

CURRICULUM VITAE

I. PERSONAL DATA

- Last Name: ELHOUMAIZI
- First name: Mohammed Aziz
- Date of Birth: 27/12/1964
- Citizenship: Moroccan
- Profession: Professor, International date palm Expert
- Address: University Mohamed 1st, Faculty of Sciences, Department of Biology
P.O. Box 724 Oujda 60 000, Morocco.
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II. Major Fields of Expertise:

- Oasis ecosystem sustainable development
- Dates chain value
- Date palm production and protection
- Projects conception, management, implementation, monitoring and evaluation
- Organizing and facilitating participatory workshops and high-level meetings
- Training sessions for farmers and extension services.
- Research and development
- Teaching and supervision of research activities of graduate and postgraduate students on date palm genetic resources, agricultural and biodiversity.

III. Professional experience

A. Regional and international experiences

- September 2018-2020 International consultant for Public investment Fund (PIF) Saudi Arabia.
- December 2016. International consultant FAO/TCDC Expert, Team Leader, Date Palm Production Expert FAO TCDC the project "Micro-propagation of date palm using tissue culture techniques». Eritrea TCP/ERI/3503.
- April 2013. International date palm consultant the project "Pro-Poor Horticulture Value Chains in Upper Egypt EGY/11/50/UND, UNIDO.
- December 2013. Date palm expert chain value "Workshop on Dates Value Chain, Value Addition & quality management," 09-12/12/2013 Kuwait
- November-December 2010. International Consultant (AFC Consultants International GmbH) " Identification and analysis of dates units as well as the distribution and marketing of dates in Morocco" Fruit Trees Project (PAF), Contract TC-5B (MCC Contract TC-5B), Morocco.
- 2010-2013, Date palm consultant in Project "Water Management (AWM) in Morocco" Project USAID 608-A-00-11-00004. implemented by the Near East Foundation in cooperation with the Association des Cooperatives Agricoles de Figuig (ACAF) and the Association Marocaine pour l'Appui au Développement Local (AMAL).
- 2009-2013. Technical adviser on the project "Technical Assistance for Cold Storage of Palm Dates in Morocco" (Ministry of agriculture Morocco USTDA, Iso partners).
- 2008-2010. FAO/TCDC Expert, Team Leader, Date Palm Production Expert project "Assistance to improve date palm production in Afar region Ethiopia". TCP/ETH/3201.
- July- October 2006. Date production and biodiversity specialist project "Establishment of

National date Palm research center of Alhassa. First phase". UTFN/FAO/SAU/009, Alhassan Kingdom Saudi Arabia.

- 2005-2007. FAO/TCDC Expert, Team Leader, Date palm production Expert for the project "Promotion of the date palm in the North of Cameroon". Cameroon TCP/CMR/3003.
- October- November 2005 International Date palm production consultant for the Islamic Bank of Development (IBD): project "Formulation of project on date palm tissue culture project for the Republic of Djibouti».

B. Scientific projects and international collaborations

- **2018-2021.** Project "Selected date palm male in Moroccan oasis" Domaines Agricoles Meknes Morocco.
- **2018- 2020** Project ANZOA "Use of moisture system new irrigation technique for date palm "(ANDZOA National Agency for the Development of Oasian Zones and the Argan Tree 08/CP/DDZO/2018).
- **2013-2015.** PHC (Partenariats Hubert Curien) Maghreb Project coordinator" Architectural modeling and water supply of date palm in Maghreb oases." (Morocco, Algeria, Tunisia and France). 30256QG / 3MAG16.
- **2012-2016.** Project coordinator Modeling of the Growth, the Architecture on *Phoenix dactylifera* (MOCAF2-Phoenix) M09 / 01. (Tunisia, Morocco, France, Algeria and Italy) (Phase 2). 'INRIA Euro-Mediterranean 3+3 INRIA.
- **2008-2012.**Project coordinator "dates storage in Figuig oasis ", CUD (University Commission for Development) -UMP. UMP (University Mohammed 1^{er}) P2; Belgium-Morocco
- **2009-2011.** Project coordinator Euro-Mediterranean 3+3 Modeling of the Growth, the Architecture and Flowering on *Phoenix dactylifera L* (MOCAF 1-Phoenix) M09 / 01. (Tunisia, Morocco, France Italy) (Phase 1); 'INRIA Euro-Mediterranean 3+3 INRIA
- **2010-2011.** Project Coordinator "Agrobiodiversity of the date palm (*Phoenix dactylifera L.*) in Morocco: Characterizations conservation and valorization". Centre de BioArcheologie et Ecologie University Montpellier II, France University Mohammed 1^{er}, Faculty of Sciences, Department of Biology, Oujda, Morocco. Convention CNRST-CNRS (ScVie 09/10).
- **2009-2011** Project coordinator "Study of Methods for Drying Dates";. Morocco-Tunisia cooperation (34MT/08). Tunisia-Morocco
- **2003-2007** Project coordinator "Date palm production and protection in Figuig oasis", CUD - UMP. UMP P1, Belgium-Morocco
- **1999-2001.** Post-doctoral Study at the International Center of Cooperation in Agronomic Research for the Development (CIRAD), Montpellier, France.
- **1997-1999. Participation** project "Modeling of culture systems for the reconstitution of Moroccan oases". PRAD/97/27.
- **12-23 September 1997.** Scientific stay at Phoenix Station (research center on date palm and arid zone production systems) Elche in Spain
- **From 1995** until now, present status: Professor University Mohammed 1st, Faculty of Sciences, Department of Biology, Oujda, Morocco.
- **From 1989 to 1993. Research-worker** in National Institute of the Agronomic Research (INRA), Date palm program, where I have prepared Post Bachelor degree and Doctorate Thesis.

IV. Academic qualifications

- 2002, Ph.D., Faculty of Sciences-Semlalia, University Cadi Ayyad, Marrakech, Morocco.
- 1993, Doctorate Thesis, University Cadi Ayyad, Faculty of Sciences-Semlalia, Marrakech, Morocco.
- 1989, Post Bachelor's degree in Biology (C.E.A), University Cadi Ayyad, Faculty of Sciences-Semlalia, Marrakech, Morocco.

- 1987-1988 Bachelor's degree Plant Biology, University Cadi Ayyad Faculty of Sciences-Semlalia Marrakech, Morocco.

V. SCHOLARSHIPS, FELLOWSHIPS, HONORS AND AWARDS

- Date palm knight (Cavaliere delle Palme) during VII European Palm Biennale, (Dies Palmarum) held in Sanremo (Italy) 5-9th December 2013, the title of "Knight of Palms" (Cavaliere delle Palme) was given to Mr. Elhoumaizi Mohammed Aziz for his contribution to the knowledge of the date palm.
- Fellowship, Grantee "International Foundation for Science" IFS D1/3927. 2005-2006
- Hassan II Grand Prize for the invention and research in the field of agriculture, (2003).
- Short-term fellowship SC/RP (208.037.1) TWAS/ ICSU/UNESCO April 15, to July 15, 2001.
- Fellowship, Grantee CIRAD (Agricultural Research Centre for International Development). July 19 to September 15, 2001.
- Fellowship, Grantee AUPLEF (Agence universitaire de la Francophonie) February 1, to April 30, 2000.
- Fellowship project "Regional Project on Bayoud Control", UNDP/FAO RAB/88/024 of June 1, 1990 to September 31, 1991.

VI. PUBLICATIONS AND COMMUNICATIONS

A. PUBLICATIONS

- Bodian A, Nachtigall M, Frese L, Elhoumaizi MA, Hasnaoui A, & al. 2014. Genetic Diversity Analysis of Date Palm (*Phoenix dactylifera* L.) Cultivars from Morocco Using SSR Markers. J Biodivers Biopros Dev 1: 126.
- Hasnaoui A., Elhoumaizi M.A., Borchani C., Attia, H. & Besbes, S. 2013. Contribution to the valuation of dates production in the region of Figuig (southeastern morocco). Acta Hort. (ISHS) 994:111-116
- Hasnaoui. M. A. Elhoumaizi C. Borchani, H. Attia, S. Besbes. 2012. Physicochemical Characterization and Associated Antioxidant Capacity of Fiber Concentrates from Moroccan Date Flesh. Int. J Latest Trends Agr. Food Sci. Vol-2 No 2 (94-102)
- Bodian, Amy; El Houmazi, Mohamed Aziz; Ndoeye Ndir, Khadidiatou; Hasnaoui, Amina; Nachtigall, Marion GND; Wehling, Peter GN 2012 Genetic diversity analysis of date palm (*Phoenix dactylifera* L.) cultivars from Figuig oasis (Morocco) using SSR markers. International Journal of sciences and advanced Technology vol2. N3.
- Hasnaoui A., Elhoumaizi M.A., Hakkou A., Wathelet B., & M. Sindic 2011. Physico-chemical Characterization, Classification and Quality Evaluation of Date Palm Fruits of some Moroccan Cultivars. J. Sci. Res. 3 (1), 139-149
- Hasnaoui A. Elhoumaizi M.A., Asehrou A., Sindic M., Deroanne C. & Hakkou A. 2010. Chemical composition and microbial quality of the main varieties of dates grown in Figuig oasis of Morocco. IJAB: 12- (2)-pp311-314
- Elhoumaizi MA, Panchanoor. S. Devanand, Jinggui Fang and Chih-Cheng T. Chao. 2006 Genetic analysis of 'Medjool' date palm accessions from Morocco and confirmation of "Medjool" date as a landrace variety. J.Amerc.Soc.Hort.Sci. 131. 3. 403-407.
- Elhoumaizi, M.A. Saaidi M. Oihabi A. & Cillas C. 2002. Phenotypic diversity of date palm cultivars (*Phoenix dactylifera* L.) from Morocco. Genetic resources and crop evolution.49.5.483-490.

- Elhoumaizi M.A., Lecoustre R. & Oihabi A. 2002. Phyllotaxis and handedness on date palm (*Phoenix dactylifera* L.). Fruits. 57.5-6.297-303.
- Elhoumaizi, M.A., Oihabi, A. & Saaidi, M. 1997. Marrakech date palm groves: development's constraints and advantages. Special number of the dryness review (revue sécheresse) 2, volume 9 June 1997, 163-166.
- Elhoumaizi, M.A., Saaidi, M. & Baaziz, M. 1993. Morphometric and isoenzymatic study of six date palm cultivars cultivated in Marrakech and Zagora. ALAWAMIA 82. 151-163
- Elhoumaizi, M.A. Saaidi, M., Benchaabane, A. & Diaeddine, My. M. 1993. Temperature and maturation of dates in Marrakech and Zagora. Alawamia .82. 137-149.
- Saaidi, M., Janati, A, Elhoumaizi, M.A. Chafik, My. S. & Ameziane Elhassani, A.1993. Contribution to the selection of date palm adapted to the climate of Haouz plain. Alawamia 82. 165-176.

B. Book:

- Sali Bourou, Noé Woin and Mohammed Aziz Elhoumaizi 2015. Date Palm Status and Perspective in Cameroon - Date Palm Genetic Resources and Utilization. Volume 1: Africa and the Americas Al-Khayri, Jameel M., Jain, Shri Mohan, Johnson, Dennis V. (Eds.)
- Lecoustre R., Griffon S., Jaeger M., Elhoumaizi M.A. 2010. Modélisation de l'architecture et de la croissance des Arecaceae. In : Aberlenc-Bertossi Frédérique (ed.). Biotechnologies du palmier dattier. Paris : IRD [Paris], p. 157-160
- Participation a collective Book, IPGRI et INRA Algeria, INRA Morocco et INRA Tunisia, FEM, PNUD (2006) : Date palm descriptors (*Phoenix dactylifera* L.). 71 p.

C. COMMUNICATIONS

- El Masoudy H., Tirichine H.S., Gammoudi S., Memadji-le-Allah S., Littardi C., Rey H., Bouguedoura N., Ben Salah M., Bennaceur M., Elhoumaizi M. A. and Lecoustre R. 2015. Using geostatistics to sample metric data of the frond nerve of *Phoenix dactylifera* L. - Modeling the standard shape of the nerve. 2015. Botanical Journal of Linnean Society, Special Issue, Acts of World Palm Symposium 2015, Montenegro, Quindio, Colombie, 22-26 juin 2015.
- Lecoustre R., Griffon S., Jaeger M. and Elhoumaizi MA 2007. Modelling and Simulating the Architecture and Growth of Arecaceae. Workshop on Assessment of Date Palm Diversity 26 - 28 February 2007 AlHassa. Saudi Arabia
- Elhoumaizi MA. 2007. Date palm biodiversity in Morocco. Workshop on Assessment of Date Palm Diversity 26 - 28 February 2007 at AlHassa. Saudi Arabia
- Dautat, J., Elhoumaizi, M. A., Rouspard, O., Lamada, N., Laurans, M., Lecoustre, R., 2007. Using computerized date palms for simulating light availability for under crops in oasis agro-systems. The Fourth Symposium on Date Palm. Al Hassa: The Fourth Symposium on Date Palm, 5-8/05/2007, King Faisal University, Al Hassa, Saudi Arabia.
- Elhoumaizi, M. A., Lecoustre, R., 2007. Date palm architecture. The Fourth Symposium on Date Palm. Al Hassa: The Fourth Symposium on Date Palm, 5-8/05/2007, King Faisal University, Al Hassa, Saudi Arabia.
- Lecoustre, R., de Reffye, P., Elhoumaizi, M. A., Dautat, J., 2007. Modeling of plant architecture application to perennial plants. Particular case of Palmaceae. The Fourth Symposium on Date Palm. Al Hassa: The Fourth Symposium on Date Palm, 5-8/05/2007, King Faisal University, Al Hassa, Saudi Arabia.
- Elhoumaizi M. A.2006. Date palm production and marketing. International conference on date palm production and processing technology. Muscat, Oman 9-11 May 2006.

- Elhoumaizi M. A. 2006. Palmeraie marocaine ses contraintes et ses atouts de développement. Colloque international : l'environnement oasien face aux mutations économiques et sociales» Figui 24 -25 avril 2006.
- Elhoumaizi M.A. 2004. Date marketing in Morocco situation and future challenge. Workshop: date processing, marketing and the utilization of date palm by products in the Arab region, present and views for the future. June 8-10 2004. El Medina Al-Monaurah, Kingdom of Saudi Arabia.
- Elhoumaizi M.A., Lecoustre R. & Dauzat J. 2004. Modélisation et simulation du bilan radiatif au milieu oasien Meeting international « Aridoculture et cultures oasiennes : voies pour un développement durable en zones arides » 22-25 Novembre 2004. Djerba (Tunisie).
- Elhoumaizi, MA., Zirrari, A., Dolle, V., Dauzat, J. Lecoustre, R., Jaeger, M. & Oihabi. 2000. Modelling of the architecture of the date palm Methodology and Applications International symposium on date palm, February 20-25 2000, Windhoek, Namibia.
- Elhoumaizi, M.A. & Saaidi, M. 1993. Preliminary results on the heat needs of the date palm and the horizons to enlarge its culture. Third symposium of date palm. 17-20 January 1993. Alhassa, Saudi Arabia.

VII. PROFESSIONAL ORGANIZATION MEMBERSHIPS.

- Network of improvement of agricultural productivity in arid area.
- Arid lands Information Network.
- Regional Research Network for the Mediterranean Basin and subtropical Africa.
- Date palm global network.
- Network IPTS.
- Agricultural biotechnology network in Africa.
- The European Network of Palm Scientists (EUNOPS).
- Plate-form of agrobiodiversity.
- Réseau international des arbres tropicaux (RIAT).
- Inter-réseaux Développement rural
- Biotechnologies végétales : amélioration des plantes et sécurité alimentaire
- Environment et development durable
- Génie des procédés appliqué à l'agroalimentaire
- Member of Workgroup Date Palm and other Tropical Palma ISHS "International Society for Horticultural Science"

VIII. COMPUTER SKILLS:

MS Office Applications (MS word, Excel, PowerPoint, Access), internet, Statistical (Statitcf, win stat, statistica and SPSS)

IX. LANGUAGES

- Arabic: mother language.
- French
- English