

The Organizing Committee of the 4th International
Congress of Plants Biodiversity,
held at Marrakech from 05th to 08th October
2017, hereby certify that:

TITLE OF THE ABSTRACT:

Effect of some medicinal plant extracts to combat disease worm (*Ectomyelois ceratoniae* Zeller) in the date Deglet Nour (*Phoenix dactylifera* L.)

HAMADA Samra^{1,2} & BELHAMRA Mohammed³

1 Faculty of Natural Sciences, Department of biology, University of El-Chahid Hamma Lakhder El-Oued, Algeria.
hamadasamra5@yahoo.fr

2 Faculty of Natural Sciences, Department of biology, University of Kasdi Merbah Ouargla, Algeria.

3 Faculty of Exact Sciences & Natural Science, Department of Agriculture. University Mohammed Khider, Biskra, Algeria

Abstract:

The variety Deglet Nour *Phoenix dactylifera* is the most famous and exporters date with an annual production of 26.5 million q/years. Because of the spread of some diseases and pests, especially worm dates *Ectomyelois ceratoniae*, as well as birds are harmful to its production marvelous is lost annually between 20% to 30%, therefore the objective of this research, comes within the framework of agricultural development of wealth fruit of the date palms, and developing comprehensive strategy to combat diseases tree date palm. Applications of modern research appeared to control crop pests and vegetables, using of bioactive natural products as herbals, to protect agricultural production and human health. The first step of this research is the identification of medicinal plants collected, and selected of more than 20 plants, and to know the nature of the Principe active ingredients in each plant. As for the effect of some extracts applied, we find an influence effectively a percentage the death of the worm: *Allium sativum* (peel and cloves of garlic), *Artemisia herba alba*, *thapsia garganica*, *Teucrium polium*, *Euphorbia peplus*, *Solanum tuberosum*, *Papaver somniferum*, *Punica gratum*, and *Camellia sinensi*. The tested plant extracts are efficacy to combat against a disease worm dates *Ectomyelois ceratoniae*, and we can use them as insecticides.

Keywords: Deglet nour, *Phoenix dactylifera*, *Ectomyelois ceratoniae*, medicinal plant extracts.

References :

1-ACHOURA A. and BELHAMRA M.,(2010). Aperçu sur la faune arthropodologique despalmeraies d'El-Kantara, Université Mohamed Khider - Biskra, Algérie, N°10, pp93-101

2-DRIDI B., BAOUCHI H., BENSALAH K. & ZITOUN. A.,(2001). Présentation d'une nouvelle méthode biotechnique de lutte contre le ver de la datte *Ectomyelois ceratoniae* (Zell.) dite technique des insectes stériles. Première application dans le sud Est du pays. Recueils des communications, Journées techniques phytosanitaires : 58-71.