

# IBRAR KHAN

## Professor (Tenured)

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Centre of Biotechnology and Microbiology, University of Peshawar  
25120 Peshawar, PAKISTAN Date of Birth: March 1984  
<https://www.linkedin.com/in/ibrar-khan-8008aa17a/>  
<https://www.youtube.com/channel/UCC6pRypnE2YrUHD8CC5V3YA>  
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<http://www.uop.edu.pk/departments/Teaching-Faculty/?r=180&q=Dr-Ibrar-Khan>



## EXPERIENCE

### Professor

#### University of Peshawar

Apr 2023 – To date Peshawar

- Teaching and Research

### Director

#### COBAM, University of Peshawar

Sep 2022 – Dec 2022 Peshawar

- Director (Look-after)

### Associate Professor

#### University of Peshawar

Apr 2015 – Apr 2019 Peshawar

- Teaching and Research

### Assistant Professor

#### University of Peshawar

Sep 2012 – Apr 2019 Peshawar

- Teaching and Research

### Lecturer

#### University of Peshawar

Feb 2010 – Sep 2012 Peshawar

- Teaching and Research

## PROJECTS

DoST PKR Rs. 0.465m (Completed)

#### Directorate of Science and Technology (DoST)

2014-2015 Peshawar

## RESEARCH FIELDS

- Molecular mechanisms of drug resistance and drug tolerance in pathogenic bacteria.
- Assessment of Herbal Medicine and Natural Products for their Antimicrobial Activities Against Pathogenic Bacteria
- Identification of polyethylene-degrading bacteria from various sources

## AWARDS AND HONORS



BBT (Hons) Scholarship  
2003 – 2006

Scholarship awarded for BBT (Hons) by the University of Peshawar



HEC Indigenous Scholarship  
2007 – 2011

HEC Indigenous Scholarship for M. Phil leading to Ph.D. studies

## RESEARCH EXPERTIES

Antimicrobial Susceptibility Pattern

MIC Testing

Isolation of Pathogenic Bacteria

Analytical Profile Indexing

Microscopy

Polymerase Chain Reaction (PCR)

Medicinal Plants

Pathogenic Bacteria

Antimicrobial Activities

Camtasia

Audio & Video Editing

Adobe Photoshop

Graphic Designing

- Bioassay screening and standardization of *Jussia adhatoda*

## HEC-NRPU PKR Rs. 2.55m (Completed) Higher Education Commission (HEC)

📅 2015-2017 📍 Islamabad

- Bioassay screening and standardization of *Pinus wallichiana*

## HEC-NRPU PKR Rs. 5.5m (Completed) Higher Education Commission (HEC)

📅 2019-2021 📍 Islamabad

- Molecular characterization and epidemiology of Extended-Spectrum  $\beta$ -Lactamase (ESBL) and carbapenemase producing *Escherichia coli* and *Klebsiella pneumoniae* from chicken meat in central districts of Khyber Pakhtunkhwa

## HEC-NRPU PKR Rs. 3.035m (Completed) Higher Education Commission (HEC)

📅 2015-2017 📍 Islamabad

- Bioassay screening, standardization & phytochemical investigations of *D. Phodocarpum*

## HEC-NRPU PKR Rs. 7.5m (Completed) Higher Education Commission (HEC)

📅 2017-2020 📍 Islamabad

- Study on biodegradation of polyethylene by microbial strains: a cost-effective remedial approach with commercial prospects

## UNICEF Pakistan (In Progress)

### UNICEF Pakistan

📅 2021–to date 📍 Islamabad

- AI/IoT/Computer vision based kit and app development for fast detection of *E. coli* in drinking water

## LANGUAGES

English ● ● ● ● ●

Urdu ● ● ● ● ●

Pashto ● ● ● ● ●

## EDUCATION

### PhD in Biotechnology

#### University of Peshawar

📅 2007 – 2011 📍 Pakistan

Thesis title: Phytochemical Evaluation, Bioassay Screening and standardization of *Zizyphus Jujuba* and *Acacia Modesta*

Coursework CGPA: 4/4

Supervisor: Prof. Dr. Bashir Ahmad

### BBT (Bachelor of Biotechnology)

#### University of Peshawar

📅 2002 – 2006 📍 Peshawar

Marks: 2901/4225

### FSc in Pre-Medical

#### Islamia College Peshawar

📅 2000 – 2002 📍 Peshawar

Marks: 823/1100

### SSc in Science

#### Islamia College Peshawar

📅 1998 – 2000 📍 Peshawar

Marks: 700/850

## ADMINISTRATION

- Incharge Examination Semester System
- Incharge University Diagnostic Lab, University of Peshawar.
- Coordinator BS Biotechnology Program.
- Member, Board of Studies, Centre of Biotechnology and Microbiology, University of Peshawar

# RESEARCH SUPERVISION

\* HEC and IRTC Approved Supervisor

\* PhD: Completed=05, In Progress=04

1. Sana Farooq: Prevalence of Bacterial Pathogens Causing Nosocomial Infections: With Reference to Identification of Resistant Genes and Drug Designing (2019)

2. Nazish Khan: Green Synthesis of Silver Nanoparticles Using Pinus Wallichiana, Daphne Oleoides and Bidens Chinensis; Evaluation of Their Therapeutics Activities and Impact on DNA (2019)

3. Lalina Maroof: Molecular Characterization of Low-Density Polyethylene Degrading Bacteria from Different Soil Samples (2020)

4. Zainab Liaqat: Characterization of Extended Spectrum Beta Lactamases and Carbapenemase in Escherichia coli and Klebsiella pneumoniae from Chicken (2021)

5. Mohammad Riaz Khan: Molecular Characterization and Epidemiology of Antibiotic Resistance Genes of  $\beta$ -Lactamase Producing Bacterial Pathogens Causing Septicemia from Tertiary Care Hospitals of District Peshawar (2023)

MPhil: Completed= 25, In Progress= 06

1. Amber Siddique: Evaluation of target site modifying genes associated with fluoroquinolone resistance in Escherichia Coli isolated from hospital wastewater and drinking water (2024)

2. Huma Jalil: Evaluation of aminoglycoside-modifying genes and the synergistic effect of vitamins (D, E, K) with Aminoglycosides in Pseudomonas Aeruginosa (2024)

3. Syed Sohail Shah: Prevalence of rotavirus and determination of blood parameters of rotavirus infected children (2024)



4. Abida Akbar: Mutational analysis of efflux pumps in clinical isolates of Acinetobacter Baumannii (2024)

- Member, Board of Faculty, Centre of Biotechnology and Microbiology, University of Peshawar
- Member, Advance Studies and Research Board, Faculty of Life and Environmental Sciences, University of Peshawar
- Member, Departmental Technical Review Panel, Centre of Biotechnology and Microbiology, University of Peshawar
- Member, Departmental Technical Review Panel, Department of Botany, University of Peshawar
- Member, Board of Studies, Department of Microbiology, Kohat University of Science and Technology, University of Peshawar
- Member of Board of Studies, Department of Microbiology, University of Swabi
- Member, Graduate Studies Committee, Department of Microbiology, Abasyn University, Peshawar
- Referee, Pakistan Journal of Pharmaceutical Sciences, University of Karachi, Pakistan
- Life Time Member of Pakistan Biological Safety Association, Pakistan


## DIDACTICS

- Human Genetics
- General Genetics
- Cellular Signaling
- Bacterial Genetics
- Medical Biotechnology
- Techniques in Biotechnology

## UDEMY COURSES

- General Genetics (46 Students)  
 [www.udemy.com/course/general-genetics/](https://www.udemy.com/course/general-genetics/)
- Cell signaling; Communication at the Molecular Level (11 Students)  
 [www.udemy.com/course/cell-signaling-how-our-body-cells-coordinates/](https://www.udemy.com/course/cell-signaling-how-our-body-cells-coordinates/)

5. Aqsa Zafar: Mutational Analysis of Efflux Pumps Genes in Clinical Isolates of Staphylococcus aureus (2022)
6. Sonia Quddus: Antibiotic Susceptibility Pattern and Identification of Efflux Pump Responsible for Antibiotic Resistance in Pseudomonas aeruginosa from Clinical Samples (2022)
7. Shakir Ullah: Mutation Analysis of Efflux Pump Genes in Clinical Isolates of Citrobacter freundii (2022)
8. Qurat Ul Ain Ali: Standardization of Elwendia Persica for the treatment of Bacterial Upper Respiratory Tract Infections (2021)
9. Khadija Shams: Antibiotic Susceptibility Pattern and Identification of Genes Responsible for Antibiotic Resistance in Kluyvera ascorbata from Chicken Meat (2021)
10. Hamid Ullah: Assessment of Mutation in Gyrase A and B Genes of Pseudomonas aeruginosa Isolated from Post-Operative Wound Samples of Tertiary Care Hospitals, Peshawar (2020)
11. Salman Rasheed: Molecular Characterization of Extended Spectrum Beta Lactamases and Carbapenamase Producing Escherichia coli from Chicken Meat (2020)
12. Saman Ijaz: Multidrug, Extensively Drug and Pan-Drug Resistant Bacteria in Chronic Suppurative Otitis Media (2020)
13. Iqra Zeb: Evaluation and Mutational Analysis of Pad14 Gene in Rheumatoid Arthritis Patients (2020)
14. Abid Khan: Distribution, Mutational Analysis and Antibiotic Profiling of Shiga Toxigenic Escherichia coli from Human and Cattle Feaces (2020)
15. Asaf Ali Khan: Multi-Drug Resistance in Gram-Negative Bacteria Causing Nosocomial Infections in Tertiary Care Hospitals at Peshawar (2019)
16. Farhan Ullah: Mutational Analysis of Tyr Gene Causing Oculocutaneous Albinism in Families from District Peshawar (2019)
17. Muhammad Ayaz: Cloning, Expression and Characterization of Recombinant Human Interleukin-15 (2019)
18. Faiza Rashid: Prevalence, Antibiotic Susceptibility Pattern and Identification of Gene(S)

- Human Genetics and Inheritance (07 Students)  
 [www.udemy.com/course/human-genetics/](https://www.udemy.com/course/human-genetics/)

## INVITED LECTURES

Writing a compelling grant to fund your research

**Sarhad University of Science and Information Technology**

 November 20, 2020  Peshawar

Diagnostic and Research Lab

**Shaheed Benazir Bhutto Women University**

 December 19, 2020  Peshawar

Sickle Cell Anemia; Non-treatable but Preventive disease

**Dosti Welfare Organization, Peshawar**

 October 1, 2021  Peshawar

## SELECTED CONFERENCES

Training of Trainers Workshop

**Pakistan Biological Safety Association and Fogarty, National Institute of Health**

 USA

Master Trainer Workshop

**Pakistan Biological Safety Association and Fogarty, National Institute of Health**

 USA

2<sup>nd</sup> International conference on Biotechnology: Challenges and Opportunities

**Pakistan Biological Safety Association**

 Pakistan

Research Patenting

**Directorate of Science and Technology, Government of KhyberPukhtunkhwa**

Responsible for Antibiotic Resistance in Diabetic Foot Patients (2019)

19. Muhammad Riaz: Study on Multidrug, Extensive Drug and Pan Drug Resistance in Septicemic Infants (2018)
20. Rizwan Ullah: Seroprevalence, Serological Diagnostic Methods and Associated Risk Factors of Toxoplasma gondii (2018)
21. Mohammad Riaz Khan: Seroprevalence of Dengue Virus and its Effects on Blood Cells in Clinical Samples of Tertiary Care Hospitals in Affected Districts of Khyber Pakhtunkhwa (2018)
22. Naveed Sarwar: Prevalence and Antibiotic Susceptibility Pattern of Pathogenic Bacteria Responsible for Wound Infection in Khyber Teaching Hospital, Peshawar, Pakistan (2016)
23. Zainab Liaqat: Isolation and Identification of Pathogenic Bacteria from Drinking Water of Different Areas of Peshawar (2016)
24. Rahila Anjum: Bacteriological Profile of Drinking Water in Selected Area of District Swabi (2014)
25. Muhammad Amir Khan: Biological and Phytochemical Investigations of Ariel Parts of Ajuga bracteosa (2014)

📍 Pakistan

1<sup>st</sup> Regional General Public Science and Technology, Model Competition

**Pakistan Forest Institute, Peshawar**

📍 Pakistan

Training of Trainers in Plant Biodiversity

**Higher Education Commission and University of Peshawar Botanical Garden**

📍 Pakistan

6 advance modules in the Biologic Risk Mitigation, Virtual Leadership Program in Pakistan

**The Pakistan Biological Safety Association (PBSA), Fogarty International centre and Safer Behaviors**

📍 Pakistan

## REFEREES

**Dr. Sumera Afzal**

@ shumakhan@gmail.com

✉ Associate Professor/Director, Centre of Biotechnology & Microbiology, University of Peshawar

**Prof. Dr. Noor Muhammad**

@ noormwazir@yahoo.com

✉ Chairman, Department of Biotechnology and Genetic Engineering, Kohat University of Science and Technology, Kohat, Pakistan

**Dr. Sadiq Azam**

@ drazam@uop.edu.pk

✉ Associate Professor, Centre of Biotechnology & Microbiology, University of Peshawar



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## PUBLICATIONS

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\* Articles = 56, \* IF  $\approx$  76, \* Citations = 790, \* h-index = 15, \* i10-index = 24

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1. Hamid A, Zermina Z, Sadiq A, **Ibrar K**, Muhammad AK, Noor R, RiazUllah, Ijaz A. Diversity of Extraintestinal Pathogenic Escherichia coli in relation To Adhesin Genes and their Antimicrobial Analysis, *Frontiers in Pharmacology (Sec. Pharmacology of Infectious Diseases)* 14 (23) **2024**.  
 <https://doi.org/10.3389/fphar.2023.1323272>
2. Sonia Q, Zainab L, Sadiq A, Mahboob UH, Sajjad A, Metab A, **Ibrar K**, Identification of Efflux Pump Mutations in Pseudomonas aeruginosa from Clinical Samples, *Antibiotics*, 12(3), 486, **2023**.  
 <https://doi.org/10.3390/antibiotics12030486>
3. Mohammad RK, Sadiq A, Sajjad A, Qaisar A, Zainab L, Noor R, **Ibrar K**, Metab A, Abdulrahman A. Molecular Characterization and Epidemiology of Antibiotic Resistance Genes of  $\beta$ -Lactamase Producing Bacterial Pathogens Causing Septicemia from Tertiary Care Hospitals of District Peshawar. *Antibiotics*. 12, 617, **2023**.  
 <https://doi.org/10.3390/antibiotics12030617>
4. Lalina M, **Ibrar K**, Hamid H, Sadiq A, Waris K. Microbial degradation of low-density polyethylene by Exiguobacterium sp. strain LM-IK2 isolated from plastic dumped soil. *World Journal of Microbiology and Biotechnology*. 22;38(11):197, **2022**.  
 <https://doi.org/10.1007/s11274-022-03389-z>
5. Zainab L, **Ibrar K**, Sadiq A, Yasir A, Eman HA, Lalina M. Isolation and Molecular Characterization of Extended Spectrum Beta Lactamase Producing Escherichia coli from Chicken Meat in Pakistan. *PLOS ONE*. 3;17(6): e0269194. **2022**.  
 <https://doi.org/10.1371/journal.pone.0269194>
6. Zainab L, **Ibrar K**, Sadiq A, Hamid AK, Midrar U, Noor R. Extended Spectrum Beta Lactamases-Producing Escherichia coli in Retail Chicken Meat. *Saudi Journal of Biological Sciences*. 29(6):103280, **2022**.  
 <https://doi.org/10.1016/j.sjbs.2022.103280>
7. Sadiq A, Nauman K, **Ibrar K**, Muhammad A, Amjad A, Azam H, Gul S, Anila F, Noor R. Molecular characterization and mutational analysis of fluroquinolones and tetracycline resistant genes of Escherichia coli isolated from UTIs patients. *Brazilian Archives of Biology and Technology*. 65: e22210199. **2022**.  
 <https://doi.org/10.1590/1678-4324-2022210199>
8. Muhammad A, Naheed, Aakash AK, Sadiq A, Noor R, **Ibrar K**, Gul S, Anila F. Bacterial profile and antimicrobial susceptibility pattern of aerobic vaginal pathogens in gynae patients visiting to Khyber Teaching hospital Peshawar. *Journal of Gandhara Medical and Dental Sciences*. 8(4): 48-54. **2021**.  
 <https://doi.org/10.37762/jgmds.8-4.258>
9. Noor R, Sadiq A, Amjad A, **Ibrar K**, Muhammad A, Momena A, Muhammad W, Farman U, Gul e Sehra. Molecular epidemiology of antibiotic resistant genes and potent inhibitors against TEM, CTX-M-14, CTX-M-15 and SHV-1 proteins of Escherichia coli in district Peshawar, Pakistan. *Saudi Journal of Biological Sciences*. 28(11):6568-6581. **2021**.  
 <https://doi.org/10.1016/j.sjbs.2021.07.028>
10. Nazish K, **Ibrar K**, Sadiq A, Farhan A, Hamid AK, Asma S, Midrar U. Potential cytotoxic and mutagenic effect of Pinus wallichiana, Daphne oleiodes and Bidens chinensis. *Saudi Journal of Biological Sciences*. 28: 4793-4799. **2021**.  
 <https://doi.org/10.1016/j.sjbs.2021.05.005>

11. Hira M, Jehan B, **Ibrar K**, Bashir A. Antimicrobial efficacy and prevalence of colicinogenic *E. coli* in faecal matter of human, cow and sheep. *International Journal of Antimicrobial Agents*. 57 (1): 106221. **2021**.  
 <https://doi.org/10.1016/j.ijantimicag.2020.106221>
12. Zermína Z, Sadiq A, Noor R, **Ibrar K**, Sumera A, Gul-e-Sehra, Anhar Ullah, Muhammad A. Phenotypic and molecular characterization of virulence factors of extra-intestinal pathogenic *Escherichia coli* isolated from patients of Peshawar, Pakistan. *Pakistan Journal of Pharmaceutical Sciences*. 34 (1): 085-094. **2021**.  
 [doi.org/10.36721/PJPS.2021.34.1.REG.085-094.1](https://doi.org/10.36721/PJPS.2021.34.1.REG.085-094.1)
13. **Ibrar K**, Mamooná J, Rameen N, Akhtar N, Sadiq A, Inam U, Farhan A. Green synthesis, characterization and biological evaluation of zinc nanoparticles from flower extract of *brassica oleracea italica*. *Pakistan Journal of Botany*. 53(1): 281-286. **2021**.  
 [https://doi.org/10.30848/pjb2021-1\(40\)](https://doi.org/10.30848/pjb2021-1(40))
14. Lalina M, **Ibrar K**, Han SY, Suji K, Hong-Tae P, Bashir A, Sadiq A. Identification and characterization of low density polyethylene-degrading bacteria isolated from soils of waste disposal sites. *Environmental Engineering Research*. 26(3): 200167. **2021**.  
 <https://doi.org/10.4491/eer.2020.167>
15. Noor R, Sadiq A, Amjad A, **Ibrar K**, Muhammad A, Muhammad W, Farman Ullah, Zermína Z, Gul-e-Sehra, Muhammad A. Designing of potent inhibitors for metallo-beta-lactamases producing *Escherichia coli* in molecular specification hereto. *Pakistan Journal of Pharmaceutical Sciences*. 33, 6(Suppl),: 2739-2750. **2020**.  
 [doi.org/10.36721/PJPS.2020.33.6.SUP.2739-2750.1](https://doi.org/10.36721/PJPS.2020.33.6.SUP.2739-2750.1)
16. Nazish K, **Ibrar K**, Akhtar N, Sadiq A, Inam U, Farhan A, Hamid A. Pinus wallichiana synthesized silver nanoparticles as biomedical agents: In-vitro and in-vivo approach. *Green Chemistry Letters and Reviews*. A13 (2): 69–82. **2020**.  
 <https://doi.org/10.1080/17518253.2020.1733105>
17. Farhan U, **Ibrar K**, Sajjad AS, Sadiq A, Shah F, Hashir M. Mutational Analysis of TYR Gene Causing Oculocutaneous Albinism in Families from District Peshawar. *International Journal of Human Genetics*. 19(4): 170-178. **2019**.  
 <https://doi.org/10.31901/24566330.2019/19.04.742>
18. Hira M, Jehan B, **Ibrar K**, Soniya A, Bashir A. Molecular characterization of colicinogenic *E. coli* inhibitory to *E. coli* O157:H7 and *E. coli* O26:H11. *International Journal of Biosciences*. 15 (3): 379-391. **2019**.  
 <http://dx.doi.org/10.12692/ijb/15.3.379-391>
19. SaifUllah K, Bashir A, **Ibrar K**, Shumaila R, Sadiq A, Irfan Ullah. Optimization of growth conditions for the maximum production of secondary metabolites from *Trichoderma harzianum* and their biological activities. *International Journal of Pharmacology*. 15, 351-360. **2019**.  
 <https://doi.org/10.3923/ijp.2019.351.360>
20. **Ibrar K**, Bashir A, Sadiq A, Fida H, Nazish, Aamir A, Noor R. Pharmacological activities of *Justicia adhatoda*. *Pakistan Journal of Pharmaceutical Sciences*. 31(2): 371-377. **2018**.
21. Nazish, **Ibrar K**, Khalid K, Sadiq A, Ikhwan A, Inam Ullah. An insight into in vitro and in vivo pharmacological activities of *Pinus wallichiana*. *Pakistan Journal of Botany*. 50(4): 1487-1497 **2018**.
22. Noor R, Bilal O, Azam H, Sadiq A, Bashir A, **Ibrar K**, Zermína Z. Prevalence of Hepatitis C virus and its risk factors in blood donors in district Peshawar. *Pakistan Journal of Pharmaceutical Sciences*. 31 (1): 083-087, **2018**.
23. Sana FA, **Ibrar K**, Abdul W, Sadiq A, Noor R, Muhammad W, Kashif B, Asaf AK. Pathogens constancy, harbinger of nosocomial infection cum identification of resistant genes and drug designing. *Computational Biology and Chemistry*. 74: 347–359, **2018**.  
 <https://doi.org/10.1016/j.compbiolchem.2018.04.010>

24. **Ibrar K**, Naveed S, Bashir A, Sadiq A, Noor R. Bacteria in wound infection and their antibiotic sensitivity pattern in KTH, Peshawar, Pakistan. *Advancement in life sciences*. 5(1)08-12 **2017**.
25. Aamir A, **Ibrar K**, Sadiq A, Shaista M, Bashir A. Comparative antimicrobial, phytotoxic and haemagglutination potential of Eriobotrya japonica leaves extract & its Zinc nanoparticles. *Pakistan Journal of Botany*. 49(5): 1917-1924, **2017**.
26. Bashir A, Nabia H, Gulshan A, Sadiq A, Shumaila B, **Ibrar K**. Antibacterial activity of crude methanolic extract and various fractions of Vitex agnus castus and M. africana against clinical isolates of Methicillin-Resistant Staphylococcus aureus. *Pakistan Journal of Pharmaceutical Sciences*. 29 (6): 1977-1983, **2016**.
27. Sadiq A, Muhammad SS, Faisal Z, Bashir A, **Ibrar K**, Zermina Z, Imran K. Antibacterial, antifungal, phytotoxic, antioxidant and haemagglutination activities of organic fractions of Arisaema tortuosum. *Pakistan Journal of Pharmaceutical Sciences*. 29 (3): 991-997, **2016**.
28. Bashir A, Farah S, Shumaila B, **Ibrar K**, Sadiq A. Green synthesis, characterization and biological evaluation of AgNPs using Agave americana, Mentha spicata and Mangifera indica aqueous leaves extract. *IET Digital Library*. 10, 1-7. **2016**.  
 <https://doi.org/10.1049/iet-nbt.2015.0053>
29. Bashir A, Nabia H, Shumaila B, Midrarullah, Sadiq A, **Ibrar K**, Sahar N. Comparative analysis of the biological activities of bio-inspired gold nano-particles of phyllanthus emblica fruit and beta vulgaris bagasse with their crude extracts. *Pakistan Journal of Botany*. 47(S1): 139-146, **2015**.
30. Bashir A, Saima N, Sadiq A, **Ibrar K**, Shumaila B, Fida H. Antimicrobial, phytotoxic, haemagglutination, insecticidal and antioxidant activities of the fruits of Sarcococca saligna (d. don) Muel. *Pakistan Journal of Botany*. 47(S1): 313-319, **2015**.
31. Amina R, Shumaila B, Khanzadi FK, Bashir A, **Ibrar K**, Sadiq A, Jamshaid A. Antifungal, antibacterial, phytotoxic and insecticidal activities of Nigella sativa seeds. *Asian Journal of Chemistry*. 27(12): 4591-4594. **2015**.  
 <https://doi.org/10.14233/ajchem.2015.19246>
32. Bashir A, Ambreen, Muhammad SK, Ali H, **Ibrar K**. Agrobacterium mediated transformation of brassica juncea (L.) Czern. With chitinase gene conferring resistance against fungal infections. *Pakistan Journal of Botany*. 47(1): 211-216. **2015**.
33. Haroon A, **Ibrar K**, Wagma N. Antioxidation and Antiglycation Properties of Bunium Bulbocastanum fruits various fractions and its possible role in reducing diabetes complication and ageing. *Vitamins & Minerals*. 3 (1): 118. **2014**.  
 <https://doi.org/10.4172/2376-1318.1000118>
34. Sadiq A, Zeeshan K, Bashir A, **Ibrar K**, Javid A. Production of Single Cell Protein from Orange Peels Using Aspergillus niger and Saccharomyces cerevisiae. *Global Journal of Biotechnology & Biochemistry*. 9 (1): 14-18. **2014**.
35. **Ibrar K**, Haroon A, Bashir A, Sadiq A. Antiglycation and antioxidation properties of berberis lyceum and terminalia chebula: possible role in curing diabetes and slowing aging. *Pakistan Journal of Botany*. 46(4): 1469-1471, **2014**.
36. Nasar A, Pushpendra KV, **Ibrar K**, Sohaib M. In Vitro antibacterial, antifungal and phytotoxic activities of Ficus Carica MeOH leaves extracts. *International Journal of Current Biotechnology*. 2(2):11-15, **2014**.
37. **Ibrar K**, Haroon A, Bashir A. Antiglycation and antioxidation properties of Capsicum frutescens and Curcuma longa fruits: Possible role in prevention of diabetic complication. *Pakistan Journal of Pharmaceutical Sciences*. 27 (5): 1359-1362, **2014**.
38. Bashir A, Maria Q, Muhammad B, Shumaila B, Javid A, **Ibrar K**, Javed K. Production of polyclonal antibodies for establishment of antigen detection test against brucella melitensis. *Life Science Journal*. 11(3s): 6-11, **2014**.



39. **Ibrar K**, Haroon A, Nasir A, Bashir A, Hamid T. Screening of Bunium bulbocastanum for antibacterial, antifungal, phytotoxic and haemagglutination activities. *Pakistan Journal of Pharmaceutical Sciences*. 26 (4): 787-791, **2013**.
40. Bashir A, Riaz M, Sajid A, Shumaila B, Javid A, **Ibrar K**, Javed AB. Screening of Actinomycetes Against Multi Drugs Resistant Human Pathogenic Bacteria Isolated from the Soil of KP & Optimization Studies of Selected Streptomyces RMN6. *Life Science Journal*. 10(12s): 409-416, **2013**.
41. **Ibrar K**, Haroon A, Nasir A, Bashir A, Sadiq A, Fida H. Screening of Fumaria Indica for Antibacterial, Antifungal, Phytotoxic and Haemagglutination Activities. *International Journal of Current Biotechnology*. 1(9):13-16, **2013**.
42. Haroon A, **Ibrar K**. Antiglycation and antioxidative properties of Fumaria indica various fractions: Role in reducing diabetic complications and ageing. *Indian Journal of Health & Wellbeing*. 3(3): 692-694, **2012**.  
 <https://doi.org/10.4172/2376-1318.1000118>
43. Haroon A, Nasar A, Bashir A, **Ibrar K**. Screening of Solanum surrattense for antibacterial, antifungal, phytotoxic and haemagglutination. *Journal of Traditional Chinese Medicine*. 32(4): 616-620, **2012**.  
 [https://doi.org/10.1016/s0254-6272\(13\)60080-1](https://doi.org/10.1016/s0254-6272(13)60080-1)
44. Haroon A, **Ibrar K**, Abdul W. Antiglycation and antioxidation properties of juglans regia and calendula officinalis: possible role in reducing diabetic complications & slowing down ageing. *Journal of Traditional Chinese Medicine*. 32(3): 411-414, **2012**.  
 [https://doi.org/10.1016/s0254-6272\(13\)60047-3](https://doi.org/10.1016/s0254-6272(13)60047-3)
45. Bashir A, Nida M, Shumaila B, Sadiq A, **Ibrar K**, Mohammad A. Biological screening of Hedera nepalensis. *Journal of Medicinal Plant Research*. 6(39): 5250-5257, **2012**.  
 <https://doi.org/10.5897/jmpr12.244>
46. Bashir A, **Ibrar K**, Shumaila B, Sadiq A. Chemical composition and antifungal, Phytotoxic, brine shrimp cytotoxicity, insecticidal & antibacterial activities of essential oils of Acacia modesta. *Journal of Medicinal Plant Research*. 6(31): 4653-4659, **2012**.  
 <https://doi.org/10.5897/jmpr12.016>
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