Dr. Humaira Rizwana

Ph.D - Botany (Specialization -Medical Mycology);
M.Sc (Mycology and Plant Pathology)

Present Position: Working as an Assistant Professor in the Department of Botany and Microbiology, King Saud University, Riyadh, Kingdom of Saudi Arabia.

Research Project: CO-PI in a Research group project funded by Deanship of Scientific Research, King Saud University, Riyadh, KSA

- ***Professional Experience***: Over **24** years including **22** years in full time teaching and research.

Profile*:*

My professional career spans 24 years out of which 22 years have been in education; teaching **Microbiology, Biotechnology, and Botany** to undergraduate and graduate students in India; A levels (British Curriculum) and SAT (American Curriculum) to students in Saudi Arabia. Since 2009, as Asst. Professor, I am engaged in teaching Graduate, Post Graduate and Ph.D students and involved with research activities at King Saud University, Riyadh, Saudi Arabia.

I possess strong communication and inter personal skills enabling me to impart quality lectures to the students,

My administrative skills and handling co-workers effectively & efficiently has been admired and appreciated by the management of organizations/institutions I have worked with.

Collaborating with my colleagues in research projects has given me experience of working with individuals and groups.

Academically, I have excelled throughout; from school to university level, passing out with distinction.

Working with students and colleagues of varied nationalities has given me invaluable experience and adaptability.

- ***October 2009 till date***

Position: Assistant Professor (Dept. of Botany and Microbiology)
Institution: King Saud University, Riyadh, Kingdom of Saudi Arabia
Job Profile: Engaged in teaching Botany and Microbiology to Graduate, Post Graduate and Ph.D students and undertaking research activities.
Training: Attended a 3 days workshop conducted by James Madison University, USA during September 2010 organized by King Saud University on "Motivating students to become better learners".

- ***September 2002 – September 2009***

Position: Vice principal/ Coordinator-Senior Section and Teacher
Institution: Manarat Al Riyadh School (English Section-Girls), Riyadh, Kingdom of Saudi Arabia.
Job Profile: As Vice principal/Coordinator-Senior Section, wherein my major job responsibilities include:

- Evaluation & Supervision of all teaching and administrative staff members.
- Recruitment
- School discipline.
- Arranging workshops
- Liaising with parents and hosting visitors.
- Time table & curriculum scheduling.

I was also engaged in teaching Biology to *A level* (**British Curriculum**) and *class 12 students* (**SAT-American Curriculum**)

Based on my academic qualification and work experience, I was elevated as the Head of Department-Department of Science in 2003, a position held till December 2005.

In January 2006, I was promoted as Vice principal/Coordinator-Senior Section

Awarded certificate of appreciation for 2005/6

❖ ***June 1993 – April 2002.***

Position: Engaged in teaching Botany, Biotechnology and Plant Pathology to undergraduate students.
Institute: Shadaan Degree College for Women, Hyderabad, India.
Position: Head, Department of Botany.
Job Profile: Engaged in teaching Botany to undergraduate students.

❖ ***June 1992 – April 1993.***

Position: Part Time Lecturer on Honorary basis
Institute: University College for Women, Osmania University, Hyderabad, India.
Job Profile: Engaged in teaching Botany to undergraduate students.

❖ ***June 1990 – November 1994.***

Position: Microbiologist (Honorary and Constituent basis)
Institute: Mesco Diagnostic cum Training Center, Hyderabad, India.
Job Profile: Engaged in diagnostic activities

❖ **Conferences and workshops**

- 2014: Biodegradation of feathers by keratinolytic fungal isolates from Poultry farm soils in Riyadh ,Saudi Arabia. A two day seminar organized by Research centre, Deanship of Scientific Research, King Saud University, Riyadh, Saudi Arabia, December 16-17, 2014.

- 2013: Prevelance of dermatophytes and other keratinolytic fungi from soils of public parks and playground of Riyadh,Saudi Arabia. A two day seminar organized by Research centre, Deanship of Scientific Research, King Saud University, Riyadh, Saudi Arabia, April,28-29, 2014.

- 2011: Attended the workshop of Pharmacogenetics of Asprin resistance in stroke held by Research center ,King Saud University

- 2003: *Participated* in a workshop on Biomarkers for risk assessment of environmental protection that included hands on training on latest

techniques in Genetics organized by Environment Protection Training & Research Institute, Hyderabad, India.

- 2000: *Participated* and *presented* a paper *at International Conference on Women, Biotechnology, Environment and Non Conventional Energy*, jointly organized by Indian Institute of Chemical Technology and TWOS at Hyderabad, India.

- 1998: *Presented* a paper at *85th session of Indian Science Congress* at Osmania University, Hyderabad, India.

- 1997: *Presented* a paper at the *National Symposium* of Fungi in diversified habitats at Osmania University, Hyderabad, India.

- 1993: *Presented* a paper entitled *"Occurrence of Dermatophytes (keratiniophyllic fungi) in Hyderabad soil and their role in Onychomycosis"* at International Symposium held at Hyderabad, India.

- 1991: *Presented* a paper entitled *"Study of keratinophyllic fungi from Hyderabad soil*: at National Symposium held at Bombay University, Bombay, India.

- 1981: *Passed* 24th *United Nations Information Test* conducted for UN Information.

❖ **Research pursuit:**

Conducting research in the field of medical mycology and plant pathology.

JOURNAL PAPERS

1. I. Ara*, **Humaira Rizwana,** Muneera R Al-Othman, M A Bakir .Antagonism of actinomycetes against *Pestalotiopsis mangiferae*, causal agent of mango brown rot in post harvest storage (**2012)** African Journal of Microbiology-*11-1254*-Vol 6(8) pp.1782-1789.

2. N. Maraki, I.Siddiqui*, **H. Rizwana** and A. Javaid First report of *Alternaria alternata* leaf spots on Spinach in Saudi Arabia"(2012).Journal of Animal and Plant Sciences. 22(1): 247-248.

3. I Ara*, **Humaira Rizwana**, Muneera R Al-Othman, M A Bakir.Studies of actinomycetes for biological control of *Colletotrichum musae* pathogen during post harvest anthracnose of banana (2012). African journal of Microbiology Research .6(17) 3879-3886

4. **H.Rizwana** , Al-Hazzani,A Afaf I.Shehata,Nadine Safouh. Antibacterial Potential of *Withania somniferae* L. against some human pathogenic bacteria.(2012).African journal of Microbiology Research.Vol. 6(22), pp. 4810-4815.

5. **H.Rizwana,**I .Siddiqui ,N.Bokhari*.* A post harvest disease of *Mangifera indica* fruit caused by *Pestalotiopsis mangiferae*, in Saudi Arabia.(2012). African Journal of Microbiology Research,Vol. 6(27), pp. 5723-5724.

6. **Humaira Rizwana,** Amal Abdulaziz Al Hazzani, I Siiddiqui. Prevelance of dermatophyte and other Keratinophillic fungi from public parks and playgrounds of Riyadh, Saudi Arabia.(2012).The Journal of Animal and Plant Sciences. 22 (4) : pp :948-953.

7. N. A. Bokhari, I. Siddiqui, K. Parveen. I. Siddique, **H. Rizwana**, and D. A. W. Soliman. (2013). Management of Anthracnose of Banana by UV Irradiation .The Journal of Animal & Plant Sciences**,** 23(4): pp: 1211-1214.

8. Kahkashan Perveen, **Humaira Rizwana** and Shaista Arzoo.A Study on the Mycoflora of Fried, Roasted and Raw Peanuts available in Local Markets of Riyadh (Saudi Arabia), June 2013. Journal of pure and applied microbiology , vol. 7(2), p. 1417-1425.

9.Amal A Al Hazzani1, Afaf I Shehata1, Nadine MS Moubayed1, Abdulaziz Al-Jafari2, Farid ,Ataya2, Mohamed Daoud2, Hadeel Jawad Al Houri, **Humaira Rizwana** and Gehan Elgaaly. Pomegranate (Punica granatum) from ancient roots to modern life known with a potent antibacterial activity,2013.Annals of Biological Research, 2013, 4 (5):75-87.

10. Amal A. Al Hazzani, Afaf I. Shehata , **Humaira Rizwana**, Nadine M. S. Moubayed, Ali A. Alshatwi, Anjana Munshi and Gehan Elgaaly.2014. Postharvest fruit spoilage Bacteria and Fungi Associated with date palm (*Phoenix dactylifera L*) from Saudi Arabia.African Journal of Microbiology Research **.** Vol. 8(11), pp. 1228-1236.

11. Afaf I Shehata , Zohra H Messaitfa, Fahad El Quraini, **Humaira Rizwana**,Amal A Al Hazzani and Mona S El wahabi.2014. Genotypic of salt stressed sunflower *(Helianthus annuus*). *Int. J. Pure App. Biosci.* 2 (1): 40-61.

12. Zohra H Messaitfa, Afaf I Shehata, Fahad El Quraini , Amal A Al Hazzani,**Humaira Rizwana** and Mona S El wahabi.2014. Proteomics analysis of salt stressed Sunflower *(Helianthus annuus*) *Int. J. Pure App. Biosci.* 2 (1): 6-17 (2014).

13.**Humaira Rizwana** and Amal A. Al Hazzani. Occurrence of Keratinophillic Fungi and Other Dermatophytes from Soils of Various Habitats of Hyderabad, A.P (India). 2014. Journal of Pure and Applied Microbiology, April,Vol. 8(2), p. 1707-1713.

14. Humaira Rizwana .Biodegradation of Feathers by Keratinolytic Fungal Isolates from Poultry Farm Soil in Riyadh, Saudi Arabia.2014.Journal of pure and Applied Microbiology. Vol. **8**(4), p. 2961-2967.

15.**Humaira Rizwana.2015** Exploiting antifungal potential of ginger for the management of Alternaria alternata, the cause of leaf spot disease of spinach *Mycopath.*,13(2):97-104.

16. **Humaira Rizwana**, Mona S. Alwhibi and Dina A. Soliman.2016. Antimicrobial Activity and Chemical Composition of Flowers of *Matricaria aurea* a Native Herb of Saudi Arabia. Int .J.pharmacol.,12:576-586.

Accepted

17. H. Rizwana, Mona. S. Alwhibi, F. Khan and D. A. Soliman 2016. Chemical composition and antimicrobial activity of *Eruca sativa* SEEDS AGAINST pathogenic bacteria and fungi.26(6)

***Educational Qualification*:**

Doctoral Programme*:* **Ph.D** in **Botany** .(**Medical Mycology**)
from Osmania University, Hyderabad, India (1994).

The study deals with the prevalence of nail and feet infections i.e., *Onychomycosis* and *Tinea pedis* among people working in diverse environmental conditions such as moisture, warmth and constant contact with soil, which predisposes them to such infections. Individuals falling in the occupational group of washer men, hospital workers, hotel workers, labourers, farmers and gardeners were screened in the present study. A variety of organisms were isolated, which belonged to *dermatophytes*, *non-dermatopytes*, species of *Candida* and various other *pathogenic keratinophyllic fungi*. Simultaneously, a study was conducted to screen the soil of different habitats for the occurrences of *keratinophyllic fungi* and a correlation was made to suggest the probability of these organisms being transmitted to individual's working in these habitats. Aqueous extracts of leaves of five different plants were screened for their anti fungal property on five test organisms isolated during the study.

Pre-PhD: (1992).

Passed with Distinction from Osmania University, Hyderabad, India.

The topics studied were Mycology, Plant Pathology, Tissue culture, Biological indicators and indices of environmental pollution, source and study of air pollution.

Master's Degree in Science: (1990).

Passed with Distinction from University College for Women, Osmania University, and Hyderabad, India.

Specialized in Mycology and Plant Pathology.

Bachelor's Degree in Science: (1988).

Passed with Distinction from Nizam College, Osmania University, Hyderabad, India.

Subjects studied; Microbiology, Botany and Chemistry.

- **Reviewer for Journals**

  - **African Journal of Microbiology**
  - **Mycopath**

- **Saudi Journal of Biological Sciences**

Personal Profile:

Marital Status	Married with 2 children
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