

السيرة الذاتية د. عثمان علي حاج الامين

Curriculum Vitae

Osman Ali Hagelamin

Assistant Professor, Department of Biological Sciences,
College of Science, King Faisal University



P.O. Box 5324
Hofuf , 31982
Saudi Arabia
Office: 03-580-0000 Ext. 9428
Residence 013 5881250 Mobile +966597929850
Fax +96635886437
E-mail: oahag77@gmail.com

Professional Preparation

B. S. (Hon), (1984) Botany, Faculty of Science, University of Khartoum, Sudan

M. Sc. (2000), Botany/Genetics, Graduate College, University of Khartoum, Sudan

Title: Karyotypic Analysis of Guar (*Cyamopsis tetragonoloba*) Chromosomes

Ph. D., (2007), Botany/Genetics, Graduate College, University of Khartoum, Sudan

Title: Induced Mutations in Guar (*Cyamopsis tetragonoloba*) Using Gamma Rays and Sodium Azide

Professional Appointments

Assistant Professor, Department of Biological Sciences, College of Science, King Faisal University, 2009- Present

Assistant Professor, Department of Botany, Faculty of Science, University of Khartoum, Sudan , 2007-2009

Lecturer, Department of Botany, Faculty of Science, University of Khartoum, Sudan , 2001-2007

Teaching Assistant, Department of Botany, Faculty of Science, University of Khartoum, Sudan , 1987-2000

Graduate Level Courses Taught

Department of Biological Sciences, College of Science, King Faisal University

Biology

Genetics

Mycology

Plant Anatomy

Economic Plants

Archegoniates

Department of Botany, Faculty of Science, University of Khartoum

General Botany

Microbial Genetics

Cytogenetics

Genetics

Bahr Elgazal University

Cell Biology

Research Grants

Principle Investigator of Internally Funded Research Project entitled “Potential Use of Aloe (Aloe vera) Extracts as Motivation Agents to Protect Barley (*Hordeum vulgare* L) Root

Tips Against Cytotoxic/Genotoxic Effects of Al-Ahsa Sewage Effluent” Funded by Scientific Research Deanship, King Faisal University.

Principle Investigator of Internally Funded Research Project entitled “Characterization of date palm (*Phoenix dactylifera*) karyotypes” Funded by Scientific Research Deanship, King Faisal University.

Principle Investigator of Internally Funded Research Project entitled “Genetic Expressivity and Isozyme profile of Antioxidative Stress Enzymes in Albamia Alhasawia {Okra, *Abelmoschus esculentus* (L.) Moench} Under Increasing Salinity” Funded by Scientific Research Deanship, King Faisal University.

Co-Investigator of Internally Funded Research Project entitled “Comparative Studies on the Cytotoxic and Genotoxic Effects of Five Organophosphate Insecticides Used to Control Red Palm Weevil, on the Somatic Cells of *Allium cepa* L.” Funded by Scientific Research Deanship, King Faisal University.

Co-Investigator of Internally Funded Research Project entitled “Sequencing the plastid genome of Hassawi okra *Alemoschus esculentus* (L.) Monech” Funded by Scientific Research Deanship, King Faisal University.

Publications

- Hagel Amin, O. A. and Alzahrani, Abdullah Mossa (2015). Characterization and Analysis of Date palm (*Phoenix dactylifera*) Karyotypes. *Asia Life Sciences* 24(2): 809-822.
- Hag El Amin, O. A (2007). Induced Mutations in Guar (*Cyamopsis tetragonoloba*) Using Gamma Rays and Sodium Azide, Ph. D. thesis.
- Hag El Amin, O. A. and Abdella, A. H. (2003). Karyotypic studies in the genus *Cyamopsis*. *Sudan J. Basic Sci (Series B) Biological Sciences*, 3: 9-21.

Unpublished papers

Genetic Interrelationships and Isozyme Profile of Antioxidative Stress Enzymes in Albamia Alhasawia {Okra, *Abelmoschus esculentus* (L.) Moench} Under Increasing Salinity.

- Development of callus from scalp and scale leaves of banana (*Musa* sp. AAA group), Busari cultivars
- Influence of induced mutation by gamma rays and sodium azide on yield components of guar (*Cyamopsis tetragonoloba*).
- Karyological study on some Saudi date palm (*Phoenix dactylifera*) varieties
- Characterization of peroxidase and aspartate aminotransferase isozymes in guar (*Cyamopsis tetragonoloba*)
- Induction of variability in the agronomical traits of guar (*Cyamopsis tetragonoloba*)

Collaborators

Bahr Elgazal University, Teaching of Cell Biology course
Department of Biology, Omdurman Islamic University, Curriculum development.

Post Doctoral

On Molecular Biology and Plant Tissue Culture and Biotechnology Techniques, from 1st June to 30th December, International Center for Chemical and Biological Sciences, University of Karachi, Pakistan. The studies were on "Development of Embryogenic Callus of Banana" and "Genetic Diversity Among the Different Varieties of *Celosia*"

Scientific visit

On Theoretical and Practical Training in Molecular Biology, Biology and Chemistry Departments, Faculty of Science, University of Ankara, Turkey.

Training Courses

Training Course on Computer, Windows Operation and Lotus 123, from 18-3 to 18-6\1995, Faculty of Mathematical Sciences, University of Khartoum, Sudan.

Training Course on Education Sciences from 27\11 to 23\12\1995, Staff Members Training Center, University of Khartoum.

Contribution to Department Activities:

- Member of the Committee of Academic Advising, Department of Biological Sciences, college of Science, King Faisal University.
- Head of the Department of Botany (acting), Faculty of Science, University of Khartoum, 1/7-18/9/2009.
- Establishment of Tissue Culture Laboratory (in collaboration with the Head of the Department), Department of Botany, Faculty of Science, University of Khartoum, 2009.
- Establishment of Molecular Biology Laboratory (in collaboration with the Head of the Department), Department of Botany, Faculty of Science, University of Khartoum, 2006.
- supervision of several honors students graduation projects (in the period 2002-2009), Department of Botany, Faculty of Science, University of Khartoum.
- Secretary of Examination and Time table officer, Botany Department, U. of K, 2004-2005

Contribution to Conferences

- Participation in the 30th Meeting of the Saudi Biological Society Title: Economic of the Red Sea and their Development, 07-09 April 2015, Tabuk University, Tabuk, KSA. The title of the presentation was "Characterization and Analysis of Date palm (*Phoenix dactylifera*) Karyotypes".
- Participation in Antibiotic Resistance: The Biggest Medical Problem We Face Today, 08/11/2014, Accredited by Saudi Commission for Health Specialties- Deanship of Academic Development- King Faisal University
- Participation in the 25th Meeting of the Saudi Biological Society Title: Nano Technology in Life Sciences, 11-13 May 2010, King Faisal University, Al-Ahsa, KSA.
- 11th International Symposium on Natural Products Chemistry, 29th October -1st November 2008, Karachi University, Pakistan.
 - The First Symposium on Genetic Engineering Khartoum, Sudan, 14th July, 1999, Organized by Sudan Institute for Natural Sciences.
 - Conference on Medicinal Plants and Herbs in the Arab Region, Khartoum, Sudan, 25th – 27th November, 1997, Organized by Arab Union of Councils of Scientific Research & National Centre for Research.
 - The Second Scientific Conference, Khartoum, Sudan, 21st – 24th January, 1995.
 - The First Scientific Conference, Khartoum, Sudan, 25th – 28th January, 1993, Organized by National Centre for Research.

Training programs

- Training on Principles of Photoshop 2014 -11-12/10/2015, Deanship of Academic Development- King Faisal University, Al-Ahsa, KSA.
- Training on Designing Electronic Exams by Using Wondershare QuizCreator Software, 10-11/02/2015, Deanship of Academic Development, King Faisal University, Al-Ahsa, KSA.
- Training on Principles of Photoshop 2014, 07-08/12/2014, Deanship of Academic Development, King Faisal University, Al-Ahsa, KSA.
- Training on Word 2013, advanced, 01-02/04/2014, Deanship of Academic Development, King Faisal University, Al-Ahsa, KSA.
- Training on Reviewing the Scientific Articles Presented for Publication, 30-31/12/2013, Deanship of Academic Development, King Faisal University, Al-Ahsa, KSA.
- Training on MS-Excel 2010, 28-29/10/2013, Deanship of Academic Development, King Faisal University, Al-Ahsa, KSA.
- Training on Strategic Planning Applications in Higher Education, 13-14/5/2013, Deanship of Academic Development, King Faisal University, Al-Ahsa, KSA.
- Training on IEEE, EBSCO, ASKZAD, 3/3/2013, Naseej Arabia Advanced Systems, King Faisal University, Al-Ahsa, KSA.
- Training on Developing Research Abilities: Idea Formulation and Research Management, 05/12/2012, General Directorate of Research Grants. King Abdulaziz City For Science and Technology.
- Training on EduSearch Ecolink IslamicInform AraBase, 3/3/2013, DAR ALMANDUMA Information Services, King Faisal University, Al-Ahsa, KSA.
- Training on Information Literacy, 26-27/11/2012, Deanship of Quality Assurance and Academic Accreditation, King Faisal University, Al-Ahsa, KSA.
- Training on Training on Training on Training on Training on Using MS-Publisher, 23-24/4/2012, Deanship of Academic Development, King Faisal University, Al-Ahsa, KSA.
- Training on MS-PowerPoint, 2-3/4/2011, Deanship of Academic Development, King Faisal University, Al-Ahsa, KSA.
- Training on Quantitative Research and SPSS Program, 13-14/5/2012, Deanship of Academic Development, King Faisal University, Al-Ahsa, KSA.
- Training on Design of Electronic Portfolios, 30/4-1/5/2011, Deanship of Academic Development, King Faisal University, Al-Ahsa, KSA.
- Training on Skills of scientific publishing, 13-14/12/2010, Deanship of Academic Development, King Faisal University, Al-Ahsa, KSA.
- Training on Windows, 06-08/3/2010, Deanship of Quality Assurance and Academic Accreditation, King Faisal University, Al-Ahsa, KSA. -
- Training on course and program specification, 01-02/12/2010, Deanship of Quality Assurance and Academic Accreditation, King Faisal University, Al-Ahsa, KSA.
- Training on Training Program for KFU new Staff, 15-17/10 **Workshops**
- Workshop on Biodiversity in the Sudan, Khartoum, Sudan, 29th August, 2002, Organized by Sudan Institute for Natural Sciences.
- Workshop on Medicinal and Aromatic Plants, Local Manufacturing and Production, Khartoum, Sudan, 7th – 8th January, 2002, Organized by Directorate of Medicinal Plants and Traditional Medicine, General Directorate of Pharmacy, Federal Ministry of Health.

Membership of Scientific Associations

- Member of Sudanese Natural Heritage Society.
- Member of Sudanese Environment Conservation
- Member of Sudanese Association for Scientific Equipments Users (SASEU)
- Member of Saudi Biological Society.

Current Research Interest

- Potential Use of Plant Extracts as Motivation Agents to Protect Crop Root Tips Against Cytotoxic/Genotoxic Effects of Insecticides and Wastewater.
- Induction of sterility in agricultural insects of Saudi Arabia.