



Ain Shams University  
Faculty of science

# **Evaluation of the *Her-2/neu* gene expression level as a response to radiotherapy and hormonal therapy in breast cancer patients**

Thesis

Submitted in Partial Fulfillment of the Requirements for the  
Master Degree of Science in Biochemistry

*By*

**Marwa Esmat Abd-El Baset Khalil**  
**B.Sc. Chemistry and Biochemistry (2006)**

Ain shams University  
Faculty of Sciences  
Biochemistry Department  
2015





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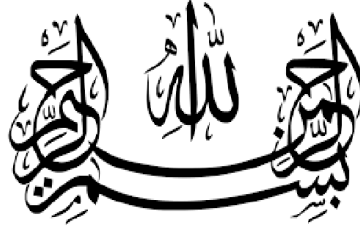
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**2015**





(وَقُلِ اعْمَلُوا فَسَيَرَى اللَّهُ  
عَمَلَكُمْ وَرَسُولُهُ وَالْمُؤْمِنُونَ)

صَلَّى اللَّهُ الْعَظِيمِ



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# *Dedication*

"رَبِّ أَوْزِعْنِي أَنْ أَشْكُرَ نِعْمَتَكَ الَّتِي أَنْعَمْتَ عَلَيَّ وَعَلَى  
وَالِدَيَّ وَأَنْ أَعْمَلَ صَالِحًا تَرْضَاهُ وَأَدْخِلْنِي بِرَحْمَتِكَ فِي  
عِبَادِكَ الصَّالِحِينَ"

*My work is dedicated to:*

*Allah and hope to accept it from me*

*"A special thanks to my family. Words cannot  
express how grateful I am to my mother and  
father for all of the sacrifices that you have  
made on my behalf. Your prayer for me was  
what sustained me thus far.*

*I would also like to thank my sister and  
my brother who supported me in writing,  
and encouraged me to strive towards my  
goal. "*

*Marwa Esmat Abd El Baset*



## *Acknowledgments*

*We thank God greatly for his kindness and blessing which He had given us to conduct this piece of work,*

*This work would not be performed without the support of the **Academy of Scientific Research and Technology** grant (Scientists for Next Generation (SNG)). I wish to thank each one working with this great project.*

*I am greatly honored to express my sincere gratitude to Prof. Dr. **Ahmed Osman Egiza**, Professor of Biochemistry, and head of Biochemistry Department, Faculty of Science, Ain Shams University, Egypt, for his kind supervision, moral support, ever helping and guidance and for his valuable suggestions from time to time.*

*I would like also to express my honest and deep gratitude to my supervisor my supervisor Prof. Dr. **Tarek Almaghraby**, the head of the molecular biology lab, Radiobiology department, National Center for Radiation Research and Technology (**NCRRT**), The Egyptian Atomic energy Authority (**EAEA**), for suggesting the plane of the work and providing all the facilities for the accomplishment of this work as well as his continuous valuable guidance and helpful discussion throughout all tages of the study and also for handwriting of this manuscript.*

*My thanks to Dr. **Eman Mossad Zaky**, Assistant Professor of Clinical pathology , south Egypt, for her sincere help, her kind assistance and guidance throughout this study that brought it to light.*

*I would like also to thanks Dr. **Sanaa Abdel-Hamid.**, Lecturer of molecular biology, (**NCRRT**), for her help throughout this work.*

*I extend my thanks to radiation biology department and to all my colleagues (**NCRRT**) for their help and encouragement.*

*I am extremely grateful to my family for their kindness, toleration, and motivation, without their support and helpfulness; this work would never have come to light.*

**Marwa Esmat**



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