

## **Najeeb Ullah Khan (Ph.D.)**

Assistant Professor

Institute of Biotechnology and Genetic Engineering (**Health division**)

The University of Agriculture Peshawar, Khyber Pakhtunkhwa, Pakistan

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**Permanent address:** House # 163, Professor Colony, The University of Agriculture Peshawar, Khyber Pukhtoonkhwa, Pakistan

### **RESEARCH INTERESTS**

Transcriptional and proteomics regulation of genes/ proteins involved in disease progression and proliferation, Molecular insight of host-pathogens interaction, genetic variation and drug-resistance mechanisms, molecular epidemiology of infectious diseases and cancer.

### **EDUCATION:**

**2013- 2016**

**Ph.D. Biochemistry and Molecular Biology**

Graduate School of Chinese Academy of Agriculture Sciences, Beijing, China (CAAS)

**2010-2012**

**M.Phil. Biotechnology**

Institute of Biotechnology and Genetic Engineering, The University of Agriculture Peshawar, Pakistan

**Grade: A**

**2006-2009**

**B.Sc. (Hons) Biotechnology**

Institute of Biotechnology and Genetic Engineering, The University of Agriculture Peshawar, Pakistan

**Grade: A**

**2003-2005**

**Intermediate. (Pre-medical)**

Government Post Graduate Collage Bannu, Khyber Pakhtunkhwa Pakistan

**Grade: A**

**2000-2002**

**Matriculation (Science)**

Government High School Bhangi Khan Khujari Bannu, Pakistan

**Grade: A**

### **MAJOR SUBJECTS STUDIED/TEACHING:**

- ❖ Animal Biotechnology
- ❖ Plant Biotechnology
- ❖ Environmental Biotechnology
- ❖ Recombinant DNA Technology
- ❖ Immunology
- ❖ Tissue culture
- ❖ Enzymology
- ❖ Research methodology
- ❖ Proteomics
- ❖ Molecular Biology
- ❖ Microbiology
- ❖ Biochemistry
- ❖ Bioinformatics
- ❖ Genetic Engineering
- ❖ Industrial biotechnology
- ❖ Cellular signaling
- ❖ Genomics
- ❖ Stem cells and therapeutics

### **Projects and Students supervision:**

1. Developing miRNA's diagnostic kit as prognostic biomarkers for breast cancer
2. Incidence of B-RAF gene mutation in Papillary thyroid cancer infected individuals of KP Pakistan
3. Incidence and association of interleukin-6 polymorphisms in HCC patients chronically infected with HCV
4. Determining the actual risk factors, incidence and genotypes distribution of HCV in KP-Pakistan
5. Screening of Y-chromosome (micro deletion) in infertile family of genetic disorder
6. Analysis of HCV genotype/s as a high risk factor for Hepatocellular carcinoma development in KPK, Pakistan
7. Determining the Dengue Virus genotypes in the sera collection of patients affected by the 2017 dengue outbreak in Pakistan
8. Development of a diagnostic Kit for the Genotyping of Dengue viruses prevalent in Pakistan
9. Development of reliable and efficient diagnostic kits for the genotypes of Hepatitis C virus prevalent in Khyber Pakhtunkhwa
10. Full-length characterization and comparative genomics of HCV genotypes prevalent in Pakistan
11. Elucidating the molecular mechanism of fungal elicitor MoHrip2-induced disease resistance in rice
12. Response rate of Interferon-based therapies among chronic hepatitis C patients in Khyber Pakhtunkhwa.
13. Prevalence of Hepatitis B in the blood donors of N-W.F.P and FATA regions and the current scenario of HBV Infection in Pakistan
14. Prevalence of active HCV infection among the blood donors of Khyber Pakhtunkhwa and FATA region of Pakistan and evaluation of the screening tests for anti-HCV
15. Prevalence of HCV among the high risk groups in Khyber Pakhtunkhwa
16. Active hepatitis C infection and HCV genotypes prevalent among the IDUs of Khyber Pakhtunkhwa
17. Duplex PCR assay for the detection of Avian Adeno virus and Chicken Anemia virus prevalent in Pakistan

### **PRACTICAL SKILLS:**

DNA, RNA and protein extraction and downstream process, conventional PCR, Real Time PCR, Proteomics techniques (Protein purification, Pull down, Yeast two hybrid, 2D Gel), ICT Technique, ELISA, Spectrophotometer, etc.

## PROFESSIONAL EXPERIENCE:

- 2017- Date**                      **Assistant Professor (TTS-19)**  
Institute of Biotechnology and Genetic Engineering (**Health division**),  
UAP, KP Pakistan
- 2013- 2017**                      **Lecturer (BPS-18)**  
Institute of Biotechnology and Genetic Engineering (**Health division**),  
UAP, KP Pakistan

## RESEARCH PUBLICATIONS:

1. Arnolfo Petruzzello<sup>1</sup>, Giovanna Loquercio<sup>2</sup>, Rocco Sabatino<sup>2</sup>, Daniel Vasile Balaban<sup>3</sup>, **Najeeb Ullah Khan<sup>4</sup>**, Mauro Piccirillo<sup>5</sup>, Luis Rodrigo<sup>6</sup>, Lucia di Capua<sup>2</sup>, Annunziata Guzzo<sup>2</sup>, Francesco Labonia<sup>2</sup>, Gerardo Botti<sup>7</sup>. **Prevalence of Hepatitis C virus genotypes in nine selected European countries: A systematic review.** Journal of Clinical Laboratory Analysis. J Clin Lab Anal. 2019;e22876.
2. **Najeeb Ullah Khan<sup>1\*</sup>**, Ali Zalan<sup>1</sup>, Muhammad Waqas<sup>1</sup>, Saqib Elahi<sup>1</sup>, Iftikhar ud din<sup>2</sup>, Fazle Haq<sup>2</sup> and Qazi Afsar Anwar<sup>3</sup>. **Incidence of Malaria in Khyber Pakhtunkhwa Pakistan - A Meta-Analysis.** 2018, Annals of Review and Research. 3(4): ARR.MS.ID.555619 (2018)
3. Raffaella Romeo, Arnolfo Petruzzello, Eve Isabel Pecheur, Floriana Facchetti, Riccardo Perbellini, Enrico Galmozzi, **Najeeb Ullah Khan**, Lucia Di Capua, Rocco Sabatino, Gerardo Botti, Giovanna Loquercio. **Hepatitis delta virus and hepatocellular carcinoma: an update.** 2018, The Open Virology Journal, DOI: 10.2174/1874357901812010026
4. **Najeeb Ullah Khan<sup>\*1</sup>**, Ali Zalan<sup>1</sup>, Arnolfo Petruzzello<sup>3</sup>, Iftikhar Khan<sup>2</sup>, Fazle Haq<sup>2</sup>, Yousaf Hayat<sup>2</sup>. **Determining the actual prevalence of Hepatitis B in Khyber Pakhtunkhwa-Pakistan– A Meta-analysis.** 2018. The Open Virology Journal, DOI: 10.2174/1874357901812010033
5. **Najeeb Ullah Khan**, Mengjie Liu<sup>1</sup>, Xiufen Yang<sup>1</sup>, Dewen Qiu<sup>1\*</sup>. **Fungal Elicitor MoHrip2 Induces Disease Resistance in Rice Leaves, Triggering Stress-Related Pathways.** PLOS ONE | DOI: 10.1371/ journal.pone.0158112
6. Mengjie Liu, **Najeeb Ullah Khan**, Ningbo Wang, Xiufen Yang, Dewen Qiu. **The Protein Elicitor PevD1 Enhances Resistance to Pathogens and Promotes Growth in Arabidopsis.** International Journal Biological Sciences. 2016, Vol. 12

7. **Najeeb ullah**, Ijaz Ali, Naeem ud din Ahmed, Aqib Iqbal<sup>1</sup>, Iqbal Munir, Latif ur Rehman, Lubna Siddiq, Muti ur Rehman<sup>2</sup>, Sajid Ali<sup>4</sup>, Zahoor Ahmed Swati<sup>1</sup>. **Prevalence of active HCV infection among the blood donors of Khyber Pakhtunkwa and FATA region of Pakistan and evaluation of the screening tests for anti-HCV.** Virology Journal 2011, 8:154.
8. **Najeeb ullah khan**, Lubna Siddique, Ijaz Ali\*, Aqib Iqbal, Iqbal Munir, Farzana Rashid, Sajid Ali, Fazal Raziq, Zahoor Ahmad Swati. 2010. **Prevalence of Hepatitis B in the blood donors of N-W.F.P and FATA regions and the current scenario of HBV Infection in Pakistan.** African Journal of Biotechnology. 9 (37): 6162-6166.
9. Ruqiya Pervaiz 1, Ijaz Ali1, Sajid Ali2, **Najib Ullah Khan1**, Farzana1, Riaz Muhammad 2, Ahmad ur Rehman Saljoqi3, Musharaf Ahmad 4. **Increasing resistance to combination therapy among the chronic HCV 3a infected patients in KPK.** Life Science Journal 2013;10(12s)
10. Ijaz Ali, Lubna Siddique, Latif U Rehman, **Najeeb U Khan**, Aqib Iqbal, Iqbal Munir, Farzana Rashid, Sana U Khan, Safira Attache, Zahoor A Swati, and Mehwish S Aslam. **Prevalence of HCV among the high risk groups in Khyber Pakhtunkhwa.** Virology Journal 2011; 8: 296.
11. Latif ur Rehman1, Ihasn Ullah1, Ijaz Ali1\*, Imtiaz Ali Khan2, Aqib Iqbal1, Sanaullah Khan3, Sher Hayat Khan4, Khaleeq Uz Zaman1, **Najeeb ullah Khan1**, Zahoor Ahmed Swati1, Anila Tariq Jahangiri1. **Active hepatitis C infection and HCV genotypes prevalent among the IDUs of Khyber Pakhtunkhwa.** Virology Journal 2011, 8:327
12. Latif U Rehman, Bakht Sultan, Muhammad A Bhatti, Ijaz Ali, Sana U Khan, Khaleeq U Zaman, Anila T Jahangiri, **Najeeb U Khan**, Aqib Iqbal, Jehan Bakht and Zahoor A Swati. **Duplex PCR assay for the detection of Avian Adeno virus and Chicken Anemia virus prevalent in Pakistan.** Virology Journal 2011, 8:440

#### **PERSONAL QUALITIES:**

- Excellent verbal and written communication skills.
- A positive attitude and friendly personality.
- Ability to attend seminars and conferences.
- Ability to manage change and conflicts.

- Skills in organizing, planning and good time management
- Ability to survive in different communities and diverse cultural areas.

#### **LANGUAGES:**

- English (Good at reading, writing, listening and speaking)
- Urdu (Good at reading, writing, listening and speaking)
- Pashto (Good at reading, writing, listening and speaking)
- Chinese (Preliminary course)

#### **References**

1. Prof. Dr. Qiu Dewen, CAAS, Beijing, China (PhD Supervisor)  
**Email:** qiudewen@caas.cn                      **Mobile:** +86-13520642805
2. Dr. Ijaz Ali, COMSAT, Islamabad, Pakistan (MPhil Supervisor)  
**Email:** ijazcas@gmail.com                      **Mobile:** +92-3319378337
3. Prof. Dr. Sohail Ahmad, IBGE, UAP, Peshawar (Professor and Colleague)  
**Email:** talhasohail71@yahoo.com                      **Mobile:** +92-3339259703