



I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at **Dipartimento di Scienze Agrarie e Ambientali - Produzione, Territorio, Agroenergia**

Scientist- in – charge: **Prof. Luca Bechini**

[Neji Mohamed]

CURRICULUM VITAE

PERSONAL INFORMATION

Surname	Mohamed
Name	Neji
Date of birth	28, 12, 1984

PRESENT OCCUPATION

Appointment	Structure
Postdoctoral Researcher	Laboratory of Pastoral Ecology, Arid Lands Institute of Medenine

EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Degree	Bachelor's Degree	Faculty of Science of Tunis	2008
Specialization	Life and Earth sciences		
PhD	Plant Biology and Productivity of Cultivated Plants	University of Milan and University of Tunis El Manar	2015
Master	Plant Ecophysiology	Faculty of Science of Tunis	2010

REGISTRATION IN PROFESSIONAL ASSOCIATIONS

Date of registration	Association	City
July 2019	Association of Tunisien Young Researchers	Gabès, Tunisia
March 2020	Association of Genetic Resources Conservation	Tunis, Tunisia



FOREIGN LANGUAGES

Languages	level of knowledge
English	Fluent
French	Fluent
Italian	Good
Arabic	Mother tongue

AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
2019	Scholarship of Scientific Stay from Fonds de la Recherche Scientifique - FNRS, Belgium (3 months)
2016	IN.WBI Excellence Postdoctoral Scholarship (2 years)
2011	Doctoral Scholarship from the Tunisian Ministry of High Education and Scientific Research

TRAINING OR RESEARCH ACTIVITY

1- Master degree PhD thesis Investigation of Genetic diversity of natural populations of forage plant species using morphological and molecular markers
2- Investigation of the genetic variation of the response to environmental stresses in forage plant species

PROJECT ACTIVITY

Year	Project
2020	AfriTruf Project (Identification of differentially expressed genes involved in the Ectomychorization in diverse truffle species in association with wild plant species)
2016-2018	Next Generation Sequencing (NGS)-based RNA-seq technology for De novo transcriptome sequencing and comprehensive analysis of the drought-responsive genes in African Tropical trees.
2015	GREATMED-Generating-a-Risk-and-Ecological-Analysis-Toolkit-for-the-Mediterranean The project deals with the crucial issues of biodiversity conservation, management and monitoring on Mediterranean coasts, and focuses in particular on the design and implementation of an integrated strategy based on ecological indicators and risk analysis in five selected study areas: Gulf of Cagliari (Italy), coastal area of Provence (France), the area of Byblos (Lebanon), the area of Beirut (Lebanon) and the Gulf of Gabès (Tunisia)

CONGRESSES AND SEMINARS

Date	Title	Place
June 2019	Screening of <i>Brachypodium hybridum</i> genotypes for drought tolerance	International <i>Brachypodium</i> Conference, Huesca, Spain



March 2018	De novo transcriptome sequencing and comparative analysis of differentially expressed genes in <i>Erythrophleum</i> species under drought stress	European Conference of Tropical Ecology, Paris, France
November 2017	De novo transcriptome sequencing and comprehensive analysis of the drought-responsive genes in <i>Erythrophleum</i> species	European Conference of Tropical Ecology, Brussels, Belgium
December 2013	Insight into <i>Brachypodium hybridum</i> diversity by using SSR markers	International meeting of Biotechnology, Tunisia
June 2013	Morpho-phenological vs Molecular Genetic variation in Tunisian <i>Brachypodium</i> spp	First international <i>Brachypodium</i> conference, Modena - Italy
December 2011	Genetic diversity and population structure of Natural Tunisian populations of <i>Brachypodium distachyon</i> using SSR markers	International meeting of Biotechnology, Tunisia
September 2011	Morpho- phenologic diversity among Tunisian populations of <i>Brachypodium Distachyon</i>	First European <i>Brachypodium</i> Workshop, Versailles-France
December 2010	Population Structure and Genetic Diversity in South Tunisian <i>Hedysarum</i>	International meeting of Biotechnology, Tunisia

PUBLICATIONS

Books

NEJI, Mohamed. *Morphological and Genetic Diversity of B. Distachyon Complex in Tunisia*. Éditions universitaires européennes, 2017.

Articles in reviews

1. Ibrahim, Y. *, **Neji, M.***, Taamalli, W., Abdelly, C., & Gandour, M. (2020). The genetic variation in response to drought in Tunisian populations of *Brachypodium hybridum* (Poaceae): An interplay between natural selection and phenotypic plasticity. *Environmental and Experimental Botany*, 104234. (*Equal Contribution)
2. Rahmani, R.*, **Neji, M.***, Belgacem, A.O. *et al.* Potential distribution and the habitat suitability of the African mustard (*Brassica tournefortii*) in Tunisia in the context of climate change. *Arab J Geosci* **13**, 512 (2020). <https://doi.org/10.1007/s12517-020-05467-8> (*Equal Contribution)
3. **Neji, M.**, Kouas, S., Gandour, M., Aydi, S., & Abdelly, C. (2019). Genetic variability of morpho-physiological response to phosphorus deficiency in Tunisian populations of *Brachypodium hybridum*. *Plant Physiology and Biochemistry*, 143, 246-256.
4. **Neji, M.**, Gorel, A., Ojeda, D. I., Duminil, J., Kastally, C., Steppe, K., ... & Hardy, O. J. (2019). Comparative analysis of two sister *Erythrophleum* species (Leguminosae) reveal contrasting transcriptome-wide responses to early drought stress. *Gene*, 694, 50-62.
5. **Neji, M.**, Serbaji, M. M., Hardy, O., & Chaieb, M. (2018). Floristic diversity and vegetation patterns along disturbance gradient in arid coasts in southern Mediterranean: Case of the Gulf of Gabès, southern Tunisia. *Arid Land Research and Management*, 32(3), 291-315.
6. **Neji, M.**, Geuna, F., Gordon, S. P., Taamalli, W., Vogel, J. P., Ibrahim, Y., ... & Gandour, M. (2016). Insertion/deletion markers for assessing the genetic variation and the spatial genetic structure of Tunisian *Brachypodium hybridum* populations. *Recent Research in Science and Technology*, 14-23.
7. **Neji, M.**, Geuna, F., Taamalli, W., Ibrahim, Y., Chiozzotto, R., Abdelly, C., & Gandour, M. (2015). Assessment of genetic diversity and population structure of Tunisian populations of *Brachypodium hybridum* by SSR markers. *Flora-Morphology, Distribution, Functional Ecology of Plants*, 216, 42-49.



8. **Neji, M.**, Geuna, F., Taamalli, W., Ibrahim, Y., Smida, M., Badri, M., ... & Gandour, M. (2015). Morpho-phenological diversity among Tunisian natural populations of *Brachypodium hybridum*. *The Journal of Agricultural Science*, 153(6), 1006.
9. **Neji, M.**, Taamalli, W., Smida, M., Abdelly, C., & Gandour, M. (2013). Phenotypic and molecular genetic variation in Tunisian natural populations of *Sulla carnosa*. *Agronomy Journal*, 105(4), 1094-1100.
10. Gandour, M. *, **Neji, M. ***, Hessini, K., Smida, M., Abdelly, C., & Taamalli, W. (2014). Assessing the salt tolerance of *Sulla carnosa* genotypes by agronomic indicators. *Agronomy Journal*, 106(1), 185-190. (*Equal Contribution)

OTHER INFORMATION

Workshops and training

1- Workshops

- Invited Speaker in a workshop at University of Zurich (Switzerland)

Dates: 21 - 22 November 2017

- Lecture 1: Molecular Markers for *Brachypodium*
- Lecture 2: The RNA-seq approach and data analysis

- Invited Speaker in a workshop at University of Oulu, Finland

Dates: 01 - 11 September 2017

Lecture: RNA-seq data analysis: Bioinformatic tools

2- Trainings

- **Biochemical and genetic dissection of plant mineral nutrition control** (Palazzo Feltrinelli, Gargnano – Italy; 23 - 27, June 2013)

- **Innovative methods in plant breeding** (Parco Tecnologico Padano, Lodi, Italy; 20 - 23, May 2013)

- **Genetic markers for selection: from marker assisted selection to genomic selection** (Parco Tecnologico Padano, Lodi, Italy; April 19, 2013)

Scientific papers reviewing

Science of Total Environment (2 papers)

Forests (1 paper)

BMC Plant Biology (1 paper)

Peerreview Journal (1 paper)

Plants (1 paper)

Hacquetia (1 paper)

Organisational / managerial skills

- Experience in mentoring and and co-monitoring Master degrees and PhD
- 4 years of work experience in several national and European Projects.
- Good experience in establishing national and international collaboration networks
- Good experience in team management.
- Good experience in project management.
- Sound knowledge of statistical data analysis and experimental designs



▪ Excellent communication skills and the ability to effectively interact and communicate research outputs and impacts with diverse audiences

References

1- Prof. Olivier Hardy: Unit of Ecology and Evolutionary Biology, Université Libre de Bruxelles

Email: ohardy@ulb.ac.be

2- Prof. Chedly Abdely: Laboratory of Extremophile Plants, Centre of Biotechnology of Borj Cerdia, Tunisia

Email: abdely.chedly@gmail.com

3- Prof. Filippo Geuna: Laboratory of Genetics, University of Milan, Italy

Email: filippo.geuna@unimi.it

Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.

Place and date: Medenine, 13/09/2020

SIGNATURE