

CURRICULUM VITAE

PERSONAL INFORMATION

Name: Arshad Farid
Father Name: Muhammad Farid Khan
Date of Birth: 1st March 1985
Nationality: Pakistan
Gender: Male
Name of Current Employer: Gomal University, Pakistan
Postal Address: Gomal Center of Biochemistry and
Biotechnology, Gomal University, Pakistan.
Cell Phone# (+92-3229821767, +92-3459844202)
E-mail address: arshadfarid@gu.edu.pk
ORCID: <https://orcid.org/0000-0001-5147-5936>
SciProfile ID: <https://sciprofiles.com/profile/1863361>
**Web of Science Researcher
ID:** <https://publons.com/researcher/AAD-5741-2022>



ACADEMIC QUALIFICATION

Ph.D. (Biotechnology)

Centre of Biotechnology and Microbiology (COBAM)
University of Peshawar, Pakistan
2015-2019

M.Phil. (Biology)

Institute of Biological Sciences
Gomal University, Pakistan
2009 - 2011

M.Sc. (Biology)

Institute of Biological Sciences,
Gomal University, Pakistan
2005 – 2007

B.Sc.

Botany, Zoology and Chemistry combination
Gomal University, Pakistan
2003 – 2005

Distinctions

- 1st position in M.Phil. (Biology), Institute of Biological Sciences, Gomal University
- Got Merit scholarship in Ph.D.

RESEARCH INTEREST AND EXPERTISE

- Medicinal Plants, Natural Product Chemistry, Drug delivery, Nanotechnology, Microbiology

PROFESSIONAL EXPERIENCE

- Working as an **Assistant Professor** on permanent basis in “Gomal Center of Biochemistry and Biotechnology” (GCBB), Gomal University D.I.Khan from 07-.04-2014 till now.
- Worked as an **Honorary Research Assistant** in Center of Marine Biodiscovery Centre, University of Aberdeen, Scotland, UK (2023).
- Worked as a **Lecturer** on permanent basis in “Gomal Center of Biochemistry and Biotechnology” (GCBB), Gomal University D.I.Khan from 04-12-2008 to 06-.04-2014.
- Worked as a **Lecturer** on fixed basis in “Gomal Center of Biochemistry and Biotechnology” (GCBB), Gomal University, D.I. Khan from 01-09-2007 to 03-12-2008.

SUPERVISION

- Supervised more than **15** undergraduates (BS Hons. Biotechnology) research students of Center of Biochemistry & Biotechnology, Gomal University.
- Supervised **11** M.Phil. research students of Center of Biochemistry & Biotechnology, Gomal University.
- Supervising **2** M.Phil. research students of Center of Biochemistry & Biotechnology, Gomal University.

POSTGRADUATE STUDENTS

(Title of Thesis), (Name of Candidates), (Academic Level)

Completed

1. Phytochemical Analysis and Biological Investigation Of “*Quercus Agrifolia Nee*” Roots. Abdul Wahab (MS/M.Phil.).
2. Chemical Fingerprinting and Biological Activities Evaluation of “*Sideroxylon mascatense*” Roots and Aerial Parts. Alamgir Khan (MS/M.Phil.).
3. Evaluation of the effects of Zinc oxide Nanoparticles and Silver Sulphadiazine on induced burn wounds in Rabbits. Muhammad Khalid (MS/M.Phil.).
4. Screening of Selected Fluoroquinolones and PPIs Against Quorum Sensing and Bacterial Biofilms Produced by Periodontal Bacteria; In silico and In vitro Studies. Muhammad Kamran (MS/M.Phil.).
5. Identification of Candidate Pathogenic Variants in Pakistani Families Inheriting Congenital Stationary Night Blindness. Junaid Qayum (MS/M.Phil.).
6. Antimicrobial screening of herbal plant (*Sideroxylon mascatense* branches) nanoemulsion cream formulation and its characterization. Maria Hayat (MS/M.Phil.).
7. Evaluation of Biological activities of Nanoemulsion gel containing root extract of *Sideroxylon mascatense*. Mehak Hayat (MS/M.Phil.).
8. *Sideroxylon Mascatense* (Stem) Extract Nanoemulsion; Characterization and Pharmacological Activities. Roomah Javed (MS/M.Phil.).

9. Development Optimization and Characterization of Black Seed Oil Based *Sideroxylon Mascatense* (Stem) Extract Nanoemulsion Gel for Topical Application. Umar Khan (MS/M.Phil.).
10. Studies on resistance mechanisms of *Acinetobacter baumannii* and impact of polyphenols using in silico and in vitro models. Laraib Mumtaz (MS/M.Phil.).
11. Studies on the Impact of Sodium Chloride Salinity on the Growth and Yield of Wheat cv. AS – 2021. Aasma Nazir (MS/M.Phil.).

ADMINISTRATIVE DUTIES

- Worked as an Assistant Warden Model Hostel (Foreigner Students Hostel) Gomal University from 2007-2013. Six years, 2007-13, experience to promote student leadership development, social and cultural interactions, especially the problems of international students and to resolve these issues.
- Coordinator (2018), Program Botany, Institute of Biological Sciences, Gomal University.
- Departmental Focal Person Covid-19 (2021), Gomal Center of Biochemistry & Biotechnology (GCBB), Gomal University.
- Member Departmental Board of Study, Gomal Center of Biochemistry & Biotechnology (GCBB), Gomal University.
- Member Students Affairs Committee, Gomal Center of Biochemistry & Biotechnology (GCBB), Gomal University.
- Member of Purchase committee, Gomal Center of Biochemistry & Biotechnology (GCBB), Gomal University.
- Supervisory committee member of MS/M.Phil. students. Gomal Center of Biochemistry & Biotechnology (GCBB), Gomal University.

INTERNATIONAL AWARDS AND ACHIEVEMENTS

- Selected for the British Council-Charles Wallace Fellowship program 2022-2023 at the **University of Aberdeen, Scotland, UK**. Funding by **British Council**.
- “Training in the Environmental, Agricultural and Analytical Chemistry Laboratory Techniques” of the Department of Chemistry, **University of Glasgow, UK** in 2007. Funded by **Higher Education Commission (HEC) of Pakistan**.

INTERNATIONAL AND NATIONAL COLLABORATIONS

- **International:** UK, Malaysia, Saudi Arabia, India
- **National:** NARC, Islamabad/ Quaid e Azam University, Islamabad/ University of Peshawar, Peshawar/ Abasyn University, Peshawar

COURSES TAUGHT TO BS, M.PHIL. and PH.D. PROGRAMS

- **BS:** Genetics, Cell Biology, Microbiology, Microbial Biotechnology, Hospital Waste Management, Environmental Biotechnology, Industrial Biotechnology
- **M.Phil. & Ph.D.:** Advances in Microbiology, Advances in Immunology, Advances in Industrial Biotechnology, Advances in Fermentation Technology

RESEARCH PUBLICATIONS

▪ Published Research Articles

1. Mehak Hayat, Asif Nawaz, Sampath Chinnam, Muhammad Muzammal, Muhammad Shahid Latif, Muhammad Yasin, Sumel Ashique, Gokhan Zengin, Arshad Farid* (2023). Formulation development and optimization of herbo synthetic gel: In vitro biological evaluation and in vivo wound healing studies. Published in **Process Biochemistry, Impact Factor: 4.885.**
2. Raza Ullah, Isfahan Touseef, Rameesha Abid, **Arshad Farid**, Sohail Ahmad, Hesham Ali El Enshasy, Adil Aksoy, Nada H. Aljarba, Tahani Mohamed Al-Hazani, Muhammad Muzammal, Shakira Ghazanfar (2023). Exploitation of Selected Plant Extracts as Bio-Control against Fungal Contaminants in Animal Feed. Published in **Journal of King Saud University - Science, Impact Factor: 3.829.**
3. Niamat Ullah, Adnan Amin, **Arshad Farid**, Samy Selim, Sheikh Abdur Rashid, Muhammad Imran Aziz, Sairah Hafeez Kamran, Muzammil Ahmad Khan, Nauman Rahim Khan, Saima Mashal and Muhammad Mohtasheemul Hasan (2023). Development and Evaluation of Essential Oil-Based Nanoemulgel Formulation for the Treatment of Oral Bacterial Infections. Published in **gels, Impact Factor: 4.432.**
4. Sara Khan, Amin Ullah, Tehreem Ayaz, Aamir Aziz, Komal Aman, Mudassir Habib, Semih Yilmaz, Arshad Farid, Humaira Yasmin, Qurban Ali (2023). Phycoremediation of industrial wastewater using Vaucheria debaryana and Cladophora glomerata. Published in **Environmental Monitoring and Assessment, Impact Factor: 3.307.**
5. Mudassar Fareed Awan, Sajed Ali, Irfan Ullah, Amin Ullah, Muhammad Tariq, Muhammad Shahzad Iqbal, Aisha Khalid, Sana Fatima, Yousuf Shafiq, Idrees Ahmad Nasir, Muhammad Muzammal, **Arshad Farid*** (2023). Expression Studies of Synthetic Sucrose Isomerase Gene 1 (SySIG1) in Saccharum officinarum L. Published in **Plant Molecular Biology Reporter, Impact Factor: 1.816.**
6. Shakeel M, Hafeez FY, Malik IR, **Farid A**, Ullah H, Ahmed I, Gul H, Mohibullah M, Yasin M (2023). Serratia marcescens strain FA-4 enhances zinc content in rice grains by activating the zinc translocating enzymes. Published in **SABRAO Journal of Breeding and Genetics, Impact Factor: 1.414.**
7. Sahid Mehmood, Fazal Haq, Mehwish Kiran, Farman Ali, Tariq Aziz, **Arshad Farid & Muhammad Haroon** (2023). Cyclo-matrix Poly(cyclotriphosphazene-co-kaempferol) Microspheres: Synthesis, Characterization, EPR Study and Their Controlled Drug Release Application. Published in **Journal of Polymers and the Environment. Impact Factor: 4.705.**
8. Tariq Aziz, Fazal Haq, **Arshad Farid**, Mehwish Kiran, Shah Faisal, Asmat Ullah, Naveed Ullah, Awais Bokhari, Muhammad Mubashir, Lai Fatt Chuah, Pau Loke Show (2023). Challenges associated with cellulose composite material: Facet engineering and prospective. Published in **Environmental Research. Impact Factor: 8.431.**
9. Fazal Haq, Mehwish Kiran, Sampath Chinnam, **Arshad Farid***, Rizwan Ullah Khan, Ghazanfar Ullah, Ahmed Muteb Aljuwayid, Mohamed A. Habila, Muhammad Mubashir

(2023). Synthesis of bioinspired sorbent and their exploitation for methylene blue remediation. Published in **Chemosphere. Impact Factor: 8.943**.

10. Tariq Aziz, **Arshad Farid**, Sampath Chinnam, Fazal Haq, Mehwish Kiran, Ab Waheed Wani, Zeid A. Alothman, Ahmed Muteb Aljuwayid, Mohamed A. Habila, Muhammad Saeed Akhtar (2023). Synthesis, characterization and adsorption behavior of modified cellulose nanocrystals towards different cationic dyes. Published in **Chemosphere. Impact Factor: 8.943**.
11. Tariq Aziz, **Arshad Farid**, Fazal Haq, Mehwish Kiran, Naveed Ullah, Shah Faisal, Amjad Ali, Farman Ullah Khan, Siming You, Awais Bokhari, Muhammad Mubashir, Lai Fatt Chuah, Pau Loke Show (2023). Role of silica-based porous cellulose nanocrystals in improving water absorption and mechanical properties. Published in **Environmental Research. Impact Factor: 8.431**.
12. Ihsan Ullah, Sadia Sattar, Ijaz Ali, **Arshad Farid**, Amin Ullah, Refaat A. Eid, Mohamed Samir A. Zaki, Muhammad Alaa Eldeen, Iftikhar Ahmed, Irfan Ullah (2022). Molecular Epidemiology of Cystic Echinococcosis in Rural Baluchistan, Pakistan: A Cross-Sectional Study. Published in **Pathogens. Impact Factor: 4.531**.
13. Naveed Ullah, Fazal Haq, **Arshad Farid**, Mehwish Kiran, Zeid A. Al Othman, Ahmed Muteb Aljuwayid, Mohamed A. Habila, Awais Bokhari, Saravanan Rajendran, Kuan Shiong Khoo (2022). Coupling of carboxymethyl starch with 2-carboxyethyl acrylate: A new sorbent for the wastewater remediation of methylene blue. Published in **Environmental Research. Impact Factor: 8.431**.
14. Hassan Raza, Shefayat Ullah Shah, **Arshad Farid**, Zakir Ali, Atif Ullah Khan, Irfan Basharat Rajput, Mohammed Al Mohaini, Abdulkhaliq J. Alsalman, Maitham A. Al Hawaj, Saima Mahmood, Abid Hussain and Kifayat Ullah Shah (2022). In Vitro and Ex Vivo Evaluation of Fluocinolone Acetonide–Acitretin-Coloaded Nanostructured Lipid Carriers for Topical Treatment of Psoriasis. Published in **gels, Impact Factor: 4.432**.
15. Asma Sadiq, Jadoon Khan, Irfan Ullah, Nosheen Basharat, Sajid Ali, Ahmad Ud Din, Ijaz Ali, **Arshad Farid**, Muddaser Shah, Mohamed M. Abdel-Daim, Ghadeer M. Albadrani and Imtiaz Ali Khan (2022). Seroprevalence of Anti-tTg-IgA among Symptomized Celiac Disease Patients and Their Correlation with Rotavirus Infection. Published in **BioMed Research International. Impact Factor: 3.246**.
16. Fazal Haq, **Arshad Farid**, Naveed Ullah, Mehwish Kiran, Rizwan Ullah Khan, Tariq Aziz, Sahid Mehmood, Muhammad Haroon, Muhammad Mubashir, Awais Bokhari, Lai Fatt Chuah, Pau Loke Show (2022). A study on the uptake of methylene blue by biodegradable and eco-friendly carboxylated starch grafted polyvinyl pyrrolidone. Published in **Environmental Research. Impact Factor: 8.431**.
17. Uzma Yasmeen, Fazal Haq, Mehwish Kiran, **Arshad Farid***, Naveed Ullah, Tariq Aziz, Muhammad Haroon, Sahid Mehmood, Muhammad Muzammal, Shakira Ghazanfar, Majid Alhomrani, Abdulhakeem S. Alamri, Syed Mohammed Basheeruddin Asdaq, Saleh A. Alghamdi and Irfan Ullah (2022). Synthesis of Starch-Grafted Polymethyl Methacrylate via Free Radical Polymerization Reaction and Its Application for the Uptake of Methylene Blue. Published in **Molecules. Impact Factor: 4.927**.

18. Muhammad Muzammal, Ahmad Firoz, Hani Mohammed Ali, **Arshad Farid**, Muzammil Ahmad Khan and Khalid Rehman Hakeem (2022). Lumateperone Interact with S-Protein of Ebola Virus and TIM-1 of Human Cell Membrane: Insights from Computational Studies. Published in **Applied Sciences**. **Impact Factor: 2.838**.
19. Asif Nawaz, Shafi Ullah, Maha Abdallah Alnuwaiser, Fazal Ur Rehman, Samy Selim, Soad K. Al Jaouni, **Arshad Farid*** (2022). Formulation and Evaluation of Chitosan-Gelatin Thermosensitive Hydrogels Containing 5FU-Alginate Nanoparticles for Skin Delivery. Published in **gels**. **Impact Factor: 4.432**.
20. Malik Saadullah, **Arshad Farid***, Asad Ali, Muhammad Rashad, Faiza Naseem, Sheikh Abdur Rashid, Shakira Ghazanfar, Muhammad Yasin, Nosheen Akhtar, Mohammed S. Almuhayawi, Mohammed H. Alruhaili, Samy Selim (2022). Molecular modeling study of novel Lancifolamide bioactive molecule as an inhibitor of Acetylcholinesterase (AChE), Herpes simplex virus (HSV-1), and anti-proliferative proteins. Published in **Molecules**, **Impact Factor: 4.927**.
21. Fiza Ur Rehman, **Arshad Farid***, Shefaat Ullah Shah, Muhammad Junaid Dar, Asim Ur Rehman, Naveed Ahmed, Sheikh Abdur Rashid, Irfan Shaukat, Muddaser Shah, Ghadeer M. Albadrani, Mohamed Kamel, Ahmed E. Altyar, Mohamed M. Abdel-Daim, Kifayat Ullah Shah (2022). Self-emulsifying drug delivery systems (SEDDS): measuring energy dynamics to determine thermodynamic and kinetic stability. Published in **pharmaceuticals**, **Impact Factor: 5.215**.
22. **Arshad Farid***, Muhammad Muzammal, Shakira Ghazanfar, Salmah Ismail, Amin Ullah, Wadzani Palnam Dauda, Charles Oluwaseun Adetunji, Muddaser Shah, Arezoo Dadransia, Maryam Idrees (2022). Green cleaning activity of *Bacillus salmalaya* 139SI: a novel strain for removing common household stains. Published in **Biomass Conversion and Biorefinery**, **Impact Factor: 4.050**.
23. Urva Akmal, Ifra Ghorri, Abdelbaset Mohamed Elsbali, Bandar Alharbi, **Arshad Farid**, Abdulhakeem S. Alamri, Muhammad Muzammal, Syed Mohammed Basheeruddin Asdaq, Mohammed A. E. Naiel and Shakira Ghazanfar (2022). Probiotic and Antioxidant Potential of the *Lactobacillus Spp.* Isolation from Artisanal Fermented Pickles. Published in **Fermentation**, **Impact Factor: 5.123**.
24. Haseena, Muddaser Shah, Khadija Rehman, Adnan Khan, **Arshad Farid**, Carlotta Marini, Alessandro Di Cerbo and Muhammad Raza Shah (2022). Characterization and Antibacterial Evaluation of Biodegradable Mannose-Conjugated Fe-MIL-88NH₂ Composites Containing Vancomycin Against Methicillin-Resistant Staphylococcus Aureus Strains. Published in **polymers**, **Impact Factor: 4.967**
25. Kamran Ahmad Khan, Claudia Zizzadoro, Alessandro Di Cerbo, Nicola Pugliese, Gul Majid Khan, Shakira Ghazanfar, Eman M. Almusalami, Muhammad Muzammal, Khaled J. Alsaman and **Arshad Farid*** (2022). Preparation and In Vitro Evaluation of Controlled-Release Matrices of Losartan Potassium Using Ethocel Grade 10 and Carbopol 934P NF as Rate-Controlling Polymers. Published in **polymers**, **Impact Factor: 4.967**

26. Shafi Ullah, Asif Nawaz, **Arshad Farid***, Muhammad Shahid Latif, Muhammad Fareed, Shakira Ghazanfar, Charis M. Galanakis, Abdulhakeem S. Alamri, Majid Alhomrani, Syed Mohammed Basheeruddin Asdaq (2022). Folate Modified Chitosan 5FU Nanoparticles Embedded Calcium Alginate Beads for Colon Targeted Delivery. Published in **pharmaceutics**, **Impact Factor: 6.525**.
27. Anum Munir Awan, **Arshad Farid***, Shefaat Ullah Shah, Dildar Khan, Fiza Ur Rehman, Muhammad Junaid Dar, Tayyaba Iftikhar, Shakira Ghazanfar, Charis M. Galanakis, Abdulhakeem S. Alamri, Syed Mohammed Basheeruddin Asdaq and Kifayat Ullah Shah* (2022). Nanocrystals-mediated oral drug delivery: enhanced bioavailability of amiodarone. Published in **pharmaceutics**, **Impact Factor: 6.525**.
28. Asif Nawaz, **Arshad Farid***, Muhammad Safdar, Muhammad Shahid Latif, Shakira Ghazanfar, Nosheen Akhtar, Soad K. Al Jaouni, Samy Selim and Muhammad Waseem Khan (2022). Formulation Development and Ex-Vivo Permeability of Curcumin Hydrogels under the Influence of Natural Chemical Enhancers. Published in **gels**, **Impact Factor: 4.432**.
29. Muhammad Israr, Nicola Pugliese, **Arshad Farid***, Shakira Ghazanfar, Alessandro Di Cerbo, Muhammad Muzammal, Abdulhakeem S. Alamri, Syed Mohammed Basheeruddin Asdaq, Ashfaq Ahmad and Kamran Ahmad Khan (2022). Preparation and Characterization of Controlled-Release Floating Bilayer Tablets of Esomeprazole and Clarithromycin. Published in **Molecules**, **Impact Factor: 4.927**.
30. Muhammad Rehan Malik, Fatemah Farraj Al-Harbi, Asif Nawaz*, Adnan Amin, **Arshad Farid***, Mohammed Al Mohaini, Abdulkhaliq J. Als Salman, Maitham A. Al Hawaj and Yousef N. Alhashem (2022). Formulation and Characterization of Chitosan-Decorated Multiple Nanoemulsion for Topical Delivery In Vitro and Ex Vivo. Published in **Molecules**, **Impact Factor: 4.927**.
31. Rahman Ullah Khan, Shefaat Ullah Shah, Sheikh Abdur Rashid, Faiza Naseem, Kifayat Ullah Shah, **Arshad Farid**, Khalid Rehman Hakeem, Majid Rasool Kamili, Eman Hillal Althubaiti and Soha A. Alamoudi (2022). Lornoxicam-Loaded Chitosan-Decorated Nanoemulsion: Preparation and In Vitro Evaluation for Enhanced Transdermal Delivery. Published in **Polymers**. **Impact Factor: 4.967**.
32. Sana Abid, **Arshad Farid**, Rameesha Abid, Mujeeb Ur Rehman, Walaa F. Alsanie, Majid Alhomrani, Abdulhakeem S. Alamri, Syed Mohammed Basheeruddin Asdaq, Daniel Ingo Hefft, Saddam Saqib, Muhammad Muzammal, Sabrin Abdelrahman Morshedy, Mashael W. Alruways and Shakira Ghazanfar* (2022). Identification, Biochemical Characterization, and Safety Attributes of Locally Isolated Lactobacillus fermentum from Bubalus bubalis (Buffalo) Milk as a Probiotic. Published in **Microorganisms**, **Impact Factor: 4.926**.
33. Malik Saadullah, Muhammad Asif, **Arshad Farid***, Faiza Naseem, Sheikh Abdur Rashid, Shakira Ghazanfar, Muhammad Muzammal, Sohail Ahmad, Yousef A. Bin Jordan, Huda Alshaya, Muhammad Hamzah Saleem, Shafaqat Ali, Charles Oluwaseun Adetunji, Sania Arif (2022). A Novel Distachionate from Breynia distachia Treats Inflammations by Modulating COX-2 and Inflammatory Cytokines in Rat Liver Tissue. Published in **molecules**. **Impact Factor: 4.927**.

34. Muhammad Muzammal, Alessandro Di Cerbo*, Eman M. Almusalami, **Arshad Farid***, Muzammil Ahmad Khan, Shakira Ghazanfar, Mohammed Al Mohaini, Abdulkhaliq J. Alsalman, Yousef N. Alhashem, Maitham A. Al Hawaj and Abdulmonem A. Alsaleh (2022). In Silico Analysis of the L-2-Hydroxyglutarate Dehydrogenase Gene Mutations and Their Biological Impact on Disease Etiology. Published in **Genes. Impact Factor: 4.141.**
35. Muhammad Zeeshan Ali, **Arshad Farid**, Safeer Ahmad, Muhammad Muzammal, Mohammed Al Mohaini, Abdulkhaliq J. Alsalman, Maitham A. Al Hawaj, Yousef N. Alhashem, Abdulmonem A. Alsaleh, Eman M. Almusalami, Mahpara Maryam, Muzammil Ahmad Khan (2022). In Silico Analysis Identified Putative Pathogenic Missense nsSNPs in Human *SLITRK1* Gene. Published in **Genes. Impact Factor: 4.141.**
36. Abdul Hameed, Carla Condò, Isfahan Tauseef, Maryam Idrees, Shakira Ghazanfar, **Arshad Farid***, Muhammad Muzammal, Mohammed Al Mohaini, Abdulkhaliq J. Alsalman, Maitham A. Al Hawaj, Charles Oluwaseun Adetunji, Wadzani Palnam Dauda, Yasir Hameed, Yousef N. Alhashem and Abeer A. Alanazi (2022). Isolation and Characterization of a Cholesterol-Lowering Bacteria from Bubalus Bubalis Raw Milk. Published in **Fermentation. Impact Factor: 5.123.**
37. Muhammad Shahid Latif, F.F.AL Harbi, Asif Nawaz *, Sheikh Abdur Rashid, **Arshad Farid**, Mohammad Al Mohaini, Abdulkhaliq J Alsalman, Maitham Al Hawaj, Yousef N Alhashem (2022). Formulation and Evaluation of Hydrophilic Polymers Based Methotrexate Patches: In Vitro and In Vivo Characterization. Published in **Polymers. Impact Factor: 4.967.**
38. Abdul Shakur Khan, Kifayat Ullah Shah, Mohammed Al Mohaini, Abdulkhaliq J. Alsalman, Maitham A. Al Hawaj, Yousef N. Alhashem, Shakira Ghazanfar, Kamran Ahmad Khan, Zahid Rasul Niazi and **Arshad Farid*** (2022). Tacrolimus-Loaded Solid Lipid Nanoparticle Gel: Formulation Development and In Vitro Assessment for Topical Applications. Published in **gels. Impact Factor: 4.432**
39. Faiza Naseem; Shefaat Ullah Shah; Sheikh Abdur Rashid; **Arshad Farid**; Mazen Almehmadi and Saad Alghamdi (2022). Metronidazole Based Floating Bioadhesive Drug Delivery System for Potential Eradication of H. pylori: Preparation and In Vitro Characterization. Published in **polymers. Impact Factor: 4.967.**
40. Kamran Ahmad Khan; Gul Majid Khan; Muhammad Muzammal; Mohammed Al Mohaini; Abdulkhaliq J. Alsalman; Maitham A. Al Hawaj; Ashfaq Ahmad; Zahid Rasul Niazi; Kifayat Ullah Shah and **Arshad Farid*** (2022). Preparation of Losartan Potassium Controlled Release Matrices and In-Vitro Investigation Using Rate Controlling Agents. Published in **molecules. Impact Factor: 4.927**
41. Sheikh Abdur Rashid; Sajid Bashir; Faiza Naseem; **Arshad Farid**; Irfan A. Rather and Khalid Rehman Hakeem (2022). Olive Oil Based Methotrexate Loaded Topical

Nanoemulsion Gel for the Treatment of Imiquimod Induced Psoriasis-Like Skin Inflammation in an Animal Model. Published in **biology**. **Impact Factor: 5.168**.

42. Maryam Idrees, Muhammad Imran, Naima Atiq, Rabaab Zahra, Rameesha Abid, Mousa Alreshidi, Tim Kilgour Roberts, Abdelmuhsin Abdelgadir, Muhammad Khalid Tipu, **Arshad Farid**, Oluwaseyi Abraham Olawale, Shakira Ghazanfar (2022). Probiotics, their action modality and the use of multi-omics in metamorphosis of commensal microbiota into target-based probiotics. Published in **Frontiers in Nutrition**. **Impact Factor: 6.590**
43. Tariq Aziz, **Arshad Farid***, Fazal Haq, Mehwish Kiran, Asmat Ullah, Kechun Zhang, Cheng Li, Shakira Ghazanfar, Hongyue Sun, Roh Ullah, Amjad Ali, Muhammad Muzammal, Muddaser Shah, Nosheen Akhtar, Samy Selim, Nashwa Hagagy, Mennatalla Samy and Soad K. Al Jaouni (2022). A Review on the Modification of Cellulose and Its Applications. Published in **polymers**. **Impact Factor: 4.967**.
44. Rameesha Abid, Shakira Ghazanfar, **Arshad Farid***, Samra Muhammad Sulaman, Maryam Idrees, Radwa Abdalnasser Amen, Muhammad Muzammal, Muhammad Khurram Shahzad, Mohamed Omar Mohamed, Alaa Ashraf Khaled, Waqas Safir, Ifra Ghori, Abdelbaset Mohamed Elsbali and Bandar Alharbi (2022). Clinical Significance of 4', 5, 7-Trihydroxyflavone (Apigenin) and its Impact on Cell Signaling Pathway. Published in **molecules**, **Impact Factor: 4.927**.
45. Fazal Haq; Sahid Mehmood; Muhammad Haroon; Mehwish Kiran; Kashif Waseem; Tariq Aziz; **Arshad Farid** (2021). Role of Starch Based Materials as a Bio-sorbents for the Removal of Dyes and Heavy Metals from Wastewater. Published in **Journal of Polymers and the Environment**, **Impact Factor: 4.705**.
- Total IF: 229.45**
46. Atta Ur Rehman, Abdul Haleem Shah, Sajjad Ur Rahman, Sanaullah Sajid, Imdad Ullah Khan, Qudrat Ullah, **Arshad Farid** and Muhammad Hashim Khan (2022). "Molecular Confirmation and Immunological Cross Reactivity among Mycoplasma gallisepticum Isolates Recovered from Broiler Chicken in Khyber Pakhtunkhwa, Pakistan". Published in **Pakistan Veterinary Journal**, **Impact Factor: 1.803**
47. T. Khalil, M. K. Okla, W. H. Al-Qahtani, F. Ali, M.Zahra, Q. Shakeela, S. Ahmed, N. Akhtar, H. AbdElgawad, Rizwan Asif, Y. Hameed*, Charles Oluwaseun Adetunji, **Arshad Farid**, and S. Ghazanfar* (2022). "Tracing probiotic producing bacterial species from gut of buffalo (Bubalus bubalis), South-East-Asia." Published in **Brazilian Journal of Biology**. **Impact Factor: 1.651**
48. S. Wali; M. Zahra; M. K. Okla; H. A. Wahidah; I. Tauseef; K. S. Haleem; A. **Farid**; A. Maryam; H. AbdElgawad; C. O. Adetunji, N. Akhtar, S. Akbar, W. Rehman, H. Yasir, G. Shakira (2022). "Brassica oleracea L. (Acephala Group) based zinc oxide nanoparticles and their efficacy as antibacterial agent." Published in **Brazilian Journal of Biology**. **Impact Factor: 1.651**.
49. Yousef N. Alhashem, **Arshad Farid**, Mohammed Al Mohaini, Muhammad Muzammal, Muhammad Hashim Khan, Arezoo Dadrasnia, Abdulkhaliq J. Als Salman, Maitham A. Al

Hawaj, Shakira Ghazanfar⁸, Eman M. Almusalami, Taghrid G. Kharboush, Salmah Ismail (2022). "Protein Isolation and Separation Techniques of Pasteurella multocidavia One- and Two-Dimensional Gel Electrophoresis". Published in **International Journal of Current Research and Review**. **Impact Factor: 0.39**

50. Abdulkhaliq J. Als Salman, **Arshad Farid**, Mohammed Al Mohaini, Muhammad Muzammal, Muhammad Hashim Khan, Arezoo Dadrasnia, Yousef N. Alhashem, Maitham A. Al Hawaj, Shakira Ghazanfar, Eman M. Almusalami, Taghrid G. Kharboush, Salmah Ismail. "Chitinase Activity by Chitin Degrading Strain (*Bacillus Salmalaya*) in Shrimp Waste." Published in **International Journal of Current Research and Review**. **Impact Factor: 0.39**
51. Abdulkhaliq J. Als Salman, **Arshad Farid**, Mohammed Al Mohaini, Maitham A. Al Hawaj, Muhammad Muzammal, Muhammad Hashim Khan, Arezoo Dadrasnia, Yousef N. Alhashem, Shakira Ghazanfar, Eman M. Almusalami, Taghrid G. Kharboush, Salmah Ismail. "Analysis and Characterization of Chitinase in Bacillus salmalaya Strain 139SI." Published in **International Journal of Current Research and Review**. **Impact Factor: 0.39**
52. Maitham A. Al Hawaj, **Arshad Farid**, Mohammed Al Mohaini, Abdulkhaliq J. Als Salman, Muhammad Muzammal, Muhammad Hashim Khan, Arezoo Dadrasnia, Yousef N. Alhashem, Shakira Ghazanfar, Eman M. Almusalami, Taghrid G. Kharboush, Salmah Ismail (2022). "Biosurfactant Screening and Antibiotic Analysis of Bacillus salmalaya". Published in **International Journal of Current Research and Review**. **Impact Factor: 0.39**
53. Abdul Wahab, **Arshad Farid***, and Muhammad Muzammal (2022). "Phytochemical, Antibacterial, Antifungal, and Hemagglutination Screening of Quercus agrifolia Nee Root Extracts". Published in **Makara Journal of Science**.
54. Muhammad Yaseen, Muhammad Kamran, **Arshad Farid***, Salmah Ismail, Muhammad Muzammal, Kamal Abdul Amir, Muhammad Hashim Khan, Sohail Ahmad, and Sheikh Abdur Rashid (2022). "Antibacterial, Hemagglutination, and Insecticidal Activity Studies on the Solvent Extracts of the Roots of *Olea ferruginea*". Published in **Makara Journal of Science**.
55. Mohammed Al Mohaini, **Arshad Farid**, Abdulkhaliq J. Als Salman, Maitham A. Al Hawaj, Yousef N. Alhashem, Shakira Ghazanfar, Muhammad Muzammal, Muhammad Hashim Khan, Arezoo Dadrasnia, and Salmah Ismail (2022). "Screening of Anticancer and Immunomodulatory Properties of Recombinant pQE-HAS113 Clone Derived from Streptococcus Equi." Published in **Pakistan Journal of Medical and Health Sciences**.
56. Mohammed Al Mohaini, **Arshad Farid**, Muhammad Muzammal, Arezoo Dadrasnia, Abdulkhaliq J. Als Salman, Maitham A. Al Hawaj, Yousef N. Alhashem and Salmah Ismail (2022). "Pathological study of Pasteurella Multocida Recombinant Clone ABA392". Published in **Pakistan Journal of Medical and Health Sciences**.

57. Mohaini, M.A.; **Farid, A***; Muzammal, M.; Ghazanfar, S.; Dadrasnia, A.; Alsalman, A.J.; Al Hawaj, M.A.; Alhashem, Y.N.; Ismail, S. (2022). "Enhancing Lipase Production of Bacillus salmalaya Strain 139SI Using Different Carbon Sources and Surfactants". Published in **Applied Microbiology**.
58. Muzammal, M.; Khan, M.A.; Mohaini, M.A.; Alsalman, A.J.; Hawaj, M.A.A.; **Farid, A*** (2022). "In Silico Analysis of Honeybee Venom Proteins Interaction with Wild Type and Mutant (A82V +P375S) Ebola Virus Spike Protein". Published in **Biologics**.
59. Zahid Sarfaraz Khan, Syeda Gulrukh Saba Shah, Ambereen Humayun, Zakir Ullah Khan, Waqas Ali, Maira Iqbal, Nabiha Naeem, **Arshad Farid**, Irfan Ullah (2022). "Association Between Kinematic Center and Anatomy, The Function of Temporomandibular Joint". Published in **Pakistan Journal of Medical and Health Sciences**.
60. **Arshad Farid***, Bashir Ahmad, Roomah Javed, Muhammad Muzammal, Muhammad Hashim Khan, Sohail Ahmad, Kamal Abdul Amir, Sheikh Abdur Rashid (2021). "Screening of Strobilanthes urticifolia Wall.ex Kuntze for antitermite and Insecticidal activities." Published in **Abasyn Journal of Life Sciences**.
61. Muhammad Muzammal, Sana Fatima, Muzammil Ahmad Khan, **Arshad Farid**, Muhammad Kamran (2021). "Crispr/Cas9 Endonucleases; A New Era of Genetic Engineering". Published in **Abasyn Journal of Life Sciences**.
62. Muhammad Rawan, Bashir Ahmad, Abdul Wahab, Muhammad Kamran, Sohail Ahmad, Benish Sial, Yaqoob ur Rehman, Farah Gul, Shafaatullah, **Arshad Farid*** (2019). "Antimicrobial Activity of Crude Methanolic Extract and Various Fractions from Parrotiopsis Jacquemontiana (DCNE) Rehder". Published in **Indo American Journal of Pharmaceutical Sciences (IAJPS)**.
63. **Arshad Farid**, Bashir Ahmad, Muhammad Yasin, Fazal Haq, Muhammad Bilal Kha, Shafiullah Khan (2017). "Haemagglutination and Antibacterial activities of Strobilanthes urticifolia Wall.ex Kuntze". Published in **International Journal of Biosciences (IJB)**.
64. **Arshad Farid**, Bashir Ahmad, Kashif Bashir, Yaqoob ur Rehman, Shafiullah Khan (2017). "Thrombolytic and allelopathic activities of medicinal plant: Strobilanthes urticifolia Wall.ex Kuntze". Published in **International Journal of Biosciences (IJB)**.
65. **Arshad Farid**, A H shah (2011). "Protective Role of Glutathione in Tungsten-Induced Toxicity in Blood Components. A Pharmacological and Toxicological Perspective". Published in **International Journal of Research in Ayurveda and Pharmacy (IJRAP)**.
66. **Arshad Farid**, A H shah, M Ayaz, A Amin, M Yasin, Hafeezullah, F haq (2012). "Comparative study of biological activity of glutathione, sodium tungstate and glutathione-tungstate mixture". Published in **African Journal of Biotechnology (AJB)**.

67. H Khan, M F Khan, B A Khan, A Wahab, S U Jan, M Mukhtair, Naseemullah, N Haq, **Arshad Farid** (2012). "Oxidation of Glutathione in blood plasma due to oxidative stressors: A case study of sliver". Published in **African Journal of Pharmacy and Pharmacology** (AJPP).
68. Javed Khan, Muhammad Farid Khan, Haroon Khan¹, Naseem Ulla, Naheed Haque, Muhammad Mukhtiar, **Arshad Farid**, Amir Badsha (2012), "Complexation of BaCl₂ with Glutathione (GSH) in Blood Components". Published in **African Journal of Pharmacy and Pharmacology** (AJPP).
69. Haroon Khan, Muhammad Farid Khan, Barkat Ali Khan, Naseem Ullah, Muhammad Mukhtiar and **Arshad Farid** (2013) "Metabolic changes of glutathione in human T and B lymphocytes induced by organo-aluminum complex". Published in **African Journal of Pharmacy and Pharmacology** (AJPP).
70. Kifayatullah Shah, Muhammad Farid Khan, Amir Badshah, Syed Umer Jan, **Arshad Farid**, Hadia Bibi and Haroon khan (2013). "Effect of cisplatin on glutathione redox status in isolated plasma and cytosolic fraction". Published in **African Journal of Pharmacy and Pharmacology** (AJPP)
71. M.Imran, M.F.Khan, H.Khan, B.A.Khan, A.Rasul, **Arshad Farid**, N.Ullah (2013), "Spectrophotometric study of the bio-coordination chemistry of strontium nitrate and glutathione". Published in **Asian Journal of Chemistry**.
72. Haroon Khan, Mohammad Farid khan, Naseem Ullah, Muhammad Mukhtiar, Naheed Haque, Barkat Ali, Abdul Wahab, **Arshad Farid**, Kamal Shah (2011), "Effect of aluminium acetyl acetate on the chemical status of glutathione by influential parameters in aqueous medium". Published in **International Journal of Basic Medical sciences and Pharmacy** (IJBMS).
73. Bakhsh, R Khan, A Raza, M Khan, M. Shahid, F Haq and **Arshad Farid** (2008). "Residual/Direct Effect of Phosphorous application on wheat and rice yield under rice wheat system". Published in **Gomal University journal of research** (GUJR).
74. Bakhsh, R Khan, A Raza, M Khan, M. Shahid, F Haq and **Arshad Farid** (2008). "Residual/Direct Effect of Potassium application on wheat and rice yield under rice wheat system". Published in **Gomal University journal of research** (GUJR).

BOOK CHAPTERS

- 1. Book Title:** Next-Generation Algae: Volume II: Applications in Medicine and the Pharmaceutical Industry
Chapter Title: Application of Nanotechnology for the Bioengineering of Useful Metabolites Derived from Algae and Their Multifaceted Applications. Published in Wiley, 2023.
- 2. Book Title:** Next-Generation Algae: Volume II: Applications in Medicine and the Pharmaceutical Industry
Chapter Title: Discovery of Novel Compounds of Pharmaceutical Significance Derived from Algae. Published in Wiley, 2023.
- 3. Book Title:** Next-Generation Algae: Volume I: Applications in Agriculture, Food and Environment
Chapter Title: Role of Genetical Conservation for the Production of Important Biological Molecules Derived from Beneficial Algae. Published in Wiley, 2023.
- 4. Book Title:** Next-Generation Algae: Volume I: Applications in Agriculture, Food and Environment
Chapter Title: Relevance of Biostimulant Derived from Cyanobacteria and Its Role in Sustainable Agriculture. Published in Wiley, 2023.
- 5. Book Title:** Next-Generation Algae: Volume I: Applications in Agriculture, Food and Environment
Chapter Title: Application of Biofuels for Bioenergy. Published in Wiley, 2023.
- 6. Book Title:** Next-Generation Algae: Volume I: Applications in Agriculture, Food and Environment
Chapter Title: Biofertilizer Derived from Cyanobacterial: Recent Advances. Published in Wiley, 2023.
- 7. Book Title:** Sustainable Nanoremediation: Modern Technologies for a Clean Environment
Chapter Title: Green-Synthesized Nanomaterials Potential for Environmental Pollution Remediation. Published in CRC Press, Taylor and Francis, 2023.
- 8. Book Title:** Current Topics in Functional
Chapter Title: An Overview of Functional Food. Food. DOI:10.5772/intechopen.103978
Published in IntechOpen, 2022.
- 9. Book Title:** Lactobacillus- A Multifunctional Genus
Chapter Title: Unveiling the Therapeutic Role of Lactobacillus and its Probiotic Potential. (Accepted in Intechopen).

10. **Book Title:** Advances in Industrial Chemistry
Chapter Title: The Potential use of Plants for the Production of Antibiotics, Proteins, Vaccines and other Products (Accepted in Springer).
11. **Book Title:** Advances in Industrial Chemistry
Chapter Title: Manufacturing of Starch from Rice, Corn, Potato, Wheat and its industrial applications. (Accepted in Springer).
12. **Book Title:** Current Trends on Probiotics for Cancer Management
Chapter Title: Impact of SARS-CoV-2 on cancer patients and potential role of probiotics for the management purpose to boost immune system. (Accepted in Apple Academic Press).
13. **Book Title:** Ethnobotany and Ethnopharmacology of Medicinal and Aromatic Plants
Chapter Title: Threatened and endangered medicinal and aromatic plants (Accepted in CRC Press, Taylor & Francis group).
14. **Book Title:** Advances in Integrative Medicine
Chapter Title: Impact of Integrative medicine for the management of chronic obstructive pulmonary disease (Accepted in Scrivener Publishing-John Wiley, and Sons).
15. Role of synbiotics in Inflammatory lung diseases (Submitted in Elsevier).

BOOKS

1. **Book Name:** Role of Flavonoids in Chronic Metabolic Diseases: From Bench to Clinic.
Role: Editor.
Accepted in Wiley-Scrivener Publisher
2. **Book Name:** Probiotics: A Novel Paradigm for Metabolic Disorder Management
Role: Editor.
Accepted in CRC Press

PATENTS FILED/PUBLISHED

- **All Patents search link:** <https://patentscope.wipo.int/search/en/search.jsf>
- **German Patent search Link:**
<https://register.dpma.de/DPMAreger/pat/register?AKZ=2020231024866>

1. **Title:** Novel urea analogues containing 5-amino uracil: one-pot green synthesis and in vitro biological evaluation
Inventors: Abdullah G AL-Sehemi, **Farid Arshad**, Pannipara Mehboobali, Ranjit Sah, Sampath Chinnam, Iqrar Ahmad, Harun Patel, Alshahrani Mohammad Y, Preet Amol Singh, Neha Bajwa

Status: International publication on 23 February, 2023

Patent number: WO2023/021496

Patent office: WIPO

Web link:

https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2023021496&_cid=P10-LFUY5P-83525-1

2. Title: A system for the synthesis and biological evaluations of novel urea analogues

Inventors: Sampath Chinnam, Mehaboobali P, **Arshad Farid**, Harun Patel, Sah Ranjit, Ahmad Irqar, Amjad Khan, Al-Sehemi A

Status: Granted on 09 February, 2023

Patent number: 202023100373

Patent office: Germany

Web link:

https://patentscope.wipo.int/search/en/detail.jsf?docId=DE394086492&_cid=P10-LFUY5P-83525-1

3. Title: A system for the green synthesis and their biological evaluations of novel urea analogues

Inventors: Sampath Chinnam, Kumarappan C, **Farid Arhsad**, Chandramorthy H. C. K., A. Ali Abha, , Manickam B., Ramamurthy S., Mohan Kumar R., Reddy Y. K., Sah Ranjit

Status: Granted on 26 January, 2023

Patent number: 202023100095

Patent office: Germany

Web link:

https://patentscope.wipo.int/search/en/detail.jsf?docId=DE394086492&_cid=P10-LFUY5P-83525-1

4. Title: A method for the synthesis and biological evaluation of new sulfonamide analogues

Inventors: Sampath Chinnam, **Farid Arshad**, Salawi Ahmad, Natania Arina, Arifa Farzana Bijili, Rudrapal Mithun, Mohammed Saad Almuhayawi, Banu Ahmed Meeran Mushira, Sami Sakakah Selim, Shivakumar Sangeetha

Status: Granted on 21 November, 2022

Patent number: 202022106287

Patent office: Germany

Web link:

https://patentscope.wipo.int/search/en/detail.jsf?docId=DE383466563&_cid=P10-LFUY5P-83525-1

5. Title: A method for the synthesis and biological evaluation of new sulfonamide analogues

Inventors: Sampath Chinnam, **Farid Arshad**, Salawi Ahmad, Natania Arina, Arifa Farzana Bijili, Rudrapal Mithun, Mohammed Saad Almuhayawi, Banu Ahmed Meeran Mushira, Sami Sakakah Selim, Shivakumar Sangeetha

Status: Granted; Filed on 03 November, 2022

Patent number: 2022/12010

Patent office: South Africa

6. Title: Apparatus and Equipment for Doctors, Hospitals and Laboratories

Inventors: Dr. Sampath Chinnam, **Dr. Arshad Farid**, Dr. Sridevi Chigurupati, Dr. Amjad Khan, Dr. Nagaraju Kottam, Dr. Sara Zahid, Dr. Raghava Rao Paritala

Status: Granted; 15 June 2023

Patent number: 6287618

Patent office: UK

ABSTRACTS PUBLISHED IN CONFERENCE PROCEEDINGS

1. **Sideroxylon Mascatense (Stem) Extract Nanoemulsion; Characterization and Biological Activities (Antibacterial and Wound Healing Activities).** Published in 1st international conference, Plant Research: from Phytochemistry to Phytoactivity, April 21, 2023, organized by Lithuanian University of Health Sciences, Faculty of Pharmacy, Department of Pharmacognosy, Pharmacognosy club. ISBN 978-9955-15-792-2.
2. **Studies on the hemagglutination, insecticidal, and antibacterial properties of the root extracts of *olea ferruginea*.** Published in Fourth International Conference on Emerging Trends in Bioinformatics and Biosciences September 15-17, 2022, Organized by: Department of Bioinformatics, Hazara University, Mansehra, Pakistan.
3. **Protective Role of Glutathione in Tungsten induced Toxicity in Blood Components: A Pharmacological and Toxicological Perspective.** Published in Fourth International Conference on Emerging Trends in Bioinformatics and Biosciences September 15-17, 2022, Organized by: Department of Bioinformatics, Hazara University, Mansehra, Pakistan.
4. **Antimicrobial, Hemagglutination and Phytochemical Assessment of *Quercus Agrifolia* Nee Root Extracts.** Published in Fourth International Conference on Emerging Trends in Bioinformatics and Biosciences September 15-17, 2022, Organized by: Department of Bioinformatics, Hazara University, Mansehra, Pakistan.
5. **Whole Exome Analysis Determined a Novel Splice Mutation in A Pakistani Family Inheriting Congenital Stationary Night Blindness (CSNB).** Published in Fourth International Conference on Emerging Trends in Bioinformatics and Biosciences September 15-17, 2022, Organized by: Department of Bioinformatics, Hazara University, Mansehra, Pakistan.

6. **Comparative Study of Biological Activity of Glutathione, Sodium Tungstate and Glutathione Tungstate Mixture.** Published in Fourth International Conference on Emerging Trends in Bioinformatics and Biosciences September 15-17, 2022, Organized by: Department of Bioinformatics, Hazara University, Mansehra, Pakistan.
7. **Eco-Friendly Cleaning Activity of Bacillus salmalaya 139SI: A Novel Strain for Cleaning Common Household Strains.** Published in Second International Congress on Biological and Health Sciences Abstract Book, Turkey, <https://www.biohealthcongress.com/>. Published: 15/03/2022, ISBN: 978-605-71368-0-0.
8. **Analysis of chitinase in Bacillus salmalaya strain 139SI and characterization.** Published in Second International Congress on Biological and Health Sciences Abstract Book, Turkey, <https://www.biohealthcongress.com/>. Published: 15/03/2022, ISBN: 978-605-71368-0-0.
9. **Enhancing Lipase Production of Bacillus salmalaya Strain 139SI Using Different Carbon Sources and Surfactants.** Published in Second International Congress on Biological and Health Sciences Abstract Book, Turkey, <https://www.biohealthcongress.com/>. Published: 15/03/2022, ISBN: 978-605-71368-0-0.
10. **Haemagglutination and antibacterial activities of *Strobilanthes urticifolia* wall. Ex Kuntze.** Published in 1st International Conference on Recent Approaches in Plant Sciences (RAPS-2022) (March 30-31, 2022) Abstract Book (Abstract ID: RAPS2022/79), organized by Department of Botany University of Education, Lahore Pakistan.
11. **Screening of *Strobilanthes urticifolia* Wall.ex Kuntze for antitermite and insecticidal activities.** Published in 1st International Conference on Recent Approaches in Plant Sciences (RAPS-2022) (March 30-31, 2022) Abstract Book (Abstract ID: RAPS2022/42), organized by Department of Botany University of Education, Lahore Pakistan.
12. **Antifungal and phytotoxic properties of crude methanolic extract and various fractions from *Strobilanthes urticifolia* Wall. ex Kuntze abstract.** Published in 1st International Conference on Recent Approaches in Plant Sciences (RAPS-2022) (March 30-31, 2022) Abstract Book (Abstract ID: RAPS2022/107), organized by Department of Botany University of Education, Lahore Pakistan.
13. **In Silico Modeling and Docking Analysis of Different Wheat Proteins.** Published in 1st International Hybrid Mode Conference on Emerging Innovative Research Trends in Biology (ELRTB 2021), Department of Biotechnology and Genetic Engineering, Kohat University of Science and Technology Kohat 26000, Pakistan. 11-12 Aug 2021.
14. **In Silico Interactional Analysis of Different Proteins Obtained from Honeybee Venom against Normal and Mutant (A82V +P375S) Ebola Virus Spike Protein.** Published in

1st International Hybrid Mode Conference on Emerging Innovative Research Trends in Biology (EIRTB 2021), Department of Biotechnology and Genetic Engineering, Kohat University of Science and Technology Kohat 26000, Pakistan. 11-12 Aug 2021.

15. **In silico study of light emitting substrate extracted from *Renilla Muelleri*, *Photinus Pyralis* and *Metridia Longa*.** Published in 1st International Hybrid Mode Conference on Emerging Innovative Research Trends in Biology (EIRTB 2021), Department of Biotechnology and Genetic Engineering, Kohat University of Science and Technology Kohat 26000, Pakistan. 11-12 Aug 2021.
16. **Screening of *Sideroxylon Mascatense's* Roots and Aerial Parts Extracts for Antimicrobial and Antioxidant Activities.** Published in 1st International Hybrid Mode Conference on Emerging Innovative Research Trends in Biology (EIRTB 2021), Department of Biotechnology and Genetic Engineering, Kohat University of Science and Technology Kohat 26000, Pakistan. 11-12 Aug 2021.
17. **Whole exome analysis determined a novel splice site mutation in a Pakistani family inheriting congenital stationary night blindness (CSNB).** Published in 1st International Hybrid Mode Conference on Emerging Innovative Research Trends in Biology (EIRTB 2021), Department of Biotechnology and Genetic Engineering, Kohat University of Science and Technology Kohat 26000, Pakistan. 11-12 Aug 2021.

SEMINARS/ TRAINING/ WORKSHOPS

1. “Training in the Environmental, Agricultural and Analytical Chemistry Laboratory Techniques” in Department of Chemistry University of Glasgow, UK.
2. Certificate of participation in the virtual training on Biowaste Management for KP region, organized by College of Veterinary Sciences & Animal Husbandry, Abdul Wali Khan University Mardan, Pakistan, held on 3 February to 10 March, 2021.
3. Three days 2nd national students conference on “Biological Sciences” organized by National Institute for Biotechnology and Genetic Engineering (NIBGE), Faisalabad, Pakistan.
4. “Six days course on modern techniques in Biotechnology” organized by National Institute for Biotechnology and Genetic Engineering (NIBGE), Faisalabad, Pakistan.
5. 12th days Postgraduate training on “Nuclear and other advance techniques in Agriculture and Biological Research” organized by “Nuclear Institute for Agriculture and Biology (NIAB) Faisalabad, Pakistan.
6. Attend workshop on “Biotechnological Techniques for welfare of human beings, organized by Gomal Centre of Biochemistry and Biotechnology (GCBB) and faculty of Pharmacy, Gomal University, Pakistan.
7. One week workshop on “enhanced production of recombinant bio-molecules of commercial importance” organized by “Dr. A.Q.Khan institute of biotechnology and genetic engineering, university of Karachi, Pakistan.”
8. Four days “symposium on Biotechnology” organized by institute of biotechnology and genetic engineering university of Sind, Jamshoro, Pakistan.

9. Two days training workshop on “BioSand Water Filter”: 09th-10th Feb, 2010, organized by faculty of Agriculture Gomal University D.I.Khan.
10. One day seminar/conference on “Water for cities: Responding to the urban challenge” on World Water Day 2nd March 2011, organized by faculty of Agriculture, Gomal University, D.I.Khan.
11. Attend workshop/conference on “Use of GIS for natural resources conservation, environmental protection and disaster management” organized by faculty of Agriculture, Gomal University, D.I.Khan, Pakistan.
12. Attend Three days cascading workshop on “Ensuring training effectiveness “held at Gomal University, Pakistan.
13. Attend “training of Presiding officers and Assistant Presiding officers” organized by the Election Commission of Pakistan.
14. Two months training in HEC, Islamabad, “16th Master Trainers-Faculty Professional Development Program” at LID Higher Education Commission, Islamabad”.
15. Workshop on “Water/Energy conservation” organized by Faculty of Agriculture, Gomal University, D.I.Khan, Pakistan”
16. Two months Computer Course/Training from Petroman Institute of Information and Technology, Dera Ismail Khan, Pakistan.
17. 1 Month training in Multinational Pharmaceutical Sanofi Aventis industry.

TECHNICAL CONTRIBUTION/ PEER REVIEW

1. **Chemosphere** (Impact Factor: 8.943)
2. **Cellulose** (Impact Factor: 6.123)
3. **Pharmaceuticals** (Impact Factor: 5.215)
4. **foods** (Impact Factor: 5.561).
5. **International Journal of Molecular Sciences** (Impact Factor: 6.208).
6. **PLOS ONE** (Impact Factor: 3.752).
7. **Nutrients** (Impact Factor: 6.706).
8. **life** (Impact Factor: 3.253).
9. **Current Oncology** (Impact Factor: 3.109).
10. **Molecules** (Impact Factor: 4.927).
11. **Catalysts** (Impact Factor: 4.501).
12. **International Journal of Environmental Research and Public Health** (Impact Factor: 4.614).
13. **Journal of Functional Biomaterials** (Impact Factor: 4.901).
14. **Applied Sciences** (Impact Factor: 2.838).
15. **Iranian Polymer Journal** (Impact Factor: 2.485).
16. **Analytical Chemistry Letters** (Taylor & Francis)
17. **Environmental Science: Advances** (Royal Society of Chemistry).
18. **Journal of Pharmaceutical Research International**.

LANGUAGE SKILLS

- English, Urdu, Pashto

REFERENCES

Prof. Dr. Bashir Ahmad

Vice Chancellor

Bacha Khan University, Pakistan

Email: bashirdr2015@yahoo.com

Prof. Dr. Abdul Haleem Shah

Dean of Sciences

Gomal University, Pakistan

Email: haleemgud@yahoo.com