Sidi Al Masri, Faculty of Agriculture, Department of Plant Protection,

University of Tripoli, Libya

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#### **Curriculum Vitae**

#### 2022

#### **SUMMARY**

- Extensive laboratory research and teaching experience.
- Plant pathology, biological control, plant microbes interactions assays.
- Research protocols, papers and reports: writing and reviewing.
- Master degree (Ms.C.): Plant Pathology.
- Doctor of Philosophy (Ph.D.): Plant Science.

### CAREER GOAL

To apply the knowledge and experience I have gained in plant pathology, plant microbe interactions, biological control of plant pathogens, teaching, management and research supervision.

### ACADEMIC BACKGROUND

Thesis:

• University of Tripoli, Tripoli, Libya

Undergraduate and Graduate Student

Thesis: Study of Foliar Diseases of Green House Plants in Western Area of Libya: Comparison of Methyl Bromide and Dazomit Efficacy in Controlling Soil borne Fungi and Nematodes. Degree: Engineer of Agriculture; (refers to Master of Plant Pathology). 1992.

- University of Ottawa, Ottawa, Canada, studying English language.
- McGill University, Department of Plant Sciences, Montreal, Canada, Ph.D.

Thesis: Soybean Nod factor perception and response under abiotic and biotic stress conditions. 2004.

#### POSITIONS AND ACADEMIC ACTIVITIES

# University of Tripoli, Faculty of Agriculture, Tripoli, Libya, since 2021, Professor

- Dean of Faculty of Agriculture.
- Vice Dean of Faculty of Agriculture.
- Member of the Academic Program Committee for the foundation year of applied science in Libyan Universities.
- Member of the Board of Directors of the Research and consultation Center.
- Member of committee of Libyan/ Serbian Ministries of Agriculture collaborative work.
- Head of office of staff members affairs of Faculty of Agriculture.
- Head of office of Graduate studies of Faculty of Agriculture.
- Graduate studies coordinator of Department of Plant Protection.
- Supervision of research project at Biotechnology Research Centre, (BTRC), Libya: Screening and selection of local *Trichoderma* and *Bacillus Thuringiensis* isolates: evaluation of their antagonistic activities against plant pests in comparison to commercial isolates.

sponsored by Libyan Authority for research, Science and Technology (LARST).

- Conduct research projects, data collection, analysis, and interpretation.
- Presentation of results lab meetings, writing papers, oral presentations.
- Graduate Seminar Coordinator, Training and supervision of students
- Lecturer of graduate and undergraduate courses at faculty of Agriculture and Premedical school: General Botany, Introduction to Plant Pathology, Microbiology, Molecular Genetics, Principle of Plant Protection, Plant Disease control, Diseases of Horticultural Crops, Genome, Physiological Plant Pathology, Biological Control.

### PREVIOUS POSITIONS

## University of Tripoli, Faculty of Agriculture, Tripoli, Libya 1984-1995

- Research project: Survey of soil borne fungi in western area of Libya. Sponsored by National authority of scientific research (NASR).
- Teaching assistance in Lab: introduction to plant pathology, Methods in Plant Pathology, Diseases of field Crops, Diseases of Horticultural Crops, Microbiology.
- Supervision undergraduate students.
- Lecturer of:

General Botany, Introduction to Plant Pathology, Methods in Plant Pathology.

• Member of Faculty of Agriculture administrative committee of academic program for undergraduate students.

#### PREVIOUS WORK HISTORY

- University of Tripoli, Faculty of Agriculture, Tripoli, Libya, staff member. professor. 2021-present.
- University of Tripoli, Faculty of Agriculture, Tripoli, Libya, staff member. Associate professor. 2016-2021.
- University of Tripoli, Faculty of Agriculture, Tripoli, Libya, staff member. Assistant professor. 2010-2015.
- University of Tripoli, Faculty of Agriculture, Tripoli, Libya, staff member. Lecturer. 2005-2009.
- Graduate studies coordinator at Department of Plant Protection. 2016-2018.
- An affiliate for the New Partnership for Africa's Development (NEPAD), Coordination of collaborative work of Biotechnology research centers, Tripoli, Libya and Sfax, Tunisia, research project (Study and production of BT Bioinsecticides useful in biocontrol of phytophagous insects and human vectors). 2009-2010.
- Collaborative work at Agricultural Pest Control Center, Tripoli, Libya. Supervision of research project (biological control of citrus leaf minor). 2006-2008.
- McGill University, Department of Plant Science, Montreal, Canada, 2004, Research associate.

- McGill University, Department of Plant Science, 1998-2003, Ph.D. student. Part time work "managing green house facilities" at Macdonald campus.
- University of Tripoli, Faculty of Agriculture, 1984-1989. Teaching assistant and lab. Manager.
- University of Tripoli, Faculty of Agriculture, 1989-1992. Master degree student and part time employee (teaching assistant, lab. Manager).
- University of Tripoli, Faculty of Agriculture, 1992 -1995, staff member. Lecturer assistant.

#### **TEACHING EXPERIENCE**

#### • Supervisory experience

Undergraduate: Training, project assignment and supervision of

University of Tripoli students.

<u>Graduate students</u>: Introduction of new students to laboratory environment, teaching and supervision of students (2005 – present).

#### • Graduate teaching

Physiological Plant Pathology (shared course), Genome course (shared course), Biological control (shared course), Soil and Environmental Microbiology, Graduate seminar coordinator.

#### • Undergraduate teaching

Botany, introduction to Plant Pathology, Principles of Plant Protection, Microbiology, Molecular Genetics, Plant Disease control, Diseases of Horticultural crops.

### • Invited Speaker

The 5 th. Conference of Biotechnology, March, 21-23, 2009, Sebrata,

Libya. Application of Biotechnology in Production of Bio-control Agents and Bio-fertilizer: Consideration to *Trichoderma*.

• Biological control and its potential role in plant disease control. April,

15<sup>th</sup>, 2006, Biotechnology Research Centre, Tajoura, Libya.

### **PERSONAL**

- Excellent organization and interpersonal skills, punctual, detail oriented, adaptable.
- Determined and dedicated to pursue my career in Biological Sciences.
- Languages: Arabic (mother language), English.

#### AWARD

Ph.D. scholarship awarded by Ministry of Education Tripoli, Libya. 1996.

## PUBLICATIONS, ABSTRACTS AND POSTERS IN SCIENTIFIC MEETINGS

**H. Duazn**, P. Prithiviraj, A. Souleimanov, X. Zhou, D.L. Smith. 1999. Biological activity of *Bradyrhizobium japonicum* Nod factor at suboptimal incubation temperature. (Poster presentation) Annual meeting of the Canadian Society of Agronomy (CSA). Prince Edward Island, Canada.

**H. Duzan,** P. Prithiviraj, A. Souleimanov, X. Zhou, D.L. Smith. 2001. Biological activity of lipo-chitooligosacharride, Nod Bj-V ( $C_{18:1}$ MeFuc) of *Bradyrhizobium japonicum* at low pH. (Poster presentation). Annual meeting of the Canadian Society of Agronomy ASA, Guelph, Canada.

**H. Duzan,** A. Souleimanov, D.L. Smith. 2003. Nod Bj-V ( $C_{18:1}$  MeFuc) production by *Bradyrhizobium japonicum* (USDA110, 532C) at suboptimal growth temperature. (Poster presentaion) The 4<sup>th.</sup> International Conference on Mycorrhizae, Montreal, Canada.

**H. Duzan,** X. Zhou, A. Souleimanov, D, Smith, 2004. Perception of *Bradyrhizobium japonicum* Nod factor by soybean [*Glycine max* (L.) Merr.] root hairs under abiotic stress conditions. *J. Exp. Bot*.55(408): 2641-6.

**H. Duzan,** F. Mabood, X. Zhou, A. Souleimanov, D. Smith. 2005. Nod factor induces soybean resistance to powdery mildew. *Pl. Physiol. Biochem*. 43(10-11):1022-30.

**H. Duzan,** F. Mabood, A. Souleimanov, D. Smith. 2006. Nod Bj-V ( $C_{18:1}$ , MeFuc) production by *Bradyrhizobium japonicum* (USDA110, 532C) at suboptimal growth temperatures. *J. Pl. Pathol.* 163(1)107-111.

**H. Duzan,** k. Abadi, F. Vinali, D. Turra, S. Sghaier, F. El-Gamudi, M. Kushoor, A. Al-Basheer, M. Lorito. 2007. Characterization of Libyan Trichoderma strains and their *in vitro* interations with *Rhizoctonia* sp. and *Fusarium* sp. XIII International Congress on *Molecular Plant-Microbe Interactions* (poster), July 21-27, Sorrento, Italy.

**H. Duzan**, D. Smith, 2009. Structure-function relationship of Nod factor in PAL specific activity. The 5 th. *Conference of Biotechnology*, March, 21-23, Sebrata, Libya.

T. Al-Masri, **H**. **Duzan**, A. Abughania. 2009. *Fusarium* wilt of watermelon: Isolation and Identification of causal agent and response of watermelon varieties in some area of western Libya. The 3<sup>rd.</sup> Conference of Basic Sciences, April 25-27. Gharian, Libya.

S. Supanjani, K. Lee, **H. Duzan**, D. Smith. 2009. Effect of Lipo-Chitooligosaccharide on germination and seedling growth of Cauliflower. *Akta. Agro.* 12 (1): 75-82.

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**H. Duzan,** D. Smith. 2010. Field study of Nod Bj-V(C<sub>18:1</sub>, MeFuc) application to Soybean (*Glycine max* (L.) Merr.): Effect on growth and nodulation under low RZTs. *J. Egypt. Acad. Soc. Environ. Develop.* 11(4): 59-66.

T. Almasri, **H. Duzan**, A. Abughania. 2013. Evaluation of some physical, chemical, and biological measures to control *Fusarium oxysporum* f.sp. *niveum* the causal agent of fusarium wilt on watermelon. The 6<sup>th.</sup> Conference of Biotechnology, Apr. 21-23, Misurata, Libya.

A. Algeblawi, F. Adam, **H. Duzan**. 2014. Molecular Identification of the *Erwinia carotovora* subsp. *carotovora*. *Libyan J. Plant Pathol*. 4: 68-89.

K. Abadi, **H. Duzan**, F. El- Gamudi, M. Kushoor, M. Lorito. 2017. Effect of Libyan *Trichoderma* isolates on plant growth and their potential in Induction of systemic resistance in Tomato (*Solanum lycopersicum*) infected with *Botrytis cinerea*. J. gri. Biol. Sci. 3(1): 84-94.

H. Alsouyid, N. Alamri, **H. Duzan**, A. Abughania, A. Aslougi. 2019. Molecular characterization of *Alternaria solani* isolates on tomato plant *Lycopersicum esculentum* Mill. *J. Misurata. Uni. Agric. Sci.* 1: 379-400.

M. Abied, **H. Duzan.** 2020. First Report of *Macrophomina phaseolina* Causing Crown and Root Rot of Strawberry in Tripoli, Libya. *J. Appl. Plant Prot.* 9 (1): 83-84.

A, shlibak, **H. Duzan**, N. Alamri, E. Elgmati, A. Abughania. 2021. Antagonisitic effect of three locally isolated and two commercial *Trichoderma* isolates against *Sclerotinia sclerotiorum*. *Libyan*. *J. Agric. Sci*. 25 (1-2): 17-32.

K. Abadi, **H. Duzan**, F. Vinali, S. Woo, M. Lorito. 2021. Characterization of secondary metabolites from *Trichoderma* species isolated from Libyan soils and their biodegradation ability of methyl tertiary butyl ether. *Sci. Tech. Develop. J.* 2 (1): 131-142.

H. Ghawel, K. Alarabi, **H. Duzan.** 2021. *In vitro* evaluation of antagonism efficacy of four *Trichoderma* isolates on four *Rhizoctonia solani* K isolates the causal agent of Potato black scurf disease. *J. Misurata. Uni. Agric. Sciences*. 2 (2): 77-92.

M. Abied, Al-S. Ghazala, Al-T. Abohliga, **H. Duzan**. 2022. An *Alternaria* leaf spot of the Swiss Chard in Tripoli, Libya. *Facul. edu. J.* 1(2): 67 -76.