



# NABIL BEN YOUSSEF

ASSOCIATE PROFESSOR

Nationality | Tunisian

Date of Birth | 9 August 1968

Department | College of Sciences, Department of Biology

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## Language Proficiency

Language	Read	Write	Speak
Arabic	✓	✓	✓
English	✓	✓	✓
frensh	✓	✓	✓

## Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
2004	Ph.D.	Faculty of Sciences of Tunis	University of Elmanar, Tunis, Tunisia
1998	Master	Faculty of Sciences of Tunis	University of Elmanar, Tunis, Tunisia

## PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions)

<b>PhD</b>	Thesis in Biology (plant physiology), High Distinction and Jury's Congratulations
<b>Master</b>	Master in Cell Physiology and Plant Biotechnology, Very Good

## Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work			Date
Associate professor	College of Sciences	Department of Biology	Imam Abdurhaman Bin Faisal University	2015
Associate professor	Center of Biotechnology of Borj-Cedria		University of Elmanar Tunis	2012
Assistant Professor	Faculty of Sciences of Gafsa	Department of Biology	University of Gafsa	2005

## Scientific Achievements

### Published Refereed Scientific Researches

(In Chronological Order Beginning with the Most Recent)

#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
1	Kawther Methennia,, Mariem Ben Abdallah, Issam Nouairi, Abderrazek Smaoui, wided Ben Ammar, Mokhtar Zarrouk, Nabil Ben Youssef	Salicylic acid and calcium pretreatments alleviate the toxic effect of salinity in the Oueslati olive variety	Scientia Horticulturae (Elsevier)) 2018 233: 349–358
2	Mariem Ben Abdallah, Dalila Trupiano, Antonella Polzella, Elena De Zio, Mauro Sassi, Andrea Scaloni, Mokhtar Zarrouk, Nabil Ben Youssef, Gabriella Stefania Scippa	Unraveling physiological, biochemical and molecular mechanisms involved in olive ( <i>Olea europaea</i> L. cv. Chétoui) tolerance to drought and salt stresses	Journal of plant physiology (Elsevier) 2018 220: 83–95
3	Mariem Ben Abdallaha, Kawther Methenni, Issam Nouairi, Mokhtar Zarrouk, Nabil Ben Youssef	Drought priming improves subsequent more severe drought in a drought sensitive cultivar of olive cv. Chétoui	Scientia Horticulturae (Elsevier) 2017 221:43–52
4	Leila Abaza , Amani Taamalli, Alberto David Arráez-Román, Fernández-Gutiérrez, Mokhtar Zarrouk , Nabil Ben Youssef	Changes in phenolic composition in olive tree parts according to development stage	Food Research International, (Elsevier) 2017 100,454–461
5	Fatma Bejaoui, Joaquín J Salas, Issam Nouairi, Abderrazak Smaoui, Chedly Abdelly, Enrique Martínez-Force, Nabil Ben Youssef	Changes in chloroplast lipid contents and chloroplast ultrastructure in <i>Sulla carnosia</i> and <i>Sulla coronaria</i> leaves under salt stress	Journal of plant physiology (Elsevier) 2016 198:32-38
6	Manel Zitouni, Vera Wewer, Peter Dörmann, Chedly Abdelly, Nabil Ben Youssef	Quadrupole time-of-flight mass spectrometry analysis of glycerophospholipid molecular species in the two halophyte seed oils: <i>Eryngium maritimum</i> and <i>Cakile maritima</i>	Food Chemistry (Elsevier) 2016 213: 319-328
7	Najla Chalbi, M Carmen Martínez-Ballesta, Nabil Ben Youssef, Micaela Carvaja.	Intrinsic stability of Brassicaceae plasma membrane in relation to changes in proteins and lipids as a response to salinity	Journal of plant physiology (Elsevier) 2015 175: 148–156
8	Taoufik Amari, Tahar Ghnaya, Ahmed Debez, Manel Taamali, Nabil Ben Youssef, Giorgio Lucchini, Gian Attilio Sacchi, Chedly Abdelly	Comparative Ni tolerance and accumulation potentials between <i>Mesembryanthemum crystallinum</i> (halophyte) and <i>Brassica juncea</i> : Metal accumulation, nutrient status and photosynthetic activity	Journal of plant physiology (Elsevier) 2014 171(17); 1634–1644
9	Najla Chalbi, Kamel Hessini,	Are changes in membrane lipids	Journal of Plant Nutrition and Soil



	Mhemmed Gandour, Salma Naeit Mohamed, Abderrazek Smaoui, Chedly Abdelly and Nabil Ben Youssef	and fatty acid composition related to salt stress resistance in wild and cultivated barley?	Science (WILEY) 2013 176: 138-147
10	Amani Taamalli , Abaza Leila , David Arráz Román , Antonio Segura Carretero, Alberto Fernández-Gutiérrez, Mokhtar Zarrouk and Nabil Ben Youssef.	Characterization of Phenolic Compounds by HPLC-TOF/IT/MS in buds and open flowers of “Chemlali” olive cultivar	Phytochemical Analysis (WILEY) 2013 24 :504-512
11	Nabil Ben Youssef, Abaza Leila, Ouni Youssef, Salma Naeit Mohamed, Debbech Nizard, Abdelly Chedly and Zarrouk Mokhtar.	Influence of the Site of Cultivation on Chétoui Olive ( <i>Olea europaea</i> L.) Oil Quality.	Plant Production Science 2012 15(3): 228—237
12	Nabil Ben Youssef, Youssef Ouni, Nizar Dabbech, Bechir Baccouri, Chedly Abdelly and Mokhtar Zarrouk.	Effect of olive storage period at two different temperatures on oil quality of two tunisian cultivars of <i>Olea europea</i> , Chemlali and Chétoui	African Journal of Biotechnology 2012 11(4): 888-895
13	Ouni Youssef, Nabil Ben Youssef, Zarrouk Mokhtar, Flamini Guido.	Influence of olive storage period on volatile compounds and oil quality of two Tunisian cultivars of <i>Olea europea</i> , Chemlali and Chetoui.	International Journal of Food Science and Technology (Blackwell) 2011 46, 1245–1252.
14	Leila Abaza, Nabil Ben Youssef, Hédia Manai, Faouzia Mahjoub Haddada, Kaouther Methenni and Mokhtar Zarrouk.	Chétoui olive leaf extracts: influence of the solvent type on phenolics and antioxidant activities.	Grasas y Aceites 2011 62 (1): 96-104
15	Ouni Youssef, Flamini Guido, Guerfel Mokhar, Ben Youssef Nabil, Douja Daoud and Zarrouk Mokhtar.	The compositional quality and volatile compounds of samples from the blend of monovarietal olive oils cultivated in Tunisia.	International Journal of Food Science and Technology (Blackwell) 2011 48 : 678-686.
16	Youssef Ouni, Guido Flamini, Nabil Ben Youssef, Mokhtar Guerfel & Mokhtar Zarrouk. Sterolic	Composition and triacylglycerols of Oueslati virgin olive oil: comparison among different geographic areas.	International Journal of Food Science and Technology (Blackwell) 2011 46 : 1747–1754.
17	Ouni Youssef , Flamini Guido , Issaoui Manel , Nabil Ben Youssef , Cioni Pier Luigi, Hammami Mohamed, Douja Daoud, Zarrouk Mokhtar.	Volatile compounds and compositional quality of virgin olive oil from Oueslati variety: Influence of geographical origin.	Food Chemistry (Elsevier) 2011 124, 46: 1770–1776.
18	Nabil Ben Youssef, Wissem Zarrouk, Alegria Carrasco-Pancorbo, Youssef Ouni, Antonio Segura-Carretero, Alberto Fernandez-Gutierrez, Douja Daouda and Mokhtar Zarrouka	Effect of olive ripeness on chemical properties and phenolic composition of chétoui virgin olive oil.	Journal of the Sciences of Food and Agriculture (John Wiley) 2010 96: 199-204.
19	Nehla Labidi, Sana Snoussi, Manel Ammari, Wissal Metoui, N. Ben	Enhancement of acid phosphatase secretion and Pi	Acta Biologica Hungarica, 2010



	Youssef, Lamia Hamrouni and C. Abdelly	acquisition in Suaeda fruticosa on calcareous soil by high saline level.	61(4): 470–485.
20	Nouairi Issam, Ben Ammar Wided, Ben Youssef Nabil, Ben Miled Daoud Douja, Mohamed Habib Ghorbal & Mokhtar Zarrouk. .	Antioxidant defense system in leaves of Indian mustard (Brassica juncea) and rape (Brassica napus) under cadmium stress	Acta Physiologiae Plantarum (Springer) 2009 31: 237-247.
21	NABIL BEN YOUSSEF, Issam NOUARI, KARIM BEN HAMED, Salem ELKHAOUI, Douja DAOUD, MOHAMED HABIB GHORBAL, Mokhtar ZARROUK	Effects of cadmium on lipid peroxidation and activities of antioxidative enzymes in rape (Brassica napus L.) leaves	Revue des régions arides 2008 21: 559-564
22	Bechir Baccouri, Wissem Zarrouk, Dhouha Krichen, Issam Nouairi, Nabil Ben Youssef, Douja Daoud and Mokhtar Zarrouk.	Influence of Fruit Ripening and Crop Yield on Chemical Properties of Virgin Olive Oils from Seven Selected Oleasters (Olea europea L.).	Journal of Agronomy 2007 6 (3) : 388-396.
23	Nouairi Issam, Ben Ammar Wided, Ben Youssef Nabil, Ben Miled Daoud Douja, Mohamed Habib Ghorbal & Mokhtar Zarrouk.	Comparative Study of Cadmium Effects on Membrane Lipid Composition of Brassica juncea and Brassica napus Leaves.	Plant Science (Elsevier) 2006 170: 511-519.
24	Nouairi Issam, Ghnaya Taher, Ben Youssef Nabil, Mokhtar Zarrouk & Mohamed Habib Ghorbal.	Changes in content and fatty acid profiles of total lipids of two halophytes: Sesuvium portulacastrum and Mesembryanthemum crystallinum under cadmium stress.	Journal of Plant Physiology (Elsevier) 2006 163: 1198-1202
25	Nouairi Issam, Ben Ammar Wided, Ben Youssef Nabil, Ben Miled Daoud Douja, Mohamed Habib Ghorbal and Mokhtar Zarrouk.	Variations in Membrane Lipid Metabolism in Brassica juncea and Brassica napus Leaves as a Response to Cadmium Exposure.	Journal of Agronomy 2006 5: 299-307
26	Nabil Ben Youssef, Issam Nouairi, Sonia Ben Temime, Wael Taamalli, Mokhtar Zarrouk, Mohamed Habib Ghorbal & Douja Ben Miled Daoud.	Effets du cadmium sur le métabolisme des lipides de plantules de colza (Brassica napus L.).	Comptes Rendues- Biologies (Elsevier) 2005 328: 745-757.
27	K. Ben Hamed, N. Ben Youssef, A. Ranierrri, M. Zarrouk and C. Abdelly.	Changes incontent and fatty acid profiles of total lipids and sulfolipids in the halophyte Crithmum maritimum under salt stress.	Journal of Plant Physiology (Elsevier) 2005 16 (5):599-602.
28	N. Ben youssef, W. Taamali, S. Ben Temime , D. Ben Miled, M. Zarrouk and M. H. Ghorbal.	Modifications induites par le cadmium au niveau de la croissance et les lipides de réserve des graines de colza.	Rivista Italiana delle Sostanze Grasse 2004 81(6) : 364-370.
29	S. Ben Temime , L. Abaza, N. Ben youssef, W. Taamali, M. Msallem., D. Daoud and M. Zarrouk	Etude de la composition de l'huile d'olive de la variété chétoui en fonction du site géographique.	Rivista Italiana delle Sostanze Grasse 2004 81(5) : 277-283.



30	W. Taamali, L. Abaza, N. Ben Youssef, , D. Daoud Ben Miled, M. Zarrouk, A. Chérif	Lipid breakdown in sunflower ( <i>Helianthus annuus</i> L.) seeds during post germinative growth under salt-stress	Rivista Italiana delle Sostanze Grasse 2004 81(2) : 90-97.
31	M Zarrouk, H El Almi, N Ben Youssef, N Sleimi, A Smaoui, D Ben Miled, C Abdelly	Lipid composition of seeds of local halophytes: <i>Cakile maritima</i> , <i>Zygophyllum album</i> and <i>Crithmum maritimum</i>	Cash crop halophytes Springer Netherlands 2003 121-124
32	Douja Ben Miled Daoud, Nabil Ben Youssef , Moktar Zarrouk.	Effets de NaCl sur le métabolisme des lipides de réserve dans les graines de <i>Brassica napus</i> au cours de la germination.	Rivista Italiana delle Sostanze Grasse 2003 80(4) : 233-242.
33	Nabil Ben Youssef , Douja Ben Miled Daoud, Moktar Zarrouk, Abdelkader Chérif et Mohamed Habib Ghorbal.	Effets du cadmium sur la composition en lipids foliaires de plantules de colza ( <i>Brassica napus</i> L.).	Rivista Italiana delle Sostanze Grasse 2000 81 (2) : 90-97.

#### Scientific Research Papers Presented to Refereed Specialized Scientific Conferences

#	Name of Investigator(s)	Research Title	Conference and Publication Date
1	Y. Ouni, S. Ben Temime, K. Metheni, N. Ben Youssef, A. Leila and M. Zarrouk	Quality characteristics of virgin olive oil from Chetoui variety cultivated away from its centre of origin	Tunisia- Japan Symposium 2007
2	Nouairi, W. Ben Ammar, N. Ben Youssef, Douja Daoud Ben Miled, M.H. Ghorbal & M. Zarrouk	Lipid peroxidation and lipid biosynthesis under cadmium stress in <i>Brassica napus</i> and <i>Brassica juncea</i> leaves.	Euro-Maghrebin Symposium on Biological, Chemical Contaminants and Safety in food. Fes, Morocco, 2006
3	Nouairi, W. Ben Ammar, N. Ben Youssef, Douja Daoud Ben Miled, M.H. Ghorbal & M. Zarrouk	Role of Cell Membranes in Relation to Cadmium-Tolerance in Indian Mustard ( <i>Brassica juncea</i> )	Tunisia- Japan Symposium 2005
4	Ben Temime, L. Abaza, B. Baccouri, W. Taamalli, N Ben Youssef, D. Daoud and M. Zarrouk	Effect of genotype-environment interaction on chemical characteristics of virgin olive oil.	Premier séminaire international sur les biotechnologies et qualité des produits de l'olivier dans le bassin méditerranéen. Errachidia, Maroc 2004.
5	S. Ben Temime, L. Abaza, N. Ben Youssef, M. Msallem, D. Daoud Ben Miled and M. Zarrouk (2003). International	Influence de l'origine géographique sur la qualité des huiles de la variété chétoui.	International Symposium on "The Olive Tree and the Environment Greece 2003
6	Ben Youssef N., Ben Hamed K., Taamalli W., Ben Temime S., Ben Miled Daoud D., Zarrouk M., and Ghorbal M. H	Effet du cadmium sur la dégradation oxydative des lipides membranaires et sur les enzymes antioxydantes chez le colza	International Symposium on Environmental Pollution Control and Waste Management. Marakech, Morocco 2002
7	W. Taamalli, N. Ben	Effets de NaCl sur la dégradation des	International Symposium on



	Youssef, H. Jabri, D. Daoud Ben Miled, M. Zarrouk and A. Chérif.	lipides au cours de la germination des semences de tournesol	Environmental Pollution Control and Waste Management. Marakech, Morocco 2002
8	N.Ben Youssef, M Zarrouk, D Daoud, F Lemal, O Ouariti, MH Ghorbal, A Cherif	Membrane lipid changes in Brassica napus induced by cadmium chloride	Advances in Plant Lipid Research spain 1998

### Current Researches

#	Research Title	Name of Investigator(s)
1	Chemotaxonomy of some plant species from eastern region of Saudi Arabia	Nabil Ben Youssef Mohamad Buhairi, Mohi Ismail, Sameh
2	Chemical, Biological and reproduction studies of some novel wild plant extracts in eastern province of KSA for nutraceutical applications	Elmazyoudy, Reda Awad, Loay Nabil Ben Youssef
3	Study of seed priming with salicylic acid / H <sub>2</sub> O <sub>2</sub> and related effect on germination and initial growth of sunflower under heavy metal pollution	Nabil Ben Youssef, Reem AL-Moaikal, Ghadah Al-Hawas, Iqbal Khider, Areej Alosimi, Lolowah Almuqadam, Lama Alotaibi
4	Effect of priming with Na <sup>+</sup> /Ca <sup>++</sup> on germination and initial growth of rice under salinity	Ghadah Al-Hawas, Reem AL-Moaikal, Nabil Ben Youssef

### Teaching Activities

#### Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Plant Physiology	BOTNY 306	lectures
2	Plant Physiology 1	Biol 333 N	lectures
3	Plant Physiology 2	Biol 433 N	lectures
4	Plant Taxonomy	Biol 335 N	lectures
5	Economic Botany	BIOL 436N	lectures
6	Plant Ecology	BIOL.111N	lectures

#### Brief Description of Undergraduate Courses Taught: (Course Title – Code: Description)

1	Plant Physiology BOTNY 306 This course deals with the study of the enzymes and the factors influencing them, plant water relations, photosynthesis, respiration, metabolism in plant and secondary metabolism.
2	Plant Physiology 1 (Biol 333 N) The course covers topics related to plant metabolism and plant water relations. Students will be introduced to basic principles of enzymology. A major emphasis will be placed on plant carbon metabolism (photosynthesis, respiration, carbohydrates, and lipids) and secondary metabolism as well as water absorption and transport and transpiration and plant stress
3	Plant Physiology 2 (Biol 433 N) To study the stages of growth and the factors that affect the rate of growth , and the most important plant



	hormones such as Auxin, Gibberellins, Cytokinins , Ethylene , Abscisc acid, as well as to know what's the mineral nutrition and identify those minerals in plants and how they can be absorbed, and symptoms of deficiency on the plant.
4	Plant Taxonomy (Biol 335 N): Discuss the introduction of the plant Taxonomy, study of plant classification systems with reference to the classification scientists through different ages (from BC to the present time) Detailed study of the flower, inflorescences and fruits Study of some free and united petals families among Dicot Plants and the important species located in KSA Study of some Monocot families and the important species located in KSA Study of plant keys (dentate key and digital key) Study of plant identification and nomenclature, definition of Herbarium and Botanical gardens Flora of KSA
5	Economic Botany (BIOL 436N ) Economic botany is the commercial exploitation of plants by people. Economic botany contributes significantly to anthropology, biology, conservation, botany, and other fields of science. This link between botany and anthropology explores the ways humans use plants for food, shelter, medicines, textiles, and much more.
6	Plant Ecology (BIOL.111N) Plant ecology course deals with the study of the main environmental factors affecting the Earth's major vegetation types: tropical forests, tropical savannas, arid regions (deserts), Mediterranean ecosystems, temperate forest ecosystems, temperate grasslands, coniferous forests, tundra. Also give brief account about plant adaptations.

#### Course Coordination

#	Course Title and Code	Coordination	Co-coordination	Undergrad.	Postgrad.	From	to
1	Plant Physiology BOTNY 306	✓		✓		2017	2018
2	Plant Physiology 1 (Biol 333 N)	✓		✓		2016	2017
3	Plant Physiology 2 (Biol 433 N)	✓		✓		2016	2017

#### Student Academic Supervision and Mentoring

#	Level	Number of Students	From	to
	Bachelor of Science in Biology	7	2017	2018
	Bachelor of Science in Biology	10	2016	2017
	Bachelor of Science in Biology	12	2015	2016

#### Ongoing Research Supervision

#	Degree Type	Title	Institution	Date
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1	PhD	Improvement of olive resistance to water stress by hardening	Faculty of Sciences of Tunis, Elmanar University	2013-2018
2	phD	Study of the physiological, biochemical and structural parameters of olive resistance to salinity	Faculty of Sciences of Tunis, Elmanar University	2013-2018

**Personal Key Competencies and Skills: (Computer, Information technology, technical, etc.)**

1	Computer Proficiency : Word, Excel, PowerPoint, Photoshop, MSUSTAT)
2	Biochemichal Techniques: Centrifugation, Spectrophotometry, Gas Chromatography, Liquid Chromatography

**Last Update**

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