

**DR. JOHRA KHAN**

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**RESEARCH AND EDUCATION****(BIOTECHNOLOGY/BIOCHEMISTRY/MOLECULAR BIOLOGY/MICROBIOLOGY)**

*Offering 8+ years of combined experience in scientific research and high education.*

*Dynamic dedicated professor driven to inspire students to pursue academic and scientific research excellence. Adept at establishing positive learning environments and responding effectively to the needs of faculty members and students.*

*Strong problem solving, project management and organizational skills coupled with excellent communication and interpersonal abilities. Exceptional track record of research success with multiple published articles.*

**KEY EXPERTISE AREAS**

\*Published International Author with expertise in developing, writing and presenting scientific publications in worldwide forums. \*Member of editorial board of *International Journal of Cell Toxicology and Cell Biology*. \*Volunteer Reviewer for *Journal of Applied Pharmaceutical Science*, \*Certified Basic Life Support Trainer of Saudi Heart Association. \*Guiding students in using technology to support research. \*Sound knowledge of web-based instructional technologies \*Familiarity with student assessment techniques \*Ability to develop new courses \*possess strong interpersonal skill and organizational skill: experience working with and supervising multi discipline research/scientific teams and academic professionals. \*Expertise in dealing with people from diverse backgrounds and cultures with a proven ability to build trust and develop effective relationship.

**TECHNICAL SKILLS AND EXPERIENCE**

\*Actively participated in all experiments, such as samples collection, measurements, and data analysis. \*Knowledgeable of PCR, ELISA, Calorimetry. \*Experimental design \*Light microscopy \*Biochemical characterization of cells \*DNA extraction \*Differential staining \*Enzymatic assays \*Spectrophotometry \*Bacterial culture \*Bacterial species isolation from complex cultures \*Titration \*Preparation of solutions (molarity calculation and pH measurements) \*Proficient with Microsoft Word, Excel, PowerPoint. \*Isolating and purifying DNA, RNA, and protein Conducting PCR \*Gel electrophoresis.

**TEACHING EXPERIENCE****AL MAJMAAH UNIVERSITY, KSA, Sep'14 - Present****Assistant Professor (Applied Medical Science Collage)**

Assistant Professor of Molecular Biology. Department of Applied Medical Science, Majmaah University, KSA.

Responsibilities include \*Academic advising of students, \*Prepare and deliver lectures to undergraduate and graduate students on topic such as Molecular Biology, Biotechnology and Biochemistry. \*Involved students in scientific research activities. \*Develop innovative technology and trains staff for its implementation. \*Develop and revise course curriculum. \*Reviews project activities, prepares and reviews research, testing, and operational reports. \*Supervises undergraduate and graduate teaching, internship, and training innovation projects. \*Monitored student progress and provided positive feedback. \*Conducted and graded student examinations. \*Participated in campus meetings and educational committees. \*Attended professional developmental workshops and seminars. \*Adhered to class schedules including in the evenings and weekends

**HIMT, GREATER NOIDA, INDIA, Apr'09 – Aug'14****Assistant Professor (Applied Science Collage)**

Assistant Professor of Molecular Biology. Department of Applied Science, HIMT, India.

Responsibilities include \*Academic advising of students, \*Prepare and deliver lectures to undergraduate and graduate students \*Conducted the subject lectures regularly, keeping an eye on the understanding of the students. \*Carried out practical sessions with explanation about the purpose of the experiment and the procedures that follow to seek results. \*Supervises undergraduate and graduate teaching, internship, and training innovation projects. \*Monitored student progress and provided positive feedback. \*Conducted and graded student examinations. \*Participated in campus meetings and educational committees. \*Attended professional developmental workshops and seminars.

**EDITORIAL EXPERIENCE**

\*Member of editorial board of *International Journal of Cell Toxicology and Cell Biology*. USA

\*Volunteer Reviewer for *Journal of Applied Pharmaceutical Science*, Gwalior, India

## **PUBLICATION**

### **BOOKS:**

\*Textbook of Biochemistry (M.Sc. B.T.) for the PTU.

\*Textbook of Molecular Biology (M.Sc. B.T.) for the PTU.

\*Laboratory Manual (Microbiology Lab Technology) for the Master skill (MUCH) Malaysia.

### **CHAPTER**

\* Molecular Variants for HBsAg: Surface and Subtype, Hepatitis B and C, Intechopen Ltd, ISBN 978-1-78923-948-5.

### **JOURNAL PUBLISHED**

1. RECOGNITION OF TRAIIP WITH TRAFs: CURRENT UNDESTANDING AND ASSOCIATED DISEASES, **International Journal of Biochemistry and Cell Biology**, Vol 115 October 2019: 105589  
<https://doi.org/10.1016/j.biocel.2019.105589>

1. ANTIMICROBIAL ACTIVITY OF THE ESSENTIAL OIL EXTRACTED FROM ARTEMISIA ANNUA, **World Journal of Pharmaceutical Research**, Vol 7 Issue 18 November 2018 Page: 1402-1417.

3. MAGNESIUM DEFICIENCY AND ITS CORRELATION WITH INSULIN RESISTANCE IN OBESE FEMALES IN MAJMAAH, **International Journal of Pharmaceutical Sciences Review and Research**, Volume 49, Issue 2 March 2018, Pages: 117-119.

4. STUDY OF HEPATITIS B VIRUS INFECTION AND ITS GENOTYPES IN TRIBAL PEOPLE, **Asian Journal of Pharmaceutical and Clinical Research**; Vol 10 Issue 4 April 2017 Page: 51-55.

5. KINETIC STUDY AND BASAL MEDIA MODIFICATION OF CELLULASE ENZYME PRODUCTION BY MUTATED STRAIN OF ASPERGILLUS FUMIGATES (AF1), **International Journal of Pharma and Bio Sciences (Af1)**, 2016 Jan; 7(1): (B) 193 - 200

6. EFFECT OF COLCHICINE INDUCED MUTATION ON CELLULASE ENZYME PRODUCTION BY ASPERGILLUS FUMIGATUS, **World Journal of Pharmaceutical Research**, Vol 4, Issue 06, 2015. 461-471.

7. EVALUATION MICROBIOLOGICAL AIR CONTAMINATION IN AL MAJMAAH UNIVERSITY, **International journal of science and research**, March 2015, Volume 4, Issue 3, Pages : 2141-2144.

8. EFFECT OF UV AND COLCHICINE ON CELLULASE ENZYME PRODUCTION BY *ASPERGILLUS TERREUS*; **Indian Journal of Applied Research**, Volume: 5 Issue: 2 Feb 2015, Pages: 681-684.

9. EFFECT OF UV IRRADIATION ON CELLULASE PRODUCTION BY A. FUMIGATUS ISOLATED FROM AGRICULTURE WASTES; **Asian Journal of Microbiology, Biotechnology & Environmental Sciences**, 2008, Volume 10, Issue 1, Pages: 123-126.

### **PAPER PRESENTATION**

#### **“RECHARGING OF AQUIFERS BY RAIN WATER”**

Presented research paper in National Seminar on water security, NEERI, Nagpur (MS), INDIA.

### **RESEARCH PROJECT**

\* “Effect of overweight and obesity on liver functioning in Females of Saudi Arabia”, Al Majmaah University, Medical Laboratory Department, College of Applied Medical Sciences, Saudi Araba, 2017- Till date.

Saudi Arabia is a developing country with highest number of Obesity problems in male and female both but the number of female are more who develop Liver diseases in their later life. To study the co-relation between obesity and overweight on liver functioning this project is undertaken.

\*'Processing, Preservation and storage of Eri-pupae for human consumption' Gauhati University, Department of Microbiology, Feb 2005 - June 2006.

The growing demand of Eri-pupae as a nutritive food item has led to undertake the study to standardize a method of processing and preservation as well as packaging the pupae to make them available in the market. As an initial step

therefore, certain biochemical properties such as - total carbohydrate, protein (CFTRI, Mysore), lipid and total free amino acids were analyzed. From the fresh pupae altogether 18 amino acids could be detected by thin layer chromatography. Finally the finished products (water activity 0.58) were made available in the market.

**\*Microbial characterization of *E.coli* and *Salmonella* having zoonotic potential from U.P' HIIMT, Department of Biotechnology, June 2009 -Dec2012.**

Study of the antipathogenic properties of the probiotic organisms against diarrhoeagenic *E.coli* and toxigenic *Salmonella* and selection of potent isolates for formulating a consortium of probiotics for controlling the pathogens (*in vitro* and *in vivo* studies using Swiss albino mice. (During conduct of the study principles Good Laboratory Practices has been followed).

### **INVITED SEMINAR AND WORKSHOP**

\*Workshop on “Bioinformatics and its future Prospects” at Gauhati University, Guwahati, India.

\*National Conference on “Recent advances in Botany” at J.M Patel College, Bhandara, India.

\*Seminar on Nanobiotechnology at Biotechnology Dept. Gauhati University Guwahati, India.

\*National seminar on “Zoology for Human Welfare” at Gauhati University, Guwahati, India.

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### **EDUCATION**

**B.Ed Special Education, 2014, Jamia millia Islamia University, Delhi**

**Ph.D. (Biotechnology)**, Guwahati University, India, 2008

Key skills: The study of Crude enzyme isolation, Basal medium modification, mutation of bacterial and fungal species, and kinetic studies of enzyme.

**M.Sc. (Botany)**, Nagpur University, India, 2004

Specialization in Mycology

**B.Sc.**, CCS University, India, 2001

Compulsory subjects as- Chemistry, Botany, Zoology

**I. Sc.**, K.V. CBSE, India, 1998

Compulsory subjects as- Physics, Chemistry, Biology

**Matriculation**, K.V. CBSE, India, 1996

### **OTHER EDUCATION**

**IELTS: 7 bands**

**Saudi Heart Association Basic Life Support Trainer**

Center-Al Majmaah University, KSA. Since 2017

**Quality Basic and ISO 14001**, August 2009

Completed Online Quality Management Training conducted by QualityGurus.com. Mr. Norman Bodek is the organizer of this Quality management training course. He is also the president of PCS Press & instructor in American Management Association, Institute of Industrial Engineers, and American Society for Quality.

### **COMPUTER EDUCATION**

MSCIT, Maharashtra State Certificate of Information Technology, Maharashtra state Board of Technical Education, India

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### **HONOURS AND AWARDS**

\*First Prize in inter college Science exhibition 2004.

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Dr. Johra Khan (Female), Passport: J67038301, DOB: 7<sup>th</sup> July 1980, POB: India, CV Updated on 05<sup>th</sup> May 2019, KSA