



Ain Shams University
Faculty of Education
Department of Chemistry

A Thesis Entitled

Synthesis and Biological Evaluation of some Novel Quinoline derivatives

Submitted By

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For getting

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in Science - Organic Chemistry**

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Synthesis and Biological Evaluation of some Novel Quinoline derivatives

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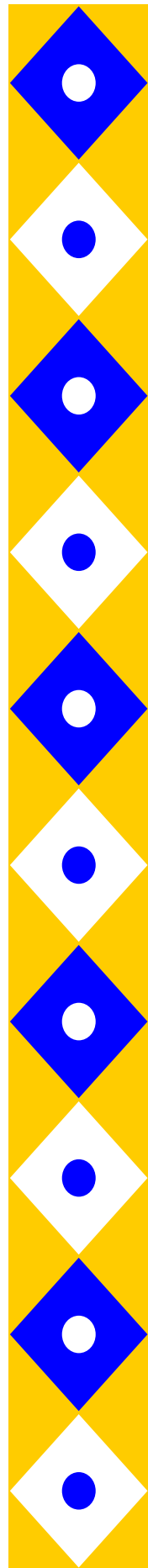
بسم الله الرحمن الرحيم

{ يَرْفَعُ اللَّهُ الَّذِينَ آمَنُوا مِنْكُمْ وَالَّذِينَ
أَوْثُوا الْعِلْمَ دَرَجَاتٍ }

عن أبي هريرة قال : قال رسول الله صلى الله عليه وسلم :

{ إذا مات ابنُ آدمَ انقطع عمله إلا
من ثلاث : صدقةٍ جاريتٍ أو علمٌ
ينتفع به أو ولدٌ صالحٌ يدعو له }

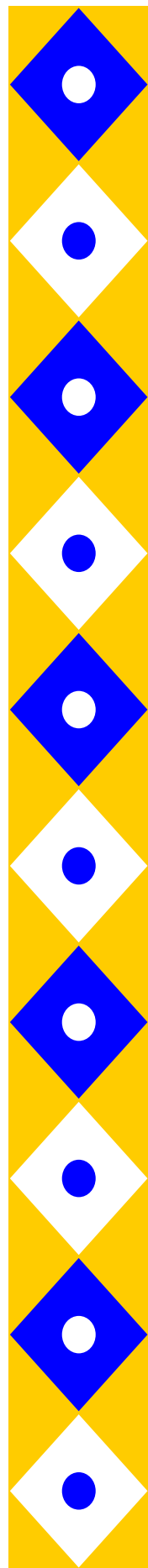
رواه مسلم.



Dedication to:

**Soul of my father
precious**

(Allah have mercy)



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3. Physical Chemistry 1
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5. Organic Chemistry 5: Organic Reactions.
6. English Language.
7. Educational Courses

III- Master Degree for Teacher`s Preparation in Science (Organic Chemistry):

AA Antioxidant Activity

A'i Absorbance of control

Ai Absorbance of sample at zero time,

A't Absorbance of control after incubation at 50 °C.

At Absorbance of sample after incubation at 50 °C

DMF Dimethylformam

DMFDMA N,N-dimethylformamide dimethyl acetal

DPPH Is a common abbreviation for the organic chemical compound 2,2-diphenyl-1-picrylhydrazyl. It is a dark-colored crystalline powder used in plant biochemistry to evaluate the properties of plant constituents for scavenging free radicals.

EAC Ehrlich Ascites Carcinoma cells

gCOSY (gradient Correlation Spectroscopy).

It is a two dimensional NMR technique where the crosspeaks appear between protons that have 3-bonds and proton-proton scalar coupling.

gHMBC (gradient Heteronuclear Multiple Bond Correlation).

It is a two dimensional NMR technique that allow for the determination of carbon correlations between carbons and protons that are separated by two, three, and, sometimes in conjugated systems, four bonds. The intensity of cross peaks depends on the coupling constant.

gHSQC (gradient heteronuclear Single Quantum Coherence).

It is a two dimensional NMR technique where one axis ^1H and the other is ^{13}C . this experimental does not have a diagonal and peaks appear for one H,C Correlation .

MOE Molecular Operating Environment

SCA The scavenging activity.

TBAB Tetrabutylammonium bromide

TBHQ Tertiary butylhydroquinone

THF Tetrahydrofuran

TLC Thin Layer Chromatography

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