

OLIVE INSTITUTE
*Laboratory of Improving
Productivity of Olive Tree and
Product Quality*

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Mohamed GHRAB

Date and city of birth : September 09, 1971, Skhira

Nationality : Tunisian

Marital Status : Married



Professional Duties *Researcher (Plant Physiology and Ecology)*
Fruit Tree Section
Olive Institute – Tunisia

Research Laboratory “*Improving Productivity of Olive Tree and Product Quality*”, 2011-2014.

Research Laboratory “*Improving Productivity of Olive and Fruit Trees*”, 2006-2010.

Research Unit “*Production Systems of Olive and Fruit Trees*”, 2003-2005

Education

2006-2011 National Institute of Agronomy Tunisia

- PhD : Plant production sciences
- Theme: Deficit irrigation in fruit trees: Peach productivity and rootstock-cultivar interactions.

1994-1997 National Institute of Agronomy Tunisia

- Diploma of Specialized Engineer (3rd cycle Horticulture)
- Theme: Vegetative growth and yield of peach (*Prunus persica*, cv. Carnival) under deficit irrigation.

1990-1994 National Institute of Agronomy Tunisia :

- Diploma of Agronomic Engineer

1983-1990 Technical School Ali Bourguiba, Mahares

- Baccalaureate, Math - Sciences.

Publications

Ghrab, M., Ayadi, M., Gargouri, K., Chartzoulakis, K., Gharsallaoui, M., Bentaher, H., Psarras, G., Ben Mimoun, M., Masmoudi, M.M., Ben Mechli, N., 2014. Long-term effects of partial root-zone drying (PRD) on yield, oil composition and quality of olive tree (cv. Chemlali) irrigated with saline water in arid land. *Journal of Food Composition and Analysis*, 36:90-97.

- Ghrab, M., Masmoudi, M., Ben Mimoun, M., Ben Mechlia, N., 2014. Irrigation scheduling under water shortage: investigation of scion-rootstock of peach and water deficit combinations. *Water Science & Technology: Water Supply*, 14: 312-317.
- Ghrab, M., Ben Mimoun, M., Masmoudi, M.M., Ben Mechlia, N., 2014. The behavior of peach cultivars under warm climatic conditions in the Mediterranean area. *International Journal of Environmental Studies*, 71:3-14.
- Elloumi, O., Ghrab, M., Ben Mimoun, M., 2014. Effects of flower buds removal on seasonal starch storage and mobilization in fruiting and non-fruiting branches of pistachio trees cv. Mateur under dry and warm climate. *Scientia Horticulturae*, 172:19-25.
- Elloumi, O., Ghrab, M., Ben Mimoun, M., 2014. Disbudding treatments on pistachio trees cv. Mateur: dry matter accumulation and distribution within fruiting and non-fruiting branches under dry climate. *Trees*, doi 10.1007/s00468-014-0982-5.
- Salhi, H., Ben Mimoun, M., Ghrab, M., 2014. Chilling and Heat Requirements for Flowering of the Main Pistachio Tunisian Cultivar 'Mateur'. *Acta Horticulturae*, 1028:117-122.
- Chelli-Chaabouni, A., Ghrab, M., Ben Mimoun, M., 2014. Assessment of Some Reproductive Traits of Male Pistachio Genotypes in Tunisia. *Acta Horticulturae*, 1028:307-312.
- Elloumi, O., Ghrab, M., Ben Mimoun, M., 2014. Seasonal Dynamics of Macronutrients in Leaves and Shoots of Fruiting and Non-Fruiting Branches of 'Mateur' Pistachio Trees in Relation to Crop Load. *Acta Horticulturae*, 1028:385-390.
- Ghrab, M., Ben Mimoun, 2013. Effective Hydrogen Cyanamide (Dormex) Application on Bud Break, Flowering and Nut Yield of Pistachio Trees cv. Mateur in Warm Growing Areas. *Experimental Agriculture*, doi: 10.1017/S0014479713000550.
- Elleuch, A., Hamdi, I., Ellouze, O., Ghrab, M., Fakhfekh, H., Drira, N., 2013. Pistachio (*Pistacia vera* L.) is a New Natural Host of Hop stunt viroid. *Virus Genes*, doi 10.1007/s11262-013-0929-8.
- Elloumi, O., Ghrab, M., Kessentini, H., Ben Mimoun, M., 2013. Chilling Accumulation Effects on Performance of Pistachio Trees cv. Mateur in Dry and Warm Area Climate. *Scientia Horticulturae*, 159:80-87.
- Ghrab, M., Masmoudi, M.M., Ben Mimoun, M., Ben Mechlia, N., 2013. Plant- and Climate-Based Indicators for Irrigation Scheduling in Mid-season Peach Cultivar under Contrasting Watering Conditions. *Scientia Horticulturae*, 158:59-67.
- Ghrab, M., Gargouri, K., Bentaher, H., Chartzoulakis, K., Ayadi, M., Ben Mimoun, M., Masmoudi, M.M., Ben Mechlia, N., Psarras, G., 2013. Water Relations and Yield of Olive Tree (cv. Chemlali) in Response to Partial Root-Zone Drying (PRD) Irrigation Technique and Salinity under Arid Climate. *Agricultural Water Management*, 123:1-11.
- Ghrab, M., Zitouna, R., Ben Mimoun, M., Masmoudi, M.M., Ben Mechlia, N., 2013. Yield and Water Productivity of Peach Trees under Continuous Deficit Irrigation and High Evaporative Demand. *Biological Agriculture & Horticulture*, 29(1):29-37.
- Ghrab, M., Zribi, F., Ben Mimoun, M., Rhouma, A., 2012. Morphological Investigation of Genetic Diversity of Pistachio (*Pistacia vera*) Germplasm in Arid Land of Tunisia. *Plant Ecology & Evolution*,

145(3):363-372.

- Ghrab, M., Elloumi, O., Ben Mimoun, M., 2011. Physiological behavior of pistachio cultivars under rainfed conditions. *Acta Horticulturae*, 912:137-141.
- Gouta, H., Mars, M., Gouiaa, M., Ghrab, M., Zarrouk, M., Mliki, A., 2011. Genetic Diversity of Almond (*Prunus amygdalys batsch*) in Tunisia: A Morphological Traits Analysis. *Acta Horticulturae*, 912:351-358.
- Zribi, F., Ghrab, M., Mnaïki, N., Ayadi, M., Ben Mimoun, M., 2011. Biochemical characterization of pistachio germplasm in Tunisia. *Acta Horticulturae*, 912:469-476.
- Bensassi, F., Rhouma A., Ghrab, M., Bacha, H., Hajlaoui, M.R., 2010. Evaluation of Cultivar Susceptibility and Storage Periods Towards Aflatoxin B1 Contamination on Pistachio Nuts. *Mycotox Res*, DOI 10.1007/s12550-010-0054-7.
- Ghrab, M., Zribi, F., Ayadi, M., Elloumi, O., Mnaïki, N., Ben Mimoun, M., 2010. Lipidic Characterization of Local Pistachio Germplasm in Central and Southern Tunisia. *Journal of Food Composition and Analysis*, 23:605-612.
- Ghrab, M., Zribi, F., Chelli-Chaabouni, A., Gouta, H., Ben Mimoun, M., 2010. Genetic Diversity of Pistachio in Tunisia. *Options Mediterraneennes*, 94:221-228.
- Ben Mimoun, M., Ghrab, M., Ghanem, M., Elloumi, O., 2009. Effects of Potassium Foliar Spray on Olive, Peach and Plum. Part2: Peach and Plum Experiments. *e-ifc*, 19:14-17.
- Ben Mimoun, M., Ghrab, M., Ghanem, M., Elloumi, O., 2008. Effects of Potassium Foliar Spray on Olive, Peach and Plum. Part1: Olive Experiments. *e-ifc*, 17:14-17.
- Ghrab, M., Gargouri, K., Ben Mimoun, M., 2008. Long-term Effect of Dry Conditions and Drought on Fruit Trees Yield in Dryland Areas Of Tunisia. *Options Mediterraneennes*, 80:107-111.
- Gargouri, K., Rhouma, A., Sahnoun, A., Ghribi, M., Bentaher, H., Benrouina, B., Ghrab, M., 2008. Assessment of the Impact of Climate Change on Olive Growing in Tunisia Using GIS Tools. *Options Mediterraneennes*, 80:349-352.
- Ghrab, M., Ben Mimoun, M., 2008. Following Pistachio Footprints in Tunisia. *Scripta Horticulturae*, 7:101-104.
- Ayadi, M., Ghrab, M., Gargouri, K., Elloumi, M., Zribi, F., Ben Mimoun, M., Boulares, Ch., Guedri, W., 2006. Kernel Characteristics of Almond Cultivars under Rainfed Conditions. *Acta Horticulturae*, 726:377-381.
- Zribi, F., Ben Mimoun, M., Ghrab, M., Ayadi, M., Ben Salah, M., 2006. Split Rate and Nuts Oil Composition of Pistachio during Maturity Process. *Acta Horticulturae*, 726:533-537.
- Ghrab, M., Ben Mimoun, M., Gouta H., 2005. Mateur and Ohadi Cultivars Characteristics over Fifteen Years of Production in Sfax Semi-arid Region. *Options Mediterraneennes*, 63:39-42.
- Ghrab, M., Ben Mimoun, M., Gouta H., 2004. Pistachio Production in Tunisia. *FAO-CIHEAM– Nucis-Newsletter*, 12:19-21.
- Ghrab, M., Gargouri, K., Bentaher, H., 2004. Influence de l'Irrigation Goutte a Goutte par des Eaux Chargees sur un Sol Leger. *Options Mediterraneennes*, 57:63-67.
- Ben Mechlia, N., Ghrab, M., Zitouna, R., Ben Mimoun, M., Masmoudi, M., 2002. Cumulative Effect over Five Years of Deficit Irrigation on

- Peach Yield and Quality. *Acta Horticulturae*, 592:301-307.
- Gouta, H., Chelli-Chaabouni, A., Ghrab, M., Ben Aissa, I., Ben Mimoun, M., 2002. Preliminary Results on the Effects of Different Pistacia species Pollen on Fruit Characteristics of two Commercial Cultivars Mateur and El Guetar. *Acta Horticulturae*, 591:405-409.
- Ghrab, M., Ben Mimoun, M., Triki, H., Gouta, H., 2002. Evaluation of the Performance of Seventeen Male Pistachio-Tree Specimens. *Acta Horticulturae*, 591:473-477.
- Ghrab, M., Ben Mimoun, M., Triki, H., Hellali, R., 2002. Yield of Twenty Four Almond Cultivars in a Dry Area Climate in Tunisia: Five Years of Study. *Acta Horticulturae*, 591:479-485.
- Sahli A., Ghrab M., Ben Mechlia N., 1999. Approche méthodologique pour l'étude de la croissance chez le pêcher en relation avec l'alimentation hydrique. *Fruits*, 54 (3): 197-206.
- Ghrab M., Sahli A., Ben Mechlia N., 1998. Reduction in vegetative growth and fruit quality improvement in peach variety 'Carnival' through moderate watering restrictions. *Acta Horticulturae*, 465: 601-608.

Seminars and Symposiums

- Ghrab, M., Ben Mimoun, M., Masmoudi, M.M., Ben Mechlia, N., 2013. Water Relations of Scion-rootstock Combinations of Peach under Deficit Irrigation in Warm Production Area. VIII International Peach Symposium, 16-22 June, Matera, Italy.
- Ben Mimoun, M., Ghrab, M., Dabbabi, S., Ben Yahmed, J., Chaouchi, Z., Ajem, F., Pinochet, J., Gogorcena, Y., Moreno, M.A., 2013. Results on the Performance of Several *Prunus* Rootstocks for Peach. VIII International Peach Symposium, 16-22 June, Matera, Italy.
- Ghrab, M., Masmoudi, M.M., Ben Mechlia, N., 2012. Rootstock Effects on Water Relations of Peach Tree under Contrasting Watering Conditions. VII International Symposium on Irrigation of Horticultural Crops, 16-20 July 2012, Geisenheim, Germany.
- Ghrab, M., Elloumi, O., Ben Mimoun, M., 2009. Physiological Behaviour of Pistachio Cultivars under Rainfed Conditions. V International Symposium on Pistachios & Almonds, 25-30 May 2009, Sanluis, Turkey.
- Gouta, H., Mars, M., Gouiaa, M., Ghrab, M., Zarrouk, M., Mliki, A., 2009. Almond (*Prunus amygdalus* Batsch) Diversity in Tunisia. V International Symposium on Pistachios & Almonds, 25-30 May 2009, Sanluis, Turkey.
- Ghrab, M., Zribi, F., Ayadi, M., Elloumi, O., Mnaïki, N., Ben Mimoun, M., 2009. Lipid Characterisation of Local Pistachio Germoplasm in Tunisia. V International Symposium on Pistachios & Almonds, 25-30 May 2009, Sanluis, Turkey.
- Ghrab M., Ben Mimoun M., Masmoudi M.M., Ben Mechlia N., 2009. Warm climatic conditions effects on peach cultivars behavior in Tunisia. International Symposium on Peach, 5-9 June 2009, Spain.
- Ghrab M., Ben Mimoun M., Masmoudi M.M., Ben Mechlia N., 2009. Rootstock and deficit irrigation effects on early and season maturity peach cultivars. International Symposium on Peach, 5-9 June 2009, Spain.
- Zribi, F., Ghrab, M., Chelli-Chaabouni, A., Ben Mimoun, M., 2008. Genetic Diversity of Pistachio in Tunisia. XIV GREMPA Meeting on Pistachios & Almond, Athens, Greece.
- Ghrab, M., Ben Mimoun, M., Gouta, H., Chelli-Chaabouni, A., 2008. Nut Tree Crops in Tunisia: Current Situation and Perspectives. XIV

GREMPA Meeting on Pistachios & Almond, Athens, Greece.

Rhouma, A., Triki, M.A., Zribi, F., Elloumi, O., Ghrab, M., Khrouf, W., 2008. Detection and Quantification of Aflatoxin B1 in Pistachio Nuts. XIV GREMPA Meeting on Pistachios & Almond, Athens, Greece.

Ghrab, M., Gargouri, K., Ben Mimoun, M., 2008. Yield Performances of Drip Irrigated Almond Orchards in Arid Climate. XIV GREMPA Meeting on Pistachios & Almond, Athens, Greece.

Ghrab, M., Ben Mimoun, M., Gouta, H., 2003. Mateur and Ohadi Cultivars Characteristics over Ten Years of Production on Sfax semi-arid Region. XIII GREMPA Meeting on Pistachios & Almond, Mirandela, Portugal.

Gouta, H., Ayadi, F., Gouia, M., Ghrab, M., 2003. Bearing and Reproductive Potential of Three Autofertile Almond Cultivars Tuono, Lauranna and Supernova under Tunisian Semi-arid Conditions. XIII GREMPA Meeting on Pistachios & Almond, Mirandela, Portugal.

Goubantini, L., Ben Mimoun, M., Ghrab, M., Hellali, R., 2003. Effects of Boron (B), Potassium Nitrate (KNO₃), Nitrogen (UREA) and Zinc (Zn) Spray on Almond Tree Crop. XIII GREMPA Meeting on Pistachios & Almond, Mirandela, Portugal.

Languages

Arab : Excellent

French : Excellent

English : Good

Others activities

Member of Association of Agronomic Engineers

Member of El-Amen Association Supports Orphans and Needy People