



شبكة المعلومات الجامعية

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ





شبكة المعلومات الجامعية



شبكة المعلومات الجامعية

التوثيق الالكتروني والميكرو فيلم

جامعة عين شمس

التوثيق الالكتروني والميكرو فيلم

قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها
علي هذه الأفلام قد اعدت دون أية تغيرات



يجب أن

تحفظ هذه الأفلام بعيداً عن الغبار

في درجة حرارة من 15 – 20 مئوية ورطوبة نسبية من 20-40 %

To be kept away from dust in dry cool place of
15 – 25c and relative humidity 20-40 %



شبكة المعلومات الجامعية



بعض الوثائق الأصلية تالفة



شبكة المعلومات الجامعية



بالرسالة صفحات
لم ترد بالأصل

SYNTHESIS OF SOME NEWLY COUMARIN DERIVATIVES INCORPORATED INTO OTHER HETEROCYCLES FOR BIOLOGICAL EVALUATION

A Thesis Submitted

to

Faculty of Science

Ain Shams University

for

**The Degree of Master of Science (M.Sc.)
(Chemistry)**

Presented by

**Somaia Sayed Abd El-Karim
(B.Sc.)**

Supervised by

**Prof. Dr. Z.M. NOFAL
Dr. H.M.F. MADKOUR
Dr. M.I. EL-ZAHAR**

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1998

THE UNITED STATES OF AMERICA
DEPARTMENT OF THE ARMY
WASHINGTON, D. C.

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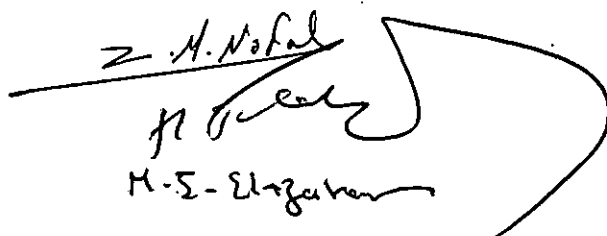
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**SYNTHESIS OF SOME NEWLY COUMARIN DERIVATIVES
INCORPORATED INTO OTHER HETEROCYCLES FOR
BIOLOGICAL EVALUATION**

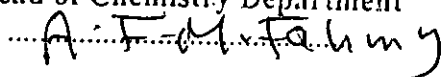
Advisors

Prof. Dr. Z.M. Nofal
Dr. H.M.F. Madkour
Dr. M.I. El-Zahar

Thesis Approved


Z. M. Nofal
H. M. F. Madkour
M. I. El-Zahar

Head of Chemistry Department


A. F. M. Fahmy

Prof. Dr. A.F.M. Fahmy

SYNTHESIS OF SOME NEWLY COMBINED BIPHENYL
INCORPORATED INTO OTHER HETEROCYCLES
BIOLOGICAL EVALUATION

Advisors

Prof. Dr. A.M. Negal
Dr. H.M. El-El
Dr. M.H. El-Say

Thesis Advisor

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

﴿ وَقُلْ رَبِّ زِدْنِي عِلْمًا ﴾

" صدق الله العظيم "

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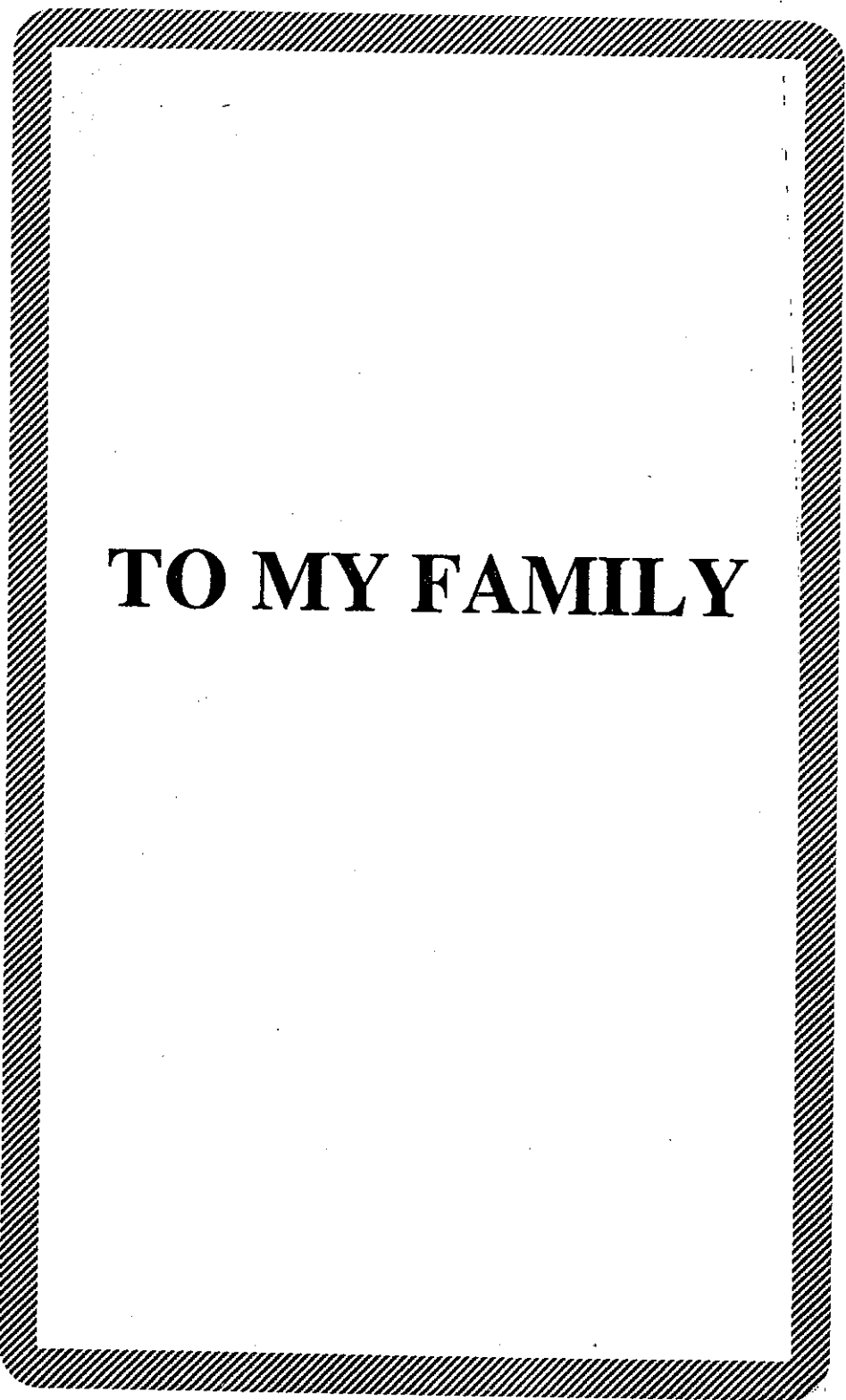
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TO MY FAMILY

Ain Shams University
Faculty of Science
Chemistry Department

POST GRADUATE STUDIES FOR M.Sc. STUDENT
IN ORGANIC CHEMISTRY

This is to certify that : Somaia Sayed Abd El-Karim attended and passed successfully the following post graduated courses as partial fulfillment of the requirement for the degree of Master of Science

1. Advanced studies in physical organic chemistry
 - i. Polar reaction mechanism.
 - ii. Pericyclic reaction.
2. Advanced studies in heterocyclic chemistry.
3. Advanced studies in "applied spectroscopic analysis", Electronic Spectra, Infrared, ^1H -NMR, ^{13}C -NMR and Mass Spectroscopy of organic chemistry.
4. Advanced studies in natural products.
5. Advanced studies in microanalysis
6. Advanced studies in polymer chemistry.
7. Advanced studies in aromaticity
8. Advanced studies in organic reagents
9. Advanced studies in organometallic compounds
10. Advanced studies in photochemistry
11. Advanced studies in free radical reaction mechanism
12. Selected topics in organic reactions
13. Courses in English language.

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