

Muhammad Umar

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About me:

A well trained senior Researcher with over four years of experience at Cell Biology and Genetics lab Abdul Wali khan University Mardan. Possessing excellent technical writing skills along with more than 7 Publications. Having expertise in several research areas such as Diabetes, Inflammation, Genetics, Biodiversity Conservation, Green synthesis its characterizations and Congenital diseases.

EDUCATION AND TRAINING

2021 – 2022 – kp, Pakistan

Mphil Zoology – Abdul Wali khan University Mardan

2016 – 2020 – kp, Pakistan

BS Zoology – Abdul Wali khan University Mardan

2014 – 2016 – Peshawar, Pakistan

HSSC (Pre-medical) – Board of Intermediate & Secondary Education Peshawar

2012 – 2014 – Peshawar, Pakistan

SSC (Science) – Board of Intermediate & Secondary Education Peshawar

WORK EXPERIENCE

March 2019 – December 2022 – Peshawar, Pakistan

Cell Biology and Genetics lab – Abdul Wali khan University Mardan

- worked in molecular and Histopathology laboratory.
- Operated Spectrophotometer, Centrifuge.
- Mice dissection and organ isolation.
- Slide preparation.
- DNA extraction.

PUBLICATIONS

1. [Green synthesis and characterization of silver nanoparticles using Azadirachta indica seeds extract: in vitro and in vivo evaluation of antidiabetic activity](#)
2. [Impacts of mining on local fauna biodiversity of District Mohmand and Mardan ,kp, Pakistan](#)
3. [Biosynthesis, characterization and Evaluation of anti-inflammatory Potentials of Silver Nanoparticles Using Azadirachta indica Seed Aqueous Extract as a Reducing Mediator](#)
4. [Anti-Inflammatory, Anti- Oxidant and Anti-diabetic Activities of Solanum Virginianum L. and Acacia Nilotica \(Linn.\) Leaves fractions](#)
5. [The assessment of Anti-diabetic and Anti- Inflammatory Activities Using crude extract of Acacia nilotica](#)
6. [Preparation of Solanum virginianum \(L.\) and Acacia nilotica \(L.\) leaves extracts and assessment of their Anti-Inflammatory and Anti- Oxidant potentials](#)
7. [Preparation of Methanolic extract using Ficus carica and Evaluation of its Anti-diabetic and Anti- Inflammatory activities](#)

8. Comparative Analysis of Biochemical and Hematological Variations in Chronic Kidney Disease Patients Visiting Tertiary Care Hospital at District Peshawar, KP

9. Allelopathic potentials of Populus nigra (L.) and Persicaria hydropiper (L.) against pennisetum glaucum (L.) and Zea mays (L.)

● CERTIFICATIONS

- Two day workshop on “Promoting Research Excellence in Academics across Pakistan”.
- In Silico Drug Designing: “A Novel Approach to Combat Covid-19 Pandemic”.
- “Primer designing using different Bioinformatics tools”.
- “Innovative vaccine development against HCV”.
- "Endnote as a Referencing tool in Research Writings".

● **DIGITAL & LANGUAGE SKILLS**

MS word | MS excel | Power point | Internet skills | Research softwares | chatgpt skills|ChemDraw skills|
Pymol skills| auto dock Vina skills | SPSS Skills | GraphPad Skills

English\B2 | Urdu | Pushto
