

FARHAN ULLAH

Department of Zoology
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Objectives

A self-motivated, passionate, honest, and responsible individual, possessing excellent leadership and challenge me in research activities to become a good researcher in biology.

Academic qualification

Degree	Discipline	Institute/Board	Grade	Percentage
BS zoology	BS	Hazara university Mansehra, Pakistan	3.66 GPA out of 4	78.74%
HSSC	Pre medical	BISE Peshawar	"A"	78%
SSC	Science	BISE malakand	"A"	78%

SUMMARY

Awarded gold medal in BS session Sept 2019 to Feb 2023 by Hazara University Mansehra Pakistan (www.hu.edu.pk). I have successfully completed my BS degree under the supervision of renowned professors in my department (zoology). Because I have a strong passion to doing research in my interested field. I Specialized in Cell Biology, Developmental Biology, Ecology, Biochemistry, Animal Physiology, Evolution,

Zoogeography, Biotechnology, Entomology, Applied Entomology, Genetics, Taxonomy, Animal Behavior, Comparative Anatomy, Invertebrate Zoology, Plant physiology and Taxonomy, Organic Chemistry, Inorganic Chemistry.

Research Direction

- Identify potential therapeutic targeting approaches.
- Early Diagnosis of Cancer and Therapy
- Molecular biology, Biochemistry and Genetics
- Cell Biology
- Bioinformatics
- Ecology and evolutionary biology
- Biotechnology
- Microbiology
- Animal physiology
- Entomology

Research

- During my BS degree, I have done research work on the study Structural, Functional and Evolutionary Analysis of Human E2F1 Gene
- I also study the locust infestation across the globe during past century
- During my BS degree, I worked on phylogenetic tree construction
- I also study different bioinformatics tools (Mega X, Blast server, conSurf server, String database, Web-Logo)

Academic Lab Work

- Study and demonstration of instruments (Altimeter, Hygrometer, Soil thermometer, Rain gauge, etc.)

- Distribution of animals, pattern of distribution, estimation of densities of different population of animals and field study of different organisms
- DNA extraction techniques
- Human Genome maps, single Gene traits in Human
- Sampling methods and their evaluations
- Collection & identification of invertebrates /vertebrates up to family level
- Techniques in taxidermy, preparation of keys for the identification of specimens
- Simple staining of whole mounts
- Histological study –fixation, dehydration, staining of tissues after micrometry and preparation of permanent slides, study of histological slides
- Techniques for the demonstration of blood cells
- Study of model eggs of different invertebrates and vertebrates
- Dactylography and its uses in embryology
- Study of prepared slides for the development of Amphioxus, mammals and frog
- Determination of blood group, Rh factor and hemoglobin percentage, preparation of serum, blood smears and their staining
- Preparation of different types of solutions, PH, buffer systems, diffusion and active transport; chromatography
- qualitative determination of carbohydrates, proteins, amino acids and lipids
- Dissection of insects cockroach, grasshopper, butterfly, honey bee, house fly, yellow wasp and mosquito to expose their internal anatomy
- Preparation of mouth parts, antennae, wings and legs of different insects

- Preparation of killing bottles, preservation, pinning and setting of insects
- Classification and identification of insects
- Collection, identification and preservation of different pests and other insects of medical and veterinary importance
- Operation of various types of sprayers, fumigation emulsions
- Basic techniques (staining of microorganisms: simple staining, positive staining, negative staining, gram stain, Acid fast stain, spore stain, metachromatic granule stain)
- Culturing of microorganisms: preparation and sterilization of culture media, agar slope, agar slab, streak plates, pour plates methods
- Processing and synthesis of various food products: Yoghurt, Cheese, Beverages
- Preparation of various media
- Gel electrophoresis
- PCR (polymerase chain reaction) for detecting of pathogen

Extra-Curricular Activities

- Work under tense condition, Enthusiastic, Hardworking & energetic,
- Efficient in handling people& teamwork and impressive communication skill
- Time management
- Reading books and searching new things
- Travelling

Honors & Achievement

- Awarded gold medal in BS degree session 2019 to 2023 by Hazara University Mansehra Pakistan// www.hu.edu.pk
- HEC scholarship Holder from Govt. Pakistan

- Registered with higher education commission (HEC), Pakistan Prime minister laptop scheme, Awarded by Hazara University Mansehra Pakistan // www.hu.edu.pk
- Awarded golden scholarship in FSC by Peshawar model degree college Pakistan
- Awarded best cricket player in FSC by Peshawar model Degree College// www.pmdc.edu.pk, Pakistan

Trainings & Skills

- Microsoft office (Word, Excel, Power point)
- Typing
- End Note
- Internet Surfing
- Six month teaching in Osmania model School Peshawar, Pakistan

Personal Data

- **Date of birth:** 14 April 1998
- **Nationality:** Pakistani
- **NIC:** 15402-7910679-3
- **Passport No:** TG2746791

References:

1. Dr. Shehzad Ghayyur, (PHD)

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2. Dr. Shabir Ahmed, (PHD)

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