

## DR. NIDA JAMIL KHAN

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### PROFESSIONAL SUMMARY

- Doctorate in Biosciences with **13 years** of experience in teaching Under Graduate and Post Graduate students coupled with research/ development and publication.
- I am an educational professional and avid researcher driven to inspire students to achieve personal and academic success. Strive to create a challenging and engaging learning environment which students to become lifelong scholars and learners. Promote and adopt innovative teaching methods specialized to teach subjects like Animal Physiology, Cell Biology and Techniques in Biology. Strive for interdisciplinary research in collaboration with industry and institutes of repute.

### AREAS OF EXPERTISE

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|--------------------------|-------------------------------------|----------------------------|
| □ Student Supervision    | □ Paper Presentation & Publications | □ Cancer Biology Research  |
| □ Theory & Practice      | □ Research and Development          | □ Molecular Genetics       |
| □ Student Motivation     | □ Creative Learning Environment     | □ Cell Biology             |
| □ Student Management     | □ Administrative Skills             | □ Teaching Management      |
| □ Curriculum Development | □ Progress & Performance Management | □ Creative Lesson Planning |
| □ Training & Mentoring   |                                     | □ Project Management       |

### EDUCATIONAL ACHIEVEMENTS

- Recipient of Gold Medal in SSC Examination from AMU -1994
- Track record in receiving DBT Scholarship from AMU for the session 2000 -2002
- Successfully Cleared NET & GATE Examination in 2002
- Secured 3<sup>rd</sup> position in M. Sc (Bio-Tech) in 2002

### CAREER TIMELINE

<b>Associate Professor</b> Jamia Millia Islamia University	<b>Feb 2022 - Present</b>
<b>Assistant Professor</b> Jamia Millia Islamia University	<b>Feb 2009 - Feb 2022</b>
<b>Research Assistant</b> Department of Lab Medicine, AIIMS	<b>Feb 2004 -Aug 2004</b>

### PROFESSIONAL DOSSIER

- Contribution to corporate life and management of the department and institution:
  - **CBCS Advisor** for postgraduate programme (2015-2019 )
  - **Students Advisor** (2016-2021)
- M. Sc Dissertation supervised: 27
- Teaching and guiding **PhD Student** that includes:
  1. Mohd. Asad(Awarded degree)  
Topic: “Characterization of Novel Drug Targets Against Plasmodium falciparum”
  2. Tabassum Siddiqui( Awarded degree)  
Topic: “Biosynthesis and characterization of TiO<sub>2</sub> nanoparticles using cyanobacteria and evaluation of its bioactivity”
  3. Haleema Naaz (Awarded degree)  
Topic: “ Role of salicylic acid in pesticide resistance in cyanobacteria”
  4. Mohd Ismail Rehmanji(Awarded degree)
  5. Topic: “Enrichment of Long Chain Polyunsaturated Fatty Acids (LC-PUFAs) in Marine Microalgae - An Alternative for Nutraceutical Applications”

6. Rafat Ali(pursuing)

Topic: “ Integrated analysis of genomic alterations/profiling in breast cancer and proposing drug targets”

## EDUCATION DOSSIER

- ❑ **PhD in Biosciences** from Jamia Millia Islamia, New Delhi-25, 2009
  - Thesis title: ‘Methylation and Expression of FHIT gene in Indian female breast cancer patients.’
- ❑ **Master of Science in Bio-Technology-2002**, AMU (Aligarh Muslim University), India
  - Master of Science Dissertation: “*Binding of Bilirubin to different Mammalian Albumins and its effect on photochemical reactions*”.
- ❑ **Bachelor of Science (Hons) in Bio Chemistry -2000**, 1<sup>st</sup> Div(77%), AMU(Aligarh Muslim University), India

## PROFESSIONAL ACCREDITATIONS

- ❑ Orientation Programme: 93rd four week Orientation Programme organized by UGCASC, Jamia Millia Islamia, New Delhi (20th July-16th August, 2010).
- ❑ Refresher Programme: 3rd three week Refresher Course in Basic Sciences (9th May -30th May, 2013)
- ❑ Training Programme: Completed a four week (28th Nov 2016-25th Dec 2016) training on “ Expression profiling of p53 gene using Real Time PCR” at Allele Life Sciences Pvt. Ltd. Noida

## PUBLICATIONS

- ❑ Tayyab S, Khan N J, Khan M A ,Kumar Y. Behavior of various mammalian albumins towards bilirubin binding and photochemical properties of different bilirubin-albumin complexes. *Int.J Biological Macromolecules*.2003;31(4-5):187-193
- ❑ Shahid M, Dhillon VS, Hussain Z, Masa JF, Aslam M, Raish M, Ahmad A, Khan NJ, Prasad S, Batra S, Pasha ST, Husain SA. Analysis of the SRY gene in two sex-reversed XY sisters identifies two new novel point mutations in the high mobility group box domain. *Fertility and Sterility*.2008;90(4):1199.e1-8
- ❑ Naqvi RA, Hussain A, Raish M, Noor A, Shahid M, Sarin R, Kukreti H, Khan NJ, Ahmad S, Vs Deo S, Husain SA, Pasha ST, Basir SF, Shukla NK. Specific 5’CpG island methylation signatures of FHIT and p16 genes and their potential diagnostic relevance in Indian breast cancer patients. *DNA and Cell Biology*.2008; 27:1-10
- ❑ Thakur V, Asad M, Jain S, Hossain ME, Gupta A, Kaur I, Rathore S, Ali S, Khan NJ, Mohammed A. Eps15 homology domain containing protein of Plasmodium falciparum (PfEHD) associates with endocytosis and vesicular trafficking towards neutral lipid storage site. *BBA*.2015; 1853(11):2856-28
- ❑ Khan NJ. Plantibodies, providing an end to the quest for a safe immunotherapeutic approach for the treatment of cancer. *JETIR*.2018;5(12): 511-512.
- ❑ Naaz H, Khan NJ and Fatma T. Role of Salicylic Acid in Mitigation of Pesticide Toxicity in Cyanobacteria. *Algae and Sustainable Technologies*, 271-280. Oct 2020.
- ❑ Sultan A , Ali R , Sultan T , Ali S , Khan NJ , Parganiha A. Circadian clock modulating small molecules repurposing as inhibitors of SARS-CoV-2 M pro for pharmacological interventions in COVID-19 pandemic. *Chronobiol Int* 2021.6:1-15.
- ❑ Naaz H, Yasin D, Afzal B, Sami N, Khan NJ, Fatma T. Exogenous salicylic acid-mediated cyanobacterial herbicide (Paraquat) resistance in paddy field cyanobacterial biofertilizer *Microchaete* sp. NCCU- 342. *Environ. Sci. Pollut. Res Int*. 2021 Jul 20. doi: 10.1007/s11356-021-15378-0. Online ahead of print.
- ❑ Afzal B, Naaz H, Sami N, Yasin D, Khan NJ, Fatma T. Mitigative effect of biosynthesized SeNPs on cyanobacteria under paraquat toxicity. *Chemosphere*, 2022 Jan 10; 293:133562. doi:10.1016/j.chemosphere.2022.133562. Online ahead of print.
- ❑ Siddiqui T , Khan NJ , Asif N, Ahamad I , Yasin D, Fatma T. Screening, characterisation and bioactivities of green fabricated TiO<sub>2</sub> NP via cyanobacterial extract. *Environ Sci Pollut Res Int*. 2022 Jan 31. doi: 10.1007/s11356-021-17639-4. Online ahead of print.

- ❑ Rehmanji M, Singh R, Nesamma AA ,Khan NJ , Fatma T , Narula A , Jutur PP. Multifaceted applications of microalgal biomass valorization to enriched biorenewables, a review of futuristic biorefinery paradigm. Bioresource Technology Reports.2022 1st Feb ,17:1-13.
- ❑ Siddiqui T,Khan NJ and Fatma T. Green Synthesis of Titanium Dioxide Nanoparticles and Their Applications, Sustainable Nanotechnology: Strategies, Products, and Applications, 135-142,04 March 2022.
- ❑ Rehmanji M, Kumar A, Nesamma AA , Khan NJ , Fatma T , Jutur PP. Elucidation of Functional Genes Associated with Long Chain-Polyunsaturated Fatty Acids (LC-PUFAs) Metabolism in Oleaginous Diatom *Phaeodactylum tricornutum*. Hydrobiology 2022 Oct, 1, 451–468. <https://doi.org/10.3390/hydrobiology1040027>.
- ❑ Ali R , Sultan A, Ishrat R , Haque S , Khan NJ ,Prieto MA. Identification of New Key Genes and Their Association with Breast Cancer Occurrence and Poor Survival Using In Silico and In Vitro Methods. Biomedicines 2023 April. 11, 1271. <https://doi.org/10.3390/biomedicines11051271>.
- ❑ Ali R, Laskar SA , Khan NJ ,Wahab S, Khalid M. Non-coding RNA's prevalence as biomarkers for prognostic, diagnostic, and clinical utility in breast cancer.Functional & Integrative Genomics,2023,June. 23:195 <https://doi.org/10.1007/s10142-023-01123-y>.

#### POSTER PRESENTATION

- ❑ Tayyab S, Khan N J,Khan M A ,Kumar Y. Behavior of various mammalian albumins towards bilirubin binding and photochemical properties of different bilirubin-albumin complexes. 9th Asian Pacific Congress of Clinical Biochemistry, March2002 (New Delhi)
- ❑ Mohd Asad,Nida Jamil Khan, Asif Mohmmed. Lipid salvage and biosynthesis pathways in malaria parasite: Potential targets for drug development. International Conference on Emerging Trends in Biomedical Sciences, March 6-8, 2016, Aligarh Muslim University

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