

رتبه اول خارجی

Foreign First Winner

Project Title:

Studies on The Chemical Constituents of Azadirachta Indica & Development of Botanical Pesticides

Researcher:

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Pakistan

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عنوان طرح:

مطالعه بر روی مواد شیمیایی موجود در درخت
Neem و استخراج مواد ضد حشره از آن

محقق:

دکتر بینا صدیقی

کشور:

پاکستان

دانشگاه:

کراچی

Abstract:

Studies have been undertaken on the chemical constituents of Azadirachta indica A.Juss (Meliaceae) with particular reference to their utilization in pest control for sustainable agricultural development. As result, about 100 new chemical constituents have been isolated and their structures elucidated. A significant achievement is the development of the pesticides of neem for the agricultural economy of the country, because they are cheap and have no toxic side effects in contrast to the highly toxic synthetic insecticides. After years long studies, a pesticidal composition based on neem (Azadirachta indica) has been formulated which is ready for large scale industrial utilization.

The government of Pakistan has granted a patent on one of the neem based pesticidal compositions. The product has also been registered and an agreement with a private company is signed which will take the product for marketing. More than 50 research articles on the constituents of this tree alone have been published. More than fifty percent of the compounds reported from neem by the scientists working all over the world have been contributed from this laboratory.

