

DR SHAMIM MUSHTAQ

PROFESSOR
DIRECTOR OF POSTGRADUATE PROGRAM (BHS)
CHAIRPERSON OF RESEARCH COMMITTEE (RC)
HEAD OF THE RESEARCH DEPARTMENT-ZMC

BS, MSC, PHD, CHPE

Department of Biochemistry

PROFESSIONAL ASSOCIATIONS

- RESEARCH FELLOW OF INTI INTERNATIONAL UNIVERSITY, MALAYSIA
- MEMBER OF INTERNATIONAL IMMUNO-ONCOLOGY BIOMARKER WORKING GROUP ON BREAST CANCER

ADMINISTRATIVE & ACADEMIC ROLES

- DIRECTOR POSTGRADUATE PROGRAM
- CHAIRPERSON RESEARCH COMMITTEE
- HEAD OF RESEARCH DEPARTMENT

CURRENT RESEARCH FOCUS

Cancer Proteomics and Genomics.

Main focused on to obtain detailed pictures of the molecular phenotype of cancer cells, biological understanding of the tumors and plasma proteome in triple negative breast cancer and colorectal cancer. Currently address that how cancer proteome aberrations influence the functional proteome and to define predictive biomarkers for immunotherapy specifically immune checkpoint proteins. Another focus is to gain knowledge of how chemotherapies affect the proteome and how this information can be used to select most effective treatment for cancer patient.

GRANTS & FUNDED PROJECTS

Ongoing Grants:

1. **2024: PAKISTAN SCIENCE FOUNDATION (PSF), ISLAMABAD, PAKISTAN.** COMPREHENSIVE MAPPING OF ADAPTIVE IMMUNE RESPONSES AMONG VACCINATED AND NON-VACCINATED COVID-19 INFECTED PATIENTS." CONDUCTED UNDER PAKISTAN SCIENCE FOUNDATION GRANT NO./PROJECT NO PSF/RES/S-ZU/MED (554).

Completed Grants

Higher Education Commission (HEC) GRANTS, Islamabad, Pakistan

1. **2020:** CANDIDATE PREDICTIVE BIOMARKERS FOR TARGET THERAPY AMONG METASTATIC TRIPLE NEGATIVE BREAST CANCER (TNBC) NAÏVE AND TREATED YOUNG PREMENOPAUSAL WOMEN GRANT REF. NO 11952; **AMOUNT: 3.7 MILLION.**
2. **2009:** IDENTIFICATION OF STRUCTURAL, APOPTOSIS-RELATED, AND DISEASE-CAUSING GENES/PROTEINS IN WOUND HEALING MODEL OF HUMAN CORNEAL EPITHELIAL CELLS (HCEC) FUNDED BY HIGHER EDUCATION COMMISSION (HEC), ISLAMABAD, PAKISTAN. GRANT REF. NO [20-1538](#); **AMOUNT: 1.888MILLION.**
3. **2009:** PROTEOME PROFILING OF HUMAN CATARACT AND IDENTIFICATION OF STRUCTURAL AND APOPTOSIS RELATED MARKER PROTEINS FUNDED BY HIGHER EDUCATION COMMISSION (HEC), ISLAMABAD, PAKISTAN. GRANT REF. NO [20-1595](#) **AMOUNT: 1.0 MILLION.**

PUBLICATIONS

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