

SYED MOEEZ ULLAH

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Father Name: Syed Muheeb Ullah, April 5th 1995, 54303-5368512-7



TALENTED BIOTECHNOLOGY POST-GRADUATE WITH EXPERIENCE

EXPERIMENTATION DESIGN | SAMPLE HANDLING | MOLECULAR & MICROBIOLOGICAL TECHNIQUES

Capable of managing day-to-day laboratory activities and ensuring quality assurance, as well as accurate results reporting.

Driven Biotechnology Post-Graduate with outstanding knowledge and experience in handling high-risk microbial and viral species, as well as performing complex laboratory procedures while ensuring strict compliance with relevant SOPs. Ability to run PCR, gel electrophoresis, DNA/RNA/Plasmid extraction, as well as perform biochemical testing, and other microbial techniques. Having experience in designing and carrying out experiments, researching scientific literature and writing technical report. Success in identifying unknown DNA fragments on gel electrophoresis after performing PCR during research work. Excel at preparing different types of media, solutions, and reagents for the isolation of microorganisms. Aiming for a challenging Biotechnologist or related role where prior experience and transferable skills can be utilized. Possess excellent communication skills with the ability to draft high-quality research papers.

Knowledge, Skills, & Abilities:

Plasmid Amplification & Purification | Culture Preservation | Media Calculation & Preparation | Waste Management | Phylogenetic Tree | Stock Solution & Buffer Preparation | RNA/DNA Isolation | Time Management | PCR Research & Development | Gel Electrophoresis | Bio Risk Management | Biosafety & Ethics | Project Management | Laboratory SOPs & GMP Compliance | Record Management | Microsoft Office Suite | Typing Speed 23 wpm

EDUCATION & PROFESSIONAL DEVELOPMENT

BALOCHISTAN UNIVERSITY OF INFORMATION TECHNOLOGY, ENGINEERING & MGT. SCIENCES
Master's Degree in Biotechnology (2021)
Badge of Honor in MS/MPhil
CGPA 3.60/4

BALOCHISTAN UNIVERSITY OF INFORMATION TECHNOLOGY, ENGINEERING & MGT. SCIENCES
Bachelor's Degree in Biotechnology & Informatics (2018)
Won Two Year Work & Study Scholarship to Study at BUITEMS
CGPA 3.06/4

ISLAMIA BOYS COLLEGE, QUETTA
HSSC (Pre Medical)
Marks 539 / 1100

IBN E SEENA LITTLE ANGELS HIGH SCHOOL PISHIN
SSC (Science group)
Marks 696 / 1050

ONLINE COURSES AND CERTIFICATES

Science of Exercise – July 2020 – by University of Colorado at Boulder offer through Coursera.
COVID-19 Contact Tracing – August 2020 – by Johns Hopkins University offer through Coursera.
Bioinformatic Methods I – Sept 2020 – by University of Toronto offer through Coursera.
Learn to code in python 3: Programming beginner to advance – March 2020 offered through online software “Udemy”
Introduction to R language – online software “DataCamp”

Training of BRM Bio Risk Management Basic Course (2021)
Training Techniques in Plant Tissue Culture (2020)
Certificate of Participation in Biosafety and Quality Assurance Seminar (2016)
Two days International Hybrid Training Workshop on “Clinical Diagnosis of Mycotic Diseases (2023)”

PROFESSIONAL EXPERIENCE

BUTTEMS UNIVERSITY

2020 – 2023

Research Associate

Plan and conduct studies on microscopic organisms, such as viruses, bacteria, and fungi. Perform accurate calculations and prepare large volumes of media specific to the needs of each culture. Ensure strict compliance with laboratory SOPs and timely sterilize all material/supplies. Prepare buffer and stock solutions with accurate pH for different experiments with accuracy, as well as maintain biosafety.

- Two years of research project supported by HEC, Project Reference No. 20-16308/NRPU/R&D/HEC/2021 named as **“Prevalence Analysis and Molecular Diagnosis of Newly Emerging, Multi Drug Resistant, Human Pathogenic Yeast, *Candida Auris* in the Population of Quetta, Balochistan”**. In this research my work includes: sample collection, culturing, DNA extraction from Yeasts, PCR, identification of Yeast specie, data analysis and file management of the project.
- Three years research project supported by HEC named as **“Fine mapping of QTLs linked with drought tolerance in rice genotype in vegetative pase”**
- Conduct **multiple screening tests** to specify bacterial species using basic microbial techniques including gram staining, antibiotic sensitivity tests; examine food and drink to identify **pathogenic and undesired microbial contamination**.
- Administer and analyze reports, as well as **ensure absolute sterility and purity** of cultures and stocks; operate autoclave and perform waste management to maintain a clean laboratory environment.
- Capture specimen from targeted sources, **perform serial dilution**, isolate and identify different bacterial strains by evaluating different physiological and morphological characteristics.
- Run complex gel **electrophoresis and RT PCR experiments** to differentiate biomolecules on variable parameters.
- **Extract and purify genetic material** of different microorganisms including DNA, RNA, and plastids, assist in bacterial transformation, and construct phylogenetic trees to identify the bacterial strain.
- Cautiously **perform tissue culture** and take care of all plants within and during acclimatization to achieve successful results.

RESEARCH PUBLICATIONS

S.No	Paper Title	Journal Name	Level	Impact Factor	Role in publication	ISSN/ISB N No.	Like of paper	Publication Date
1	The development of cost effective 100 base pair prototype DNA ladder using polymerase chain reaction.	Advancements in Life Sciences	National	1.6	First Author	2310-5380	https://www.su-bmission.als-journal.com/index.php/ALS/article/view/1564	31 st March, 2023
2	Expression of Chitinase and shRNA Gene Exhibits Resistance to Fungi and Virus	Genes	International	4.141	Co. Author	2073-4425	https://www.mdpi.com/2073-4425/14/5/1090	15th May, 2023
3	Biocontrol rhizobacteria enhances growth and yield of wheat (<i>Triticum aestivum</i>) under field conditions against <i>Fusarium oxysporum</i> Comparison of Amplification Ability of Mat-K and RbcL DNA Barcodes in the Identification of Wild Grasses of the Quetta Ecosystem	Bioengineered	International	6.832	Co. Author	2165-5987	https://www.tandfonline.com/doi/full/10.1080/21655979.2023.2260923	4th October, 2023
4	Amplification Ability of Mat-K and RbcL DNA Barcodes in the Identification of Wild Grasses of the Quetta Ecosystem	Pakistan Journal of Biochemistry and Molecular Biology	National	nill	Co. Author	1681-4525	http://www.pjmb.com/index.php/pjmb/article/view/77	1st April, 2023

HAVE A PATENT

“The PCR based cost effective 100bp DNA ladder” product has been patent in Government of Pakistan Intellectual Property Organization. Application No. 510/2021 and Receipt No. 17175.

HONORS & ACTIVITIES

Badge of Honor in MS Biotechnology By BUIITEMS FLSI Quetta
Awarded Laptop By Prime Minister Scholarship Program 2018

HOBBIES

