



Dr. Omar Haji Mohamed Shair

CURRICULUM VITAE

Omar Haji Mohamed Shair Ph.D.

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Birth Date: 10th Oct 1959

Place of Birth: Mogadishu, Somalia

Nationality: Somali

Personal profile

Marital Status: Single, with 6 Children the elders 25 and the youngest 18. none of my children are working they are studying at King Saud University.

Languages Known: Somali, English, Chinese, Arabic and Italian.

Prevalent Experience and Skills

Studied and implemented novel strategies and methodologies for teaching. Several Years of experiences in lecture based, Student centered and core based methodology in training both Molecular Biology, Gene Cloning students; Utilized Systems based Molecular Biology teaching techniques. Supervised student projects, both library and laboratory based

Research Techniques

Fingerprinted date palm and red weevil by Using RAPD technique Cloning and genotyping of exotic *Streptococcus pneumonia* by using conventional PCR and cloning technique. Detected the presence of inserted genes in food by using real time PCR Technique.

I initiated and Established Biotechnology Laboratory in King Abdulaziz City for Science and Technology (KACST), Riyadh, Saudi Arabia.

Detection of red weevil infestation in date palm, by using molecular marker Preparation of competent cells and gene transfer

Other Research Skills

Constantly maintain a strict adherence to research protocols and preservation of standard condition. I have an excellent ability with regard to design, and revision of experimental protocols and excellent observation skills.

Skilled in statistical analysis and critical evaluation and graphical

representation of data

Highly skilled in pattern analysis ensuring the proposal of robust hypotheses from data obtained. Experienced in management of a small team, supervised and instructed students in procedure and analysis regarding animal, plant and bacterial molecular studies.

Other Technical Skills

Proficiency in Microsoft Word, Microsoft Power point, Microsoft Excel and Gel documentation System (GDS), Programming and operating PCR machine (RAPD, RFLP,SSR, ALFP).GDS Machine, Gel electrophoresis and

PFGE machine and DNA Sequencer Machine Real Time PCR, Light cycle (Real-time PCR).

Summary of Accomplishment

I was elected as co- coordinator of the faculty of veterinary medicine, Mogadishu, Somalia

Employment Profile.

Assistant Professor

At present I am acting as assistant professor at King Saud University, Riyadh Saudi Arabia.

lecturing Advanced Molecular Biology, Medical Microbiology and practical research to students in the Department of Botany and Microbiology and participate the educational activities within the Department of Botany and Microbiology.

Scientific Specialist, 1998-2007

I was working with King Abdul-Aziz City for Science and Technology (KACST), Biotechnology Program Saudi Arabia, Riyadh. I gave training to junior worker in the field of Molecular Biology, gene cloning and basic molecular Biology microbiology.

Techniques

Having Employed Novel Training Methodologies; firstly Embarking on an active learning Program (with limited success) Recently have developed and Implemented a core-based training Approach and have applied this Methodology to new researchers and Technicians at KACST with great Success

Assistant Professor at Beijing University, 1996- 1998

Acted as a course coordinator in Gene cloning and related technique of Molecular Biology and conducted an extensive lecturing of the above mentioned subjects

Part time job VISA officer 1996-1997

Royal Embassy of Saudi Arabia in Beijing

Worked as collector of Chinese Passport seeking VISA to Saudi

Arabia, Acted as translator, Tour guiding and shopping Beijing area for the Embassy guest and guest Receptionist for Saudi Embassy in Beijing.

Assistant Project Manager 1989-1990

UN Food Agricultural Organization (FAO), Mogadishu Assisted the FAO Project Manager in the development and implementation of highly successful *training* courses in primary animal health care.

Taught various sessions of the courses, Involved in the development of the course curriculum, solely held responsibilities for the arrangements of all visits to slaughter house for training sessions.

Literacy and Adult Education 1988-1989

Devoted voluntary service to literacy and adult education classes And had been offered Honorary Diploma with good wishes for every Progress and happiness

Lecturer of Intermediate Education, 1987- 1988

College of Education, Pease crops Organization (USA).

Acted as lecturer in child growth and development sessions for teachers and conducted extensive lectures in teaching Methodologies for intermediate teachers and conducted practical teaching classes.

Observed nature and mode of teaching session planning

Holding attention of the class, content of the plan and finally commenting each teacher's way of teaching and lesson plan.

Future Research Interests

Isolation, Purification and Identification of Fungal and bacterial

Enzyme Molecular Characterization of Microorganisms producing

Enzymes and detection and identification of toxin

Educational Background

**Ph.D. Molecular Biology, 1996 Department of Molecular Biology,
Beijing University, China**

Thesis title; “Cloning the Promoter of β -casein gene of goat”

**Research utilized fresh goat mammary gland, Olygonucleotide primers,
PCR, Phage vector and sequencer.**

**M.Sc. Microbiology, 1993 Department of Microbiology, Guanxi
University, China**

**Thesis title: “Identification of *Brucella abortus* by tube agglutination
test ELISA and Dot ELISA.” This course encompassed a range of
subjects with the field of molecular biology techniques and biochemical
laboratory techniques.**

**Assessment included; examinations of infected animals and non-infected
once in the field, blood collection and conducting the identification of**

the presence of *Brucella* in the blood by the Techniques of Tube agglutination Test, ELISA and dot ELISA.

B.Sc. Veterinary of Science, 1982

Department of Veterinary Science, Joint University of Somalia and Italy

Year one and two courses modules: General: Year three and four course modules: Biochemistry with intensive laboratory technique, Physiology and Pathology with intensive microbiological laboratory techniques. Year five course modules: Reproduction, Medicine and Clinical practice.

Current Research Interests

Stem Cells, goat embryo and enzyme production

Training and Workshop

- 1. Good Laboratory practice: July 2006, Riyadh Saudi Arabia.**
- 2. International Conference on Avian Influenza: November 2005,
King Abdulaziz Medical City Riyadh, Saudi Arabia.**
- 3. Microarray, Bioinformatics and Bioethics: January 2003, Riyadh,
Saudi Arabia**
- 4. Red weevil, New Techniques and future applications: April 2007,
Riyadh Saudi Arabia**
- 5. The third conference of Scientific Research and Technology
Development for Arab world: April 2004, King Fahad Cultural
Center, Riyadh Saudi Arabia**
- 6. Discussion loop of Bio-Banking Ethics: Feb 2008-02-20, King
Abdulaziz City for Science and Technology, Riyadh, Saudi Arabia**

**7. Economic Feasibility Study: Principles of Economic Feasibility,
and Marketing Art, Basic economic Feasibility Study for
Projects, Project choosing Norms, Planning and Administrating
of Economic Feasibility study. Feb 2008, 02-15, King
Abdulaziz City for Science and Technology, Riyadh, Saudi Arabia**

Presentations

- 1. Omar Shair (1999). The cloning and sequencing of the regulatory element of goat Beta-casein gene. Pakistan Journal of Biological Sciences 2 (4): 1236-1239. (Paper presented at King Abdulaziz City for Science and Technology(KACST), October 20002, Saudi Arabia).**
- 2. Al-Swailem A. M., Shibl, A. M., Shair O. H., and Kadry A. A. (2004) Genetic Relatedness of Ampicilline Resistant *Streptococcus pneumoniae* Clones from Saudi Arabia to Wild Strains. Pakistan J. Biol. Sci. 7 (8): 1346-1349. (Paper presented at the Biotechnology lab, to young researcher (KACST), May 2004, Saudi Arabia).**

3. Al-Ayied H., Al-Swailem A., Shair O., Al-Jabr A. (2006).

Evaluation of phylogenetic relationship between three phenotypically different forms of red date palm weevil (*Rhyncophorus ferugineus* (Oliv.).

Archives of Phytopathology and Plant Protection, 39 (4): 303- 309

Paper presented at the Biotechnology lab to young researcher (KACST), November 2005, Saudi Arabia)

Scholarship and Awards

Research Scholarship Award

1993-1996. Beijing University, China

Honorary Diploma Awarded

1991. Devotedness to study and enthusiastic researcher, Guanxi University, China

Research Scholarship Award

1990-1993 Guanxi University, China

Honorary Diploma Awarded

1988. Ministry of Education of Somalia.

Honorary Diploma Awarded

1987. College of Education of Pease corp's organization, USA.

Publications

1. Omar H.M. Shair (2014).Heat Resisting Bacteria from Soil: A Simple Method for Isolation and Extraction of DNA. Journal of Pure and Applied Microbiology, Volume 8 No. 2 No. 1003-1007
2. Omar H.M. Shair*, Rasheed M. Al-Ssum and Ashraf A. Hatamleh(2014). Bacterial Contamination in Cucumber (Cucumis sativus): Evidence from Saudi Arabia Journal of Pure and Applied Microbiology, Volume 8 No. Special Edition Nov. 2014 No. 743-747
3. Omar M.H. Shair(2013). Herbal Medication for Future Industrial Poultry Study on chickens from Riyadh Market Saudi Arabia. BIOSCIENCES BIOTECHNOLOGY RESEARCH ASIA, Vol. 10(1), 229-233
4. Najla Qalit Ammash Alfaqeer, Omar H. M. Shair*, Rashead M. Al-ssum and Rana Alturki(2013). Predominant Lactobacillus species Identification from Healthy and Unhealthy Saudi Women by Molecular Techniques.Journal of Pure and Applied Microbiology, Vol. 7 No. 3 No. 1909-1915.

5. N.M. Deraz^{1*} and Omar H. Abd-Elkader^{2,3} (2013). Preparation and Characterization of Nano-magnetic $\text{Ni}_{0.5}\text{Mg}_{0.5}\text{Fe}_2\text{O}_4$ System for Biological Applications. Journal of Pure and Applied Microbiology. Vol. 7 No. Special Edition No. 333-339

6. Omar H.M. Shair(2013). Sequence of Lactobacillus inners PCR Product: Dominant Species in Healthy and Unhealthy Saudi Women. Journal of Pure and Applied Microbiology, Volume 8 No. 1 No. 615-622

7. **Omar H.M. Shair.(2013) Bacillus Contaminated Air- conditions (A/Cs) i Homes at areas of Umul- Hamam, Saudi Arabia. BIOSCIENCES BIOTECHNOLOGY RESEAR CH ASIA, Vol. 10(1), 09-14**

8. Mohammed S. Al-Saggaf¹, Omar H.M. Shair², Rashead M. Al-ssum² and William Macasero¹ (2012). Respiratory Viruses in Gazelles at King Khalid Wildlife Research Centre: Serological Investigation and Surveillance. J. of pure & Applied Microbiology, Vol. 6(1), p. 53-58.

9. Arishy M., Omar H.M. Shair, Rashead M. Al-ssum and Bashir A. Al-ssum (2012). An Assessment of Candidal Vulvovaginitis in Cohort of Saudi Healthy Women. J. of Pure & Applied Microbiology, Vol. 6(1), 91-95.

10. Mohammed S. Al-Saggaf¹, Omar H.M. Shair², Rashead M. Al-ssum² and William Macasero (2012). Respiratory Viruses in Gazelles at King Khalid

Wildlife Research Centre: Serological Investigation and Surveillance. J. of pure & Applied Microbiology, Vol. 6(1), 53-58.

11. Hathiya Mohammed Abu-Thiyab, Omar H.M. Shair*, Rashead M. Al-ssum, Najwa M. Aref and Bashir A. Al-ssum (2012). Functional Redundancy Diversity of Gram Positive Bacteria as Response to Pesticide (Malathion) Exposure in Soil. J. of pure & Applied Microbiology, Vol, 6(1). 201-207.
12. Omar M. H. Shair (2012). Actinomyces pyogenes isolates from Sheep Biochemical identification and confirmation by molecular method. African Journal of Microbiology Research Vol. 6(6), pp. 1118-1124, 16
13. Rabab Lutfi Ashoor Al-Khateeb, Omar H.M. Shair, Rashead M. Al-ssum, Ashraf Atef Hatamleh and Mohammed Soliman EL-Shikh (2012) Multiplex and Real Time PCR for Serotyping of Important Epidemiologic Pneumococcus. Journal of Pure and Applied Microbiology, Vol. 7No.1 125-134.

14. Omar H.M. Shair (2012). Study of Susceptibilities of Saudi Isolated *Erwinia* and Standard *Erwinia* to some Antimicrobials Supplemented with Garlic Powder. Journal of Pure and Applied Microbiology Vol. Vol. No. 1 79-84
15. Abdullah A. Al-Arfaj, Basheer A. Al-Sum* and Omar H.M. Shair(2012). Characterization of Bacteriophages as Indicators of Bacterial Contamination in Marketed Leafy Vegetables from Riyadh, Saudi Arabia. Journal of Pure and Applied Microbiology, Volume 6 No. 4 Page No. 1753-1757
16. Basheer A. Al-sum, Naif A. Al-Harbi, Omar H. M. Shair, Ashraf Atef Hatamleh and Mohammed Soliman EL-Shikh(2012) Detection of microbial contamination in drinking water from Dammam City, Jazan, Saudi Arabia. Journal of Pure and Applied Microbiology, Volume 6 No. 3 No. 1171-1175
17. Mohammed S. Al-Saggaf*, Rashead M. Al-ssum and Omar M. H. Shair (2011). Isolation and identification of *Archanobacterium pyogenes* (*Actinomyces pyogenes*) from Arabian gazelles. African Journal of Biotechnology Vol. 10(80), 18614-18631.

18. Omar H. Mohamed Shair(2011).Genetic variation investigation of Tilapi Grown under Saudi Arabian Controlled Environment. American journal of Biochemistry and Molecular Biology,1(1): 89-94.
19. Rashead Musa Al-ssum, Wahid Abdulbari Moqbel and Omar H.M. Shair (2011) Leprosy Survey in the Republic of Yemen: A Field Study. J. of Pure & applied Microbiology Vol.(5) 517-522.
20. Mohammed S. Al-Saggaf¹, Omar H.M. Shair², Rashead M. Al-ssum² and William Macasero¹ (2011). Respiratory Viruses in Gazelles at King Khalid Wildlife Research Centre: Serological Investigation and Surveillance. Journal of Pure and Applied Microbiology, Vol. 6 No. 1 No. 53-58

21. Mohssen A. Al-Masrhi and Omar H.M. Shair*(2010). Capability of Erwinia Isolates in Saudi Arabia in Inducing Soft Rot. Journal of Pure and Applied Microbiology, Vol. 4 No. 2 No. 463-467

22.Omar M.H. (2010). Bacterial contamination in lettuce: Comparison of sewage water-irrigated plants to commercial products from Riyadh market, Saudi Arabia. Journal of food. Agriculture and environment,8 (4&3): 470-472.

23. Omar H.M. Shair*(2010). Capability of Erwinia Isolates in Saudi Arabia in Inducing Soft Rot. J. of Applied and pure Microbiology,4(2): 463-467.

24.Abdulaziz M. al-Swailem, Maher M. Shehta, Omar H. Shair, Turki A. Al-shammari, Ibrahim O. Al-Anazi, and Saeedf A. Sabaan (2007). A proposed method for sampling, detection and quantification of maize kernels using traditional and real-time PCR. Journal of Food & Environment, 5 (1): 89-96.

25.Al-Ayied H., Al-Swailem A., Shair O., Al-Jabr A. (2006). Evaluation of

phylogenetic relationship between three phenotypically different forms of red date palm weevil (*Rhyncophorus ferugineus* Oliv.). Archives of Phytopathology and Plant Protection, 39 (4): 303-309.

26. Abdulaziz M. Al-Swailem, Maher M. Shehata, Omar Shair, Saeed A. Sabaan, Ibrahim O. Al-Anazi and Turki A. Al-Shammari. (2005) An efficient method for identification and quantification of genetic modification of local, imported and food products of maize in Saudi Arabia using PCR-based markers and real-time PCR. Journal of Food & Agric. & Environment. 3 (2): 18-23.
27. Al-Swailem A. M., Shibl, A. M., Shair O. H., and Kadry A. A. (2004) Genetic Relatedness of Ampicilline Resistant *Streptococcus pneumoniae* Clones from Saudi Arabia to Wild Strains. Pakistan J. Biol. Sci. 7 (8): 1346-1349.
28. Abdulaziz M. Al-Swailem, Ashraf A. Kadry, Soliman I. Fouda, Atef M. Shibl and Omar H. Shair. (2004) Phenotypic and Genotypic Characterization of Invasive *Streptococcus pneumoniae* Clinical Isolates. Current Therapeutic Research. 65 (5): 423-432.

29. Omar Shair (1999). The cloning and sequencing of the regulatory element of goat Beta-casein gene. Pakistan Journal of Biological Sciences 2 (4): 1236-1239.