

Curriculum vitae : Dr. Hechmi CHEHAB

MARITAL STATUS

Family circumstances : Married
Nationality : Tunisian
Date of birth : 27/ 04/1973
Birthplace: El Alem - SBIKHA- KAIROUAN



PERMANENT ADDRESSES

Olive Tree Institute – Station of Sousse
Email: cheheb2003@yahoo.fr
Phone 0021699661395

PROFESIONAL ACTIVITY

2003-2009: Research in Olive Tree Institute (Tree Physiology – Irrigation management)

FORMATION

Secondary Studies

1993 : Baccalaureate in Applied Sciences

Higher Studies

1998 : National Engineer in Horticulture (Height School of Horticulture - Sousse)

Doctoral Studies

2001 : Master in Agronomy Sciences (Agronomic National Institute of Tunisia).

2007 : PhD in Agronomic Sciences (Agronomic National Institute of Tunisia-INAT).

LANGUAGES

Arabic - French - English-Italian

TRAINING COURSES

2002 : International course : Euro-Mediterranean advanced course “Strategies of sustainable management of water resources for yield and quality enhancement in olive growing - Naples (December 1-8, 2002) Italy.

2003 : Training course of Doctoral studies in the Department of Arboricultural Fruit- University of Agronomy - Palermo (May 26 to September 17, 2003) Italy.

2007 : Training course : use of climatological hardware and software of data processing for irrigation management -University of Gent-Belgium; department of the plants Ecology (June 5 -19, 2007).

2009 : International course: Trends and Measurement of Crop Water Requirement – Catania (5-9 October 2009) Italy.

PUBLICATIONS

- 1- **Hechmi Chehab**, Mohammed Braham, Dalenda Boujnah, Fethi Ben Mariem, Zoubeir Mahjoub and Salem Ben Elhadj. 2002. Agronomic behaviours of two varieties of table olive-tree (Picholine and Manzanille) in connection water use under arid conditions. *Review of INRAT* 2002.
- 2- **Hechmi Chehab**, Mohammed Braham, Dalenda Boujnah, Fethi Ben Mariem, Zoubeir Mahjoub and Salem Ben Elhadj. 2004. Behaviors ecophysiological of three varieties of table olive tree (cv Meski, Pickled olive and Manzanille) in connection with water needs. *Review of INGRES* 2004.
- 3- **Hechmi CHEHAB**, Fathi BEN MARIEM , Mohamed BRAHAM , GHARIANI Wafa et Salem BELHADJ. 2006. Le Flux de sève et la conductance hydraulique chez l'Olivier de table (*Olea europaea*. L cv Meski et Picholine) sous différents régimes hydriques. *Revue des Régions Arides - Numéro spécial- Actes du séminaire international : Gestion des ressources et applications biotechnologiques en aridoculture et cultures oasisiennes : Perspectives pour la valorisation des potentialités du Sahara*. 576-581
- 4- **Hechmi Chehab**, Mohamed Braham, Dalenda Boujnah, Fethi Ben Mariem, Ghariani Wafa, Zoubeir Mahjoub and Salem Ben Elhadj 2007. Dynamics of hydraulic conductance of Olive tree (*Olea europaea* L., cv Meski) *Tropicicultura*. Volume 25 N°2, 103-107.
- 5- **Hechmi Chehab**, Mohammed Braham, Dalenda Boujnah, Fethi Ben Mariem, Zoubeir Mahjoub and Salem Ben Elhadj 2007: Estimate of hydraulic conductance using sap flow and leaf water potential of olive tree (*Olea europaea* L. cv Meski) *Review of INGRES* 2007.
- 6- **H. CHEHAB**, M. BRAHAM, F. BEN MARIEM, D. BOUJNAH AND S. BEN ELHADJ 2008: Preliminary results on sap flow, hydraulic conductance and the water consumption of Olive tree (*Olea europaea* L. cv Meski and Picholine) *Review of INRAT* 2007.
- 7- **Hechmi Chehab**, Beligh Mechri, Fethi Ben Mariem, Mohamed Hammami, Salem Ben El Hadj, Mohamed Braham 2009. Effect of different irrigation regimes on carbohydrate partitioning in leaves and wood of two table olive cultivars (*Olea europaea* L. cv Meski and Picholine). *Agricultural Water Management* 96: 293-298.
- 8- **Chehab, H.**, Mariem, F.B., Braham, M. and Elhadj, S.B. 2009. Sap Flow And Hydraulic Conductance Of Olive Tree (*Olea Europaea* L. Cv. Meski And Picholine) As Affected By Irrigation Regime. *Acta Hort.* (ISHS) 846:255-262.
- 9- **Hechmi CHEHAB**, Afef Haouari, Amani BCHIR, Raoul LEMEURE, Mohamed Braham. 2009. Automatic irrigation scheduling of olive orchard from sap flow records with the heat dissipation method . 1. Physiological validation. *Proceeding, Olivbioteq*: 201-207, 2009.
- 10- Samia Dabbou , **Hechmi Chehab** , Brahmî Faten , Sihem Dabbou , Sonia Esposto , Roberto Selvaggini , Agnese Taticchi , Maurizio Servili , Gian Francesco Montedoro , Mohamed Hammami. 2010. Effect of three irrigation regimes on Arbequina olive oil produced under Tunisian growing conditions. *Agricultural Water Management* 97 : 736-768.
- 11- B. Mechri, **H. Chehab**, F. Attia, F.B. Mariem, M. Braham, M. Hammami. 2010. Olive mill wastewater effects on the microbial communities as studied in the field of olive trees by analysis of fatty acid signatures. *European Journal of Soil Biology*. 46: 312-318.
- 12- Mechri B ; **Chehab H** , Boussadia O;; Ben Mariem F; Braham M; Ben El Hadj S, Hammami M .2011. Soluble carbohydrate pools in olive leaf nutrient concentration and chlorophyll a fluorescence in response to land spreading of olive mill waste water. *Environmental and Experimental Botany journal*. 71: 184-191.

- 13-Samia Dabbou, Sihem Dabbou, **Hechmi Chehab**, Faten Brahmi, Agnese Taticchi, Maurizio Servili & Mohamed Hammami. 2011. Chemical composition of virgin olive oils from Koroneiki cultivar grown in Tunisia with regard to fruit ripening and irrigation regimes. *International Journal of Food Science and Technology* 2011, 46, 577–585.
- 14-Manel Issaoui, Guido Flamini, **Hechmi Chehab**, Pierluigi Cioni, Mohamed Braham, Mohamed Hammami. 2013. Irrigation Regimes And Growing Area Effects On Chétoui Olive Oil Quality. *Journal Of Food Biochemistry*. 37, 185-192.
- 15-Afef Haouari, Marie Christine Van Labeke, **Hachmi Chehab**, Fathi Ben Meriem, Katty Steppe and Mohamed Braham, 2011. Effect of leaf-to-fruit ratio and girdling on gas exchanges, fruit growth and carbohydrate contents at different stages of fruit-development of *Olea europaea* L. 'Picholine', *Acta Horticulturae* 924.
- 16- B. Mechri, M. Issaoui, A. Echbili, **H. Chehab**, F.B. Mariem, M. Braham, M. Hammami. 2009. Olive orchard amended with olive mill wastewater: Effects on olive fruit and olive oils quality. *Journal of Hazardous Materials* 172, 1544-1550
- 17-Dabbou, Samia ; Brahmi, Faten ; Selvaggini, Roberto ; **Chehab, Hechmi** ; Dabbou, Sihem; Taticchi, Agnese; Servili, Maurizio; Hammami, Mohamed 2011: Contribution of irrigation and cultivars to volatile profile and sensory attributes of selected virgin olive oils produced in Tunisia. *International Journal of Food Science and Technology* 2011, 46 (9), 1964–1976.
- 18-Manel Issaoui, Guido Flamini, Kaouther Ben Hassine, **Hechmi Chehab**, Faten Brahmi & Mohamed Hammami 2009. Improvement of Chemlali olive oil oxidative stability by blending with Chetoui and Rekhani cultivars. *International Journal of Food Science and Technology*. 44, 1323–1332.
- 19-Manel Issaoui, Samia Dabbou, Beligh Mechri Amel Nakbi, **Hechmi Chehab**, Mohamed Hammami. 2011 . Fatty acid profile, sugar composition, and antioxidant compounds of table olives as affected by different treatments. *Eur Food Res Technol.*, 232, 867-876.
- 20- Samia Dabbou , Manel Issaoui, Feten Brahmi, Amel Nakbi, **Hechmi Chehab**, Beligh Mechri, Mohamed Hammami. 2011 .Changes in Volatiles Compounds During Processing of Tunisian-Style Table Olives. *J Am Oil Chem Soc.* (89), 347-354.
- 21-Manel Issaoui, Kaouther Ben Hassine, Guido Flamini , Faten Brahmi, **Hechmi Chehab**, Youssef Aouni, Beligh Mechri, Mokhtar Zarrouk And Mohamed Hammami. 2009. Discrimination Of Some Tunisian Olive Oil Varieties According To Their Oxidative Stability, Volatiles Compounds And Chemometric Analysis. *Journal of Food Lipids* **16** (2009) 164–186.
- 22-Manel Issaoui , Guido Flamini , Faten Brahmi , Samia Dabbou , Kaouther Ben Hassine , Amani Taamali , **Hechmi Chehab** , Myriem Ellouz , Mokhtar Zarrouk , Mohamed Hammami. 2009. Effect of the growing area conditions on differentiation between Chemlali and Chétoui olive oils. *Food Chemistry* 119, 220-225.
- 23-Manel Issaoui, **Hechmi Chehab**, Faouzi Attia, Guido Flamini, Beligh Mechri, Mohamed Braham, Cioni Pier Luigi and Mohamed Hammami. 2012. Influence of two maturation stages and three irrigation regimes on Chétoui olive oil quality. **African Journal of Agricultural Research** Vol. 6(29), 4124-4130.

- 24-Meriem Tekaya, Beligh Mechri, Amani Bchir, Faouzi Attia, **Hechmi Chehab**, Mohamed Daassa and Mohamed Hammami. **2013**. Effect of nutrient-based fertilisers of olive trees on olive oil quality. *J Sci Food Agric* (93), **2045-2052**.
- 25- Meriem Tekaya, Beligh Mechri, Amani Bchir, Faouzi Attia, **Hechmi Chehab**, Mohamed Daassa and Mohamed Hammami. **2013**. Enhancement of antioxidants in olive oil by foliar fertilization of olive trees. *Journal of the American Oil Chemists* (2013).
- 26- Faten Brahmi, **Hechmi Chehab**, Guido Flamini, Madiha Dhibi, Manel Issaoui, Maha Mastouri and Mohammed Hammami. **2013**. Effects of Irrigation Regimes on Fatty Acid Composition, Antioxidant and Antifungal Properties of Volatiles from Fruits of *Koroneiki* Cultivar Grown Under Tunisian Conditions. *Pakistan Journal of Biological Sciences*. (22) **1469-1478**.
- 27-Hechmi Chehab**, Manel Issaoui, Guido Flamini, Beligh Mechri, Faouzi Attia, Cioni Pier Luigi, Dalenda Boujnah and Mohamed Hammami. 2013. Oil quality and aroma composition of 'Chemlali' olive trees (*Olea europaea* L.) under three irrigation regimes. *African Journal of Agricultural Research*. Vol. 8(48), pp. 6291-6299.
- 28- Beligh Mechri, Faouzi Attia, Meriem Tekaya, **Hechmi Chehab**, Mohamed Hammami. 2014. Agronomic application of olive mill wastewaters with rock phosphate increase the 10Me18:0 fatty acid marker of actinomycetes and change rhizosphere microbial functional groups under long-term field conditions. *Soil Biology & Biochemistry* 70 (2014) 62-65.
- 29-Beligh Mechria, Anicet G.B. Manga, Meriem Tekaya, Faouzi Attia, **Hechmi Chehab**, Fethi Ben Meriemd, Mohamed Brahamd, Dalanda Boujnahd, Mohamed Hammamia.2014. Changes in microbial communities and carbohydrate profiles inducedby the mycorrhizal fungus (*Glomus intraradices*) in rhizosphere of olive trees (*Olea europaea* L.). *Applied Soil Ecology* 75, 124– 133
30. Beligh Mechri, Faouzi Attia, Meriem Tekaya, **Hechmi Cheheb**, Mohamed Hammami. Colonisation of olive trees (*Olea europaea* L.) with the arbuscular mycorrhizal fungus *Glomus* sp modified the glycolipids biosynthesis and resulted in accumulation of unsaturated fatty acids. *Journal of Plant Physiology*. 2014.
- 31- **Hechmi Chehab**, Baligh Mechri, Faouzi Attia, Raoul Lemeur, Mohamed Hammami, Mohamed Braham, Dalenda Boujnah. **2014**. Effects of Two Drip-Irrigation Regimes on Sap Flow, Water Potential and Leaf Photosynthetic Function of Mature Olive Trees. *African Journal of Agricultural Research Vol 9* (31) 2443-2452.
- 32- Meriem Tekaya, Beligh Mechri, **Hechmi Chehab**, Faouzi Attia, Imed Chraief, Mouna Ayachi, Dalenda Boujnehd, Mohamed Hammami. **2014**. Changes in the profiles of mineral elements, phenols, tocopherols and soluble carbohydrates of olive fruit following foliar nutrient fertilization. *LWT - Food Science and Technology*. 105, 1-7.