

CURRICULUM VITAE

DR. NAJEEB ULLAH KHAN

WORK ADDRESS:

Najeeb Ullah Khan (Associate Professor)
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EDUCATION:

Ph.D. **2013 – 2016; Biochemistry and Molecular Biology**, Graduate School of Chinese Academy of Agriculture Sciences, Beijing, China (CAAS).

***Thesis title:** Elucidating the molecular mechanism of elicitor proteins to enhance disease resistance (biopesticides as a vaccine)*

M.Phil. **2010 – 2012; Biotechnology**, Institute of Biotechnology and Genetic Engineering, The University of Agriculture Peshawar, Pakistan.

***Thesis title:** Response rate of interferon-based therapies among chronic hepatitis C patients in Khyber Pakhtunkhwa.*

B.Sc. (Hons) **2006 – 2009; Biotechnology**, Institute of Biotechnology and Genetic Engineering, The University of Agriculture, Peshawar, Pakistan.

***Internship Report:** Prevalence of HBV and HCV in the blood donors of the Khyber Pakhtunkhwa population*

EMPLOYMENT:

Associate Professor: November 2025 – To date; Institute of Biotechnology and Genetic Engineering, UAP, KP, Pakistan.

Assistant Professor: November 2017 – July 2023; Institute of Biotechnology and Genetic Engineering (**Health Division**), UAP, KP, Pakistan.

Lecturer: 2013 – 2017; Institute of Biotechnology and Genetic Engineering (**Health Division**) UAP, KP, Pakistan

AWARDS & HONORS:

1. Chinese Government Scholarship for PhD (2013-2016).
2. Pakistan Science Foundation travel grant (PSF/P&D/TG-ND/811/2022) to attend an international conference in Dubai.

TEACHING EXPERIENCE & INTERESTS:

Teaching Interests: Biotechnology, Genetics, and Molecular Biology.

Teaching Experience: I have been teaching at the University level since March 2013. Over the years, I have taken on a significant teaching workload, 2-3 courses per semester, each of 03 credit hours, and several students for research supervision, both undergraduate and Postgraduate.

List of major courses taught:

- | | | | |
|--------------|-------------------------|--------------|----------------------|
| 1. IBGE- 502 | Immunology | 6. Micro-502 | Human Physiology |
| 2. IBGE-312 | Principles of Genetics | 7. IBGE-514 | Food Biotechnology |
| 3. IBGE-415 | Molecular Biology | 8. IBGE-601 | Health Biotechnology |
| 4. Micro-313 | Microbial Biotechnology | 9. IBGE-511 | Environmental |
| 5. Micro-313 | Microbial Biotechnology | | Biotechnology |

Teaching Platforms and Applications Used:

- | | |
|---------------|--------------------------|
| 1. Whiteboard | 4. Virtual (Zoom, Google |
| 2. PowerPoint | meet, etc) |
| 3. Multimedia | |

Students supervised and mentored:

Undergraduate = ~ 30

Postgraduate = ~ 25

Doctoral = 02

It is my pleasure to mention that most of my students are pursuing their higher studies in various countries, such as at the University of Polymath, UK, the University of Ohio, USA, Qatar University, and some others in Italy, Australia, China, Singapore, Taiwan, etc.

My teaching philosophy: My teaching philosophy is deeply rooted in my passion for imparting knowledge and fostering academic excellence. Specializing in cancer genetics and biology, I envision a dynamic learning environment for university students in Biotechnology, Genetics, General Biology, and Human Biology. I advocate for interactive, engaging sessions, encouraging active participation and critical thinking. Incorporating real-world examples and interdisciplinary approaches, I aim to inspire curiosity and intellectual growth. Recognizing diverse student needs, mirroring my research on human genetic variability, I employ inclusive teaching practices, valuing varied backgrounds and perspectives. As an Assistant Professor, I am committed to elevating teaching standards through continuous professional development, collaboration, and innovative methodologies, aligning with your institution's goals.

CONFERENCES & SCIENTIFIC MEETINGS:***Conferences, Events, and seminars organized as a chief organizer***

1. Organized World Cancer Day Symposium, at Peshawar University, February 02, 2023
2. Organized IBGE Postgraduate Symposium at IBGE, January 18-19, 2023
3. Organized One day Symposium on Cancer Genetics at IBGE, March 01, 2022
4. Organized One day research thesis idea competition at IBGE, February 12, 2019
5. Organized seminar at IBGE on “How to use CRISPR CAS9 in model animals”
September 16, 2019

RESEARCH SKILLS:***Molecular biology techniques:***

- | | |
|-------------------------------------|----------------------------------|
| ➤ DNA and RNA extraction. | ➤ Pull down & Yeast two hybrid. |
| ➤ Conventional PCR, Real Time PCR. | ➤ 2D Gel, ICT Technique. |
| ➤ Protein extraction & purification | ➤ ELISA. |
| | ➤ Spectrophotometry. |
| | ➤ Basics of Bioinformatics tools |

ADMINISTRATIVE ACTIVITIES:

1. IBGE Health Division Lab In-Charge
2. IBGE departmental Seminar In-charge
3. IBGE Board of Study Member

ACADEMIC SERVICE & SOCIETY

1. Editorial Board Member in Frontiers of Oncology and Cancer Advances
2. Papers reviewed for various national and international journals (Scientific Reports, Frontiers in oncology, Breast cancer: basic and clinical research, PlosOne, PeerJ, etc)
3. Board of Studies member at University of Swabi, Pakistan
4. Postgraduate Thesis reviewed for various Pakistani Universities
5. Postgraduate thesis viva taken at various Pakistani Universities
6. Projects reviewed for various organizations including Higher Education Commission of Pakistan and Pakistan Science Foundation
7. Academic Societies membership (Cancer Genome Consortia etc)