

Curriculum vitae

Monerah Rashed O ALOthman.

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Education :

1. Ph.D in Microbiology (Chemotaxonomy of Some *Fusarium* species)
2. M.Sc in Microbiology (Medical bacteriology) .
3. B.Sc in Botany .

Work Experience :

1. Associate Professor / Department of Botany and Microbiology / Faculty of Science / University of King Saud.
2. Assistant Professor / Department of Botany and Microbiology / Faculty of Science / University of King Saud.
3. Deputy head of Botany and Microbiology Department / Faculty of Science / University of King Saud .
4. Assistant Deputy Dean of Student Affairs for Student Affairs scientific sections .
5. Deputy head of Botany and Microbiology Department / Faculty of Science / University of King Saud .
6. Lecturer, Department of Botany and Microbiology / Faculty of Sciences / University of King Saud University .
7. Teaching Assistant, Department of Botany and Microbiology / Faculty of Science / King Saud University .

Teaching and training skills :

1. General microbiology .
2. Bacteriology .
3. Medical Bacteriology.
4. Antibiotic.
5. Mycology .
6. General Botany .
7. Plant anatomy .
8. Physiology of bacteria. and
9. Physiology of algae.
10. Microbial Ecology.
11. Plant pathology .
12. Supervise Graduation Projects .
13. Supervision of graduate students.

List of publications

2017

- 1- M.A. Mahmoud, M.R. Al-Othman, A.R.M. Abd-El-Aziz. Species-specific PCR to detection of potentially toxigenic *Aspergillus* in wheat and wheat flour. Research Journal of Biotechnology, 12 (2), 84-90.
- 2- M.R. Al-Othman, A.R.M. Abd EL-Aziz, M.A. Mahmoud and Hatamleh A.A. Green biosynthesis of silver nanoparticles using *pomegranate peel* and inhibitory effects of the nanoparticles on aflatoxin production. Pakistan Journal Botany, 751-756.

2016

- 1- M.A. Mahmoud, M.R. Al-Othman, A.R.M. Abd-El-Aziz, H.A. Metwaly and H.A. Mohamed. Expression of genes encoding cellulolytic enzymes in some *Aspergillus* species. Genetics and Molecular Research, 13 (4): 9352-9370.
- 2- M. A. Mahmoud, A.R.M. Abd-El-Aziz and M.R. Al-Othman. Molecular and biochemical taxonomic tools for the identification and classification of plant pathogenic *Penicillium* species. Biotechnology & Biotechnological Equipment, <http://dx.doi.org/10.1080/13102818>.

2015

- 1- A.R.M. Abd El-Aziz, M.R. Al-Othman, M.A. Mahmoud and S.A. Moner. Molecular characterization of *Aspergillus parasiticus* and *A. terreus* producing and non producing silver nanoparticles using DNA markers. Digest Journal of Nanomaterials and Biostructures, 10: (1) 31 – 41.
- 2- Abd El-Aziz A.R.M., M. A. Mahmoud, Al-Othman M. R., and M.F. Al-Gahtani. Use of selected essential oils to control aflatoxin contaminated stored cashew and detection of aflatoxin biosynthesis gene. The Scientific World Journal, Article ID 958192, 13 pages, <http://dx.doi.org/10.1155/2015/958192>.
- 3- M.A. Mohamed, A.R.M Abd-El-Aziz. And M.R Al-Othman and I. A. Ibrahim. Molecular characterization of selected Egyptian wheat genotypes by RAPD and ISSR. Research Journal of Biotechnology, 10 (4), 84-90.

2014

- 1- M.R. Al-Othman, A.R.M. Abd El-Aziz, M.A. Mahmoud, S.A. Eifan, M.S. EL-Shikh and M. Majrashi. Application of silver nanoparticles as antifungal and antiaflatoxin B1 produced by *Aspergillus flavus*. Digest Journal of Nanomaterials and Biostructures, 9(1): 151 – 157.

- 2- M.A. Mahmoud, H.M. Ali, A.R.M. El-Aziz, M.R. Al-Othman and A.S. Al-Wadai. Molecular characterization of aflatoxigenic and non-aflatoxigenic *Aspergillus flavus* isolates collected from corn grains. Genetics and Molecular Research, 13 (4): 9352-9370. ISI
- 3- A.R.M. Abd El-Aziz, M.A. Mahmoud and M.R. Al-Othman. Survey of *Aspergillus flavus* in some nuts. Journal of Pure and Applied Microbiology, 8(1), 129-139.
- 5- M.A. Mahmoud, M.R. Al-Othman, A.R.M. Abd El-Aziz. Genetic Variability of aflatoxigenic and non-aflatoxigenic *A. flavus* isolates by using aflatoxin biosynthesis genes. Journal of Pure and Applied Microbiology, 8(1), 361-371.
- 4- M.R. Al-Othman, A.R.M. Abd El-Aziz, M. A. Mahmoud and M.F. Al-Gahtani. Effect of essential oils on growth and aflatoxin production by *Aspergillus parasiticus* isolated from walnuts. Journal of Pure and Applied Microbiology, 8(2), p. 1043-1049.
- 5- A.R.M. Abd El-Aziz, M.F. Al-Gahtani, M.A. Mahmoud and M.R. Al-Othman. Fungal flora associated with some nuts in three different regions in Saudi Arabia. Journal of Pure and Applied Microbiology, 8(4), 2887-2892.
- 6- M.A. Mahmoud, M. El-Zaidy, M.R. Al-Othman, A. R.M. Abd El-Aziz and A.S. Al-Wadai. Molecular characterization of *Aspergillus flavus* contamination of barley grains using RAPD and ISSR. Journal of Pure and Applied Microbiology, 8 (Spl. Edn. 2), 77-85. ISI Journal, Impact factor 0.074.
- 7- A.R.M. Abd El-Aziz, M.R. Al-Othman, M.A. Mahmoud and H.A. Mohamed. Xylanase production by *Aspergillus niger* KSU 23 using corn cobs. Journal of Pure and Applied Microbiology, 8 (Spl. Edn. 2), 161-166.
- 8- M.A. Mahmoud and A.R.M. Abd-El-Aziz. AFB1 occurrence and aflatoxin biosynthesis genes in wheat derivatives. Journal of Pure and Applied Microbiology, 8 (Spl. Edn. 2), 3641-3645.
- 9- M. A. Mahmoud, M.R. Al-Othman, A.R.M. Abd El-Aziz and A.S. Al-Wadai. Genetic characterization of *Aspergillus flavus* contamination of sorghum grains using DNA marker. Journal of Pure and Applied Microbiology, 8(5), 3879-3890.

2013

- 1- A.R.M. Abd El-Aziz, M.R. Al-Othman, S.A. Eifan, M.A. Mahmoud and M. Majrashi. Green synthesis of silver nanoparticles using *Aspergillus terreus* (kc462061). Digest Journal of Nanomaterials and Biostructures 8 (3)1215 – 1225.
- 2- A.R.M. Abd-El-Aziz, M.A. Mahmoud, M.R. Al-Othman and M.S. El-shikh (2013). Genetic variability of non-aflatoxigenic *Aspergillus flavus* isolates by using aflatoxin biosynthesis genes. 7 (Special Edition) 341-347.

- 3-** A.R.M. Abd El-Aziz, M.A. Mahmoud and M.R. Al-Othman. Genetic Diversity of *Aspergillus flavus* Contamination of Sorghum Grains. 7 (Special Edition) 369-378.
- 4-** M.R. Al-Othman, A.R.M. Abd El-Aziz and M.A. Mahmoud. Inhibitory effect of cinnamon oil on aflatoxin produced by *Aspergillus flavus* isolated from shelled hazelnuts. 7 (Special Edition) 395-400.
- 5-** M.A. Mahmoud, M.R. Al-Othman A.R.M. and Abd El-Aziz (2013). Mycotoxigenic fungi contaminating corn and sorghum grains in Saudi Arabia. Pakistan Journal Botany, 45(5): 1831-1839.
- 6-** M.R Al-Othman, M.A. Mahmoud, and A.R.M Abd El-Aziz. Effectiveness of nontoxigenic *Aspergillus flavus* and *Trichoderma harzianum* as biocontrol agents on aflatoxin B1 producing by *Aspergillus flavus* isolated from Cashew. Life Science Journal, 10(4): 1918-1922.
- 7-** M.R. Al-Othman, A.R. M. Abd El-Aziz, M.A. Mahmoud and M.S. El-Shikh. Inhibitory effect of cardamom essential oil on aflatoxin B1 production By *Aspergillus* spp. in arabic coffee. Journal of Pure and Applied Microbiology, 7(3): 943-950.
- 8-** M.A. Mahmoud, M.R. Al-Othman and A.R.M. Abd El-Aziz. Genetic diversity of aflatoxin producing *Aspergillus flavus* contamination of rice grains from Saudi Arabia. Journal of Pure and Applied Microbiology, 7(3), 1679-1692.
- 9-** M.R. Al-Othman, M.A. Mahmoud and A.R. M. Abd El-Aziz. Management of aflatoxin b1 production by *Aspergillus flavus* isolated from rice using methanolic extracts of *Olea europaea* L. Leaves. Journal of Pure and Applied Microbiology, 7(3), 1885-1893.
- 10-** M.A. Mahmoud, S.A. Al-Sohaibani, M.R. Al-Othman, A.R.M. Abd El-Aziz and S.A. Eifan. Synthesis of extracellular silver nanoparticles using *Fusarium semitectum* (KSU-4) isolated from Saudi Arabia. Digest Journal of Nanomaterials and Biostructures, 8(2): 589-596.
- 11-** A.S. Al-Wadai, M.R. Al-Othman, M.A. Mahmoud and A.R.M. Abd El-Aziz. Molecular characterization of *Aspergillus flavus* and aflatoxin contamination of wheat grains from Saudi Arabia. Genetics and Molecular Research, 11 (4): 3585-3600.
- 12-** M.F. Al-Gahtani, M.R. Al-Othman, M.A. Mahmoud and A.R.M. Abd-El-Aziz. Anti-aflatoxigenic effect of essential oils on *Aspergillus* Spp. isolated from pistachio in Saudi Arabia. African Journal of Microbiology Research, 6(41):6931-6935.
- 13-** A.R.M. Abd El-Aziz, M.A. Mahmoud M.R. Al-Othman, M.A. Abdel-Sattar, E.M. El-Sherif and H. El-Marzouky. Differential interaction between isolates of *Rhizoctonia solani* AG-3 and potato cultivars. African Journal of Microbiology Research, 6(41):6931-6935.
- 14-** M.R. Al-Othman, A.R.M. Abd El-Aziz, S.A. Al-Sohaibani and M.A. Mahmoud. Evaluation of various solvent extracts of eucalyptus globules leaves on aflatoxin production by *Aspergillus flavus* isolated from pasta. Journal of Pure and Applied Microbiology.

15- A.R.M. Abd El-Aziz, M.M.M. Ragab, S. El-Morsy, M.R. Al-Othman, M. A. Mahmoud and S.A. Al-Sohaibani. Evaluation of soil amendment with three plants on *fusarium* spp. isolated from carnation plant. Journal of Pure and Applied Microbiology.

16- A.R.M. Abd El-Aziz, M.A. Mahmoud, S.A. Al-Sohaibani and M.R. Al-Othman. Survey of postharvest fungi associated with wheat, rice and barley grains in Riyadh (Saudi Arabia). Journal of Pure and Applied Microbiology.

2012

1- A.R.M. Abd El-Aziz, M.R. Al-Othman, S.A. Al-Sohaibani and M.A. Mahmoud. Extracellular biosynthesis and characterization of silver nanoparticles using *Aspergillus niger* (Strain KSU-12). Digest Journal of Nanomaterials and Biostructures, 7(4): 1491-1499.

2- A.R. M. Abd El- Aziz, M.R. Al-Othman, S.A. Al-Sohaibani and M.A. Mahmoud. Prevention of aflatoxin contamination of maize by *Aspergillus flavus* through aqueous plant extracts in Saudi Arabia. African Journal of Microbiology Research, 6(41):6931-6935.

3- A.R.M. Abd El-Aziz, M.A. Mahmoud, M.R. Al-Othman, S.A. Al-Sohaibani. Biochemical markers and susceptibility of faba bean cultivars to *Botrytis fabae* causing chocolate spot disease. African Journal of Microbiology Research, 6(32):6122-6129.

4- A.R.M. Abd El-Aziz, M.R. Al-Othman, S.A. Al-Sohaibani, M.M.M. Ragab and M.A. Mahmoud. Overview of Efficiency Some Plant Extract on *Fusarium* spp. Isolated from Carnation Roots. Submission to African Journal of Microbiology Research, 6(29): 5828-5840.

5- M.A. Mahmoud, S.A. Al-Sohaibani, M.R. Al-Othman, A.R.M. Abd El- Aziz. Molecular characterization of *Rhizoctonia solani* isolated from cotton based on protein and PCR-RAPD Profiles. Genetics and Molecular Research, 11 (4): 3585-3600.

6- A.A. Alatar, M.A. Mahmoud, S.A. Al-Sohaibani and K.A. Abd-Elsalam (2012). Simple and rapid protocol for the isolation of PCR-amplifiable DNA from medicinal plants. Genetics and Molecular Research, 11 (1): 348-354.

2011

1- S.A. Al-Sohaibani, M.A. Mahmoud, M.R. Al-Othman, M.M.M. Ragab, M.M. Saber and Abeer R.M. Abd El- Aziz. Influence of Some Biotic and Abiotic Inducers on Root Rot Disease Incidence of Sweet Basil. African Journal of Microbiology Research, 5(22): 3628-3639.

Conference :

1. *1st Biotechnology World Congress (1st BWC) 2012*, February 14th - 15th, 2012, Dubai, UAE .
2. Attendance at the 50th Anniversary Meeting , PSNA 2011 that took place on December 10-15,2011 at the Fairmont Orchid ,Hawaii, USA.
3. Attended the 14th annual "New Horizons in Natural Product Chemistry conference " 2nd November 2011 ,UK.
4. 8th Annual International Conference Of The Metabolomics Society .June 2012 , USA .
5. 3rd International conference on “ Nanotek & Expo” held on December 02-04, 2013 in HamptonInn Tropicana, Las Vegas , NV,USA.
6. 3rd Annual international conference on BioTech 2013, Advances in Biotechnology ,18-19,March,2013.Singapore.

Workshops :

1. Nanotechnology research in universities the way towards achieving the vision of Custodian of the Two Holy Mosques.
2. Strategic planning and effective leadership.
3. Plan of Higher Education to combat drugs.
4. Advertising Photography.
5. How do you start your small business.
6. Academic performance.
7. Writing fast
8. Household toxins , risks how to deal with it .
9. The role of Vice Head of departments in the advancement of the educational process.

Seminars and events: -

1. Seminar ALhesbah and attention by the Kingdom of Saudi Arabia. (Attendance).
2. The first regional seminar in the field of drug control and exchange of information. (Attendance).
3. Scientific Symposium in waste recycling and its impact on health and the environment.
4. Drive awareness of global warming. (Attendance).
5. World Day for Water and GCC Water Week.

Training :

1. The Basics of the leadership skills .
2. Financial intelligence.
3. Self-confidence.
4. Thinking Skills .
5. Steps towards self-change.
6. The Arts and the secrets of dealing with others.
7. Management of meetings and committees effectively.
8. Skills of academic excellence.
9. Development of performance in the work environment.
10. Arts and skills of relaxation.
11. The art of etiquette and protocol.
12. Diploma of Hypnosis.
13. A system of smart cards for students electronic fingerprint.
14. Time management skills.
15. Skills for Effective Teaching.
16. Construction of achievement tests.
17. Preparation of trainers.
18. A course in Neuro Linguistic Programming (NLP).
19. Courses in running DOS.
20. Office programs .
21. English language courses.
22. Teaching with Active Learning .
23. Diploma Vision , Mission and Values 1 – 2 (15 Hour) .
24. Skills Development and to provide scientific posters at conferences.
25. Scientific References Writing (8 training hours).
26. Safe and Comfortable Learning Context (3 training hours).
27. Students Motivation and Engaging Strategies (6 training hours).
28. Teaching Excellence and Supporting Student Learning(6 training hours).
29. Excellence Keys in Teaching Graduate Student (5 training hours).
30. Effective Communication skill with Special Needs.(4 training hours).
31. Flipped Classrooms (4 training hours).
32. Effective Classroom Management & Dealing With Students (8 training hours).
33. Talking and Rhetoric Skills (6 training hours).
34. How To Deliver an academic Talk (2 training hours) .

Scientific activities and experiences :

1. Working in the Academic Guidance Committee .
2. Assistant Researcher in the Group Strategic Plan for the development of higher education (Afaqu).
3. Management and organization of workshops for the strategic plan of King Saud University.
4. Participation in workshops, brainstorming for the Strategic Plan of the University of King Saud.
5. Member of a working group within the academic and institutional accreditation, King Saud University (criterion 11).
6. Participating in the organization and management of examinations of the National Center for measurement and evaluation (quas).
7. Participate in many extra-curricular activities at the Center for Science and Medical Studies / University of King Saud.
8. Participation in the Program of Visits of Foreign Affairs (Oman) of the Deanship of Students Affairs, King Saud University.
9. Supervising of Nebrasna Club / Dean of Student Affairs / University of King Saud.

A booklet :

Golden Rules For Excellence In High School And Undergraduate Levels.

Research interests :

- Medical Bacteriology .
- Fungal taxonomy .
- Chemotaxonomic of fungi .
- Isolation of Bacteriophage .
- Nanoparticles Filed.