

SALMA ROMAN

MS In Molecular Biotechnology (Nov 2014 to Jan 2017)

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Educational Qualification:

MS Biotechnology with CGPA 3.6/4 from Department of Bioinformatics and Biotechnology

Faculty of Basic and Applied Sciences

International Islamic University Islamabad Pakistan

Subject Expert:

- Human genetics & pharmacogenetics
- Immunology & Enzymology
- Animal Biotechnology
- Nano Biotechnology
- Human Physiology (Endocrinology)
- Zoology and Botany

Research Project:

Study of Pharmacogenetic Association of Candidate Gene Polymorphism in Hypertensive Pakistani Population

Research Supervisor:

- Dr Asma Gul (Post Doc Human Genetics)
Associate Professor & Member of HEC Applied Science Committee
Chairperson of Department of Biotechnology and Bioinformatics
International Islamic University Islamabad

Aim of study

- To evaluate Variants of CACNA1C gene and its association with antihypertensive drugs. Samples of 285 Hypertensive patients were collected and out of 285, 185 patients were using Amlodipine antihypertensive drug, while 100 were using Amlodipine and Losartan Potassium both.
- rs2239050 C/G and rs22339127 C/T polymorphism CACNA1C gene was studied.

Cool Season Vegetable Gardening

BS BIOSCIENCES UNIVERSITY OF WAH WAH CANTT PAKISTAN (2012)

In 6th Semester of Plant anatomy course different factors of growth, development and degradation factors were studied. Under supervision of Dr Nuhat Assistant Professor (PhD Plant Anatomy) 3 months vegetable gardening was performed.

At first The Pantry Soil pH test was performed to measure pH, required minerals and organics. Selected Plants were grown in chosen site, with 7-8 hours of sun light, required nutrients and fresh water provide according to needs. Soil bed was prepared, Cool season vegetables were selected and each row was marked accordingly.

Cool season vegetables were spinach, garlic, cabbage, radishes, mustards, and turnips. arugula, beets, broccoli, carrots, cauliflower, lettuces, kale, onions, radishes, snap peas, spinach, Swiss chard.

Final Year Research Seminar:

Topic of Presentation (Endocrinology of insulin) in diabetes mellitus type 1 and type 2 disorder.

Wet Biotechnology Lab Experience:

- Worked as Research Assistant from Dec 2014-Aug 2015 in Lab of Molecular Genetics under the supervision of Dr Ansar (Associate Professor Quaid Aam University Islamabad)
- Worked as Lab Internee for 3 months under supervision of Dr Ismail (DG IBGE KRL Islamabad Pakistan)
- Worked as Biotechnology Technician from

- Worked from Oct 2015 – Dec 2016 as Biotechnology tech in General lab Molecular Biotechnology and Bioinformatics under supervision of Dr Imran (Post Doc Biotechnology Germany) Associate Professor in IIUI Boys
- Attended 7 days Plant Nano Biotechnology exhibition, organized between Bio Medical Engineering Department University of Engineering and Technology Taxila (UET) and Dr Nayila Assistant Professor IIUI (PhD Plant Biotechnology) precisely impact of gold nano Particles (AuNPs) role among Meristematic culture using different methods.

MLT Internship (POF Hospital Microbiology Lab Wah Cantt)

- From March 2017- Nov 2017 Worked as MLT tech performed urine test, blood tests, T.B saliva test, Different immunological test as well.

Dry and Wet Biotechnology Skills:

- DNA extraction, (Kit method and Manual 2 days method)
- Electrophoresis, Spectrophotometry, UV analysis
- PCR, q- PCR, RFLP, ELISA
- Southern blotting, Western blotting, Northern Blotting
- Bioinformatics Genomic Sequencing and Statistical Analysis
- Primer designing using <https://www.ncbi.nlm.nih.gov/>
- Spectrometry, flow cytometry and Visualization
- Centrifuge, Incubator, Autoclave, Water bath
- Microcentrifuge, Micropipettes
- Vortexes, and multi vortexe

Teaching Experience:

- Worked as Biology Lecturer for 3 years (2017-2019) in BASE College of Science and Commerce
- Worked as Zoology lecturer for 5.5 years (2020-2024) in Affiliated Sub Campus of University of Sargodha Punjab PAKISTAN.
- Also worked as Exam Controller for 2 years.
- Performed duty of ADP Zoology and Botany Practical examiner

Scholarship:

- Awarded Punjab Government Fully Funded scholarship (for 4 years in BS)
- Awarded Pak Army Fauji Foundation Stipend for 2 years in MS.

Hobbies:

- YouTube video creation, specifically Applied health science
<https://www.youtube.com/@UpgradeyourGradeZRK>

Language:

- Urdu
- English
- Mother Language Punjabi