

## **personal Profile**

**NAME:** Mustafa Mohamed Ali El Balla

**BIRTH DATE:** January 1956

**NATIONALITY:** Sudanese

**MARITAL STATUS:** Married and father

**LANGUAGES:** Arabic/English

**POSITION:** Professor of Horticulture, University of Khartoum

**SPECIALIZATION:** Vegetable Production /Seed Technology

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## **EDUCATION**

1982-1987: Ph.D. University of Florida, Gainesville U.S.A.

Ph.D. Thesis “The control of growth regulators and temperature on seedstalk development and seed yield and seed quality in carrots (*Daucus carota*. L)”

1980-1982: M.Sc. University of Khartoum, Sudan

M.Sc. Thesis “Studies on the floral biology of okra (*Abelmoschus esculentus*. Moench)”

1975-1979: B.Sc. (Honors) Class One, Major subject: Horticulture, Faculty of Agriculture, University of Khartoum, Sudan

## **WORK EXPERIENCE**

- Teaching Assistant, Department of Horticulture, Faculty of Agriculture University of Khartoum (1979-1982)
  
- Graduate student, Department of Horticultural Science, University of Florida, U.S.A. (1982-1987)
  
- Assistant Professor, Faculty of Agriculture, University of Khartoum, Sudan (1987-2000)
  
- Associate Professor, Faculty of Agriculture, University of Khartoum, Sudan (2000-present)
  
- Head, Department of Horticulture, Faculty of Agriculture, University of Khartoum (1994-2000)
  
- Deputy Secretary for Academic Affairs, University of Khartoum (2000-2002)
  
- Secretary for Academic Affairs, University of Khartoum (2002-2005)
  
- Director General, General Directorate of Admission and Certificates Authentication, Ministry of Higher Education and Scientific Research (2005 )
  
- Director General, General Directorate of Scientific Research and Planning, Ministry of Higher Education and Scientific Research (2005 -present)

## **ADMINISTRATIVE ACTIVITIES**

- Secretary of the Board of the Department of Horticulture, Faculty of Agriculture, University of Khartoum (1988-1994)
  - Member of the Board of the Department of Horticulture, Faculty of Agriculture, University of Khartoum (1987-present)
  - Member of the Examination Committee, Faculty of Agriculture, U of K (1988-1990)
  - Chairman of the Examination Committee, Faculty of Agriculture, U of K (1990-1993)
  - Member of the Examinations and Prizes Committee (1994-1996)
  - Member of the Faculty of Agriculture Board (1994-2000)
  - Member of the Faculty of Agriculture Research Board (1994-2000)
  - Member of the University of Khartoum Senate (1994-present)
  - Representative of the Faculty of Agriculture in the Committee for Arabization (1999-2000)
- Member of the following university of Khartoum committees (11/2000- 2005):
- The Deans Committee
  - The Advisory Committee on Academic Studies
  - The Admission and Registration Committee
  - The Examinations and Prizes Committee
  - The Fees Committee
  - The Training committee

## **OTHER ACTIVITIES**

- Technical advisor, Vegetables and Fruits Production Unit, Arab Company for Agricultural Production & Processing (Sudan) LTD (1989-1991)
- Technical advisor, Alzahra for agricultural commodities and trade company (1995-2000)
- Member of the Committee for Eradication of Onion Yellow Dwarf Virus Disease in the Khartoum State (1995-1997)
- Technical Advisor, Vegetables and Fruits Production Unit, Arab Company for Agricultural Production & Processing (Sudan) LTD (1996-2000)
- Member of the National Technical Committee for Potato Production and Development, Ministry of Agriculture and Forestry (1998-present)

- Technical Advisor, Blue Nile Dairy Company (CAPO) for Production of Strawberry (1999-2000)
- Training of Farmers and Extension Workers in Jabal Mara Development Project, 1992
- Member of Committees to design curricula for the Faculties of Agriculture and/or Natural Resources of the Universities of Zalingi, Kordofan, East, Al Azhari and El Neelain

## **SUPERVISION OF GRADUATE STUDENTS**

### **M.Sc degree**

1. Imam Malik Ali Adam 1992: Effect of ethephon application, time of harvest and seed treatment on carrot seed yield and quality
2. Ohag Saeed Hamid 1994: Response of snake melon (*Cucumis melo* var. *flexosus*. Naud) to nitrogen, phosphorus and potassium fertilization
3. Ahmed Idris Sid Ahmed Haleeb 1994: The effect of seed maturity, seed moisture content and storage period on seed germination and dormancy of okra (*Abelmoshus esculentus* L Moench)
4. Elbushra El Siddig Mohamed Ali 1995: Tomato fruit and seed yield and quality as affected by plant population and side of planting under Sudan conditions
5. Mohamed Mohamed Ali Makkawi 1995: Evaluation of seed vigour and its relationship to field performance in lentil (*Lens culinaris* Medik)
6. Abdel Bagi Ahmed Hamid 1996: Effect of vernalization, Gibberellic acid and waterstress on onion seed yield and quality
7. Ali Hamad Bashir 1998: Response of two cultivars of snapbean (*Phaseolus vulgaris*) to micronutrients foliar application and *Rhizobium* inoculation
8. Eiman Badawi Ali El Sanousi 1999: Effect of selection for seed color on growth and yield in rocket cress *Eruca sativa*

### **Ph.D. Degree**

1. Ahmed Idris Sid Ahmed Haleeb 2001: Anatomical and enzymatic changes during seed development of hard-seeded okra (*Abelmoschus esculentus* Moench).

2. Currently supervising five M.Sc students and one Ph.D. student.
3. Served as Internal examiner for many Ph.D. and M.Sc. students.

## SYMPOSIA AND MEETINGS PARTICIPATION

1. Symposium on the timing of field production of vegetables, Tampa, Florida U.S.A (1985)
2. 82nd Annual meeting of the American Society for Horticultural science, Blacksburg, Virginia, U.S.A (1985)
3. 22nd International Horticultural Congress, Davis, California, U.S.A (1986)
4. Symposium on the production and multiplication of seed in the Sudan (1995)

## PUBLICATIONS

1. Andera S. Mohammed; Siddig M. El Hassan; **Mustafa. M.A. El Balla** and Elsiddig A.E. Elsheikh (2008) [The Role of Trichoderma, VA Mycorrhiza and Dry Yeast on the Control of Rhizoctonia Disease of Potato \(\*Solanum tuberosum\* L.\)](#), *University of Khartoum Journal of Agricultural Sciences* 16(1):284-300 (Sudan)
2. Azza Siddig Hussien Abbo; Mohamed Osman Idris; Awad Hassan Mohamed and **Mustafa.M.A. El Balla** (2008) [Identification of the Chickpea Wilt/Root-Rot Pathogens and their Interaction with the Lesion Nematode \*Pratylenchus\* sp.](#), *University of Khartoum Journal of Agricultural Sciences* 16(3): 461-476 (Sudan)
3. **El Balla, M;** and D. J. Cantliffe (1985) Effects of chemical regulators on flowering, number of umbels, seed yield and seed quality of carrot. *HortScience* 20(3): 430 (Abstract) (USA)
4. **El Balla, M** and D. J. Cantliffe (1986). Incorporation of growth regulators in the priming solution to improve seed germination in carrot. *HortScience* 21(3): 595 (Abstract) (USA)
5. **El Balla, M;** and D. J. Cantliffe (1987). [Effects of growth regulators on flowering, number of umbels, seed yield and seed quality of carrots \(\*Daucus carota\*. L.\)](#). *Acta Horticulturae* 198:163-170 (Netherland)

6. **El Balla, M;** and D. J. Cantliffe (1987). The effects of growing temperature on flowering, seedstalk development, seed yield and seed quality of carrot (*Daucus carota* L). *HortScience* 22(5): 645 (Abstract) (USA)
7. Cantliffe, D. J; **El Balla, M;** Guedes, A.C; Odell, G. B; Perkins Veazie, P; Schultheis, J, R; Seale, D. N; Shuler, K.D; Tanne, I and Watkin, J.T (1987) [Improving stand establishment of direct seeded vegetables in Florida.](#) *Proceeding Florida State Horticultural Society* 100: 213-216 (USA)
8. Cantliffe, D.J; and **El Balla, M.** (1994) [Improved germination of carrot at stressful high temperature by seed priming.](#) *Proceeding Florida State Horticultural Society* 107: 121-128 (USA)
9. **El Balla, M;** and D. J. Cantliffe (1996) [Alteration of seedstalk development, seed yield and seed quality in carrot by varying temperature during seed growth and development.](#) *Journal of the American Society for Horticultural Science* 121(6): 1076-1081 (USA)
10. El Amin, S. E; Tageldin, A.H and **El Balla, M** (1999) [Chemical weed control in direct-seeded onion \(\*Allium cepa\* L.\).](#) *University of Khartoum Journal of Agricultural Sciences* 7(2): 51-59 (Sudan)
11. Hanan Ibrahim Mudawi; Mohamed Osman Idris and **Mustafa.M.A. El Balla** (2008). Anthracnose Disease in Common Bean (*Phaseolus vulgaris* L.) in Shambat, Sudan .1. Identity of the Causal Agent. *University of Khartoum Journal of Agricultural Sciences* 16(3): 477-489 (Sudan)
12. Makkawi, M. M; **El Balla, M;** Bishaw, Z and Van Gastel, A. J. G (1999). [The relationship between seed vigour tests and field emergence in lentil \(\*Lens culinaris\* Medikus\).](#) *Seed Science and Technology* 27: 657-668 (Switzerland)
13. Makkawi, M. M; **El Balla, M;** Bishaw, Z and Van Gastel, A. J. G (2008). [Electrical Conductivity in lentil seed Leachates.](#) *Journal of New Seed* 9(4):268-283 (USA)
14. Makkawi, M. M; **El Balla, M;** Bishaw, Z and Van Gastel, A. J. G. (2008). [Correlation and Path Coefficient Analyses of Laboratory Tests as Predictors of Field Emergence in lentil \(\*Lens culinaris\* Medikus\).](#) *Journal of New Seed* 10(1):284-302 (USA)
15. A. H. A. Abdelmageed, N.Gruda and **M. M. A. El-Balla** (2009). Performance of Different Tomato Genotypes in the Arid Tropics of Sudan during the Summer Season. 1. Vegetative Growth. *Journal of Agriculture and Rural Development in the Tropics and Subtropics* 110 (2):137-145 (Europe)
16. Azza Siddig Hussien Abbo, Mohamed Osman Idris and **Mustafa M.A.El Balla** (2009). [The Response of Tea Tree Oil as a Biofungicide against Early Blight Disease in Tomato.](#) Presented in the Conference on International Research on Food Security, Natural Resource Management and Rural development, University of Hamburg, Germany October 6-8, 2009
17. Marmar El-Siddig, Adil El-Hussain, Mohammed Siddig, **Mustafa El Balla** and Mahmoud Saker (2009). [Agrobacterium Mediated Transformation and In Vitro Regeneration of Tomato \(\*Lycopersicon esculentum\* Mill\) Plants Cv. Castlerock.](#) *The journal of Genetic Engineering and Biotechnology* 7(1):1-6

18. Abu Bakr A. Abu-Goukh and **Mustafa M.A. El Balla** (2003). [Use of Plastic Mulch for Better Performance and Yield of Okra During Winter in Sudan.](#) *University of Khartoum Journal of Agricultural Sciences* 11(2): 165-178 (Sudan)
  19. Hind E.M.Elmana, Anas A. El Hassan and **Mustafa M.A. El Balla** (2003). [In vitro Propagation of Strawberry \(\*Fragaria ananassa\* Duch\) Using Shoot Tip Explants.](#) *University of Khartoum Journal of Agricultural Sciences* 11(3): 349-359 (Sudan)
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1. **M.M.A. El Balla**, A.H.B.Elamin, E.A.Elamin and E.A.E Elsheikh (2003). [Interactive Effects of Cultivars, Foliar Application of Micronutrients and Rhizobium Inoculation on Snap Bean \(\*Phaseolus vulgaris\* L.\) Performance.](#) *University of Khartoum Journal of Agricultural Sciences* 12(3): 321-332 (Sudan)
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1. Salwa K.E. Fadl, Abu Bakr A. Abu-Goukh and **Mustafa M.A. El Balla** (2005). Effect of Maleic Hydrazide on Quality and Storability of Onion. *Sudan Journal of Scientific Research* 9 (1);53-69 (Sudan)
  2. Abu Bakr A. Abu-Goukh, Adil E. Shattir and **Mustafa M.A. El Balla** (2003). [Effect of harvesting method on quality and Storability of Dry dates in Sudan.](#) *Tropical science* 43:53-56 (UK)
  3. Al Fadil Mohamed Baraka, Abu-Bakr Ali Abu-Goukh and **Mustafa Mohamed Ali El Balla**. [Physico-chemical changes during growth and development of 'Galia' cantaloupes. I. Physical changes.](#) *Agric. Biol. J. N. Am.*, 2011, 2(6): 944-951.
  4. Abu-Bakr Ali Abu-Goukh, Al Fadil Mohamed Baraka and **Mustafa Mohamed Ali El Balla**. [Physico-chemical changes during growth and development of 'Galia' cantaloupes. II. Chemical changes.](#) *Agric. Biol. J. N. Am.*, 2011, 2(6): 952-963.
  5. Zakaria Babiker, Mohammad Ehsan Dulloo, **Mustafa Mohamed Ali El Balla** and El Tahir Ibrahim Mohamed. [Effects of low cost drying methods on seed quality of Sorghum bicolor \(L.\) Monech.](#) *African Journal of Plant Science* Vol. 4(9), pp. 339-345, September 2010.
  6. Hanan Ibrahim Mudawi; Mohamed Osman Idris and **Mustafa.M.A. El Balla** . [Anthracnose Disease in Common Bean \(\*Phaseolus vulgaris\* L.\) in Shambat, Sudan II. Disease Incidence, Severity and Effect on Yield\\*.](#) *U. of K. J. Agric. Sci.* 17(1),118-130, 2009
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27. Nafisa H.Baldo, Siddig M.Elhassan, Mustafa M.A.Elballa. [Occurrence of Viruses Affecting Potato Crops in Khartoum state-Sudan.](#) *Potato Research* (2010)53:61-67.

28. Mustafa M. A. Elballa & Daniel J. Cantliffe (1997): [Modification of Seedstalk Development and Its Effects on Seed Yield and Seed Quality in Carrot \(\*Daucus carota\* L.\)](#), Journal of Vegetable Crop Production, 3:2,