

AFZAL SARDAR W

Dedicated and loyal MSc Biotechnology Graduated. deep passion for research and development. committed to making a meaningful impact in the field through discipline, resilience, and a growth-oriented mentality.

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SUMMARY

Dedicated and loyal MSc Biotechnology graduate with a solid academic foundation and a deep passion for leveraging cutting-edge biotechnological principles to drive scientific progress. Possesses hands-on experience in diverse laboratory techniques, molecular biology, and bioinformatics. Adept at bridging theoretical knowledge to practical applications and eagerly ready to forge a career in biotechnology research and development. Demonstrates exceptional collaborative and problem-solving abilities, committed to making a meaningful impact in the field through discipline, resilience, and a growth-oriented mentality.

EDUCATION

2021 - 2023

- Master of science in biotechnology
[Nrupatunga University](#)

2018 - 2021

- Bachelor of science in biotechnology
[Bangalore City University](#)

EXPERIENCE

04/2022 - 01/2023

Madanayakana Halli, Bangalore

- Medical Lab assistant and technician
[Shri Hari hospital](#)
Medical hospital
 - Handling patients
 - Blood draw
 - Blood analysis
 - Handling lab instruments such as hematology, Biochemistry analysers
 - Clinical data entry
 - Billing and test report submission

ACHIEVEMENTS



Successfull blood draw and analysis

The basic and very critical skill of proficient lab technician.



Proficient in conducting Extraction and isolation of natural compounds

Isolated and estimated- casein, caffeine, citric acid, lycopene, clove oil, menthol, curcumin, volatile oils and other natural compounds and Metabolites



In-vitro antioxidant activity of crude drug

Extract natural antioxidants from edible source and establishments effective antioxidants activity.



Estimated the antimicrobial activity for *Ocimum tuniflorum* (Tulsi) and *Azadirachta indica* (Neem)

the samples shows Successful antimicrobial assays. Increased inhibition with the increased concentration of the extract against wide range of microorganisms such as staphylococcus epidermis, pseudomonas, streptococcus, Enterococcus faecalis (E.coli)

CERTIFICATION

Geo-informatics for biodiversity conservation planning

Indian Institute of remote sensing (ISRO)

(ICSTM), Aug 2023– Conference Participation and Research work presentation.

Global Conference Hub

Non target Metabolomics analysis

Indian institute of horticulture research (IIHR)

National Webinar on "Essential Research Skills and Publishing- Aug2023

Balani infotech

SKILLS

Laboratory Techniques:

- Proficient in isolation and estimation of DNA, RNA, and protein. Handling and extraction (Soxhlet, rotary evaporator, cleavanger), distillation units, UV visible spectroscopy.

Analytical Skills:

- Proficient in Molecular Biology techniques including antimicrobial assays, separation of DNA, RNA, protein purification, experienced with chromatography methods such as LCMS and GCMS sample

- Biochemistry

- Basics of animal cell culture and plant cell culture.

Phytochemistry:

skilled and experienced in extracting and isolating natural compounds, target and non-targeted Metabolomics analysis. Bioinformatics knowledge in handling Rasmol, Mega X (phylogenetic analysis).

Research:

Experience in experimental design, data collection, analysis, and interpretation.

Communication & Teamwork:

Strong written and verbal communication skills. Proven ability to collaborate within interdisciplinary teams to achieve research goals.

Software :

Proficient in Microsoft Office Suite (Word, Excel, PowerPoint).

TRAINING / COURSES

Industrial Applications in Environmental Biotechnology

Extracting and isolating natural compounds

qualitative and quantitative analysis of Phytochemicals.

target and non-targeted Metabolomics analysis

Bioinformatics

VOLUNTEER PROJECTS

BSc Project: • Corona virus diseases: vaccine research and development,

📅 02/2021 - 04/2021

a deep project report on corona virus disease history efficiency and vaccine research and development, submitted for the award of degree of bachelor of science in biotechnology.

MSc Project: Deducing metabolic pathways conferring seedling vigor Under salinity and low moisture stress.

📅 04/2023 - 05/2023

The research project conducted at Indian institute of horticulture research IIHR with the aim of developing stress-tolerant eggplant seeds by using metabolomics analysis to identify and enhance key metabolic pathways.

Osmopriming Eggplant (*Solanum melongena* L.) Seeds by Using KNO₃ and GA₃ solution. And Metabolomics analysis.

📅 04/2023 - 05/2023

the aim of developing better osmopriming technique for seeds uniform germination by using metabolomics analysis to identify and enhance key metabolic pathways.

Alzheimer's Disease Drug discovery

📅 10/2022 - 11/2022

used a variety of extraction techniques, including Soxhlet and rotary evaporation, to isolate lignin(Acetylcholinesterase Enzyme Inhibitor) from flag seeds and estimated its activity against crude enzyme extract from fish brain.

Synthesis of Silver and titanium nanoparticles from *Stereospermum colais*.

📅 11/2022 - 12/2022

Synthesis of 100MmAgNO₃ and TiO₃ nanoparticles using *Stereospermum colais* plant extract by diccoction method

Green Synthesis of Silver Nanoparticles from *Azadirachta indica* (Neem)

📅 02/2023 - 03/2023

Bio reduction of silver ions into Silve nanoparticles after addition of neem extract. After incubation change in colour indicates the Synthesis of Ag nanoparticles

LANGUAGES

English

Advanced

Kannada

Native

Hindi

Native

Urdu

Native

PASSIONS



Biotechnology, Phytochemistry,
Biochemistry



Knowledge and curiosity

STRENGTHS



Husler



Commitment



Growth mentality