

# Dilawar Khan

Assistant Professor

Atta-Ur-Rahman School of Applied Biosciences

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## About

Dr. Dilawar Khan is working as Assistant Professor in the Atta-Ur-Rahman School of Applied Biosciences. Dr. Dilawar Khan has a PhD in Cancer Biology/Cancer Stem Cells & Signaling/Biotech/Molecular Bio. Dr. Dilawar Khan has published 16 research articles & conference papers having a citation count of 60, carried out 3 projects and filed 0 intellectual property.

## Qualifications

<b>PhD in Cancer Biology/Cancer Stem Cells &amp; Signaling/Biotech/Molecular Bio</b> Johann Wolfgang Goethe Universität Frankfurt am Main , Germany	2012 - 2016
<b>MPhil in Molecular Biology/Human Molecular Genetics</b> Quaid-i-Azam University , Pakistan	2006 - 2008
<b>BS in Biotechnology</b> University of Peshawar , Pakistan	2001 - 2005

## Experience

<b>Assistant Professor</b> Atta-Ur-Rahman School of Applied Biosciences	2021- Present
<b>Assistant Professor</b> Atta-Ur-Rahman School of Applied Biosciences	2018 - 2017
<b>Assistant Professor</b> Atta-Ur-Rahman School of Applied Biosciences	2018 - 2018
<b>Assistant Professor</b> Atta-Ur-Rahman School of Applied Biosciences	2017 - 2018
<b>Post Doc fellow</b> Agha Khan University , CRM, Agha Khan University, Stadium road Karachi	2017 - 2017

## Awards

<b>PhD Scholarship Germaany</b> PhD Scholarship for Germany under HEC 90% Overseas PhD scholarship, Phase II BATCH 3 Rs: 5.5 million	2011
<b>Scholarship</b> Merit Scholarship throughout under graduate studies	
<b>2nd Runner Up prize</b> 2nd Runner Up prize, FICS 2018, NUST	

Research Projects

National Projects

<b>Developing Drugable CRISPR/CAS9 for Treating Beta-Thalassemia and Sickle Cell Anemia</b> Funding Agency: HEC Amount: PKR 159,575,728.00 Status: Approved_inprocess	2021
<b>Role of Imidazole and Phenanthroline Derivatives on The Biology of Leukemic Stem Cells</b> Funding Agency: HEC Amount: PKR 12,019,000.00 Status: Approved_inprocess	2022
<b>Molecular Targeting of AXL Receptor Tyrosine Kinase in Acute Promyelocytic Leukemia</b> Funding Agency: Higher Education Commission of Pakistan Amount: PKR 499,000.00 Status: Completed	2018

International Projects

Research Articles

<b>Zapotin mitigates breast cancer progression by targeting PKCε mediated glycolytic pathway regulation</b> <i>Khushbukhat Khan Maryam Anwar Yasmin Badshah Naeem Mahmood Ashraf Arslan Hamid Janeen H. Trembley Maria Shabbir Tayyaba Afsar Fohad Mabood Husain Dilawar Khan Suhail Razak</i> <i>BMC Cancer</i> , Volume:25, Issue:1, Article Number 798 Impact Factor: 3.400   Quartile: 2 DOI: <a href="https://doi.org/10.1186/s12885-025-14202-z">https://doi.org/10.1186/s12885-025-14202-z</a>	2025
<b>Unravelling the role of PRKCI and key-cancer related genes in breast cancer development and metastasis</b> <i>Hania Shah Khushbukhat Khan Yasmin Badshah Janeen H. Trembley Naeem Mahmood Ashraf Maria Shabbir Suhail Razak Dara Aldisi Tayyaba Afsar Dilawar Khan</i> <i>Discover Oncology</i> , Volume 16, Article Number 350 Impact Factor: 2.800   Quartile: 2 DOI: <a href="https://doi.org/10.1007/s12672-025-02133-x">10.1007/s12672-025-02133-x</a> .	2025
<b>Imidazolium, pyridinium and pyrazinium based ionic liquids with octyl side chains as potential antibacterial agents against multidrug resistant uropathogenic E. coli</b> <i>Sidrah Hafeez Zamar rasool Awan Samia Hafeez Rehan Zafar Paracha Mudassir Iqbal Dilawar Khan Fazal Adnan</i> <i>Heliyon</i> , Volume 10, Issue 22, Article Number e39829 Impact Factor: 3.400   Quartile: 1   Citations: 2 DOI: <a href="https://doi.org/10.1016/j.heliyon.2024.e39829">10.1016/j.heliyon.2024.e39829</a>	2024
<b>Effects of imidazole derivatives on cellular proliferation and apoptosis in myeloid leukemia</b> <i>Bazla Binte Nadeem Aysha Bibi Mudassir Khan Gul Rukh Sajjad Fazal Adnan Zaheer Ahmad Dilawar Khan</i> <i>BMC Cancer</i> , Volume 24, Article Number 1200 Impact Factor: 3.400   Quartile: 2 DOI: <a href="https://doi.org/10.1186/s12885-024-12958-4">10.1186/s12885-024-12958-4</a> .	2024
<b>A nanoformulation of cisplatin with arabinoxylan having enhanced activity against hepatocellular carcinoma through upregulation of apoptotic and necroptotic pathways</b> <i>Sidra Rana Sania Shahid Muhammad Saeed Iqbal Adnan Arshad Dilawar Khan</i> <i>Heliyon</i> , Volume 10, Issue 10, Article Number e31057 Impact Factor: 3.400   Quartile: 1   Citations: 1 DOI: <a href="https://doi.org/10.1016/j.heliyon.2024.e31057">10.1016/j.heliyon.2024.e31057</a>	2024
<b>Activation of signaling pathways in models of t(6;9)-acute myeloid leukemia</b> <i>Claudia Chirichi Dilawar Khan Maria Wieske Nathalie Guillen Michal Rokicki Carol Guy Marieangela Wilson Kate J. Heesom Oliver Gerhard Ottmann Martin Ruthardt</i> <i>Annals of Hematology</i> , Volume 101, Issue 10, Pages 2179-2193 Impact Factor: 4.030   Quartile: 2   Citations: 3 DOI: <a href="https://doi.org/10.1007/s00277-022-04905-9">https://doi.org/10.1007/s00277-022-04905-9</a>	2022

- Prevalence and assessment of associated risk factors of hepatitis B and C infections in low-socioeconomic communities** 2022  
*Aisha Noreen Naik Alam Zainab Syed Aroosa Aftab Farah Shamim Syed Najeebullah Dilawar Khan Salik Javed Kakar Tahir Ahmed Fazal Adnan*  
*Future Virology* , Volume 17, Issue 5, Pages 291-303  
**Impact Factor:** 1.831 | **Quartile:** 3 | **Citations:** 1  
**DOI:** 10.2217/fvl-2021-0060
- Silencing of Curlin Protein via M13 Phagemid-Mediated Synthetic sRNA Expression Reduces Virulence in the Avian Pathogenic E. coli (APEC)** 2022  
*Sayed Abdullah Quratul Ain Amna Jalil Dilawar Khan Arsalan Khan Muhammad Qasim Malik Badshah Fazal Adnan*  
*Current Microbiology* , Volume 79, Article Number: 105  
**Impact Factor:** 2.188 | **Quartile:** 4  
**DOI:** <https://doi.org/10.1007/s00284-022-02791-y>
- AXL Receptor Tyrosine Kinase: A Possible Therapeutic Target in Acute Promyelocytic Leukemia** 2021  
*Mariam Fatima Salik Javed Kakar Fazal Adnan Khalid Khan Afsar Ali Mian Dilawar Khan*  
*BMC Cancer* , Volume 21, Article Number 713  
**Impact Factor:** 4.430 | **Quartile:** 2 | **Citations:** 4  
**DOI:** 10.1186/s12885-021-08450-y
- A short review on key role of plants and their extracts in boosting up immune response to combat COVID-19** 2021  
*Mudassir Khan Muhammad Abubakar Sadique Huzaiifa Tahir Muhammad Dawood Amjad Abdullah Ahmad Usama Masood Dilawar Khan*  
*Infectious Disorders Drug Targets* , Pages 1-8  
**Impact Factor:** N/A | **Citations:** 2  
**DOI:** 10.2174/1871526521666210527091939
- In Silico Identification of Novel Acute Myeloid Leukemia Associated Missense SNPs in Human CEBPA Gene** 2020  
*Mudassir Khan Mehran Akhtar Maharij Haroon Jadoon Dilawar Khan*  
*Abasyn Journal of Life Sciences* , Volume 3, Issue 2, Pages 10-24  
**Impact Factor:** 0  
**DOI:** 10.34091/AJLS.3.2.2
- Insights into Acute Myeloid Leukemia: Critical Analysis on its Wide Aspects** 2020  
*Mudassir Khan Misbahud Din Zerbab Naeem Zahra Sajid Dilawar Khan Muhammad Dawood Amjad Aurang Zeb Faheem Anwar Mehran Akhtar Sana Noreen*  
*Abasyn Journal of Life Sciences* , Volume 3 Issue 2, Pages 1-9  
**Impact Factor:** 0  
**DOI:** 10.34091/AJLS.3.2.1
- 5-Lipoxygenase Is a Candidate Target for Therapeutic Management of Stem Cell-like Cells in Acute Myeloid Leukemia** 2014  
*Jessica Roos Claudia Oancea Maria Heinssmann Dilawar Khan Hannelore Held Astrid S. Kahnt Ricardo Capelo Estel la Buscato Ewgenij Proschak Elena Puccetti Dieter Steinhilbe Ingrid Fleming Thorsten J. Maier Martin Ruthardt*  
*Cancer Research* , Volume 74, Issue 18, Pages 5244-5255  
**Impact Factor:** 9.329 | **Quartile:** 1 | **Citations:** 47  
**DOI:** 10.1158/0008-5472.CAN-13-3012

## Conference Proceedings

- ANTIBIOTICS; A POSSIBLE ALTERNATE TREATMENT OPTION FOR MYELOID LEUKEMIA** 2023  
*Syeda Maham Saba Naseem Awan Fazal Adnan Salik Javed Kakar Afsar Ali Mian Dilawar Khan*  
*European Hematology association congress 2023* , res.country(57,)  
**Citations:** N/A  
**DOI:** 10.1097/01.HS9.0000974192.13131.11
- Induction of Fetal Hemoglobin by Targeted Deletion of Zinc Finger Domain Within BCL11A Gene using CRISPR-CAS9 Technology** 2023  
*Irfan Hussain Kainaat Mumtaz Fizza Iftikhar Safana Farooq Syed Muhammad Areeb Ahmed Dilawar Khan Hammad Hass Oliver Ottmann Afsar Ali Mian*  
*European Hematology association congress 2023* , res.country(57,)  
**Citations:** N/A  
**DOI:** 10.1097/01.HS9.0000972724.72476.9c

### **Biomarkers in Tumor Recurrence and Metastasis**

2022

*Dilawar Khan Mudassir Khan*

In: *Book on Cancer Biomarkers in Diagnosis and Therapeutics*, 1st Edition, Chapter 8, Pages 201-227

**Citations:** N/A

**DOI:** 10.1007/978-981-16-5759-7\_8