



" نموذج ملخص الرسالة "

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عنوان الرسالة : " تشييد بعض المشتقات الحلقية غير المتجانسة الجديده ودورها في مكافحه القواقع الارضيه

ملخص الرسالة

ان الهدف الاساسى من هذه الرسالة هو تشييد بعض المركبات الحلقية الغير متجانسة الجديدة والتي تبدا من N-(4-استيل فنييل)-2-سيانو استاميد. (1) لانه على الرغم من الجهود المبذولة فانه عدد قليل من المركبات هي التي يمكن استخدامها كمبيدات قواقع فعالة والقليل منها فقط هو الذي يصل الحيز التقبييمى والتجاري.الى جانب انه نتيجة للاستعمال المكثف والمتكرر للمبيدات ادى الى زياده صفة المقاومة عند الكثير من الافات.ومن اهمها القواقع الارضية اختبار سمية بعض المركبات المحضرة فى الجزء الاول بعد عمل مسح مبدئى لكل المركبات ثم اختيار المركبات الاكثر تاثيرا.ثم اختبارها ضد واحده من اكثر الافات الضاره وهو قوقع الموناكا كارتيزينا و هو من اكثر الافات الارضية المنتشرة فى منطقة الدلتا و خاصة فى محافظة الدقهلية. ومنطقة البحر المتوسط مسببه التلف لاغلب المحاصيل .



"Dissertation abstract"

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Title: "synthesis of some new and heterocyclic derivatives and their roles for controlling land snails"	

Dissertation Abstract

The aim of this thesis is to synthesize some novel heterocyclic compounds starting from *N*-(4-acetyl phenyl)-2-cyanoacetamide (**1**). In spite of the efforts made by various groups in screening, only a few number of compounds exhibited much molluscicidal activity and fewer, reached to stage of extensive field evaluation and commercial Exploitation. and due to the intense and repeated uses of pesticides applications in agriculture resulted in increasing the resistance of pests. Therefore, the work has been divided into three parts; the first one is the synthesis of *N*-(4-acetyl phenyl)-2-cyanoacetamide (**1**) and studies its behavior towards some different nucleophiles and electrophiles to obtain polyfunctional substituted heterocyclic system .the second part coupling reaction with *p*-aminoacetophenone to obtain valuable heterocyclic compounds. The third part is the utility of some of cyanoacetamides compounds after made preliminary screening and chooses the more effective compounds prepared in the first part and evaluate the toxicity of some selected synthesized compounds against one of the most harmful animals' pests. *Monacha cartusiana* is one of the most commonly distributed land snails in Egypt, especially in *Dakahlia* governorate in the delta region and in the north of Mediterranean coastal strip causing damage to the majority of field crops.

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Aim of work

In spite of the efforts made by various groups in screening, only a Few number of compounds exhibited much molluscicidal activity and fewer, reached to stage of extensive field evaluation and commercial Exploitation.

This research project is a fruit of scientific cooperation between Menoufia faculty of science and plant protection research Institute, Ministry of Agriculture to search for a new series of synthetic hetero cyclic compounds and study their role as molluscicidal against the land snail, *Monacha Cartusiana*. This mollusk causes a great damage to many Egyptian field crops .therefore our research plan was directed to the following lines:-

Synthesis and preparation of some new hetero compounds that contain

1. **N, S, and O.** which may the reactivity of these compounds were related to these hetero atoms.
 2. Laboratory bioassay performance of these synthetic compounds against *Monacha Cartusiana*.
 3. The structure-elucidation of these compounds using spectral methods, such as IR, MS and ¹H-NMR spectroscopy.
 4. In light of that reports, the present investigations aimed to study the molluscicidal activity of certain cyanoacetamides derivatives against *Monacha Cartusiana* land snails.
 5. The synthetic compounds in this research may have more hazardous effect to the environment, however, we are just making the so-called preliminary blind screening until we find the suitable effective lead compounds, and then we can study modifying its properties and expand this study to evaluation of its biodegradability/stability as well as its effect on other organisms.
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