبار

MONA MAGHRABY

Evaluation of the Prognostic Value of Ki-67 in Early Stage Breast Cancer

Thesis

Submitted for Partial Fulfillment of M.Sc. Degree in Clinical Oncology

By

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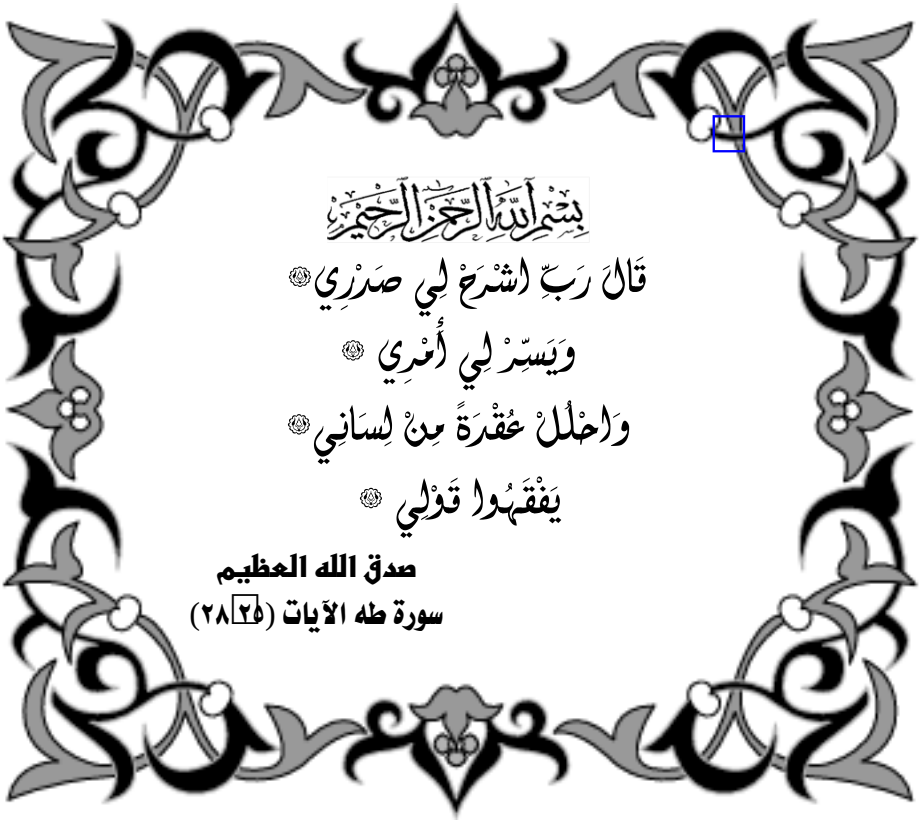

صدق الله العظيم

سورة طه الآيات (٢٥ ٢٨)

Dedication

To my Parents...
Engineer Salem Ibrahim Albassiouny
Mrs. Azza Ali Albassiouny

My Brother..
Captain Ali Salem Albassiouny

My Sisters..
Mrs. Saly Salem Albassiouny
Mrs. Soha Salem Albassiouny

My wife
Dr. Kholood Mohamed Elshal

And my lovely children
Zain and Lina

Thank you for your unconditional support with my studies. I am honored to have you as my family.
Thank you for giving me a chance to prove and improve myself through all my walks of life.
Thanks for believing in me and for allowing me to further my studies.
I love you.. and will always do.

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Ibrahim Salem Alhussini Ibrahim

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List of Abbreviations

Abb.	Full term
ABCSG	*Austrian Breast and Colorectal Cancer Study Group*
ACS	*American Cancer Society*
ADC	*Antibody-Drug Conjugate*
AJCC	*American Joint Committee on Cancer*
Akt	*Ak strain transforming*
AR	*Androgen Receptor*
ASCO	*American Society of Clinical Oncology*
ASOs	*Antisense oligodeoxynucleotides*
BAG1	*Bcl-2-associated athanogene-1*
BCI	*Breast Cancer Index*
Bcl-2	*B-cell lymphoma 2*
BIRADS	*Breast Imaging Reporting and Data System*
BL	*Basal Like*
BMI	*Body mass index*
bp	*Base pair*
BRCA	*BReast CAncer gene*
CAP	*College of American Pathologists*
CB	*Core biopsy*
CDK	*Cyclin-Dependent Kinases*
CT	*Computerized tomography*
DCIS	*Ductal carcinoma in situ*
DFS	*Disease Free Survival*
DNA	*Deoxyribonucleic acid*
EGFR	*Epidermal Growth Factor Receptor*
EPclin score	*Endo-Predect clinicomolecular score*
ER	*Estrogen receptor*
ErbB-2	*Erythroblastic oncogene B 2*
ERE	*Estrogen responsive element*

List of Abbreviations *(Cont...)*

Abb.	Full term
ESR1	*Estrogen-receptor 1*
FDA	*Food and Drug Administration*
FFPE	*Formalin-fixed, paraffin-embedded*
FISH	*Fluorescence in situ hybridization*
FNAC	*Fine needle aspiration cytology*
FTI	*Farnesyl Transferase Inhibitors*
GEICAM	*Grupo Español de Investigación en Cáncer de Mama*
GGI	*Genomic Grade Index*
gpNMB	*Glycoprotein Non-metastatic Melanoma Protein B*
GSTM1	*Glutathione S-transferase Mu 1*
HDAC	*Histone Deacetylase*
HER2	*Human epidermal growth factor receptor 2*
HGFR	*Hepatocyte growth factor receptor*
HR	*Hazard Ratio*
HR	*Hormone receptors*
IDCNOS	*Invasive ductal carcinoma not otherwise specified*
IHC	*Immunohistochemistry*
IMPAKT	***IMP****roving c****A****re and* ***K****nowledge through* ***T****ranslational research*
kDa	*kilodalton*
KRAS	*Kirsten rat sarcoma viral oncogene*
LI	*labeling index*
MAPK	*Mitogen-activated protein kinase*
MART-1	*melanoma antigen recognized by T cells 1*
MBC	*Metastatic breast cancer*
Mib-1	*Monoclonal murine antibody 1*
MMM	*Mucosal malignant melanoma*

List of Abbreviations *(Cont...)*

Abb.	Full term
MRI	*Magnetic resonance imaging*
mTOR	*Mammalian target of rapamycin*
NCCN	*National Comprehensive Cancer Network*
NMB	*Nonmetastatic Melanoma Protein B*
NST	*No special type*
ORR	*Objective response rate*
OS	*Overall survival*
PAM50	*Prediction Analysis of Microarray 50*
PARP	*Poly ADP-ribose Polymerase*
PCNA	*proliferating cell nuclear antigen*
PD-1	*Programmed cell death protein 1*
PDGFR	*Platelet-derived growth factor receptors*
PD-L1	*Programmed death-ligand 1*
PET	*Positron emission tomography*
PFS	*Progression free survival*
PI3-K	*Phosphatidylinositol 3-Kinase*
PICELs	*Photo immunoconjugate-encapsulating liposomes*
PIK3CA	*Phosphatidylinositol-4,5-Bisphosphate 3-Kinase Catalytic Subunit Alpha*
PNAs	*peptide nucleic acids*
PR	*Progesterone receptor*
PTEN	*Phosphatase and tensin homolog*
PTEN	*Phosphatase and tensin homolog*
RAS	*Rat sarcoma*
REMARK	*Reporting Recommendations for Tumour Markers Prognostic Studies*
RNAi	*Ribonucleic acid interference*
ROC	*Receiver operator characteristic*

List of Abbreviations *(Cont...)*

Abb.	Full term
ROR-P	*Risk of recurrence - proliferation genes*
ROR-S	*Risk of recurrence score*
ROR-T	*Risk of recurrence - tumour size*
RS	*Recurrence Score*
RTK	*Receptor Tyrosine Kinase*
RT-PCR	*Reverse transcription polymerase chain reaction*
SD	*Standard Deviation*
SERMs	*Selective estrogen receptor modulators*
shRNAs	*short hairpin Ribonucleic acids*
SPSS	*Statistical Package for the Social Sciences*
SRC inhibitor	*Sarcoma gene inhibitor*
SUV	*Standardized uptake value*
TAILORx	*Trial Assigning IndividuaLized Options for Treatment (Rx)*
TILs	*Tumour infiltrating lymphocytes*
TNBC	*Triple negative Breast Cancer*
TNM	*Tumor-node metastasis*
TP53	*Tumour protein 53*
US	*Ultrasonography*
USPSTF	*United States Preventive Services Task Force*
VEGF	*Vascular endothelial growth factor*
WHO	*World Health Organization*