

## COMPENDIUM

**Dr. NASIMA BANO**

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D/o. Lt. Mohd Akbar,  
Phyang Thangnak,  
Oulthang pa  
Leh-Ladakh,J&K

### CAREER OBJECTIVE:

To pursue a challenging career in an esteemed organization, where there is a scope for growth and improvement, I can apply the knowledge I have acquired during my Education.

### PROFESSIONAL EXPERIENCE

- 4 years of Teaching experience at the UG level

### EDUCATIONAL QUALIFICATION

Qualification	Year	School / College	Examination Board/ University	Percentage
Ph.D.	2022	CSIR-IIIM, Jammu	AcSIR	
CSIR UGC NET	2016		CSIR	QUALIFIED CSIR JRF
Masters in Zoology(M.sc)	2016	P.G.G.C.G.sec 11chandigarh	PANJAB UNIVERSITY	80.8%
Bachelors in Science(B.sc)	2014	Govt. College for woman Parade, Jammu.	Jammu university	67.6%
12 <sup>th</sup>	2011	GOVT HSS(g) Mubarak Mandi, Jammu	JKbose	65.8%
10 <sup>th</sup> Class	2009	Army School Leh LADAKH	CBSE	72.0%

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**Professional Achievements:**

1. Online Inter-disciplinary Two-week Refresher Course on Managing Online Classes and Co-creating MOOCS 13.0 conducted by Teaching Learning Centre, Ramanujan College, University of Delhi from 6<sup>TH</sup> to 20<sup>th</sup> April 2022
2. As an evaluator in the district 30<sup>th</sup> National Children's Science Congress 2022 on the focal theme "Understanding Eco System for Health and Well Being held at Imamiya Mission School, Leh
3. One month course on Level of Understanding about NEP-2020 conducted by IGNOU
4. Appointed as Invigilator for LASET 2022 and UPSC examination
5. As a woman member of the Constitution of Biodiversity Management Committee, Leh
6. As a speaker in career counseling for the students of Govt. High School, Phyang
7. 4-Week Induction/Orientation Programme conducted by Teaching Learning Centre, Ramanujan College, University of Delhi from September 01-September 30, 2022
8. 3 days faculty development program on Exploring Path to Nurture the Future organized by the University of Ladakh from September 3-5, 2020
9. One day workshop Designing & Crafting Research Papers for International Audience on 29<sup>th</sup> of Dec, 2020
10. Attended National level Quiz on "Mathematical Logic" organized by the Department of Mathematics, GDC Darhal
11. Participated in a National Level Online General Knowledge quiz on the Olympics organized by GDC Khaltsi
12. Three weeks Induction training program conducted by Govt. college of Education, Canal Road, Jammu w.e.f. 27-05-2019 to 22-06-2019
13. Workshop on Promoting Effective Classroom Participation held on 20-21<sup>th</sup>, Nov 2019

## Papers Published:

[Analyzing structural differences between insulin receptor \(IR\) and IGF1R for designing small molecule allosteric inhibitors of IGF1R as novel anti-cancer agents.](#)

**Bano N, Hossain MM, Bhat AQ, Ayaz MO, Kumari M, Sandhu P, Akhter Y, Dar MJ. Growth Horm IGF Res. 2020 Dec;55:101343. doi: 10.1016/j.ghir.2020.101343. Epub 2020 Aug 27. PMID: 32877816**

H2O2-induced

**Singh P, Bano N, Hossain MM, Basit R, Dar MJ. Breast Cancer. 2019 May;26(3):378-385. doi: 10.1007/s12282-018-0933-x. Epub 2018 Nov 29. PMID: 30499025**

[Analyzing the role of cannabinoids as modulators of the Wnt/ \$\beta\$ -catenin signaling pathway for their use in the management of neuropathic pain.](#)

**Nalli Y, Dar MS, Bano N, Rasool JU, Sarkar AR, Banday J, Bhat AQ, Rafia B, Vishwakarma RA, Dar MJ, Ali A. Bioorg Med Chem Lett. 2019 May 1;29(9):1043-1046. doi 10.1016/j.bmcl.2019.03.013. Epub 2019 Mar 11. PMID: 30871771**

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[Identification of dynactin, a macrolide antibiotic, as a natural product-based small molecule targeting the Wnt/ \$\beta\$ -catenin signaling pathway in cancer cells.](#)

**Hussain A, Dar MS, Bano N, Hossain MM, Basit R, Bhat AQ, Aga MA, Ali S, Hassan QP, Dar MJ. Cancer Chemother Pharmacol. 2019 Sep;84(3):551-559. doi: 10.1007/s00280-019-03870-x. Epub 2019 May 25. PMID: 31129716**

[Identification of a unique loss-of-function mutation in IGF1R and crosstalk between IGF1R and Wnt/ \$\beta\$ -catenin signaling pathways.](#)

**Jamwal G, Singh G, Dar MS, Singh P, Bano N, Syed SH, Sandhu P, Akhter Y, Monga SP, Dar MJ. Biochim Biophys Acta Mol Cell Res. 2018 Jun;1865(6):920-931. doi 10.1016/j.bbamcr.2018.03.013. Epub 2018 Apr 3.**

[Identification of a cross-talk between EGFR and Wnt/ \$\beta\$ -catenin signaling pathways in HepG2 liver cancer cells.](#)

**Singh G, Hossain MM, Bhat AQ, Ayaz MO, Bano N, Eachkoti R, Dar MJ. Cell Signal. 2021 Mar;79:109885. doi 10.1016/j.cellsig.2020.109885. Epub 2020 Dec 17. PMID: 33340661**

## ACADEMIC ACHIEVEMENTS:

- 1) AACR Annual Meeting 2017, Walter E. Washington Convention Center, D.C., USA, April 1-5. 2017-[Identification of a natural product small molecule inhibitor against Wnt/ \$\beta\$ -catenin signaling pathway](#)
- 2) National Research Scholars Meet in Life Sciences (NRSM-2018), ACTREC, Navi Mumbai - poster presentation- [Characterization & Comparative analysis of allosteric inhibitor binding pockets of IGF-1R & IR](#)
- 3) International Conference on recent advances in interdisciplinary sciences Jan (2019)- poster presentation-[Establishing assays, screening, and identification of small molecule inhibitors against GSK3 beta as a neuroprotective agent](#)

- 4) International Conference (AGRO-TECH 2017)-poster presentation-**Screening and identification of natural product-based small molecules inhibiting GSK3 beta, an anticancer drug target**
- 5) National seminar on recent trends in genomics & metabolomics (2017) –poster presentation-**Understanding the mechanisms of beta-catenin in cancer and stem cell biology**
- 6) National Conference (seceg-2017) - poster presentation-**Discovery of natural product-based small molecule inhibitor against GSK3 beta, an anticancer target**

#### **M.Sc:**

1. **CHASCON (CHANDIGARH SCIENCE CONGRESS) 2016-POSTER PRESENTATION-KITCHEN WASTE COMPOSTING; SUSTAINABLE APPROACH TO REDUCE LOAD ON LANDFILL SITE**
2. **CHASCON 2015-POSTER PRESENTATION –COMPOSTING LEAVES: AS SOIL AMENDMENT A CONDITIONER (GOT 1<sup>ST</sup> PRIZE)**
3. **HANDS-ON TRAINING WORKSHOP ON APICULTURE OPERATIONS**
4. **POSTER PRESENTATION 2016 CREST-EFFECT OF LIGHT ON MARINE BIOME (GOT 1<sup>ST</sup> PRIZE)**
5. **CAREER OPPORTUNITIES IN DEFENCE RESEARCH UNDER RUSA SCHEME (2015)**

#### **B.Sc:**

1. **ADVANCED DIPLOMA IN SOFTWARE TECHNOLOGY (2012-2013) UNDER DOEACC INSTITUTE(NIELIT)**
2. **FUNDAMENTALS OF JAVA PROGRAMMING LANGUAGE-SL110(ICT112) UNDER SECTOR INFORMATION & COMMUNICATION TECHNOLOGY (**NATIONAL CERTIFICATE IN MODULAR EMPLOYEE SKILLS**)**

#### **HIGHER SECONDARY**

1. **CERTIFICATE COURSE IN MS OFFICE CONDUCTED BY RASHTRIYA COMPUTER SAKSHARTA ABHIYAN SANSTHA**

**10<sup>TH</sup>**

2. **CERTIFICATE OF QUIZ COMPETITION(WINNER)**
3. **CERTIFICATE OF DEBATE COMPETITION(WINNER)**

#### **WORK EXPERIENCE**

I have performed the following techniques and procedures in the laboratory:

- Cell Culture
- Transfection
- SDS PAGE

- Reporter Assay
- Kinase Assay
- Primer Designing
- Gene Cloning
- Western blotting
- Agarose gel electrophoresis
- Plasmid Isolation by Mini Prep method
- Transformation
- Proficient with computer literature such as MS Office and Internet

**PERSONNEL INFORMATION:**

<b>Date Of Birth</b>	20/05/1992
<b>Sex</b>	Female
<b>Nationality</b>	Indian
<b>Father's Name</b>	Lt. MOHD AKBAR
<b>Languages Known</b>	English, Hindi, Ladakhi

**Declaration:**

I hereby declare that the information given above is true to the best of my knowledge.

**(Dr. NASIMA BANO)**