

PERSONAL DETAILS

Name: Abu-Bakr Ali Abu-Goukh.

Date & Place of Birth: 15 Sept. 1948 – Shendi, Sudan.

Nationality: Sudanese.

Marital Status: Married and a father.

Languages: Arabic, English.

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Present Title: Professor and Postharvest Physiologist.

Present Position:Department of Horticulture, Faculty of Agriculture, University of Khartoum. Shambat.

EDUCATION

- **1955 – 1959:** Shendi Al-Estiglal Preliminary School.
- **1959 – 1963:** Shendi Al-Ahlia Intermediate School.
- **1963 – 1967:** Wadi Seyedna Secondary School.
- **1967 – 1972:** University of Khartoum, Khartoum, Sudan.
- **1975 – 1982:** University of California, Davis, California, USA.

QUALIFICATIONS

1. **B.Sc. Agriculture (Honors) Division One. Major Subject: Horticulture. Faculty of Agriculture, University of Khartoum (May 1972) with Awards:**
2. **- University Prize for Best Part II Student. (University of Khartoum Calinder for 1969/70).**
3. **- The Agricultural Bank Prize for Best Final Year Student in Vegetable Corps (University of Khartoum Calendar for 1971/72). - Dissertation: Use of Mulch on Cucumber Production.**
4. **M.Sc. (Vegetable Corps). University of California- Davis, California, USA. (June 1976). Dissertation: Effect of Controlled Atmosphere Storage on Quality and Storability of Bell Peppers.**

5. Ph.D. (Plant Physiology). University of California- Davis, California USA. (July 1982) Thesis: Polygalacturonase Inhibitors in the 'Bartlett' Pears.

FIELD OF WORK

Postharvest Physiologist, with special interest in improvement of postharvest handling, ripening and storage of horticultural commodities.

PROFESSIONAL AND ACADEMIC EXPERIENCE

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TEACHING

Teaching of the following undergraduate courses at the Department of Horticulture, Faculty of Agriculture, University of Khartoum:

1. Postharvest Physiology and Handling of Horticultural Corps. (1982-1987) and (1990 – 1995).
2. Floriculture and Plant Propagation (1983-1986).
3. Principles of Postharvest Physiology of Horticultural Commodities (1994-present).
4. Postharvest Handling of Horticultural Crops (1994-2010).
5. Postharvest Technology Procedures of Horticultural Commodities (2010-present).
6. Postharvest Handling Systems of Horticultural Commodities (2010-present).

Teaching of the following postgraduate course for M.Sc. (Horticulture) Program.

1. Advanced Postharvest Physiology and Handling of Horticultural Corps (2001-present).

Taught the following undergraduate courses at other Sudanese Universities:

1. Postharvest Physiology of Fruits, Vegetables and Ornamentals. Faculty of Natural Resources, Juba University (1984-1987).
2. Floriculture and Landscaping. Faculty of Natural Resources, Juba University (1984-1987).
3. Postharvest Technology of Horticultural Crops. Department of Home Science and Nutrition. Umduman Islamic University (1985-1987)

TRAINING

Faculty of Agriculture, University of Khartoum:

Supervised the training of 27 Postgraduate Students with M.Sc. and Ph.D. degrees awarded and supervision of 4 Postgraduate Students in Progress in the Faculty of Agriculture, University of Khartoum.

Food and Agriculture Organisation – UN:

1. Developed 3 training courses on Postharvest Physiology and Handling of Fruits and Vegetables (Aden, PDR-Yemen: 1988-89). Trained 25 Yemeni agricultural engineers from the research, extension, plant production, co-operatives, and marketing departments on different aspects of Postharvest Technology of Fresh Fruits and Vegetables. FAO.
2. Conducted an intensive 3-week training course on Postharvest Technology of Fresh Fruits and Vegetables at the National Agricultural Training Center in Dhmar, Republic of Yemen (1992). Thirty one subject matter specialists and extension workers participated in the course. FAO.
3. Conducted an intensive 6-day training course on Postharvest Physiology and Handling of Horticultural Corps in the Central Forestry Development Training Center at Hmaw Bi, Myanmar (1993). Thirty Nine technical officers from the Forestry Department and the Myanmar Agricultural Services were trained on different aspects of Postharvest Technology of Horticultural Corps. FAO.
4. Conducted a workshop on Home Preserving and Processing of Fruits and Vegetables at the Central Forestry Development Training Center in Hmaw Bi, Myanmar (1993). Thirty technical staff from the Forestry Department, Agricultural Services and the Training Center participated in the workshop. Different preserving and processing techniques of fruits and vegetables described through lectures, slide-shows, demonstrations and discussion session. A simple, cheap to build and mobile family-type sun dryer was introduced. FAO.
5. Developed career programs and trained counterparts on Loss Assessment in Perishable Corps, and to conduct training programs on Postharvest Technology and prepared training modules on Postharvest Handling Systems of the major fruits and vegetables in PDR-Yemen (1987-1989), Republic of Yemen (1991-1992), The Union of Myanmar (1993) and Egypt Arab Republic (1994-1995). FAO.
6. Supervised the implementation of training programs to the different Yemeni trainee categories of The Ministry of Agriculture (1987-1992). FAO.
7. Provided advisory services to State Farms, Cooperatives, Companies, Research Centers, Public Corporations for Marketing of Vegetables and Fruits and Private Sector to improve methods and subsequent handling procedures in PDR-Yemen (1987-1989), Republic of Yemen (1991-1992), The Union of Myanmar (1993) and Egypt Arab Republic (1994-1995). FAO.
8. Carried a 3-day workshop on Posthavest Handling of Artichokes at the Horticultural Research Institute in Cairo, Egypt (1995). The workshop was attended by forty four participants, including producers, packers, exporters and technical staff involved in artichoke production, handling and processing. FAO.

International Labor Organization:

Developed training programs on Postharvest Technology of Horticultural Corps. Implemented these training programs to: Directors of the Youth Centers-International Labor Organization, Khartoum (1983-85).

SUPERVISION OF POSTGRADUATE STUDENTS

Supervision with Degrees Awarded:

Supervised the Training and Research of the Following Postgraduate Students:

1. Kamal El-Din El-Dandrawi Ibrahim. (M.Sc.-Agriculture, Degree awarded: Nov. 1987). Thesis: Postharvest Studies on Banana Fruit Ripening.
2. Ismail Mohamed Dawoud. (M.Sc.- Agriculture, Feb. 1988). Thesis: Postharvest Studies on Faba Beans Quality.
3. Asim Fadl Abu-Sarra. (M.Sc.- Agriculture, April 1988). Thesis: Compositional and Textural Changes During Mango Fruit Ripening.
4. Hamad El Nil Bashir Garay. (Ph.D.- Agriculture, June 1991). (Joint Supervision.). Thesis: Development and Postharvest Studies on Sweet Oranges.
5. Hassan Ibrahim Ali Mofadel. (M.Sc.- Agriculture, Aug. 1993). Thesis: Evaluation of Pre- and Post-Harvest Practices and Cultivars of Onion for Yield, Quality and Storability in Jabel Marra Area.
6. Nagat Musa El-Hag Ahmed. (M.Sc.- Agriculture, March 1994). Thesis: Postharvest Handling and Storability of Semi-Dry Dates in Sudan.
7. Adil El-Tayeb Shattir. (M.Sc.- Agriculture, Dec. 1997). Thesis: Studies on Harvesting Method, Postharvest Handling and Storage of Two Dry Date Cultivars.
8. Hind Abdel-Moneim Bashir. (M.Sc.- Agriculture, May 1999). Thesis: Compositional and Enzymatic Changes during Guava Fruit Ripening.
9. Haithem El-Sheikh Mohamed Ahmed. (M.Sc.- Agriculture, Aug. 2002). Thesis: Physical and Chemical Changes During Growth and Development and Use of Ethrel on Mango Fruit Ripening.
10. Misoon Bashir Ali. (M.Sc.- Horticulture, January 2003). Dissertation: Changes in Pectinesterase, Polygalacturonase and Cellulase Activity during Tomato Fruit Ripening.
11. Hafiza Ibrahim Mohamed. (M.Sc.- Agriculture, March 2003). Thesis: Effect of Harvesting Method, Waxing and Fungicide Treatment on Quality and Shelf-life of Mango Fruit.
12. Salwa Karam El-Din Fadl. (M.Sc.- Agriculture, April 2003). Thesis: Effect of Preharvest Application of Maleic Hydrazide on Quality and Storability of Onions.
13. Ikhlas Hamadnalla Ahmed Osman. (M.Sc.- Horticulture, April 2003). Dissertation: Effect of Maleic Hydrazide and Waxing on Ripening and Quality of Tomato Fruit.
14. Samah Omer Ayoub Ali. (M.Sc.- Horticulture, December 2004). Dissertation: Effect of 2,4,5-Trichlorophenoxy Acetic Acid (2,4,5-T) and Waxing on Quality and Storability of Lime Fruits.
15. Fatima Ali Elshiekh. (M. Sc.- Horticulture, March 2005). Dissertation: Effect of Harvesting Method, Waxing and Fungicide Treatment on Quality and Storability of Grapefruits.
16. Mai Ahmed Elamine. (M. Sc.- Horticulture, July 2006) Dissertation: Effect of Polyethylene Film Lining and Potassium Permanganate on Quality and Shelf-Life of Banana Fruits.
17. Hiba Elmukhtar Osman. (M. Sc.- Horticulture, August 2006). Dissertation: Effect of Polyethylene Film Lining and Gibberellic Acid on Quality and Shelf-Life of Banana Fruits.
18. Ibtissam Abdalla Mohamed Nour. (M.Sc.- Agriculture, 2007). Thesis: Chemical Control of Ripening of Guava Fruits.
19. Adil El-Tayeb Shattir. (Ph.D.- Agriculture, August 2007). Thesis: Post-Harvest Studies on Papaya Fruits.
- 20.

El Kheir Hassaballah Abdallah Ahmed. (M.Sc.- Horticulture, Oct. 2008). Dissertation: Effect of Gibberellic Acid and Waxing on Quality and Shelf-Life of Lime Fruits.

Aida Eesa Muddathir Sed Ahmed. (M.Sc.- Horticulture, April 2009). Dissertation: Effect of Maleic Hydrazide and Waxing on Quality and Shelf-Life of Mango Fruits.

Simaa Yousif Mohammed Elhassan. (M.Sc.- Horticulture, Sept. 2009). Dissertation: Compositional and Enzymatic Changes during Muskmelon Fruit Ripening.

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2. Al Fadil Mohamed Baraka. (Ph.D.- Agriculture, Sept. 2009). Thesis: Post-Harvest Studies on 'Galia' Cantaloupe (*Cucumis melo* L.).
- 3.

Islam Kamal Saeed. (M.Sc. – Horticulture, Sept. 2010). Dissertation: ***Effect of 1-MCP and Waxing on Quality and Shelf-Life of Banana Fruits.***

Iman Abdalla Atta Elfadeel. (M.Sc. – Horticulture, April 2012). Dissertation: ***Effect of Gibberellic Acid and Waxing on Quality and Shelf-Life of Mango Fruits.***

Mamoun Ahmed Arabi. (M.Sc. – Horticulture, Sept. 2012) Dissertation: ***Effect of Ethylene Released from Ethrel on Banana Fruit Ripening.***

Mohamed Magzoub Elzubeir. (Ph. D. – Agriculture, Nov. 2012). Thesis: ***Post-Harvest Studies on Mango (*Mangifera indica*) Fruits in 'Abu-Gebeha' Area, Southern Kordofan.***

Supervision in Progress:

Supervising the Training and Research of the Following Postgraduate Students:

- Arasheid Ahmed Salim. (Ph. D.- Agriculture). Title: Post-Harvest Studies on Spearmint (*Mintha spicata* L.).
- Ali Azhari Mohammed Al Mahi. (M.Sc. – Horticulture) Title: ***Compositional Changes during Growth and Development of Grapefruits.***
- Misoon Bashir Ali Abd El Rahman. (Ph. D. – Agriculture). Title: ***Organic and Alternative Methods for Potato (*Solanum tuberosum* L.) Sprout Control in Storage.***
- Fatima Ali Elshiekh Mohamed. (Ph. D. – Agriculture). Title: ***Pre- and Post-Harvest Studies on Banana (*Musa* sp.) in Khartoum State.***

RESEARCH

1972-1974: Conducted research on breeding, selection, production, and storage of onion cultivars suitable for dehydration in a project directed to solve problems of dehydration factories in Sudan. (Sudan Agricultural Research Corporation).

1975-1982: Conducted research on Ripening and Storage of Bananas and Peppers, Disease Resistance in Apples and Pears, and Polygalacturonase Inhibitors in Pears. The research was carried out in partial fulfillment of the M.Sc. and Ph.D. requirements. (University of California – Davis).

1982-1987 and 1990-2010: Supervised the research of 31 postgraduate students at the Faculty of Agriculture, University of Khartoum. The research investigated different post-harvest aspects on Bananas, Mangoes, Oranges, Grapefruits, Limes, Guavas, Papayas, Dates, Muskmelons, Onions, Potatoes, Tomatoes, and Faba Beans. (Faculty of Agriculture, University of Khartoum).

1987-1995: Conducted field trials on Post-Harvest Handling Systems of Bananas, Oranges, Papayas, Tomatoes, Onions and Garlic in PDR-Yemen (1987-1990); of Grapes, Bananas, Tomatoes, Potatoes, Onions and Garlic in Republic of Yemen (1991-1992); of Tomatoes, Onions, Oranges and Papayas in the Union of Myanmar (1993); and of Globe Artichokes in Egypt Arab Republic (1994-1995). Quantitative and qualitative losses at the different stages of the marketing channel were assessed, critical loss points were identified, and preventive measures to reduce postharvest losses and to improve quality were introduced. (Food and Agriculture Organization – UN)

Current Research:

Compositional changes during growth and development of guavas and grapefruits.

Improvement of harvesting methods and postharvest handling procedures on bananas, grapefruits and spearmint.

Improvement of postharvest handling, ripening and storage of banana, mangoes and citruses.

Chemical control of ripening on bananas, mangoes and citruses using gibberellins, potassium permanganate, 1-MCP and waxing.

Organic and alternative methods for potato sprout control in storage

ADMINSTRATIVE EXPERIENCE

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ACADEMIC APPOINTMENT

- **1972-1974: Research Assistant. Sudan Agricultural Research Corporation-Horticultural Section. Hudeiba Research Station, Adamer, Sudan.**

- **1974-1975: Teaching Assistant. Department of Horticulture, Faculty of Agriculture, University of Khartoum.**
- **1975-1981: Senior Scholar. University of California-Davis, California, USA.**
- **1981-1982: Research Assistant. University of California-Davis, California, USA.**
- **1982-1992: Assistant Professor and Postharvest Physiologist, University of Khartoum, Khartoum, Sudan.**
- **1992-2003: Associate Professor and Postharvest Physiologist, University of Khartoum, Khartoum, Sudan.**
- **2003-Presnt: Professor and Postharvest Physiologist, Department of Horticulture, Faculty of Agriculture, University of Khartoum, Sudan.**

ACTIVITIES AND RESPONSIBILTIES

1. University of Khartoum and Other Academic Institutions:

1. Member of Faculty Board, Faculty of Agriculture, University of Khartoum (1983-1987) (2003-Present).
2. Advisor of Students' Horticultural Society, Faculty of Agriculture, University of Khartoum (1983-1987).
3. Secretary of Editorial Board of the Sudan Agricultural Journal (1984-1987).
4. Member of Directory Board of the Cooperative Society for Horticultural Services, Khartoum, Sudan (1984-1987).
5. Member and Convener of Students Affairs Board, University of Khartoum (1992-1994).
6. Member of University of Khartoum Council (1992-2005, 2009-Present).
7. Member of University of Khartoum Senate (1992-Present).
8. Convener of the University of Khartoum Senate (1994-2000).
9. Member of the following University of Khartoum Committees: Executive and Financial Committee of the University Council (2000-2005, 2009-Present). Deans Committee (1992-2005). Advisory Committee for Academic Studies (1992-2005). Staff Appointment Committee (1994-2005). Staff Promotion Committee (1996-2005). Honorary Degrees' Committee (1994-2005). Admission and Registration Committee (1994-2005). Al-Baghdadi Trust Board (2000-2005).
10. Chairman of the following University Committees of Khartoum (2000-2005): Examination and Prize Committee. Fees and Bursaries Committee. Staff Affairs Committee. Teaching Assistants Appointment Committee. University Library Committee. University Press Committee. High Committee for Training. High Committee for Arabicization. Executive Committee for Admission and Registration. Academic Field Trips Committee. Students Affairs Committee. Technical Committee for Laboratories. The Board of Scientific Research and Cultural Relations. The Board of Registrars. The Board of Technicians. Statutes and Regulations Committee.
11. Member of Sudan National Library Council (2004-2009).
12. Member of University of Science and Technology Senate (2003-2009).
13. Member of University of Medical Sciences and Technology Senate (2006-2009).

14. Member of Sudan Academy of Scientific Research Academic Board (2006-Present).
15. Member of Sudan Academy for Banking and Financial Studies Academic Board (1997-Present).
16. Horticultural Specification Committee, Sudanese Standard and Metrology Organization (1998-2002).
17. Scientific Research Committee, Sudanese Standard and Metrology Organization (2005-2007).
- 18.

Chairman of Academic Board of Khartoum Technical College (March 2012-Present).

2. Ministry of Higher Education and Scientific Research:

1. Member of Admission Committee (2005-2009).
2. Member and Convener of Scientific Research Committee (2005-2006).
- 3.

Member of Private and Foreign Higher Education Committee (2006-Present).

Convener of Private and Foreign Higher Education Committee (2006-2009).

Member and Convener of Private and Foreign Higher Education New Projects Committee (2006-2009).

- 1.
2. Member of Certificate Authentication and Evaluation (2005-2009).
3. Member of Sudan Volunteers Program (SVP) for Teaching English Language (2006-2009).
4. Chairman of Students' Transfer Committee (2006-2009).
5. Chairman of Mature Students Committee (2006-Present).
- 6.

Chairman of Scientific Research Committee of the National Council of Higher Education and Scientific Research (2010-Present).

Member of the National Council of Higher Education and Scientific Research (2010-Present).

3. Food and Agriculture Organization, UN:

1. FAO Postharvest Expert in Perishable Corps, Postharvest Center Project (FAO/ UNDP/ PDY/ 86/ 003), Aden, PDR-Yemen (1987-1990). FAO.
2. FAO Postharvest Handling Consultant in the following Projects:

3. Development of Postharvest Practices (YEM/ 87/ 012). Sana'a, Republic of Yemen (May-Aug. 1991 and Feb-April 1992). FAO.
4. Pilot Watershed Management for Kinda Dam (UNDP/ FAO/ 81/ 003). Yangon, The Union of Myanmar (Dec. 1992-March 1993). FAO.
5. Improvement of Artichoke Development (TCP/ Egy/ 2354). Cairo, Egypt Arab Republic (May 1994 and Jan. 1995). FAO

ACADEMIC AND PROFESSIONAL MEMBERSHIPS

- The Sudanese Agricultural Society.
- The Sudanese Horticultural Society.
- The American Society for Horticultural Science.
- The International Society for Horticultural Science.
- The Sudanese Environment Conservation Society.
- The Cooperative Society for Horticultural Services.
- The Sudanese Agricultural Engineers Union.
- The Sudanese Agricultural Council.

COURSES, WORKSHOPS AND SEMINARS

1. The Second Tomato Quality Workshop. 12-14 July 1976. University of California-Davis, California, USA.
2. The Summer Travel Course on Environmental Horticulture and Landscape Floriculture. May 1978. California, USA.
3. Postharvest Technology Short Course. 16-29 July 1979. University of California- Davis, California, USA.
4. Fifth Conference of Information Technology on Electronic Government (E-Gov.). Arab Organization for Administrative Development. Sharma Asheikh, Egypt Arab Republic. 4-8 September, 2005.
5. Training Course on Strategies of Adminstrative Planning. (Professor Ayman Abdl Raheim). European Business Center for Development and Training. Asham Hotel, Damascus, Serya Arab Republic. 3-7 September, 2006.
6. Seminar for African Senior Education Officials. Ministry of Commerce, People's Republic of China. Northeast Normal University, Changchun. 16-30 November, 2006.

CONFERENCES AND WORKSHOPS

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SCIENTIFIC AND PROFESSIONAL

1. The Eighth African Symposium on Horticultural Corps. International Society for Horticultural Science (ISHS). 20-24 March, 1983. Wad Medani, Sudan.
2. The Third Arab Horticultural Conference. Egyptian Horticultural Society. 7-10 October, 1984. Cairo, Egypt.
3. The Workshop on Problems and Development Strategies for Vegetables and Fruit Sector in Sudan. Sudanese-German Services for Vegetables and Fruit Production. 17-18 December, 1985. Khartoum, Sudan.
4. The National Economical Conference-Agricultural Sector. 18-20 March, 1986. Friendship Hall, Khartoum, Sudan.
5. The First Arab Scientific Symposium for Horticulture. Arab Organization for Agricultural Development. 12-17 April, 1986. Amman, Jordan.
6. The First Regional Horticultural Conference. Ministry of Agriculture. 13-15 January, 1987. Wad Medani, Sudan.
7. The Round Table Conference on Medium- and Long-Term Agricultural Development Strategies and Policies. Republic of Sudan/ FAO/ AOAD. 22-28 March, 1987. Khartoum, Sudan.
8. The Meeting of Transfer of Technology for Agricultural Development in the Northern Region. Republic of Sudan/ IFAD. 20-24 October, 1987. Khartoum, Sudan.
9. The Conference on Development and Support of Horticulture in Sudan. Ministry of Agriculture/ Arab Organization for Agricultural Development. 5-6 June, 1995.
10. The Agricultural Conference. Ministry of Agriculture. 2-4 March, 1996. Friendship Hall, Khartoum, Sudan.
11. The Conference on Modern Technology and its Impact on Increased Productivity of Field Corps. Union of the Arab Agricultural Engineers and Union of Sudanese Agricultural Engineers. 4-7 February, 2003. Khartoum, Sudan.
12. Workshop of Citruses in Sudan: Present and Future. Horticultural Sector Directorate, Ministry of Agriculture and Forestry. Khartoum, Sudan. 14 April, 2004.
13. Workshop of Mango Future in Sudan. Horticultural Sector Directorate, Ministry of Agriculture and Forestry. Khartoum, Sudan. 6 April, 2005.
14. Biodiversity Conference. Ministry of Higher Education and Scientific Research and Union of Arab Scientific Research Councils. Khartoum, Sudan. 12-14 September, 2005.
- 15.

Workshop on Fruits and Vegetables Display Systems, Procedures and Standards. Sudanese Standards and Metrology Organization. Khartoum, Sudan. 16 April, 2012.

Regional Multi-Stakeholder Workshop on Food Security and Nutrition. Food and Agriculture Organization (FAO) Regional Office for the Near East. Khartoum, Sudan. 17-18 September 2012.

EDUCATIONAL AND ADMINISTRATIVE

1. Arab Association of University Officials for Admission and Registration 16th Conference. 2-6 April, 1995. The American University, Alexandria, Egypt.
2. Arab Association of University Officials for Admission and Registration 17th Conference. 31 March – 4 April, 1996. Lebanese University, Beirut, Lebanon.
3. Arab Association of University Officials for Admission and Registration 18th Conference. 31 March – 3 April 1997. University of Al-Yarmouk, Irbid, Jordan.
4. Association of African Universities 9th General Conference. 13-18 January, 1997. University of Zambia, Lusaka, Zambia.
5. Workshop on Appointment and Promotion of Academic Staff in Universities in the Arab Countries. 25-27 October, 1997. Damascus, Syria.
6. Workshop on Qualification and Training in the Universities. The National Council. 17 September, 1998. Umdurman, Sudan.
7. Arab Association of University Officials for Admission and Registration 21st Conference. 27-30 March, 2000. Dubai Police College. Dubai, United Arab Emirates.
8. International Association of Universities 11th General Conference. 22-25 August, 2000. University of Natal, Durban, South Africa.
9. Association of Arab Universities 33rd General Conference. 17-19 April, 2000. Lebanese University, Beirut, Lebanon.
10. Association of African Universities 10th General Conference. 5-9 February, 2001. Kenyatta University, Nairobi, Kenya.
11. Association of Arab Universities 34th General Conference. 20-23 March, 2001. Asuut University, Asuut, Egypt.
12. Workshop on Arabicization of the Medical and Health Sciences. 9-10 January, 2002. University of Khartoum, Khartoum, Sudan.
13. Association of Arab Universities 35th General Conference. 24-27 March, 2002. United Arab Emirates University, Al Ain, Abu Dhabi, United Arab Emirates.
14. Association of African Universities COREVIP 2003 General Conference of Rectors, Vice-Chancellors and Presidents of African Universities. 17-21 March, 2003. University of Mauritius, Mauritius.
15. Association of Arab Universities 36th General Conference. 4-6 October, 2003. University of Qatar, Adawha, Qatar.
16. Third General Conference of the Federation of the Universities of the Islamic World (FUIW). 8-11 March, 2004. University of Sharjah, United Arab Emirates.
17. Association of Arab Universities 37th General Conference. 5-8 April, 2004. Beirut Arab University.
18. Conference of Distance Learning in Sudan. University of Juba and Sudatel. Ashaheid Azubeir Conference Hall, Khartoum, Sudan. 30 May – 1 June, 2005.
19. Conference of Future University. Ministry of Higher Education and Scientific Research and Future Studies Center. Friendship Hall, Khartoum, Sudan. 27-29 August, 2007.
- 20.

International Conference on Strategies of Scientific Research in the Universities of the Muslim World: Reality and Prospects. International Islamic University Malaysia (IIUM), Kuala Lumpur, Malaysia. 6-8 July 2010.

DEGREES AND REWARDS

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PUBLICATIONS

1. PAPERS IN REFEREED SCIENTIFIC JOURNALS

1. **Abu-Goukh, A.A.**; Strand, L.L. and Labavitch, J.M. (1983). [Development – related changes in decay susceptibility and polygacturonase inhibitor content of ‘Bartlett’ pear fruit. *Physiological Plant Pathology*, 23: 101-109. \(USA\).](#)
2. **Abu-Goukh, A.A.**; Greve, L.C. and Labavitch, J.M. (1983). [Purification and partial charachterization of ‘Bartlett’ pear fruit polygacturonase inhibitors. *Physiological Plant Pathology*, 23: 111-122. \(USA\).](#)
3. **Abu-Goukh, A.A.** and Labavitch, J.M. (1983). [The *in vivo* role of “Bartlett” pear fruit polygacturonase inhibitors. *Physiological Plant Pathology*, 23: 123-135. \(USA\).](#)
4. Abdel-Hafeez, A.T. and **Abu-Goukh, A.A.** (1984). [Use of plastic mulch on cucumber \(*Cucumis sativus*\) production under Sudan conditions. *Sudan Agricultural Journal*, 10: 19-24.](#)
5. **Abu-Goukh, A.A.** (1986). [Effect of low oxygen, reduced pressure and use of ‘Purafil’ on banana fruit ripening. *Sudan Agricultural Journal*, 11: 55-67.](#)

6. Abu-Sarra, A.F. and **Abu-Goukh, A.A.** (1993). Changes in pectin-esterase, polygalacturonase and cellulase activity during mango fruit ripening. *Journal of Horticultural Science*, 67(4): 561-568. (UK).
7. **Abu-Goukh, A.A.** and Abu-Sarra, A.F. (1992). Compositional changes during mango fruit ripening. *University of Khartoum Journal of Agricultural Sciences*, 1(1): 32-51.
8. Ibrahim, K.E.; **Abu-Goukh, A.A.** and Yusuf, K.S. (1994). Use of ethylene, acetylene and ethrel on banana fruit ripening. *University of Khartoum Journal of Agricultural Sciences*, 2(1): 73-92.
9. **Abu-Goukh, A.A.**; Ibrahim, K.E. and Yusuf, K.S.(1995). A comparative study of banana quality and acceptability under different ripening conditions in Sudan. *University of Khartoum Journal of Agricultural Sciences*, 3(2):32-48.
10. Mofadal, H.I. and **Abu-Goukh, A.A.** (2000). Performane, quality and yield of twenty onion cultivars in 'Jabal Marra' area – Sudan. *University of Khartoum Journal of Agricultural Sciences*, 8(1): 60-76.
11. Garray,H. B., **Abu-Goukh, A.A.**; El-Tahir, F.H. and Hamid, G.A.(2000). Degreening of 'Hamlin' oranges. *Sudan Journal of Agricultural Research*, 3: 59-64.
12. **Abu-Goukh, A.A.**; Mofadal, H.I. and Abu-Sarra, A.F. (2001). Post-harvest quality and storability of twenty onion cultivars at 'Jabal Marra' area – Sudan. *University of Khartoum Journal of Agricultural Sciences*, 9(2): 236-253.
13. Shattir, A.E.; **Abu-Goukh, A.A.** and Karam-Alla, K.M. (2002). Physical and chemical characteristics and yield components of 'Barakawi' and 'Gondeila' dry dates. *Sudan Journal of Scientific Research*, 8(1): 119-131.
14. Garray, H.B.; **Abu-Goukh, A. A.**; El-Tahir, F.H. and Hamid, G.A. (2002). Physical and chemical changes in Valencia orange fruits grown in heavy clay soils of central Sudan. *Journal of Natural Resources and Environmental Studies (JONARES)*, 3(1): 23-27.
15. Bashir,H.A.and **Abu-Goukh, A.A.**(2003). Compositional changes during guava fruit ripening. *Journal of Food Chemistry*, 80(4): 557-563. (UK).
16. **Abu-Goukh, A.A.** and Bashir, H.A. (2003). Changes in pectic enzymes and cellulase activity during guava fruit ripening. *Journal of Food Chemistry*, 83(2): 213-218. (UK).
17. **Abu-Goukh, A.A.**; Shattir, A.E. and El-Balla, M.M.A.(2003). Effect of harvesting method on quality and storability of dry dates in Sudan. *Journal of Tropical Science*, 43(1): 53-56. (UK).

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COURSES

1. Principles of Post-Harvest Physiology of Horticultural Crops (Hort. 301)

(أساسيات فيزيولوجيا ما بعد الحصاد للحاصلات البستانية (بست 301)

1. مقدمة
2. التدهور في الحاصلات البستانية
3. النمو والتطور في الحاصلات البستانية
4. التنفس في الحاصلات البستانية
5. غاز الأثيلين في الحاصلات البستانية
6. المحتوى الكيميائي في الحاصلات البستانية (1)
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2. Post-Harvest Technology Procedures of Horticultural Crops (Hort. 304)

(معاملات تقنية ما بعد الحصاد للحاصلات البستانية (بست 304)

1. تقنية ما بعد الحصاد
2. حصاد الحاصلات البستانية
3. إعداد وتجهيز الحاصلات البستانية للتسويق
4. تغليف وتعبئة الحاصلات البستانية
5. تبريد الحاصلات البستانية
6. تخزين الحاصلات البستانية
7. الجو الهوائي المعدل أثناء الشحن والتخزين
8. إنضاج الثمار
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3. Post-Harvest Handling Systems of Horticultural Crops (Hort. 401)

(أنظمة تداول ما بعد الحصاد للحاصلات البستانية (بست 401)

4. نظم تداول محاصيل الخضر الورقية والأنسجة الخضرية الغضة.
5. نظم تداول محاصيل الخضر الثمرة.

نظم تداول محاصيل الخضر الدرنية والبصلية والجزرية.

(نظم تداول محاصيل الفاكهة المدارية (الإستوائية).

نظم تداول محاصيل الفاكهة شبه المدارية.

نظم تداول محاصيل فاكهة المناطق المعتدلة.

نظم تداول محاصيل أزهار القطيف 5.

5. Post-Harvest Technology of Horticultural Crops (M.Sc. Program)

1. Post-Harvest Physiology of Horticultural Crops.
2. Deterioration and Post-Harvest Losses in Horticultural Crops.
3. Physiology and Biochemistry of Horticultural Crops.
4. Water Loss in Horticultural Crops.
5. Physiological and Pathological Disorders.
6. Post-Harvest Technology Procedures.
7. Post-Harvest Physiology of Individual Crop