

# CURRICULUM VITAE



## 1. PERSONAL DATA

Family Name : HAOUALA

First Name : Faouzi

Present Position : Professor

Professional address : Al-Imam Muhammad Ibn Saud Islamic University

College of Science

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## 2. KEY WORDS

Plant biology, Plant ecophysiology, Horticulture, Biodiversity, Plant biotechnology.

## 3. EDUCATION

1999 : **PhD (Doctor's Degree) in Biological Sciences** (Option : Plant Physiology) , Faculty of Science, University Tunis El Manar, Tunis, Tunisia. Mention : Excellent

1990 : **Certificate of Advanced Studies** (Plant Physiology) Faculty of Science, University Tunis El Manar, Tunis.

1986 : **Certificate of Specialized Engineer (Horticulture Sciences)**, High National School of Horticulture (ENSH), Versailles - France.

1984 : **Certificate of Horticultural Engineer**, High School of Horticulture, Chott-Mariem, Sousse - Tunisia.

## 4. PEDAGOGICAL ACTIVITIES

- January 2016: Professor, at Al-Imam Muhammad Ibn Saud Islamic University, College of Science

- 2013-2015 : Professor, at the National Agronomic Institute of Tunisia, Tunis (Tunisia)
- 2009-2013 : Associate Professor, at the National Agronomic Institute of Tunisia, Tunis (Tunisia)
- 1991-2009 : Assistant Professor, at the Higher Agronomic Institute of Chott Mariem, Sousse (Tunisia)
- 1987-1991: Assistant, at the Higher Agronomic Institute of Chott Mariem, Sousse (Tunisia)
- Supervision and evaluation of students in their thesis (PhD and Master of Science) and research projects.
- Member of the Board of Master and PhD in “Agricultural Sciences – Plant Production” at the National Agronomic Institute of Tunisia, Tunis (Tunisia).

## 5. PUBLICATIONS

### a- Books (or chapters of book)

1. Chaïeb E., **Haouala F.**, 2013. Callogenèse et régénération de pousses de glaïeul sous stress salin (Callogenesis and regeneration of shoots of *Gladiolus* under salt stress). Presses Académiques Francophones (eds), Saarbrücken, Deutschland, 79 p.
2. Falconnet G., **Haouala F.** and Hamrouni A., 2007. Guide technique du reboisement en Tunisie (Technical guide for reforestation in Tunisia). Projet UTF/TUN/032/TUN. Ministry of Agriculture and Hydraulic Resources (ed), Tunis, Tunisia, 288 p.
3. **Haouala F. et al.**, 2005. Ornamental Plants in Tunisia: flowers, shrubs and trees (in Arabic). Ministry of Agriculture and Hydraulic Resources (ed), Tunis, Tunisia, 117 p.

### b- Research papers

4. El Chaieb E., **Haouala F.**, 2016. Mise au point des techniques de micropropagation pour une multiplication massive de *Gladiolus segetum* et *Gladiolus dubius*. European Scientific Journal, Vol 12, N° 6, p 224-234.
5. Ferjani H., **Haouala F.**, Mars M., 2015. Morphological and karyological studies in two wild iris species (*Iridaceae*) of Tunisia. European Scientific Journal, Vol 11, N° 3, p 175-185.
6. El Chaieb E., **Haouala F.**, 2015. Analysis of diversity among wild *Gladiolus* (*Gladiolus sp.*) accessions using morphological traits. International Journal of Agronomy and Agricultural Research, Vol 6, N° 1, p 54-62.

7. Ben Cheikh Z., **Haouala F.**, Harzallah-Skhiri F., 2015. Morphometric variation and taxonomic identification of thirteen wild rose populations from Tunisia. *Acta Botanica Croatica*, 74 (1), p 1-17.
8. **Haouala F.**, Hajlaoui N., Ben Cheikh-Affene Z., 2013. Enhancing seed germination in rose (*Rosa rubiginosa* L.). *Medicinal & Aromatic Plants*, Volume 2, Issue 6, p 1-4.
9. Ben Cheikh-Affene Z., **Haouala F.**, Trabelsi N., Boulaaba M., Ksouri R., Harzallah-Skhiri F., 2013. Pomological description and chemical composition of rose hips gathered on four *Rosa* species section *Caninae* growing wild in Tunisia. *International Journal of Agricultural Science and Technology*, Volume 1, Issue 3, p 43-50.
10. Ben Cheikh-Affene Z., Chaieb I., **Haouala F.**, Harzallah-Skhiri F., 2013. Effects of wild rose (*Rosa sp.*) crude seed extracts on two legume aphids. *Pharmacognosy Communications*, Vol 3, Issue 2, p 45-49.
11. Chaïeb E., **Haouala F.**, 2013. Caractérisation morphologique des glaïeuls (*Gladiolus sp.*) spontanés en Tunisie. *Tunisian Journal of Medicinal Plants and Natural Products*, 9 (1), p 97-106.
12. **Haouala F.**, Chaïeb E., 2012. Effects of explant position and polarity on callus induction and shoot regeneration of *Gladiolus* (*Gladiolus hybridus* Hort.). *Floriculture and Ornamental Biotechnology* 6 (Special Issue 2), p 133-139.
13. **Haouala F.**, Salhi I., 2012. Axillary budding and rooting of gladiolus (*Gladiolus grandiflorus* Hort.) in salt stress conditions. *African Journal of Horticultural Science*, 6, p 101-110.
14. Chehaibi S., Abrougui K., **Haouala F.**, 2012. Comparative study of the impact of two mechanical perforation densities on the behaviour of a sandy soil. *Progress in Agricultural Engineering Sciences*, Vol 8, N°1, p 37-48.
15. Ferjani H., Gandour M., Abdelly C., **Haouala F.**, Mars M., 2012. Isozyme polymorphism and genetic diversity in *Iris sisyrinchium* species. *Tunisian Journal of Medicinal Plants and Natural Products*, 7, p 5-11.
16. **Haouala F.**, Salhi I., 2011. Effets de NaCl sur la croissance, la floraison et la bulbaison du glaïeul (*Gladiolus grandiflorus* Hort.). *Revue Suisse de viticulture arboriculture horticulture*, 43 (6), p 378-383.
17. **Haouala F.**, Farhat N. et Chabchoub L., 2010. Effets du type et de la position de l'explant sur l'induction de cals chez le gerbera (*Gerbera jamesonii* Bolus)". *Tropicultura*, 28, 1, p 57-60.

18. **Haouala F.** et Jaziri F., 2009. *In vitro* propagation of carnation (*Dianthus caryophyllus* L.) under salt stress. Pakistan Journal of Biotechnology, Volume 6 (1-2), p 27-30.
19. **Haouala F.**, Chaïeb E., 2008. Growth and flowering of gladiolus (*Gladiolus grandiflorus* Hort.) cultivated under salt stress. Proceedings of the 6<sup>th</sup> International Symposium Agro Environ (Turkey), p 180-184.
20. **Haouala F.**, Ferjani H., Ben El Hadj S., 2007. Effet de la salinité sur la répartition des cations ( $\text{Na}^+$ ,  $\text{K}^+$  et  $\text{Ca}^{2+}$ ) et du chlore ( $\text{Cl}^-$ ) dans les parties aériennes et les racines du ray-grass anglais et du chiendent. Biotechnologie, Agronomie, Société et Environnement (BASE), 11 (3), p 235-244.
21. **Haouala F.**, 2006. Ornamental Plant Production in North Africa. In : Floriculture, Ornamental and Plant Biotechnology : Advances and Topical Issues (1<sup>st</sup> Edition), Teixeira da Silva JA (ed), Global Science Books, Japan, pp 348-351.
22. **Haouala F.**, Ferjani H., Ben Elhadj S., 2006. Effets de la salinité sur le comportement du chiendent et du ray-grass anglais. Espaces verts et Paysage (supplément de PHM - Revue horticole), n° 478, mars 2006, p 19-23.
23. **Haouala F.**, Zid E., 2005. Differentiation of shoot buds from internode callus and plant regeneration in carnation (*Dianthus caryophyllus* L.). Advances in Horticultural Science, 19 (4), p 187-192.
24. Chehaibi S., **Haouala F.**, Fradi I., 2005. Mécanisation des espaces verts : Etude comparative des performances de deux tondeuses de greens de golf. Actes du Congrès International de la Mécanisation Agricole (Tunisie), p 317-321.
25. **Haouala F.**, 2005. Redynamiser la production de fleur coupée en Tunisie. PHM - Revue horticole, 470, p 31-34.
26. **Haouala F.**, Jelled I., 2005. Croissance et floraison de 4 cultivars de glaïeul en culture de saison en Tunisie. PHM - Revue horticole, 467, p 18-22.
27. **Haouala F.**, Hannachi C., Zid E., 2003. Exploitation de la variabilité somaclonale pour la recherche d'œillet (*Dianthus caryophyllus* L.) tolérant à la salinité. Tropicultura, 21, 1, p 16-21.
28. **Haouala F.**, 2002. Effets de la salinité sur la croissance et la floraison de 2 variétés d'œillet. PHM - Revue horticole, 439, p 28-32.
29. **Haouala F.**, 2002. Floral cultivation in Tunisia : situation and future prospects. Proceedings of the meeting "Flowers for the Future", FAO (eds), p 77-83.

- 30. Haouala F.**, Bettaïeb T., 2002. Développement et nutrition de deux variétés d'œillet (*Dianthus caryophyllus* L.) en condition de contrainte saline. Revue de l'Institut National Agronomique de Tunisie, 17, 2, p 103-118.
- 31. Haouala F.**, Zouari M., 2001. *Strelitzia reginae* : effets du développement végétatif sur la production d'inflorescences d'une culture de plein air. PHM - Revue horticole, 426, p 30-33.
- 32. Haouala F.**, Zid E., 2001. Caractéristiques morphologiques et physiologiques de vitroplants d'œillet (*Dianthus caryophyllus* L.) régénérés sous stress salin. Bulletin de la Société des Sciences Naturelles de Tunisie. Tome 28, 2000/2001, p 72-82.
- 33. Haouala F.**, Zid E., 1992. Effets de la salinité sur la croissance et la nutrition minérale du rosier de serre. Bulletin de la Société des Sciences Naturelles de Tunisie. Tome 20-21, 1991/92, p 78-85.
- 34. Haouala F.**, Mkada J., 1990. Les cultures ornementales en Tunisie. Situation actuelle et perspectives de développement. Revue de l'Institut National Agronomique de Tunisie, 5, 1, p 5-10.
- 35. Krichen R., Haouala F.**, Bettaïeb T., 1990. La production de roses sous grand tunnel plastique au Sahel de Sousse et les perspectives de développement. Acta Horticulturae, 263, p 53-58.
- 36. Haouala F.**, Zid E., 1990. Irrigation effects with briny water on growth of rose flowering shoot. XXIII<sup>th</sup> International Horticultural Congress, Firenze (Italy). Report of contributed papers, p 1312.
- 37. Haouala F.**, 1988. Culture du rosier (*Rosa* L.) sur laine de roche. Etude comparative de la croissance de trois types de plants. Agronomie et horticulture, 4, 3, p 1-12.

### **c- Publishing journals**

Reviewer in the following journals:

- 1- Dynamic Soil, Dynamic (Global Science Books Edition, Japan)
- 2- Plant Functional Plant Science and Biotechnology (Global Science Books Edition, Japan)
- 3- Plant Stress (Global Science Books Edition, Japan)
- 4- The African Journal of Plant Science and Biotechnology (Global Science Books Edition, Japan).
- 5- Journal of Agricultural Science and Technology (David Publishing Company, USA)
- 6- Asian Journal of Agriculture and Biology (Islamabad Campus, Pakistan).

### **6. PRESENTATION AT MEETINGS AND CONFERENCES**

- **Haouala F.**, Hajlaoui N., Ben Cheikh-Affene Z., 2013. Enhancing seed germination in rose (*Rosa rubiginosa* L.). Oral presentation at the 5<sup>th</sup> Global Summit on Medicinal and Aromatic Plants, Miri (Malaysia).
- Ben Cheikh Z., Chaieb I., **Haouala F.**, Harzallah-Skhiri F., 2012. Effects of wild rose (*Rosa sp.*) crude seed extracts on legume aphids. Oral presentation at the 3<sup>rd</sup> International Symposium on Medicinal Plants, Their Cultivation and Aspects of Uses, Petra (Jordan).
- **Haouala F.**, Salhi I., 2012. Production of gladiolus (*Gladiolus grandiflorus* Hort.) vitro plants by newly formed buds in salt stress conditions. Poster presented at the 1<sup>st</sup> Biotechnology World Congress, Dubai (UAE).
- El Chaïeb E., **Haouala F.**, 2010. Regeneration of shoots of gladiolus (*Gladiolus grandiflorus* Hort.) from calli in salt stress conditions. Poster presented at the International Days of Biotechnology, Hammamet (Tunisia).
- **Haouala F.**, Ben Cheikh Z., 2009. Biological diversity and uses of roses. Oral presentation at the International Congress on biodiversity, Sebha (Libya).
- **Haouala F.** and Ben Cheikh Z., 2009. The eglantine (*Rosa canina* L.) in Tunisia : morphological characterization and uses. Poster presented at the International Congress on Aromatic and Medicinal Plants, Marrakech (Morocco).
- Ben Cheikh Z., **Haouala F.**, Hannachi C. and Mars M., 2008. Initiation of *in vitro* preservation of Tunisian wild roses (*Rosa sempervirens* L.). Poster presented at the Kantaoui Forum, Tunisia-Japan Symposium on society, science and technology 9<sup>th</sup> Edition, Sousse (Tunisia).
- **Haouala F.** and Chaïeb E., 2008. "Growth and flowering of gladiolus (*Gladiolus grandiflorus* Hort.) cultivated under salt stress". Oral presentation at the 6<sup>th</sup> International Symposium Agro Environ, Antalya (Turkey).
- **Haouala F.**, Bettaieb T., El Fekih I. and Ben Mahmoud A., 2003. "Pollinization and production of seeds for *Strelitzia reginae*". Poster presented at the XIII<sup>th</sup> national days of Biology, Jerba (Tunisia).
- **Haouala F.** and Ferjani H., 2002. "Effects of salt water use on growth and quality of grass". Oral presentation at the 9<sup>th</sup> National days of agronomic research results, Nabeul (Tunisia).
- **Haouala F.**, 2002. "Floral cultivation in Tunisia : situation and future prospects". Oral presentation at the Regional Expert Meeting on Flowers for the Future, organized by FAO, Izmir (Turkey).

- **Haouala F.** and Zid E., 2001. "Physiological and morphological modifications of carnation vitroplants (*Dianthus caryophyllus* L.) cultivated under salt stress". Oral presentation at the XII<sup>th</sup> national days of Biology, Monastir (Tunisia).
- **Haouala F.** and Zid E., 2000. "Development, nutrition and salinity tolerance of carnation vitroplants (*Dianthus caryophyllus* L.) regenerated under salt stress". Oral presentation at the XI<sup>th</sup> national days of Biology, Monastir (Tunisia).
- **Haouala F.**, Zid E. and Harbaoui Y., 1996. "Salinity tolerance of carnation (*Dianthus caryophyllus* L.) *in vivo* and *in vitro*". Poster presented at the Mediterranean Colloquium on protected cultivation. Agadir (Morocco).
- Krichen R. and **Haouala F.**, 1996. "Cut flowers sector in Tunisia : position and prospects". Oral presentation at the Colloquium on 'Development prospects of flowers cultivation in Tunisia', organized by the Promotion Agency of Agricultural Investment (APIA). Tunis (Tunisia).
- **Haouala F.**, 1995. "Creation and upkeep of sport grass". Conferences given to technicians responsible of the upkeep of sport stadium, dependent of Ministry of Infancy and Youth. Tunis (Tunisia).
- **Haouala F.**, Zid E., 1990. "Irrigation effects with briny water on growth of rose flowering shoot". Poster presented at the XXIII<sup>th</sup> International Horticultural Congress, Firenze (Italy).
- Krichen R., **Haouala F.** and Bettaïeb T., 1988. "Rose Production under plastic-house in the area of Sousse (Tunisia). Oral presentation at the International Symposium organized by the International Society for Horticultural Science (ISHS). Jerba-Tozeur (Tunisia).

## 7. PhD THESIS SUPERVISION

1- "Characterization and improvement of spontaneous Iris (*Iris sp.*) ecotypes in Tunisia".

Student: Hanen Ferjani

National Agronomic Institute of Tunisia (INAT), Tunis, Tunisia.

2- "Characterization and valorization of spontaneous gladiolus (*Gladiolus sp.*) in Tunisia".

Student: Emna El Chaïeb

High Agronomic Institute of Chott-Mariem, Sousse (Tunisia).

٣- "Tunisian coastline between environmental threats and planning and development efforts".

Student: Yosra Regaya

High Agronomic Institute of Chott-Mariem, Sousse (Tunisia).

٤- "Mechanisms of morpho-physiological and biochemical adaptation of seedlings of *Laurus nobilis* L. to salt stress".

Student: Amina Ben Ayed

National Agronomic Institute of Tunisia (INAT), Tunis, Tunisia.

5- "Study of growth and composition of essential oils of geranium (*Pelargonium capitatum*) grown under salt stress".

Student: Selma Zgolli

National Agronomic Institute of Tunisia (INAT), Tunis, Tunisia.

6- "Heritage and archaeological landscape of the city of Mahdia: inventory and prospects".

Student: Monia Ezzaïem

High Agronomic Institute of Chott-Mariem, Sousse (Tunisia).

7- "Richness and diversity of the landscape in southern Tunisia: status and analysis".

Student: Chourouk Ben Salah

High Agronomic Institute of Chott-Mariem, Sousse (Tunisia).

## **8. MASTER OF SCIENCE THESIS SUPERVISION**

- El Chaieb E., 2010. Shoot regeneration of gladiolus (*Gladiolus grandiflorus* Hort.) in salt stress conditions. Dissertation presented to obtain Master degree (Sustainable Agriculture), Higher Agronomic Institute of Chott Mariem– Sousse, January 7, 2010.
- Ben Cheikh Z., 2007. Morphological characterization of a wild rose (*Rosa canina* L.) population in the area of Zaghuan (Tunisia). Dissertation presented to obtain Master degree (Sustainable Agriculture), Higher Agronomic Institute of Chott Mariem– Sousse, January 6, 2007.
- Salhi I., 2007. Contribution to the study of salinity tolerance of *Gladiolus* (*Gladiolus grandiflorus* Hort.). Dissertation presented to obtain Master degree (Sustainable Agriculture), Higher Agronomic Institute of Chott Mariem– Sousse, January 6, 2007.
- Jaziri F., 2005. Vegetative propagation under salt stress of two cultivars of carnation (*Dianthus caryophyllus* L.). Dissertation presented to obtain Master degree (Sustainable Agriculture), Higher Agronomic Institute of Chott Mariem– Sousse, July 7, 2005.
- Ferjani H., 2004. Contribution to the ecophysiology of salinity tolerance for Poaceae grasses. Dissertation presented to obtain Master degree (Agronomy and Improvement of Plant Production), National Agronomic Institute of Tunisia, October 22, 2004.

## **9. END STUDIES PROJECTS SUPERVISION**

Supervision of 68 end studies projects at the National Agronomic Institute of Tunisia and the Higher Agronomic Institute of Chott-Mariem (Tunisia).