Curriculum Vitae

General Particulars:

First name: Samia

Family name: Gargouri

Born in/at: Tunis/Tunisia 21/02/1972

Address: Laboratoire de Protection des Végétaux, Institut National de la Recherche Agronomique de Tunisie, rue Hédi Karray, 2049. Tunisia

email: sgargouri90@gmail.com

Education:

BSc: Agronomy, June 1994, National Institute of Agronomy, Tunisia

MSc. Molecular Biology, November 1998, Faculty of Sciences, Tunisia

PhD Molecular Biology, July 2003, Faculty of Sciences, Tunisia

Languages:

English: fluent

French: very fluent

Arabic: very fluent

Employment:

2004- Senior Researcher (Plant Pathology)

Current research

- Survey and identification of soilborne diseases of wheat (*Fusarium* spp, *Gaeumannomyces* spp. and *Oculimacula* spp)
- Cultural techniques for management of soilborne diseases of wheat (rotations, no-till and seed treatment)
- Biology and ecology of *F. culmorum*
- Taxonomy and ecology of *Fusarium* species.

Professional Experience and Award

- Award from the Fulbright Foundation at the Department of Plant Pathology (Washington State University), July-October 2015: Molecular Identification of Fusarium and Screening for resistance to eye spot of wheat.
- Coordination of the First North African *Fusarium* Workshop , 28 May-1 Jun**e** 2012
- Individual training award (Crawford Fund) in integrated disease management strategies for soil-borne pathogens of wheat in direct drill/no-till cropping systems, 7-20 November 2009.
- Local organization of the Third International Master Class on Soilborne pathogens of wheat, 28 april-9 may 2008.
- Japan capacity building program for African Agricultural Research, CIMMYT, Mexico: Development of analytical tools to study pathogenicity and toxigenicity of Fusarium species associated with Fusarium head blight in wheat.January 6th-February 25th 2007.
- Reseach Fellowship from the International Foundation for Science (C/4026-1) to study Fusarium Head Blight in Tunisia.

Teaching:

- September-December 1999: Cell biology and Animal biology to undergraduate students at National Institute of Agronomy ,Tunisia
- September- 2014: General Mycology to undergraduate students at High School of Applied Biotechnology, Tunisia

Involvement in International Project

- EU-IFAD Project (European Union- International Fund for Agricultural Development) " Enhanced small-holder cropping systems to improve food security under changing climate in the drylands of west Asia and North Africa,
- CANA Project "Adapting Conservation Agriculture for Rapid Adoption by Smallholder Farmers in North Africa, CSE-2011-025**,** 2012-2015.

Publications

- Gargouri S., Berraies S., Gharbi M. S., Paulitz T., Murray T. and Burgess L. W. 2017. Occurence of sclerotinia stem rot of fenugreek caused by *Sclerotinia trifoliorum* and *S. sclerotiorum* in Tunisia. European Journal of Plant Pathology, DOI: 10.1007/s10658-017-1208-7
- Mnasri N., Chennaoui C., Gargouri S. Ridha Mhamdi , Hessini K.,Elkahoui S. and Djébali N. 2016. European Journal of Plant Pathology, DOI 10.1007/s10658-016-1018-3
- Chekali S., Gargouri S., Rezghui M., Paulitz T. and Bouzid N. 2016. Impacts of previous crops on Fusarium foot and root rot, and on yields of durum wheat in North West Tunisia. Phytopathologia Mediterranea, 55: 253-261.
- Gargouri S., Bouatrous A., Debchi R. and Fakhfakh M. 2014. Confirmation of *Oculimacula yalundae* causing eyespot of cereals in Tunisia. New Disease Reports 29, 10. [http://dx.doi.org/10.5197/j.2044-0588.2014.029.010]
- Saouda I., Hamrouni L., Gargouri S., Amri I., Hanana M., Fezzani T., Bouzid S. and Jamoussi B. 2013. Chemical composition, weed killer and antifungal activities of Tunisian Thyme (*Thymus capitatus* Hoff) essential oils. Acta Alimentaria, 42 : 417–427.
- Chekali S., Gargouri S., Berrais S., Gharbi M. S., Nasraoui B. and Nicol J. 2013. Impact of *Fusarium* foot and root rot on yield of cereals in Tunisia. Tunisian Journal of Plant Protection 8: 75-86.
- Amri I., Hamrouni L., Gargouri S., Hanana M. and Jamoussi B., 2013. Chemical composition and antifungal activity of essential oils isolated from *Juniperus oxycedrus* L. International Journal of Applied Biology and Pharmaceutical Technology. 4:227-233.
- Amri I., Hamrouni L., Hanana M., Gargouri S., Fezzani T. and Jamoussi B. 2013. Chemical composition, physico-chemical properties, antifungal and herbicidal

activities of Pinus halepensis Miller essential oils.2013. Biological Agriculture & Horticulture, 29 :91-106

- Amri I., Hamrouni L., Hanana M., Gargouri S., Fezzani T. and Jamoussi B. 2013. Chemical composition and antifungal activities of three Anacardiaceae species grown in Tunisia. Science International 1:148-154.
- Amri I., Hamrouni L., Hanana M., Gargouri S. and Jamoussi B. 2013. Chemical composition, bio-herbicidal and antifungal activities of essential oils isolated from Tunisian common cypress (*Cupressus sempervirens* L.). Journal of Medicinal Plants Research 7: 1070-1080.
- Ben Ghnaya A., Hanana M., Amri I., Balti H., Gargouri S., Jamoussi B. and Hamrouni L. 2013. Chemical composition of Eucalyptus erythrocorys essential oils and evaluation of their herbicidal and antifungal activities. Journal of Pest Science 86:571-577.
- Amri I., Gargouri S., Hamrouni L., Hanana M., Fezzani T. and Jamoussi B. 2012. Chemical composition, phytotoxic and antifungal activities of *Pinus pinea* essential oil. Journal of Pest Science 85: 199-207.
- Gargouri S., Mtat I., Kammoun Gargouri L., Zid M. and Hajlaoui M. R. 2011. Molecular genetic diversity in populations of *Fusarium pseuodograminearum* from Tunisia. Journal of Phytopathology 159: 306-313.
- Chekali S., Gargouri S., Paulitz T., Nicol J.M., Rezgui M. and Nasraoui B. 2011. Effects of *Fusarium culmorum* and water stress on durum wheat in Tunisia. Crop Protection 30 : 718–725.
- Hmissi I., Gargouri S. and Sifi B. 2011. Attempt of wheat protection against *Fusarium culmorum* using *Rhizobium* isolates. Tunisian Journal of Plant Protection 6: 75-86.
- Amri I., Lamia H., Gargouri S., Hanana M., Mahfoudhia M., Fezzani T., Ezzeddine F. and Jamoussi B. 2011. Chemical composition and biological activities of essential oils of Pinus patula. Natural Product Communication 10:1531-6.

- Kammoun G. L., Gargouri S., Barreau C., F. Richard-Forget F. and Hajlaoui M. R. 2010. Assessment of trichothecene chemotypes of *Fusarium culmorum* occurring in Tunisia. International Journal of Food Microbiology 140 : 84-89.
- Kammoun G. L., Gargouri S., Rezgui S., Trifi M. and Hajlaoui M. R. 2009. Assessment of Aggressiveness of Tunisian *Fusarium* species on durum wheat seedling under controlled conditions. Tunisian Journal of Plant Protection 4: 135-144.
- Kammoun G. L., Gargouri S., Hajlaoui M.R. and Marrakchi M. 2009. Occurrence and distribution of *Microdochium nivale* and *Fusarium* species isolated from durum wheat in northern Tunisia and detection of mycotoxin in naturally infested grains. Journal of Phytopathology 57: 546-551.
- Gargouri S., Hajlaoui M. R., Guermech A., and Marrakchi M. 2007. Evaluation de l'incidence, de la sévérité et des pertes de rendement dues à la fusariose du pied du blé dans les conditions naturelles d'infection. Annales de l'INRAT 80: 7-20.
- Nasraoui B., Hajlaoui M. R., Gargouri S. and Kremer R. J. 2007. Biological control of wheat take-all disease: II - Rapid screening for selection of bacteria suppressive to *Gaeumannomyces graminis* var. *tritici* in laboratory with greenhouse and field confirmation trials. Tunisian Journal of Plant protection 2: 35-46
- Gargouri S., Hamza S. and Hajlaoui M.R. 2006. AFLP analysis of the wheat foot rot fungus *Fusarium pseudograminearum* in Tunisia. Tunisian Journal of Plant Protection 1: 97-103.
- Gargouri S., Bernier L., Hajlaoui M. R., and Marrakchi M. 2003. Genetic variability and Population Structure of the Wheat Foot Rot fungus, *Fusarium culmorum*, in Tunisia. European Journal of Plant Pathology 109, 801-807.
- Hajlaoui M.R., Gargouri S., Guermech A., and Hamza N. 2003. Emergence en Tunisie d'un nouveau pathotype de *Verticilium albo-atrum* pouvant attaquer les cultivars de tomates possédant le gène de résistance *Ve*. Bulletin EOPP 33, 343-345.

- Hajlaoui M. R., Hamza N., Gargouri S., and Guermech A. 2001. Apparition en Tunisie de *Fusarium oxysporum* f. sp. *Radicis-lycopresici*, agent de la pourriture des racines et du collet de la tomate. Bulletin EOPP 31, 505-507.
- Gargouri S., Hajlaoui M.R., Guermech A., and Marrakchi M. 2001. Identification des espèces de *Fusarium* associées à la pourriture du collet du blé et étude de leur répartition selon les étages bioclimatiques en Tunisie. Bulletin OEPP 31, 499-503.
- Gargouri S., Abdennadher M., Hajlaoui M.R., and Marrakchi M. 2000. Identification morphologique et moléculaire des espèces de *Fusarium* transmises par les semences de pastèque. Bulletin OEPP 30, 217-222.

Proceedings

- Nicol J.M., Sahin E., Wallwork H., Chakraborty S., Meiqin L., O'Brin L., Sutherland M., Horne M., Simpfendorfer S., Herde D., Ogbonnaya F., Duveiller E., Bolat N., Yahyaoui A., Buerstamayr H., Lewis J., Crossa J., Singh A.K., Bishnoi S.P., Kanwar R.S., Gargouri S. 2008. Identification of Multiple root disease resistant wheat germplasm against Cereal Nematodes and Dryland Root Rot and their validation in regions with economic importance. Proceedings of the 11th International Wheat Genetics Symposium, 24-29 August 2008, Brisbane, QLD, Australia, p.1-3.
- Gargouri S., Berraies S., Gharbi M.S., Chekali S., Fakhfakh M. and Burgess W. L., 2012. Tunisia: an overview of Fuarium diseases in wheat and the unique farming system of the region. Proceedings of the First International Crown Rot Workshop for Wheat improvement, 22-23 October 2012, Narrabri, New South Wales, Australia. Brettell R.I.S. and Nicol J. M. eds.

Trainings and visits

- Mars-June 1995: Volunteer at Plant Gene Expression Center, USDA, Albany, California, USA.
- Septembre 1998: 'ICARDA, Aleppo, Syria. Molecular tools in breeding

- June-December 2000 : Training on the use of molecular markers to study the genetic diversity and population structure of *F. culmorum* at the « Centre de Recherche en Biologie Forestière » , Université Laval, Quebec, Canada.
- June 2005: Plant Protection Department, Kansas University, *"Fusarium* Laboratory workshop"
- Novembre 2009: Visit at University of Sydney (NSW) with Pr Lester Burgess and South Australia Research and Development Institute (SARDI) with Dr Hugh Wallwork (Direct tilling in relation with soilborne fungi and breeding for resistance to soilborne diseases of wheat)
- 16-21 februaryr 2009 : National workshop on application of QPCR in agriculture (Tunisia)
- 16-19 July 2012 : Statistics and data analysis (Tunisia)
- 5-6 May 2014 : Application of biostatistics in Agronomy (Tunisia)

Others

- Septembre- December 1994: Intensive English Course (Golden Gate University, San Francisco, California, USA).