Curriculum Vitae

# Quratulain Nazakat

D/O: Nazakat Shah


**Date of Birth:**
**3, February, 1991**

**Religion: Islam**

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**nazakatquratulain@gmail.com**

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**Home Address:**
**House# 1, Street 17, Mohala Fazal Gunj, Near Junior Model School, Nawan Koat, Multan Road, Lahore.**


## Objective:

Seeking a challenging position to use my skills to the optimum level and at the same time get an opportunity to enhance my knowledge in the field of Biochemistry

## Summary of Academic Qualification:

- **2013-2015 MS in Biochemistry.**
  **CGPA: 3.19 (1st Division) U**niversity of The Punjab, Quaid-e-Azam campus Lahore.
- **2009-2013 BS (Hons) in Biochemistry which is equivalent to MSc Biochemistry.**
  **CGPA: 3.10 (1st Division) University** of The Punjab, Quaid-e-Azam campus Lahore.
- **2007-2009 F.Sc (Pre Medical).**
  **Marks: 917/1100 Grade:"A+".** Govt. Girls College, Samanabad, Lahore.
- **2007 Matriculation in Science Group (Biology, Physics, chemistry)**
  **Marks: 719/850 Grade "A+"** Govt. Girls High School, Chouburji, Lahore.

## Experience:

Internship at

- **Institute of Nuclear and Medicine Oncology Lahore (2013):**
  Hematology department, Phlebotomy, Biochemistry tests, Blood Bank, Microbiological Assays, ELISA and Radio Immuno-Assays,

## Conferences & Seminar/Workshop

- Abbott Research Laboratories war against osteoporosis
  (Auditorium IBB P.U.)
- Pakistan Society for Biochemistry and Molecular Biology (P.U, New Campus, Lahore.
- BIO-RAD Laboratories New technologies make biological research easy & help researchers to discover the Mysteries of Life Sciences (2013).

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## Distinctions & Achievements:

- Got 1st prize in Essay writing Competition in Trust School Lahore (2007)
- Reward of Youth Initiative Program Laptop on merit basis.
- Awarded with Certificate of Appreciation for participation in 11th Biennial Conference of Pakistan Society for Biochemistry and Molecular Biology. (2013)
- Awarded with certificate of participation in photography contest organized by Society for Undergraduate Medical Research on World Cancer Day 2014.
- Awarded with certificate of participation in scientific event organized by BIO-RAD Laboratories (2013)
- Awarded with certificate of participation in Goi peace foundation essay competition Tokyo, Japan. (2014)

## Academic Research Project of BS:

**Project title:**

Prevalence of Hepatitis B Surface Antigen Positivity

**Project Summary:**

In this, I collected the raw data of hepatitis B patients from Jinnah Hospital Lahore. This was the random data of different areas of Pakistan. I had statistically figured out the percentage of positivity and negativity of hepatitis B. F
rom that, I concluded that; the highest prevalence positivity of hepatitis B patient was in the month of June and July.

## Academic Research Project of MS:

**Research topic:**

Characterization of Adhesion dependent functions in wild type and epirubicin resistant cancer cells

**Research Summary:**

In current research, MCF-7 wild type and epirubicin resistant breast cancer cell line as well as MDA MB-231 wild type and MDA MB-231 epirubicin resistant breast cancer cell lines, Prostate cancer cell lines (PC-3) and colon cancer cell lines (HCT-116) were used. To study the interaction of integrin receptor with its ligands via adhesions proteins, cell adhesion assay was performed.

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By this, the adhesive ability of both breast cancer cell lines (MCF-7, HCT-116 & MDA MB-231) including the normal as well as different concentration of epirubicin resistant cells was studied. It was seen that the adhesive ability of epirubicin resistant cells of cancer lines was higher than that of normal cancerous breast cells. Another cell viability assay known as MTT abbreviated as 3-[4, 5-dimethylthiazol-2-yl]-2,5 diphenyl tetrazolium bromide assay was performed to check the cell survival or cell proliferation of normal and epirubicin resistant breast cancer cells. The study shows that various concentration of epirubicin resistant cells of MCF-7 breast cancer cell lines has greater adhesion-induced proliferation rate and cell survival as compared to the normal cancer cells. In case of MDA MB-231 cancer cells, cells did not show this enhanced cell survival. Expression of integrins was determined using RT-PCR.

## Technical Skills:

- **Tissue culture techniques**
  Preparation of Media, sterilization, inoculation, subculturing, maintenance, cell counting
- **Microbial techniques**
  Media preparation, plating, staining of organism
- **Immunological techniques**
  ELISA, Radioimmunoassay
- **Molecular techniques**
  SDS- PAGE, Native PAGE, Isolation of DNA, Isolation of RNA
- **Chromatographic technique**
  Paper chromatography, TLC, Affinity chromotaography

## Computational Skills:

- Microsoft Word
- Excel
- PowerPoint

## Co-Curricular Activities & Hobbies

**Co-Curricular Activites**

- Blogging
- Creative Writing

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**Hobbies**

- Art & Craft
- Gardening

**Games**

- Badminton

## Strengths

- Hard working.
- Disciplined.
- Learning attitude.
- Can work independently.