

بسم الله الرحمن الرحيم



HOSSAM MAGHRABY



شبكة المعلومات الجامعية التوثيق الالكتروني والميكرو فيلم



HOSSAM MAGHRABY

جامعة عين شمس

التوثيق الإلكتروني والميكروفيلم

قسم

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



يجب أن

تحفظ هذه الأقراص المدمجة بعيدا عن الغبار



HOSSAM MAGHRABY



Ain Shams University
Faculty of Science
Department of Biochemistry

***The potential anti tumor activity of a herbal extract
against cancer stem cells in Egyptian leukemic
patients***

Thesis

Submitted for the degree of Master of Science as a partial fulfillment for
requirements of M.Sc. degree in Biochemistry

Submitted By

Shimaa Yehia Abdel-Ghany Mehany
(B.Sc. in Biochemistry, 2015)

Under the Supervision of

Prof. Dr. Hala Mahdi Al-desouki

Professor of Biochemistry
Biochemistry Department
Faculty of Science
Ain Shams University

Ass. Prof. Dr. Germine Mohsen Hamdy

Assistant Professor of Biochemistry
Biochemistry Department
Faculty of Science
Ain Shams University

Prof. Dr. Ibrahim Mohamed Abdel-Salam

Professor of Medical Biochemistry
and Molecular Biology
Cancer Biology Department
NCI- Cairo University

Dr. Basma Al-Saudi Abdel-Maksoud

Lecturer of Biochemistry
Biochemistry Department
Faculty of Science
Ain Shams University

2021

Approval sheet

The potential anti tumor activity of a herbal extract against cancer stem cells in Egyptian leukemic patients

Thesis

Submitted for the degree of Master of Science as a partial fulfillment for
requirements of M.Sc. degree in Biochemistry

Submitted By

Shimaa Yehia Abdel-Ghany Mehany
(B.Sc. in Biochemistry, 2015)

Supervisors:

- Prof. Dr. Hala Mahdy Al-desouki** Professor of Biochemistry, Biochemistry
Department, Faculty of Science,
Ain Shams University
- Ass. Prof. Dr. Germine Mohsen Hamdy** Assistant Professor of Biochemistry,
Biochemistry Department, Faculty of Science,
Ain Shams University
- Prof. Dr. Ibrahim Mohamed Abdel-Salam** Professor of Medical Biochemistry and
Molecular Biology, Cancer Biology Department,
NCI- Cairo University
- Basma Al-Soudi Abdel-Maksoud** Lecturer of Biochemistry, Biochemistry Department,
Faculty of Science, Ain Shams University

Examiners committee:

- Prof. Dr. Menha Mahmoud Ahmed Sweilem** Professor of Biochemistry, Biochemistry
Department, Genetic Engineering and
Biotechnology Division, National Research Centre
- Prof. Dr. Soha Mohamed Hamdy** Professor of Biochemistry, Head of
Chemistry Department, Faculty of Science,
Fayoum University
- Ass. Prof. Dr. Germine Mohsen Hamdy** Assistant Professor of Biochemistry,
Biochemistry Department, Faculty of Science,
Ain Shams University

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ
وَعَلَّمَكَ اللَّهُ الْكِتَابَ
وَكَأَن فَضْلُ اللَّهِ عَلَيْكَ عَظِيمٌ

(سورة النساء- ١١٣)

Biography

Name: Shimaa Yehia Abdel-Ghany Mehany

Date of Graduation: 2015

Degree awarded: B.Sc. in Biochemistry
(Excellent with Honor Degree)

Occupation: Demonstrator in Biochemistry Department
Faculty of Science
Ain Shams University

Declaration

I declare that this thesis and the work presented in it are my own and have been generated by me as the result of my own original research.

Shimaa Yehia AGhany Mehany

Dedication

To

My Mother

*A strong and gentle soul who taught me to
trust in Allah, believe in hard work and
that so much could be done with little.*

My sisters

*Thank you for your everlasting love and
warm encouragement throughout my
research. Without you, I couldn't overcome
my difficulties or concentrate on my studies.*

