

Somiya Saleh Saferuddin, BSc, MSc

Personal Information

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Summary

Highly motivated master's graduate in Bioscience, brimming with enthusiasm to contribute to the ambitious goals of Vision 2030 KSA. Possessing strong analytical and laboratory skills honed through research experience, I am eager to leverage them in real-world applications for the Kingdom's scientific advancement. I envision myself working within governmental entities responsible for scientific innovation, actively participating in the Kingdom's transformation towards a knowledge-based economy.

Education

Master's Degree of Bioscience (Cell and Molecular Biology), King Abdullah University of Science & Technology (KAUST), 2021, GPA 3.5/4

Bachelor's Degree of Biology (Genomics & Biotechnology), King Abdulaziz University (KAU), 2016, GPA 4.4/5

Experience

- Over two years research experience as a PhD student in the Center for Desert Agriculture (CDA) at KAUST (2022-2024)
- Elective course in TGS Nanopore Sequencing including a practical section (2023)
- Attended Scientific Writing & Research Proposal Writing workshops (2023)
- Attended Data Scientists workshop focused on introduction to Python programming language (2023)
- Attended Bionano Optical Map Analysis workshop by Corteva (2023)
- Organized and attended Sustainability and KSA Food security workshops organized by KAUST (2022-2023)
- Traveled around the kingdom for sample collection for the KSA Native Genome Project (2022-2023)
- Volunteer in educational events KAUST TKS school such as Plant Science Family Night, Vegetation Initiative in collaboration with LIAJLEHUM Association (2022-2023)
- Training undergraduate students in Plant Science Summer Camp Program (2022)

- Sales associate at Shababuna Saudi company (2019)
- Training at Molecular Research Laboratories at King Faisal Specialist Hospital & Research Center (2018)
- DNA Fundamentals & hands-on Training Course at Faculty of Pharmacy, King AbdulAziz University (2018)
- Medical Laboratory Training at King AbdulAziz University Hospital (2016)
- Basic Training Program in Computation Biology, Molcular Genetics & Cytogenetics Laboratories at Princess Al-Jawhara Albrahim Center of Excellence in Research of Hereditary Disorders (2016)

Research

Saferuddin, S. (2021). RADICL-ChIP: a Method to Capture Global RNA-on-Genome Distribution Mediated by Chromatin Associated Factors. KAUST Research Repository. <https://doi.org/10.25781/KAUST-R4EEY>

Co-author in “KSA Native Genome Project” (upcoming publication)

Skills

- **Bioscience Expertise:** Cell and Molecular Biology, Genomics, Biotechnology, Epigenetics, Bioinformatics.
- **Data Analysis Skills:** Linux-terminal, scripts execution, HPC Experience: IBEX Cluster, cluster management e.g. Slurm, Utilized the IBEX cluster for large-scale data analysis in my research on genome assembly.
- **Software skills:** Proficient in comprehensive Genomic analysis pipeline: Applying tools for quality control (FastQC, FastP), Assembly (HiFiAsm, HiCanu, Flye), Scaffolding (Ragtag), Visualization (GS_Viewer, Smudgeplot, GenomeScope), *De novo* transposable element annotation (EDTA), Tandem repeat finding (TRF), Repeat masking, K-mer analysis (Jellyfish), and Bionano optical map and Hi-C integration.
- **Laboratory Skills:** Safety trainings, basic lab skills (e.g. Pipetting, Microscopy), Tissue Culture, Nucleic Acid Purification, PCR, Gel-Electrophoresis, Epigenetic Techniques (Chromatin Immunoprecipitation, ChIP-seq, ATAC-seq, DNase-seq, CUT & Tag, CUT & RUN), Library Preparation, Sequencing (Illumina, PacBio, Nanopore)
- **Academic/Scientific writing**
- **Critical Thinking & Problem-Solving**
- **Communication & Teamwork**
- **Time Management**
- **Basic computer skills (Microsoft Office)**
- **Hobbies and interests include: photography, Reading and sales and advertisement**

Languages

Arabic (native), English (fluent)