

Curriculum Vitae

Prof. Dr. Kausar Malik

(Gold Medalist)

Professor & Former-Director

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Centre of Excellence in Molecular Biology,
University of the Punjab, Thoker Niaz Baig
Lahore, Pakistan.



Faculty Position: Professor (BPS-22)

& Former-Director CEMB

Incharge of CEMB Agriculture & health sections

Education

- **Post Doctorate;** Applied Molecular Biology
Molecularly characterized the adherence factors of human pathogen *E.coli O157:H7* for rapid detection of *E. coli* and enhancement of assay sensitivity. Analysis of bacterial contamination in food samples. Analysis of plants/plant products, for antimicrobial activity to cope resistance against antibiotics in microbes.
Won the HEC postdoc scholarship in 2007 and got offer letter from Dr. Ann J Fenny, Department of Immunology, The Scripps Research Institute USA
- **Ph.D.** Molecular Biology
(2006) Molecular Characterization of *Bacillus thuringiensis* delta endotoxin receptor.
CEMB, University of the Punjab, Lahore, Pakistan
- **M.Sc.** Zoology (specialization in Biochemistry)
(1987) Effect of Feeding Rapeseed meal on the Biochemistry of the Liver of the Japanese Quail”
Department of Zoology, University of the Punjab, Lahore, Pakistan.
- **B.Sc** Zoology, Chemistry, Botany
(1984) Lahore College for Women, Lahore

Areas of Specialization/Interest

Molecular Biology/Biotechnology, Microbiology, Biochemistry, Entomology, Enzymology, Immunology and Nanotechnology.

PROFESSIONAL EXPERIENCE (37 years)

- **Director** at National Centre of Excellence in Molecular Biology (CEMB), University of the Punjab, Lahore. 5-4-2022 to 12-7-2023
- **Meritorious Professor (BPS-22)** at National Centre of Excellence in Molecular Biology (CEMB), University of the Punjab, Lahore. 13-3-2023 to date
Awarded by BOG, made history of CEMB as first ever Professor promoted to Grade-22
- **Professor (BPS-21)** at National Centre of Excellence in Molecular Biology (CEMB), University of the Punjab, Lahore. 9-6-2016 to 13-3-2023
- **Professor/Director-ORIC (BPS-21)**, Chairperson of Science promotion Committee at Lahore College for women university (LCWU), Lahore. 14-10-2011 to 8-6-2016
- Associate Professor (BPS-20) at Lahore College for Women University. 2009 to 2011
- Assistant Professor (BPS-19) at National Centre of Excellence in Molecular Biology (CEMB), University of the Punjab, Lahore... 1-7-2007 to 15-1-2009
- Lecturer (BPS-18) at National Centre of Excellence in Molecular Biology, University of the Punjab, Lahore..... 22-3-1990 to 1-7-2007
- Research fellow (BPS-17) at National Centre of Excellence in Molecular Biology, University of the Punjab, Lahore..... 28-5-1988 to 22-3-1990
- Research work in M. Sc (Zoology), Specialization in Biochemistry.....1987

ADMINISTRATIVE JOBS

1. Director of CEMB-PU Lahore (5-4-2022 to 12-7-2023).
2. Chairperson of Institutional Ethical Review Board (IERB) in CEMB (5-4-22 to 7-7-2023)
3. Chairperson of Admission committee & DTRC of CEMB PU Lahore.
4. Chairperson of verification supervisory committee of CEMB-PU Lahore.
5. Senior Member; Board of Faculties of Life Sciences, PU Lahore.
6. Director ORIC (Office of Research Innovation Commercialization) LCWU, 2015-2016
7. Ex-Group Incharge; Entomology, Immunology & Molecular Medicine Labs at CEMB,
8. Incharge of Agriculture & Health Sections & Med & Environment Biotech Lab at CEMB.
9. Ex-Incharge Journal club of CEMB, landscaping or beautification committee of CEMB.
10. Ex-Member Infrastructure Committee; PG Block rooms allocation at LCWU
11. Ex-Chairperson Research Promotion Committee at LCWU
12. Ex-Convener Purchase Inspection Committee at LCWU
13. Ex-In charge; Examination & Purchase Committee, Staff leaves record & class monitoring
14. Ex-Member MS/Ph.D admission Committee, Dengue prevention Committee at LCWU
15. Ex-Member Senior Key Management Committee at LCWU
16. Ex-Member Academic Council, Academic & Administration Committee at LCWU

Post Doctorate Studies

---Post Doctorate Fellowship at CAMB, University of the Punjab, Lahore. Trained several researchers in Molecular Biology techniques especially Protein purification technology, Bioassays and preparation of substrate DNAs, restriction endonucleases, antibodies, Taq Polymerase in bulk.

- Won the HEC Post Doctorate Scholarship in 2007.
- Performed Immunoassays for easy detection of genetically modified organisms (GMOs) and antibodies production as an Incharge of Immunology Research Lab in CEMB. For GMOs detection, Developed the methodologies (ELISA, Biototoxicity & Dipstick assay), Biosensor Development (Dipsticks for BT transgenic crops quick analysis. Alongwith that identified the pathogenic serotype *E.coli O157:H7* confirmed by PCR and immunoblotting.

COMPUTER SKILLS

Proficiency in computer basics like MS Office, Power point etc

OTHER SKILLS AND TECHNIQUES:

All general laboratory techniques, protocols and instrumentation, Microbiological techniques including isolation, purification and preservation of microbes (Bacteria, viruses & fungi), DNA, RNA and protein extraction and purification, vector construction, Screening of recombinant plasmid, Mini and large scale plasmid preparation, Expression of foreign gene through transformation in bacteria, Gene cloning, Site directed mutagenesis, Restriction enzyme analysis, Agarose & polyacrylamide gel electrophoresis (PAGE), Hybridization techniques, Southern blot analysis, Northern & Western blot analysis, Dot blot analysis, ELISA (Enzyme-Linked Immunosorbent Assay), Genetic diversity analysis of DNA by the use of PCR / RAPD-PCR, RT-PCR, Column chromatography, insect bioassays, Immunological techniques, Antibody production, Fermentation Techniques, Synthetic gene designing, primer designing, Manual DNA sequencing, Nanotechnology Techniques, Development of Biosensor/Lateral Flow strip assay.

DISTINCTIONS

Merit scholarships in middle and Matric from Lahore Board

Fourth position in M.Sc (Zoology) from University of the Punjab

President Talent Scholarship Award, University Grants Commission of Pakistan, (1987-1988).

Made the history as first ever female Director of CEMB first ever Professor Awarded BPS-22 by BOG on 13-3-2023, on best performance & Seniority.

AWARDS

1. Received **Alumni Award** from VC LCWU, presented with gratitude for hardwork, Commitment & outstanding Services in celebration ceremony of 100 years (1922-2022) of excellence of LCWU.
2. **Board of Governer Awarded BPS-22 on 13-3-2023 based on best performance & Seniority.**
3. **Performance Award 2016** with 80% ,**PE Award 2017**with 85% ,**PE Award 2018** with 70%, **PE Award 2019** with 80% & **PE Award 2020** with 83% , granted from VC-PU
4. Received **Gold medals & certificates of best performance** from Chancellor & Farogh-e Taleem in August, 2022, 2023
5. My Product Won **Innovation Award** in first ``Invention to Innovation summit`` organized by HEC, Pak Science Foundation, University of the Punjab, Institute of Research Promotion on 8-6-2012
6. Received **Gold medal** from Farogh-e Taleem in May, 2015
7. Received 2nd Prof. Dr. Farhat Jabeen **Gold Medal in recognition of academic achievements in field of toxicology** awarded by Executive Council of The Applied Zoological Society of Pakistan
8. Won the Life Time Achievement Award SISA 2021 [**International Scientist Award on Engineering, Science and Medicine**] in 8-9th January 2021
9. **Performance Award 2016** with 80% ,**PE Award 2017**with 85% ,**PE Award 2018** with 70%, **PE Award 2019** with 80% & **PE Award 2020** with 83% , granted from VC-PU
10. Member **Board of Faculty** of Science University of the Punjab (2019-to date), Member of decision making bodies **Syndicate** of UVAS & GCUF, Member **Selection Board** of UHS, UOE, BZU, UOG, UOS, PU, Member of **Academic council & Chairperson of Research promotion**

Committee, Director-ORIC and nominated for civil award, Best Teacher award, President Medal for technology, in LCWU.

11. **Accomplishment certificate awarded by Honorable education minister**, for maintaining an excellent record of results & Data Book, at the closing ceremony of 5th International Symposium Workshop on applications of molecular Biological Research in agriculture, health and environment, October 14-15, 1997 CAMB, Lahore, Pakistan.
12. Won **Merit scholarship** throughout the academic career.
13. Received **Appreciation letter** from Editorial Director of American Biographical Institute, Inc because of **exemplary performance my name** had been recommended for biographical **inclusion in the 8th edition of INTERNATIONAL DIRECTORY OF DISTINGUISHED LEADERSHIP** by VC-PU on 12-9-1997.
14. Received **Appreciation letter** from Controller of Examinations-PU on excellent reports of examiners for **untiring efforts** deep research & provision of CD of PhD thesis (for upload on PU website on **recognition of outstanding research and way of presenting the relevant knowledge**
15. Received **Invitation letter** from M.S.Swaminathan Research Foundation, India to deliver a plenary talk, in a four day International Conference on ``Human Centred Sustainable Development paradigm on 8-8-2005
16. In 1999, Received **Appreciation letter** from CEMB on prompt submission of periodical progress report & sense of responsibility.
17. Received offer letter for a position as a postdoctoral fellow in Dr. Ann J Feeney Lab, Department of Immunology, The Scripps Research Institute California USA in 2007
18. Received **Certificate of Excellence in Reviewing awarded by European Journal of Medicinal Plants** in recognition of an outstanding contribution to the quality & for maintaining high peer review standard of the Journal in 2017
19. Received **Appreciation letter** from ``Natural Product Research``an International Journal, in recognition of an outstanding contribution for reviewing Manuscripts.
20. Received **Appreciation letter** from ORIC-University of the Punjab Lahore, on Novel Scientific Achievements.
21. Received **letter** from Registrar GCU, Faisalabad in recognition of services provided in evaluation process for the position of Professors in Zoology in 2016.
22. Received **Certificates of honor** in recognition of the publications of manuscripts, awarded by International Organization of Scientific research in 2012 & 2013
23. Received **Appreciation letters** from General Manager of African Journal of Microbiology Research on reviewing manuscript & as an Author, in 2012.
24. Received **Appreciation letter** (VC/LCWU/3863 dated 17-5-2012) from Vice Chancellor of LCWU on valuable work & research publications in 2012.

ACHIEVEMENTS:

- Won the **Merit scholarship** throughout academic career.
- As **pioneer** employee of CEMB, **first time in Pakistan, developed expertise in protein purification technologies & characterized Ten new Type II restriction endonucleases** by using Dideoxy chain termination method of **sequencing manually** (twenty-nine CAMB enzymes (Isoschisomers) are cited in REBASE (<http://rebase.neb.com>) & Trained the other researchers.
- **Developed Bacteriophage DNA isolation manually and Antibodies (polyclonal, monospecific) production, first time in CEMB.** Substrate DNAs (Lambda, T7, pBR322, etc), Restriction endonucleases (EcoR1, BamH1, Pst1, HindIII, Sau3A etc.), Lambda Marker, Taq polymerase & Antibodies prepared in large scale, distributed to Labs of the institution to use these molecular tools in cloning, gel electrophoresis and other experiments from 1989 to 2008.
- **Established Immunology, Entomology & GMO testing Labs in CEMB, Invented Biotoxicity assays** for Lepidopterans, Homopterans (*Aphis gossypii*, *B. tabaci*) & Coleopterans (*Tribolium castaneum*) pests for the **development of Bt-crops especially Bt-double gene Cotton varieties.**

- **Invented several *Bacillus thuringiensis* isolates containing parasporal proteins with pesticidal properties against whitefly, aphid, jassid and other sucking insects of agronomic importance (United States Patent 6150156 on name of Director CEMB at this novelty).**
- **Found novel *Bacillus thuringiensis* (Bt) strains having ICPs against pests in Lepidoptera, Coleoptera, Hemiptera after screening of thousands locally isolated Bt which were used for developing insect resistant crops. Developed and commercialized Bt-Cotton. Biotoxicity assays of transgenic crops (rice, cotton, and chickpea) of CEMB, alongwith the management of insectory. First time established the rearing of sucking pests (*Aphis gossypii*, *B. tabaci*) in insectory, provided Insect bioassay and Immunoassay facilities to researchers in cost effective manner. Received Appreciation letter from Editorial Director of American Biographical Institute, Inc because of exemplary performance my name had been recommended for biographical inclusion in the 8th edition of INTERNATIONAL DIRECTORY OF DISTINGUISHED LEADERSHIP by VC-PU on 12-9-1997.**
- Prepared Molecular tools (Restriction enzymes, Taq polymerase, Lambda Hind III Marker, T7 phage DNA, Antibodies, Bt Proteins) in bulk, & Bioassays performed for researchers so contributed in research work of CEMB theses, for two decades.
- **Discovered a new *Bacillus thuringiensis* toxins (Cry1A) receptor in cotton pest *H.armigera* & its protein sequence has been entered in the Gen Bank (NCBI) protein database (Accession # A59445). On Sep 13; 2005, sequence version replaced as Gen Bank Accession Q7M4K6.**
- Developed the Immunoassays (ELISA, Western blotting, Dot blot, Lateral flow strip assay) for GMOs detection, patent on ELISA has #138279. Trained the researchers at CEMB in these techniques.
- **Developed the Lateral flow strip assays for GMO detection (Biosensor), Bt receptor identification in agronomically important pests (First time in Asia). Patent notified in gazette by IPO. Methodology can be applied for quick detection of human & animal pathogens & diseases**
- In CEMB, became 4th in PhD supervision & my first PhD student completed research work in 2008
- **In health section of CEMB, research work done in Thallassiemia project. Identified the pathogenic serotype *E.coli* O157:H7 confirmed by PCR and immunoblotting. Molecularly characterized the adherence factors of human pathogen *E.coli* O157:H7 for rapid detection of *E. coli* and enhancement of assay sensitivity.**
- Microbial analysis of Food & Water samples. **Biopesticide formulation for stored grain pest *Tribolium castaneum*, Patents notified in gazette by IPO. Fulfill the teaching responsibilities and designed the new teaching courses for M. Phil and Ph. D classes in CEMB & LCWU.**
- **Established Microbiology & Molecular biology Labs, provide expertise to faculty of LCWU, Patent filling was facilitated & 30 patents were filled, links for Industries were established through SMEDA, LCCI-SME, as Director ORIC-LCWU. In Community Served as Member of Syndicates, Selection Boards, Board of studies, Academic council, Chairperson Member of Research Committee, Convener; Ex-Member of Physical inspection of Scientific Purchase, Physical Resource Committee, Senior Key Management Committee, DTRC of Zoology, Biotechnology, Chemistry, Envi. Sci., Botany, BOS of Zoology & Biotechnology Departments Dengue Prevention Committee, Focal person Member of LCWU for PASTIC, Infrastructure Committee, LCWU.Certificates of honor in ``recognition of the publications of manuscripts`` awarded by International Organization of Scientific research.**
- Received 4 Gold medals & certificates on best performance from Chancellor in career.
- **Established Molecular Medicine & Medical Biotechnology Labs in CEMB in 2017, served as member of supervisory committee of Admission, verification & symposia. To combat antibiotic resistance, extensive screening of Pakistani therapeutic plants/plant products against local infectious/pathogenic microbes was performed & several new indigenous plants having anti-microbial (drug resistant Bacteria & Fungus), pesticidal & anticancerous activities were identified. Phytochemical analyses of these plants & Silencing of drug resistance genes at molecular**

level were also performed. **Developed & formulated plant based biopesticides & food preservatives Bacteriophages studies for therapeutic purposes against multi drug resistant Bacteria** were also performed. Related to this research work, **8 patents filed & 11 Gene Bank submissions of novel sequences.**

- Serve as Acting Director CEMB in the absence of Director from 26-11-2021 to 6-12-2021 & became **Director CEMB** on 5-4-2022. Efforts were made for annual budget increase, revenue generation so achieved increase of 80 millions in budget and revenue generation of 200 millions (through projects & other sources), during my tenure as Director. Conducted six International seminars/conferences, Institutional Ethical Review Board meetings as Chairperson of Institutional Ethical Review Board (IERB) in CEMB.
- Research work was highly appreciated by local & foreign scientists like Dr. Illimar Altosaar, Dr. Judith K Brown, and Dr. Maunir G.
- Appreciated by HEC upon evaluation of several research projects as invited evaluator.
- Made the history as first ever Professor Awarded **BPS-22** by Board of Governor on 13-3-2023 based on best performance & Seniority.

ESTABLISHMENT OF LABORATORIES

Establishment of Molecular Medicine/Medical biotech Research Labs in CEMB

Establishment of Entomology Research Lab in CEMB

Establishment of Immunology Research Lab in CEMB

Establishment of Microbial and Molecular Research Lab in Department of Zoology, LCWU

Collaborations

Academic Collaborations (International)

1. MoU signed between CEMB and Department of Endocrinology, Diabetes and Metabolism, University Hospital CHUV, University of Lausanne, Switzerland
2. MoU signed between CEMB and Ophthalmology Department of the University of Lausanne, Switzerland
3. CEMB signs MoU with Institute of Molecular Biology & Biotechnologies, Azerbaijan
4. CEMB signs MoU with Genetic Resources Institute, Ministry of Science & Education, Baku, Azerbaijan
5. MoU signed between CEMB and M.Y. Genetik Agricultural Biotechnology Laboratories Turkey
6. MoU signed between CEMB & Kazakh National Agrarian Research University, Almaty, Kazakhstan

Industrial Collaborations (National)

- Agreements for development seed production and sale of transgenic cotton varieties between CEMB and Faculty of Agricultural Sciences Universities of the Punjab, Lahore.
- Agreements of CEMB with JB Scientific for whole genome sequencing on ONT MK1b
- Agreements of CEMB and seed companies

SENIOR RESEARCHER OF THE RESEARCH PROJECTS

- "Expression of Insecticidal (Bt) Genes in Cotton Plants" **By:** Commission of the European Communities (1989-1992)
- "Development of genetic resistance to common pests of Rice crop through expression of Bt toxin genes" **By:** Rockefeller Foundation (1990-1993)
- "Transfer of Bt genes to chickpeas to breed pod-borer resistance" **By:**The Board on Science and Technology for International Development (BOSTID), USA (1992-1994)

- "Study of Expression of Bt toxin genes in Rice" **By:** Rockefeller Foundation (1993-1995)
- "Development of genetic resistance to common pests of Rice crop through expression of Bt toxin genes" **By:** Rockefeller Foundation (1993-1996)
- "Molecular Characterization and prenatal diagnosis for the prevention of Thalassemia in Pakistan" **By:** International Atomic Energy Agency (IAEA) (1995-1998)
- "Development of genetic resistance to common pests of Rice crop through expression of Bt toxin genes" **By:** Rockefeller Foundation (1996-1997) (1997-2000)
- "Molecular characterization of new *B. thuringiensis* Toxin genes" **By:** International Centre for Genetic Engineering and Biotechnology (ICGEB) (2000-2003)
- Screening and characterization of Type II restriction and modification system

TEACHING:

Teaching BS/M.Phil./Ph.D Classes; Cell & Molecular biology, Microbiology, Immunology. Advances in GMOs, Pathophysiology of diseases, Entomology (insect classification & pest management, Insect Molecular Biology), Recombinant DNA Technology, Bacterial Genetics. Demonstrated the recombinant DNA techniques, antibody production, ELISA, Western Blotting, Southern Blotting, Northern Blotting, Protein purification, Column Chromatography. Research articles/proposal writing. All above courses would be taught with Lab work, Seminars (Tutorials), assignments and field work etc.

SEMINAR / CONFERENCES/WORKSHOP:

- 1- Fifth International Symposium Workshop on applications of molecular Biological Research in agriculture, health and environment, October 14-15, 1997 CAMB, Lahore, Pakistan
- 2- 7th International Conference on 'Trends in Biochemistry and Molecular Biology' April 2-5, 2003 at Institute of Biochemistry, University of the Punjab Lahore.
- 3- International Symposium workshop on applications of Biological Research in Agriculture and Health, March 27-31, 2004 at CAMB, Lahore, Pakistan.
- 4- Participated in Bioforum 2006 held in CEMB, My invention about Development of Lateral flow strip assays for GMO detection, Bt-receptor identification in agronomically important pests was displayed.
- 5- Participated in National Bioforum 2008 held in CEMB, My invention about Development of Lateral flow strip assays for GMO detection, Bt-receptor identification in agronomically important pests was displayed.
- 6- Certificate received "One day training course on Occupational Health and safety" organized by HEC and British Council at Lahore College for Women University, Lahore on 19-01-09.
- 7- Certificate received in "National Symposium Pharmacological Studies of Medicinal Plants" as a participant, organized by HEC & British Council at LCWU, Lahore 20-06-2009.
- 8- Certificate received in "2nd International Seminar on Medicinal Plants" as a participant, organized by HEC and British Council – JHELP, at Lahore College for Women University, Lahore 20-06-2009.
- 9- Attended "End of Link Dissemination Seminar" organized by HEC and British Council – JHELP, at Lahore College for Women University, Lahore 13-01-2010.
- 10- Certificate received in International conference on "Sustainable approaches for Pest and vector management in Pakistan" as a paper presenter, organized by WWF & Zoology Dept at LCWU, Lahore 21st and 22-2-2011.
- 11- Certificate received in International conference "Sustainable approaches for Pest and vector management in Pakistan" as a Member organizing committee, organized by WWF & Zoology Dept at LCWU, Lahore, 21st and 22-2-2011.

12. Attended ``anger management workshop`` organized by Department of Psychology at LCWU, Lahore on 30-5-2012
13. Attended the conference ``People health through quality pharmacy services`` organized by Department of Pharmacy LCWU on 25-5-2012, 26-5-2012
14. Certificate received in ``Invention to Innovation Summit`` as a participant & won the award also, organized by Pakistan Science Foundation University of the Punjab & Institute of Research Promotion, at University of the Punjab Lahore 18-6-2012.
15. Certificate received in ``Women in Leadership`` workshop as a participant, organized by FDC LCWU, British Council at LCWU on 11-10-2012.
16. Certificate received in ``Intellectual property Rights: Patents & Patenting`` Training workshop as a participant, organized by COMSATS Institute of Information Technology (CIIT) on 29-1-2013, 30-1-2013.
17. Certificate received in ``Intellectual property Rights: Patents & Patenting`` Training workshop as a participant & resource person, organized by ORIC, LCWU, on 22-2-2013.
18. Certificate received in ``Young researchers skill development`` Training workshop as a participant, organized by NAYS & Department of Botany, LCWU, on 28-2-2013.
19. Certificate received in `` invention to innovation summit 2013+UIP Exhibition of Indigenous Technologies`` Training workshop as a participant, organized by, PSF, IRP, University of the Punjab and PCST on 9-4-2013, 10-4-2013.
20. Certificate received in `` Advances in Scientific Methodology and Ethics`` five days Training workshop as a participant, organized by The University of Warwick, DFDI, LCWU, on 1-4-2013 to 5-4-2013.
21. Certificate received in `` Introduction to Application and Analysis of Qualitative Research Using NVIVO version 10`` one-day Training workshop as a participant, organized by the DFDI, LCWU, on 4-7-2013.
22. Certificate received in ``Drafting Patent Application`` Training workshop as a participant, organized by COMSATS Institute of Information Technology (CIIT) on 11-10-2013.
23. Certificate received in ``New paradigm of Learning Organization`` workshop as a participant, organized by the DFDI, LCWU, on 27-11-2013, 28-11-2013.
24. Certificate received in ``Plant diseases`` workshop as a participant, organized by the DFDI, LCWU, on 27-11-2013, 28-11-2013.
25. Certificate received in ``Change Management`` workshop as a participant, organized by the DFDI, LCWU, on 10-12-2013.
26. Certificate received in ``Time Management`` workshop as a participant, organized by the DFDI, LCWU, on 11-12-2013.
27. Certificate received in ``Invention to Innovation Summit`` as a participant, organized by Pakistan Science Foundation University of the Punjab & Institute of Research Promotion, at University of the Punjab Lahore 19-3-2014, 20-3-2014.
28. Certificate received in ``Leadership skills`` workshop as a participant, organized by Department of gender studies & DFDI, LCWU, on 27-3-2014.
29. Certificate received in ``2nd intercollegiate & University poster exhibition; the revolution of Biotechnology`` as a participant, organized by Department of Biotechnology, LCWU, on 18-4-2014
30. Certificate received in ``workshop on awareness about emerging issues of cancers in Pakistan as a participant, organized by Department of Biotechnology, LCWU, on 7-5-2014
31. Attended the seminar on ``Research Methodology Breaking the Myths and Benefits of Patents`` at Hailey College of commerce PU on 7-2-2015

32. Certificate received in ``Indigenous on campus Training under HEC Modern University Governance program`` as a participant, organized by the DFDI, LCWU, in Jan- Feb, 2015.
33. Certificate received in ``11th national honeybee farming and management training workshop`` as a participant, organized by the Department of Zoology, PU on 9-3-15 to 13-3-15.
34. Organized and attended the seminar on ``Entrepreneur model in human health`` organized by Department of Pharmacy and ORIC, LCWU, on 27-3-2015
35. Organized and attended the seminar on ``Forensic Science in Crime Detection`` organized by ORIC, LCWU, on 17-6-2015
36. Attended one-day National Symposium on ``How to develop strong linkages between Business, Industry and Academia`` on 6 august 2015 at HEC Islamabad
37. Certificate received in an event on ``SSGATE`` as Guest of Honor on 14th November 2015
38. Attended training program ``Indigenous on camping training`` under HEC Modern University Governance Program Phase 2 from October-November, 2015
39. Certificate received in Project management training by DFDI on 17-11-2015
39. Attended ``World quality day`` seminar organized by QEC LCWU on 9-12-2015
40. Attended International conference on Pak China Economic Corridor at GCU LHR on 9-12-015
41. Certificate received in International seminar on Recent updates on fish status in the river Indus in Punjab Pakistan organized under INSPIRE, SPEKE at GCU Faisalabad on 15-12-2015
42. Certificate received in International workshop on Fish Farming Practices in Punjab Pakistan organized under INSPIRE, SPEKE at GCU Faisalabad on 16-12-2015
43. Certificate & Alumni shield received in ``International Symposium on Advances in Molecular Biology of Plants and Health Sciences at CEMB on 29-12-2015—31-12-15
44. Attended SME meeting in LCCI on 2-1-2016
45. Attended the one-day seminar on ``Mercury Exposure & Health Risks; Dental Mercury Amalgam use in Pakistan`` organized by Environment Science, LCWU, on 14-1-2016
46. Attended the two-days national workshop on ``Government-Academia-Industry linkage`` at GCU Faisalabad on 25-1-16 & 26-1-2016.
47. Attended International conference on climate change & sustainable development organized by UCL, UK, ECO under INSPIRE-Transnational Education partnership Programme at LCWU on 28-1-2016 to 30-1-2016
48. Attended and shield received in ``2nd International conference on Biotechnology; Challenges and Opportunities in Pakistan`` in University of South Asia as Guest of honor, received shield on 24-2-16, 25-2-16
49. Certificates received in ``Invention to Innovation Summit`` as a participant & invited guest Director ORIC, & received the technology award as Director ORIC on the behalf of IT LCWU, organized by Pakistan Science Foundation University of the Punjab & Institute of Research Promotion, at University of the Punjab Lahore 2-3-2016, 3-3-2016.
50. Certificate received as winner in Sport Gala 2016 held at CAMB University of the Punjab Lahore on 7-3-2016 to 9-3-2016.
51. Attended and papers presented in ``3rd International conference on Global Environmental Changes held in GCU, Faisalabad on 22-3-16, 23-3-16
52. Attended Inaugural session of ``Project formulation workshop`` as invited guest being Director ORIC, in GCU, Lahore on 30-3-2016, 31-3-2016
53. Certificates received in 2nd national workshop on ``organic food and health; avenues of innovation and entrepreneurship`` as a participant, in UMT on 29-8-2016

54. Chair the session of seminar on ``Congo virus`` seminar in CEMB on -9-2016
55. Chair the session of seminar on ``Breast Cancer Awareness`` in CEMB on 3-10-2016
56. Certificate received as resource person in International seminar on `` Recent trends & technique to evaluate aquatic toxicity`` as resource person at GCU, Faisalabad, on 21-12-2016
56. Invited guest inHands on training on Clinical Diagnostics workshop in CAMB on 21-10-2016
57. Attended the seminar on ``Lungs and bronchial disease`` in CAMB on 17-11-2016
58. Attended, paper presented & Chair the session of 3rd International conference on Biotechnology; Challenges & Opportunities in Pakistan`` in University of South Asia & received shield on 24-2-17, 25-2-17
59. Attended & paper presented in the 37th Pakistan Congress of Zoology, as paper presenter held in GCU, Faisalabad, Pakistan on 28-2-17, 2-3-17
60. Attended ``Invention to Innovation Summit ``as invited guest Ex-Director ORIC organized by Pakistan Science Foundation University of the Punjab & Institute of Research Promotion, at University of the Punjab Lahore -3-2017, -3-2017.
61. Certificate of participation received and poster presentation in International conference on Biotechnology; Challenges & Opportunities in Pakistan`` in Lahore Garrison University Lahore on 11-10-2017, 12-10-2017.
62. Invited guest in opening ceremony of ``7th international conference on biotechnology and bioengineering`` in virtual university on 26-10-2017, 27-10-2017.
63. Invited keynote speaker ``Isolation of DNA Restriction Enzymes through Chromatography`` in National Workshop on Chromatographic techniques, in UVAS on 30-31-10-2017.
64. Invited keynote speaker``Analysis of genetically modified crops by development of quick lateral flow strip (dipsticks) detection method based on immunochromatography`` and chairperson in session at `International conference on Solid State Physics`` in Centre of Excellence in Solid State Physics, at University of the Punjab Lahore on 10th to14-12-2017.
65. Attended and received shields as member; supervisory committee, as Alumni in 2nd International symposium on Advances in Molecular Biology of Plants and Health Sciences, in CEMB, University of the Punjab Lahore on Nov 2017.
66. Certificate received international symposium on ``*Moringa oleifera*; recent trends and challenges in processing and product developments`` as participant session chair & oral presentation in CEMB auditorium organized by University of Sargodha and PARB on 9-10 April 2018
67. Certificate received in DURC workshop in CEMB auditorium organized by HSP, GULL, CEMB, on 16-18 July 2018.
68. Attended and received shield as chairperson in session; Molecular Biology & toxicology at `International conference on Applied Zoology held in GCU, Faisalabad, Pakistan on 10-10-18, 11-10-18.
69. Certificate received as Invited keynote speakerina 02 days Training Workshop on "Cell Culture Techniques for the Production of Biologics" at Institute of Biochemistry and Biotechnology, UVAS, Lahore on 24-25 October, 2018.
70. Invited for Oral Presentation titled "Genetically Modified Crops: Insect Resistance" and abstract published in the International Conference organized by Faculty of Sciences, University of Kotli Azad Jammu and Kashmir, on "Natural Sciences at the Interface of Climate Change, Food Security and Sustainability (NSICFSS)", at University of Kotli Azad Jammu and Kashmirheld on October 24 to 26, 2018 .

71. Invited for Oral Presentation titled “Antibacterial Potential of *Calliandra* sp. Extracts against food contaminating Bacteria” and abstract published in the International Conference IC-FAST 2019 organized by University of the Punjab Lahore 15-17-1-2019
72. Invited as guest of honor during inaugural session of the International fisheries and aquaculture Conference 2019 on “Emerging trends for sustainable exploitation of aquatic resources” at Faletti’s hotel organized by UVAS on 30-31 1-2019.
73. Certificate of appreciation received on successfully organizing Web of Science Conference held on 11-3-2019 at CEMB.
74. Certificate of appreciation received for active participation as member organizing committee in 2 days workshop entitled Hands on training workshop on CRISPER/Cas genome Editing technology held on 29, 30-4-2019 at CEMB.
75. Attended & received certificate as Co-chairperson in first session; (Keynote speakers & Chairperson in session; Fisheries, Wildlife, Poultry, Nutrition & Nanotechnology) in 2nd International conference on Applied Zoology held in GCU, Faisalabad, on 19th & 20-12-2019
76. Attended the zoom webinar on Future prospective of Fisheries and Aquaculture 18-10-2020
77. Attended the zoom webinar by ProQuest on 17 & 24-11-20, 8th 15th & 22-12-20 by HEC
78. Certificate of appreciation received for active participation as member organizing committee & Chairperson in session in one day International Symposium on Development of CKC technology held on 15-12-2020 at CEMB.
79. Attended the virtual 3rd International conference on Applied Zoology held in QAU, Islamabad, Pakistan on 7th & 8-12-2020
80. Attended the zoom webinar on Innovation & Entrepreneurship” on 3rd February 2021 by AIU
81. Certificate received on poster presentation in 20th Shaukat Khanum Cancer Symposium on “Assessment of Synergistic Antibacterial Activity and Anticancer Effect of Five Indigenous Plants held in Shaukat Khanum Cancer Hospital Lahore Pakistan on 5th-7 November, 2021.
82. Shield as Guest of honor & Certificate received for active participation as member organizing Committee in Hands on training workshop on structural bioinformatics tools held on 23-25, February 2022 at CEMB.
83. Attended as Chief Guest in the Seminar “The export of sensitive goods and technologies by SECDIV’ organized by CAMB, on 21-4-22 at CEMB
84. Organized Islamic series lecture on Islam-the code of life by Mufti Hassan on 15-9-2022
85. Organized training workshop on personal development Finding your purpose on 23rd -25-9-22
86. Organized enlightening lecture ‘Muslim world & current global scenario’ on 7-10-2022
87. Organized a seminar on Biosafety & Biosecurity held on 3-10-2022
88. Organized a lecture ‘Forgiveness Friday’ by Academy of Champions held in CEMB on 21-10.
89. Invited as guest in 8th International & 17th national conference on Advances in plant Science in the era of climate change in GC University Lahore 26-10-2022.
90. Participated (Certificate received) in Pakistan chemical Expo 2022 organized by Pakistan chemical manufactures Association
91. Invited as guest in International Seminar “The Climate Nexus” in FAS PU on 29-11-2022
92. Organized as Director International Symposium on Health Sciences in CEMB on 17-11-2022
93. Organized as Director a national pre-con workshop Hands on training workshop on designing CRISPR/Cas targets held on 7-12-2022
94. Organized as Director Pak Health International Expo in Expo Centre on 8th to 10-12-2022

95. Organised International conference on Plant Molecular Biology as Patron, in CEMB on 14th to 15-12-2022
96. Organised as Director ``three days training workshop on key factors for optimal health by Academy of Champions held in CEMB on 25-27th , 28-29th November 2022
97. Organized a lecture ‘Life Sciences innovations: from biotech to meditech to foodtech by Dr. Farid Khan held on 23-12-2022
98. Organized a lecture ‘Metarhizium a multifunctional microbe by Prof. Dr. Muhammad Tariq Butt personal chair biosciences, Swansea University UK on 26-12-2022
99. Organized as Director ``two days training workshop on key factors for optimal health by Academy of Champions held in CEMB on 28-29th November 2022
100. Attended the seminar ``Science Journalism`` held in FCCU on 11-1-2023
101. Attended, Organised & chaired session as Director ‘International conference on Mitigation and adaptation on climate change; focus on agriculture & food’ held in FCCU on 6th-8-2-23
102. Organised International seminar with PPA & AARI, ORI`` Soybean awareness and potential of Soybean cultivation in Pakistan held in CEMB on 23-1-2023
103. Invited as Director CEMB in Seminar GMO`s Issues & Future Strategies in UVAS. 10-2-23
194. Organised International Conference on Health Sciences as Patron, in CEMB on March 2-3-2023.
105. Organized a Mini Workshop on Reimagining New Agriculture Economy from Engineered Yeast-Production of High Value Products from Sugarcane Industry on March 3rd, 2023 at CEMB.
106. Invited as Guest of Honor in closing ceremony & chaired the session in 2nd International two days conference of Zoology on 7th 8-March 2023 held in University of Education Lahore.
107. Invited as Distinguished Guest in inaugural & closing ceremony 42nd International Congress of Zoology on 16th to 18th -March 2023 held in University of Punjab, Lahore.
108. Invited speaker in a seminar “Challenges, Opportunities and Trends in Biotechnology in Pakistan” organized by EPA (Environmental Protection Agency) in Serena hotel, Islamabad on 22nd March, 2023.
109. Invited by Coordinator General, COMSTECH to attend the event “The Sino-COMSTECH Collaborative Initiative Strengthening Cooperation in Traditional Medicine & Allied Biomedical Sciences in OIC Member States” held at COMSTECH Secretariat, Islamabad on 27-4-2023
110. Invited by EPA & Ministry of MOCC to attend the meeting of Experts on Biosafety, Biotechnology & Genetic Engineering as Member TAC, held in Serena Hotel Islamabad on 20th June 2023.
111. Invited as Guest of Honor & received shield in National Conference Recent trends in Biosciences BIOCON 2023 organized by Department of Forensic Sciences Centre for Biotechnology & Microbiology, on 21st – 23rd June 2023 held in University of Swat.
112. Attended the webinar ``Pesticides, Politics, pollinators & parasitoids`` arranged by HEC-BZU on 10-10-2023.
113. Appreciation Certificate (award) received from PHEC on participation in All Punjab Universities Innovation Expo on 20-11-2023
114. Attended (online) the webinar ‘Biotech Innovation, Regulation Innovation’ held on 24-25 January 2024 in Dubai
115. Participated in International Education Day by Posters display on Antibody production and Dipstick development on 24-1-2024 in Islamabad

116. Invited as Former Director CEMB & senior most faculty in opening & closing ceremony of 'DNA sequencing: Hands on training workshop, held in CEMB on 29th to 3-2-2024
117. Invited in Inaugural session, Attended & part of Organising committee of International Conference: Current Trends, Prospects & Opportunities in Vaccine Research' held in CEMB on 28th -29-2-2024
118. Received Award and participated in Innovation and Invention summit in University of the Punjab Lahore on 29-2-2024
119. Invited in Inaugural & closing sessions of 'Hands on training workshop on real time PCR' held in CEMB on 24th -25-4-2024
120. Invited to Policy Dialogue on Research & Development for Emerging priorities in health sector: Future of healthcare industry in Pakistan (attended online) organized by KMU & JIC held in KMU on 18-7-2024
121. Invited by Pakistan Society of International Studies (PSIS) to attend webinar on Higher Education on Pakistan: problems, prospects and way forward` on 25-7-2024

MEMBERSHIPS:

1. Member **Syndicate UVAS (6-4-2023 to 6-4-2026), Lahore**
2. Member Institutional Biosafety Committee **UVAS Lahore**
3. Member of Selection Board nominated by **Syndicate UVAS (6-4-2023 to 6-4-2026), Lahore**
4. Member of **Board of Advanced Studies research, women University of Sialkot**
5. Member (Expert) of **Board of Studies: School of Biochem & Biotech, University of Lahore**
6. Member (as **Chairperson**) of Institutional Ethical Review Board (IERB)-CEMB
7. Member **Selection Board School of Biochem & Biotech, University of the Punjab, Lahore**
8. Member **Selection Board** (permanent), **University of Sahiwal.**
9. Member **Selection Board** (as expert of Biotech & Biochemistry), **Women University Multan**
10. Member **Selection Board** (as expert of Zoology), **University of Mianwali**
11. Member **Board of Studies of Molecular Biology, University of Lahore**
12. Member **Molecular Biology Research Consortium, Lahore**
13. Ex-Member **Syndicate UVAS (2016-2019), Lahore**
14. Member **BOS of Molecular Biology, Virtual University, Lahore**
15. Member **Selection Board** (as expert of Human Genetics & Immunology), **University of Health Sciences, Lahore.**
16. Member **Selection Board** (as expert of Biotechnology & Zoology) **BZU. Multan**
17. Member **Selection Board** (as expert of Zoology) **University of Education, Lahore**
18. Member **Selection Board** (as expert of Zoology, Microbiology, Biotech & Bioinformatics) **BOS, Ex-Member Syndicate GCUF. GCU, Faisalabad**
19. Ex-Member as **Advisor, Punjab Public Service Commission, Lahore.**
20. **Member of Association of ORICs Pakistan (AOP)**
21. Member **Selection Board, University of Sargodha.**
22. **Life fellow Membership of Zoological society of Pakistan in 2018**
23. Ex-Member **Selection Board** (as expert of Biotechnology), **University of the Punjab,**
24. Member **Selection Board** (permanent), **University of the Gujrat.**
25. Member of **BOS, DDPC of CAMB, University of the Punjab, Lahore**
26. Member **Selection Board** (as expert of Zoology) **University of Education, Lahore**
27. Member of **BOS of CEMB, University of the Punjab, Lahore**
28. Member of **Admission Committee; M.Phil/PhD CEMB, University of the Punjab,**
29. Member of **Board of Studies, Institute of Biotechnology, MUST Mirpur.**
30. Member **BOS of Zoology & Biotechnology Departments, UMSIT University of Kotli**
31. Member of **Board of Studies, Department of Biotechnology University of South Asia,**
32. Member of **BOS, Department of Zoology University of Central Punjab, LHR**

33. **Member standing Committee LCCI, Lahore.**
34. **Ex-Member of Academic council, Chairperson Member of Research Committee, Convener; Ex-Member of Physical inspection of Scientific Purchase, Physical Resource Committee, Senior Key Management Committee, DTRC of Zoology, Biotechnology, Chemistry, Envi. Sci., Botany, BOS of Zoology & Biotechnology Departments, Dengue Prevention Committee, Focal person Member of LCWU for PASTIC, Infrastructure Committee, LCWU**
35. **Member of Board of Studies, Institute of Biotechnology, BZU. Multan**
36. **Member; Eastern Mediterranean Health Genomic & Biotech Network (EMHGBN)**
37. **Membership of New York Academy of Sciences (NYAS)**
38. **Membership of American society for Microbiology (ASM)**
39. **Membership of Entomological society of America (ESA)**
40. **Member of International Who's Who Historical Society of Professionals**
41. **Member of Editorial committee (Pakistan Botanical Society).**
42. **Member of Editorial Board (National Advisory Panel) of Bi-Annual Sindh University Journal of Aquaculture & fishries, Notification No:SU/G/SURJS-PF/-740**
43. **Member of Advisory Board; *The Environ Monitor (Journal of Environmental Sciences, Technologies & Engineering)* ISSN: 1684-8012**
44. **Member of Editorial Board of International Journal of Cell & Molecular Biology**
45. **Member of Editorial Board of BEPLS, International J. Medical Physiology and Pathology and World Journal of Clinical Pharmacology, Microbiology and Toxicology**
46. **Member of International Organization of Scientific Research (IOSR)Journal's Editorial board**
47. **Member of International conference committee of World Academy of Science Engineering and technology (WASET)**
48. **Member of Editorial Board of ``Annals of Applied Zoology`` a journal of AZSP.**
49. **Invited evaluator of HEC Projects.**

NOMINATIONS:

Nominated by CEMB for Civil award (Tamgha-e-imitiaz & Pride of Performance) in 2022

Nominated by VC-LCWU for Civil award (Tamgha-e-imitiaz) in 2016

Nominated by PCST for research productivity award & Productive Scientist 2015.

Nominated by LCWU for Best University Teacher award 2011

Nominated by LCWU for President Medal for technology 2013-2014 award.

Nominated by PCST Productive Scientist 2012.

Nominated by CEMB, for the post of Director of National Biosafety Centre, Islamabad.

Nominated by VC (BZU, Multan), as expert of Biotechnology in selection Board

Nominated as expert of Biotechnology in selection Board of IBB, University of the Punjab.

Nominated by Idara Farogh-e Taleem for Best Performance award 2022, 2023

External examiner:

Evaluated 195 Theses (55 PhD, 121 MS & 19 BS), 21 PhD synopsis of following Universities:

- Institute of Biotechnology, Institute of pure & applied Biology BZU,
- Institute of Biochemistry & Biotech (IBB), Microbiology & Molecular Genetics (MMG), Institute of agricultural Sciences, Department of Zoology, CEMB, CAMB, School of Biological Sciences, School of Biochemistry & Biotechnology, University of the Punjab, Lahore
- Government College University (GCU) Lahore
- Lahore College for Women University (LCWU) Lahore
- University of Education, Lahore
- University of Health Sciences (UHS), Lahore
- University of Veterinary and Animal Sciences (UVAS), Lahore

- University of South Asia, Lahore
- Virtual University Lahore
- Sindh University Jamshoro, Sindh
- Mirpur University of Science and Technology (MUST), Mirpur
- University of Lahore,
- University of Central Punjab Lahore
- University of Sargodha,
- Government College University (GCU), Faisalabad
- Formen Christian College (A chartered University) Lahore

Invited Reviewer:

Natural Product Research, Impact factor: 1.057
 European Journal of Medicinal Plants
 Pure and Applied Biology
 Pakistan Journal of Botany (PJB) Impact factor: 0.947
 African Journal of Microbiology Research (AJMR) Impact Factor; 0.564
 Journal of Public Health and Epidemiology (JPHE)
 International Journal of Medicinal Plants Research
 Global Advanced Research Journal of Environmental Sci. & Toxicology
 International Journal of Cell & Molecular Biology (IJCMB). I.F; 1.94
 International Research Journal of Plant Science (IRJPS)
 African Journal of Biochemistry Research
 African Journal of Agriculture Research
 BIOCELL USA I.F; 1.1

RESEARCH PROJECT:

- “Innovative strategic plans to improve public health in the East Mediterranean Region (EMR) during outbreaks of emerging and re-emerging zoonotic infections.” Funded by East Mediterranean Region (EMR) 2.5 M PKR 2022-2023
- Development of cotton lines with economical traits and resistance to wilting diseases. A Collaborative project with Azerbaijan funded by Islamic Development Bank (IDB). USD: 150,0002022-2025
- Centre of excellence grant: Advanced molecular biology approaches for improved healthcare and disease diagnosis 137 million
- Grand Challenge Fund (GCF); 20 Million “Development of novel plant based food preservatives and biopesticides for stored food items” outline shortlisted by HEC, full proposal..... submitted in 2020
- Four Research projects submitted to HEC in 2017
- Studies on rapid detection of *E. coli* and enhancement of assay sensitivity, under National Research programme for universities (HEC), submitted in 2008 & approved. (6 Million)
- Grand Challenge Fund (GCF); 53.5 million “Development of a green algae based self-sustainable biocontrol agent for Mosquito larva.... Submitted in 2021.....shortlisted
- European Foundation for Study of Diabetes project entitled: “Targeting the renal metabolic memory” worth 125,000 Euro; NRP 2 projects of 10.6 millions & 1 mega project shortlisted by HEC awarded to CEMB during my Directorship
- TDF Project (PI) “Biosensor Development for quick screening of Bt transgenic crops for insect resistant trait at large scale”. 13.658M..... Short-listed by HEC
- TDF Project (PI) “Monoclonal Antibody Generation for use in R&D and clinical applications in patients 13M..... Short-listed by HEC

- TDF Project (Co-PI) “Development of cell replacement for repair of damaged and diseased organs 13M..... Short-listed by HEC

HEC-project Evaluator.

Appreciation by HEC received upon timely evaluation of several research projects.

HEC approved Ph.D Supervisor:

Supervised Post-Doc training:

Prof. Dr. Tahira Mughal--- in Molecular Biology techniques (2017-2018)

Supervised Ph.D. Theses:

1. **Ph.D--Muhammad Ali Talpur**---HEC funded student (2010) “Genetic Improvement of a local isolate of *Bacillus thuringiensis*” at CEMB, University of the Punjab, Lahore
Supervisors Prof. Dr. **Kausar Malik**, Prof. Dr. Tayyab Husnain
2. **Ph.D—Amina Abrar (Ph.D 2016-2019) LCWU**---“Eco friendly biological control of Dengue vector by using local isolates of entomopathogenic fungi from soil”
Supervisors Prof. Dr. Tahira Mughal, Prof. Dr. **Kausar Malik**
3. **Ph.D—Ms Shabnoor 2020(/1005/Ph.D/2015-2018 Reg No;-2007-GCUF-2300-324)** “Study on nickel nanoparticles induced hepato & nephrotoxicity & ameliorative effects of *cinnamomum cassia* & *Moringa oleifera* in male spague Dawley rats.
Supervisors Prof. Dr. F. Jabeen, Prof. Dr. **Kausar Malik**
4. **Ph.D—Ms Afshan Afreen 2023 (IJU302A01B 19-2-2014-2018)-MUST Mirpur** “The enhancement of therapeutic potential of bio-engineered scaffolds/skin by growth factor/Drug loaded nanoparticles. **Supervisor:** Dr. Muhammad Tariq Awan & Dr. **Kausar Malik**.
5. **Ph.D— Ms Nazia Khalil 2023 (707/PhD/2014-017 GCUF)** Toxicological Studies of some Pyrethroid Insecticides in Albino Rats. **Supervisors** Dr. Kashif Zahoor, Prof. Dr. **Kausar Malik**
6. **Ph.D— Ms Bushra Riaz, 2023 (/1004/Ph.D/ 2015-2018) GCUF** Monitoring of pyrethroid insecticide resistance Kdr gene and its associated metabolic detoxification in housefly *Musca domestica* L from Punjab Pakistan. **Supervisors:** Dr. Muhammad Kashif Zahoor, Prof. Dr. **Kausar Malik**
7. **Ph.D—Ms Amama Ghafar, 2024** Session 2018-2023 (**Ph.D-MB20F18**) Identification of Molecular determinants of Intellectual disabilities **Supervisors:** Dr. Asma Ali Khan, Dr. Saima Riaz, Prof. Dr. **Kausar Malik**
8. **Ph.D—Ms Fareeha Ashraf, 2024 (Ph.D-MB14F17)** Cloning and expression of Matrix 2 ectodomain of influenza Virus fused with Cholera toxin B gene in the chloroplast of *Chlamydomonas reinhardtii*” **Supervisors** Dr. Mohsin, Dr. Nadeem, Prof. Dr. **Kausar Malik**

Guidance provided in M.Phil./Ph.D thesis to ninety percent students of CEMB (1990-2008).

9. **Ms Saima Asif, PHBTM-19-10. BZU** “Evaluation of Spinach (*Spinacia oleracia* L.) irrigated with microbially treated leather industry effluent during hormonal supplementation
Supervisors: Dr. S. Rasul. Prof. Dr. Kausar Malik..... 2024 **Thesis submitted**
10. **Ms Shumaila Moazzam (Ph.D-MB18F17)** Identification of Micro RNA Associated with Anthracycline Resistance in Cancer Cells & their Modulation for Resistance Reversal.
Supervisor: Dr. Kausar Malik

11. Mr. Husnain Qamar (**Ph.D-MB17F18**) Screening and Molecular Characterization of Bacteriophages and their Therapeutic Approach against Multi Drug Resistant (MDR) Uropathogens **Supervisors;** Prof. Dr. Kausar Malik, Dr Samia Afzal,
12. Ms. Noor Aqsa (**Ph.D-MB09F21**) Isolation, Characterization and Antibacterial potential of Bacteriophages against Multi Drug Resistant Gram negative Bacteria.
Supervisor Prof. Dr. Kausar Malik
13. Ms. Seerat E Fatima Develoment, production of antibody against HER2

M.Phil STUDENTS SUPERVISED: 46 MS, 17 B.S. (Hons)

Supervised MS (21), M. Sc (1) & BS (16) Theses (2009-2015) in LCWU

1. Study of stress related changes in serum cortisol level in female nurses before and after duty hours. **B.S. (Hons) 2009**
2. A Study of the prevalence of ABO and Rh Blood groups in patients with Diabetes Mellitus Type II in different hospitals of Lahore. **B.S (Hons) 2009**
3. Correlation between serum lipid profile and obesity in general population of Lahore **B.S. (Hons) thesis 2009**
4. Screening of pathogenic microorganisms in egg and tap water samples collected from different localities of Lahore **(M.Sc. thesis) 2009**
5. Screening of pathogenic *E.coli* from samples of meat (Beef, Chicken and Quail) collected from Lahore. **B.S. (Hons) thesis 2009**
6. Screening of pathogenic *E.coli* from various samples of Dahi Bhalla, Fruit chat and Fish collected from different areas of Lahore.Co-Supervised **B.S. (Hons) thesis 2009**
7. Microbial and immunological studies of pathogenic *E. coli* in raw milk samples collected from different localities of Lahore. **B.S. (Hons) thesis 2010**
8. Immunoassay based screening of pathogenic *E. coli* in food samples collected from different localities of Lahore and Gujranwala. **(M.S.thesis) 2010**
9. Molecular and immunological studies of pathogenic *Escherichia coli* in meat samples collected from different localities of Lahore. **(MS thesis) 2010**
10. Screening of pathogenic bacteria *E. coli* from fruit juices and milk shakes collected from different localities of lahore by microbial and immunological techniques **(MS thesis) 2010**
11. Biototoxicity assay of *Escherichia coli* against *Tribolium castaneum* **(BS thesis) 2011**
12. Biototoxicity assay of *B. thuringiensis* (spores) against *T. castaneum* **(BS thesis) 2011**
13. Synergistic effect of Dichlorvos+Tetramethrin, *Bougainvillea glabra*, Potassium chloride and *B. thuringiensis* efficacy on *Tribolium castaneum* **(MS thesis) 2011**
14. Biototoxicity assay of *Bacillus thuringiensis* with combination of sodium citrate, bifenthrin+cypermethrin and *saraca indica* on *Tribolium castaneum*. **(MS thesis) 2011**
15. Study on the combined insecticidal effect of pyrethroid, *azadirachta indica* and boric acid on the *Bacillus thuringiensis* efficacy in *Tribolium castaneum*. **(MS thesis) 2011**
16. Study of pathogenic microorganisms on the external body parts of American Cockroach (*Periplaneta americana*) collected from different kitchens. **B.S. (Hons) thesis 2012**
17. Isolation and Identification of pathogenic microorganisms on the external body parts of Carpenter Ant (*Camponotus pennsylvanicus*) collected from kitchens. **B.S. (Hons) thesis 2012**
18. Synergistic effect of locally isolated *B.thuringiensis* and turmeric powder on *T.castaneum*. **(MS thesis) 2012.**
19. Study of bacteria on computer's mice and keyboards **B.S. (Hons) thesis 2013**

20. Antiviral potential of Medicinal plants of Lahore Region against Hepatitis C Virus NS3 protease. Co-Supervised **(MS thesis) 2013**
21. Study on the combined pesticidal effect of black onion seeds (*Nigella Sativa*) and *Bacillus thuringiensis* on red flour beetle (*Tribolium castaneum*). **(MS thesis) 2013**
22. Biototoxicity assay of *Bacillus thuringiensis* with combination of cinnamon (*cinnamomum aromaticum*) on red flour beetle (*T. castaneum*). **(MS thesis) 2013**
23. Gene expression analysis of P₅₃ in HCV patients of genotype 3a **(MS thesis) 2014**
24. Effect of HCV genotype 3a on expression of Fas genes associated with apoptosis in HCV chronic patients **(MS thesis) 2014**
25. Expression analysis of BCL₂ gene in HCV chronic patients of genotype 3a. **(MS thesis) 2014**
26. Isolation and identification of *Salmonella sp* from Dahibhalay, fruit chaat and fruit juices collected from different localities of Lahore. **B.S. (Hons) thesis 2014**
27. Microbial studies of pathogenic *Escherichia coli* from coriander, mint leaves and lettuce collected from different localities of Lahore. **B.S. (Hons) thesis 2014**
28. Screening of *Staphylococcus sp* from beef, mutton, fish and quail meat samples collected from different localities of Lahore. **B.S. (Hons) thesis 2014**
29. Isolation and identification of food borne bacteria in sweet milk products (rasmalai & rasgulla), sold at sweet milk shops of Lahore city, Pakistan **B.S. (Hons) thesis 2015**
30. Screening of bacterial species in date (*phoenix dactylifera*) samples collected from different localities of Lahore **B.S. (Hons) thesis 2015**
31. Electrophoretic analysis of *Tribolium castaneum* after combined bioassay with cinnamon (*Cinnamomum aromaticum*), turmeric (*Curcuma longa*) and black seed powder (*Nigella sativa*). **(MS thesis) 2015**
32. Study of combined pesticidal effect of black mustard (*Brassica nigra*) fenugreek (*Trigonella vulgare*) seed powders on red flour beetle (*Tribolium castaneum*). **(MS thesis) 2015**
33. Identification of Salt Tolerant QTLs in wheat (*Triticum aestivum*) at Seedling Stage. Ms Adeesa Ali; MPBT-14-01 **(MS thesis) 2016**
34. Molecular diversity analysis of cotton genotypes (*Gossypium spp.*) in Pakistan. Warda Ramzan; MPBT-14-05 **(MS thesis) 2016**
35. Association Mapping of Agronomic Traits in Wheat (*Triticum aestivum L.*) Rabia Sehar; MPBT-14-07 **(MS thesis) 2016**
36. Association Mapping of Genes for yield and its component of wheat (*Triticum aestivum L.*) Maria Tahir; MPBT-14-09 **(MS thesis) 2016**
37. Muhammad Naeem, Genetic analysis of methicillin resistant *Staphylococcus aureus* and their antibiotic resistance paradigm 2015-GCUF-010336 **(MS thesis) 2017**
38. Ms Iqra Sarfraz, Evaluation of voltage Gated sodium channel (VgSc) gene mutation & associated Enzyme modulation in dengue vector (*Aedes aegyptii*) 2012-GCUF-01400 **(MS thesis)**
39. Ms Rida Shabbir, Antiviral assessment of Pakistani plants against hepatitis C Virus (HCV). **(MS thesis) 2018**
40. Ms Sehar Riaz, In vitro Antiviral screening of local medicinal plants of Pakistan against hepatitis C Virus (HCV). **(MS thesis) 2018**
41. Mr Husnain Qamar, Antibacterial, Antifungal and Phytochemical Assessment of *Dracocephalum nuristanicum* **(MS thesis) 2018**
42. Ms Qurat-ul-Ain, Pesticidal, Antibacterial and Phytochemical Assessment of Buck wheat (*Fagopyrum esculentum*) **(MS thesis) 2018**
43. Ms Arshia Nazir ``Assessment of four Indigenous Plants for their Pesticidal Effects, Antimicrobial Activity and Action Mechanism`` **(MS thesis) 2019**

44. Ms Adeena Saeed ``Antibacterial, Pesticidal and Antioxidant Assessment of *Diospyros malabarica* and *Matthiola incana*`` (MS thesis) 2019
45. Mr. Hafiz Zaid Mahmood, “Assessment of Phytochemicals and Antibacterial activity of slender Dwarf Morning-Glory (*Evolvulus alsinoides*) (MS thesis) 2019
46. Ms. Ayesha Liaqat, Study of Antimicrobial, Antioxidant Potential and Phytochemical Analysis of four Indigenous Plants (MS thesis) 2020
47. Ms. Tahoor Khalid, Phytochemical Analysis, Antibacterial and Antioxidant Assessment of two Indigenous Plants (MS thesis) 2020
48. Ms. Shajia Jabeen “In vitro determination of anticancer activity of medicinal plants against HepG2 liver cancer cell line” (MS thesis) 2020
49. Mr. Sherose Khalid ``Assessment of Antifungal potential and Phytochemical Analysis of Indigenous Plant *Yucca flaccida*`` (MS thesis) 2020
50. Ms. Khadija Abdul Majid Butt, ``Screening of Four Indigenous Plants for their Synergistic Antibacterial Activity and Anti-cancerous Effect`` (MS thesis) 2021
51. Ms. Zainab Akram, ``Assessment of synergistic Antibacterial activity and Anticancer effect of Five Indigenous Plants `` (MS thesis) 2021
52. Ms. Shahnaz ``Biotecology-spring 2019 48782 Determining hot spot sequence variation in NRAS gene in leukemia patients of Quetta hospitals (MS thesis) 2022
53. Ms. Khadija Faiz `` MB-13F20 “Isolation, Purification and Partial Characterization of Bacteriophages for the Bio-control of Multidrug-Resistant *Staphylococcus aureus* and Uropathogenic *Escherichia coli*” (MS thesis) 2022
54. Muhammad Asad MB-45F20 “Isolation and Molecular Characterization of Bacteriophages against the Multidrug Resistant Bacteria” (MS thesis) 2022
55. Mr. Saad ``MB-43F20 Biosafety and Toxicity Analysis of CKK Cotton On Albino Mice` (MS thesis) 2022
56. Ms. Seerat MB-39F20 “Purification and Exosome Encapsulation of rhIL-2 and its Anticancer Potential Studies” (MS thesis) 2022
57. Ms. Fareeha MB-06F20 Biosafety study of mosquito larvicidal transgenic algae using adults of Zebra fish (MS thesis) 2022
58. Ms. Farwa Zahra ``Mutational Analysis of Epidermal Growth Factor Receptor I gene in familial Lung Cancer Patients of Quetta, Pakistan (MS thesis) 2022
59. Mr. Gul Afroz Parwaz ``Mutational Analysis of tp3 gene in Esophageal Cancer Patients of Quetta, Pakistan (MS thesis) 2022
60. Ms Zoha Masood ``Isolation Purification and Partial Characterization of Bacteriophages for the Biocontrol of Multidrug Resistant Uropathogenic *Escherichia coli*” (MS thesis) 2023
61. Ms. Aimen Masuod ``Evaluation of wound healing ability of *Prunella vulgaris* extract based ointment in thermal burn model` (MS thesis) 2023
62. Mr. Ikram MB45F22 ‘Isolation and Partial Characterization of Bacteriophages from hospital sewage water against antibiotic resistant *Pseudomonas aeruginosa*. (MS thesis) 2024
63. Ms. Faiza MB18F22 Quddus “Periplasmic Soluble Expression Studies of Human Recombinant Interleukin 2” (MS thesis) 2024

Genbank submission:

11

Gen Bank Accession Q7M4K6

SUB5006256 Seq1	MK371710,	SUB5006256 Seq2	MK371711
SUB5006256 Seq3	MK371712,	SUB5006256 Seq4	MK371713
SUB5006256 Seq5	MK371714,	SUB5006256 Seq6	MK371715
SUB5006256 Seq7	MK371716,	SUB5006256 Seq8	MK371717
SUB5006256 Seq9	MK371718		

PATENTS:

8

1. A biopesticide for *Tribolium castaneum* in stored grains products (IPO # 256/2015).
2. A biopesticide having deleterious effects on stored grains pests (IPO # 389/2015).
3. A quick, easy, portable and economic procedure for detection of genetically modified organisms (IPO # 229/2015)
4. Novel Antibacterial and Pesticidal Potential of *Fagopyrum esculentum* (IPO # 62/2020)
5. Plant-based Biopesticide Development; derived from *Diospyros malabarica* to Control *Tribolium castaneum* (IPO # 61/2020)
6. Development of Effective Plant-based Biopesticide from *Calliandra harrisii* for the Control of *Tribolium castaneum* (IPO # 592/2020)
7. Novel recombinant human epidermal growth factor (rhEGF) gene expressed in yeast (*Pichia pastoris*) (IPO # 736/2021)
8. Genetically engineered algae (*Chlamydomonas reinhardtii*) expressing constitutively mosquito larvicidal cry II Ba gene and its derivatives. (IPO # 359/2021)

PUBLICATIONS: 277 (IMPACT FACTOR: 185):

48 research publications as 1st author,

38 research publications in last 5 years,

International (HEC recognized):170 (110 research articles+60 HEC recognized Proceedings)

ISI Journal; ASCI: Asia Science Citation Index; Thomson Reuters Master Journal List

National: 38 (9 articles+29 Abstracts published), Posters Presented= 18

Author of 4 book chapters,

Books Written (Published internationally)=15 (Vdm publishing House Ltd, USA),

Gene submission=11

Patents =8

A: International

1. Muhammad A Usmani, Amama Ghaffar, Mohsin Shahzad, Javed Akram, Aisha I Majeed, **Kausar Malik**, Khushbaht Fatima, Asma A Khan, Zubair M Ahmed, Sheikh Riazuddin, Saima Riazuddin (2024). A missense variant in HACE1 is associated with intellectual disability, epilepsy, spasticity, and psychomotor impairment in Pakistani kindred. Genes, 15(5) 580:1-9 <https://doi.org/10.3390/genes15050580> **IF: 3.9 W-category**
2. **Kausar Malik**, Aysha Liaqat, Ammara Riaz, Humaira Yasmin, Muhammad Asad, Amin Ullah, Khadija Abdul Majid Butt, Zainab Akram, Hossam M. Aljawdah, Tariq Nadeem (2024). Indigenous Plant Extracts as Novel Antimicrobial Arsenal: Unveiling the Potential of *Bismarckia nobilis*, *Choysia ternata*, *Chamaedora cataractarum*, and *Beaucarnea recurvata*. Journal of King Saud University – Science 36(4) 1-10 **IF: 4.25 W-category**
3. Muhammad Waqas Choudry, Pashma Nawaz, Neelam Jahan, Rabia Riaz, Bilal Ahmad, Muhammad Hassan Raza, Zohaib Fayaz, **Kausar Malik**, Samia Afzal (2024). RNA based gene silencing modalities to control insect and fungal plant pests – Challenges and future prospects. Physiological and molecular plant pathology 130 102241 **IF: 2.75 W-category**
4. Muhammad Saad Bhutta, Muhammad Awais, Abdul Raouf, Aqsa Anjum, Saira Azam, Naila Shahid, **Kausar Malik**, Ahmad Ali Shahid, Abdul Qayyum Rao, (2024). Biosafety and Toxicity Assessment of Transgenic Cotton-Harboring Insecticide and Herbicide Tolerant Genes on Albino Mice" Environmental Toxicology 13(2) **IF: 4.35 W-category** <https://doi.org/10.1093/toxres/tfae043>
5. Fareeha Amjad, Hamza Khan, Muhammad Islam Khan, Sidra Ayub, Rashid Bhatti,

- Rabbia pervaiz, **Kausar Malik**, Mohsin Ahmad Khan (2024). An oral toxicity assessment of a Mosquito Larvicidal Transgenic Algae (*Chlamydomonas reinhardtii*) Using Adult Zebrafish and Its Embryos. PLOS ONE 19(6):1-16 **IF: 4.0 W-category**
6. Nasira Rafi, Rabia Abbas, Nadeem Ahmed, Saad Tahir, Muhammad Akram, Mohsin Ahmad Khan, Nao Akusa Fujimura, Mariam Shafique, **Kausar Malik** (2024). Corn Steep Liquor as an Auto-Induction Medium for the Production of rhIFN- β -1b Protein in *Escherichia coli*. Iranian Journal of Science 48(4) 1-12
<https://doi.org/10.1007/s40995-024-01684-y> **IF: 1.9 X-category** by HEC
 7. Saba Tasneem, Hafiz Ghufuran, Maryam Azam, Amna Arif, Musab Bin Umair, Muhammad Amin Yousaf, Khurram Shahzad, Azra Mehmood, **Kausar Malik**, Sheikh Riazuddin, (2024) *Cassia Angustifolia* Primed ASCs Accelerate Burn Wound Healing by Modulation of Inflammatory Response Tissue Engineering and Regenerative Medicine 21(1):137-157 Online ISSN 2212-5469 DOI: [10.1007/s13770-023-00594-1](https://doi.org/10.1007/s13770-023-00594-1)
JCR Listed - IF: 3.7 X-category by HEC
 8. Muniba Mahmooda, Izza Taufiq, Sana Mazhara, Faiqa Hafeeza, **Kausar Malik** and Samia Afzal* (2024). Revolutionizing personalized cancer treatment: the synergy of next-generation sequencing and CRISPR/Cas9. Personalized Medicine 1-6. **X category IF: 1.97**
 9. Muhammad Hamza Basit, Bushra Rasheed, **Kausar Malik**, Zoha Masood, Samia Afzal (2024) Analysis of Transgenic Cotton Plants Containing Universal Stress Protein (GaUSP-1, GaUSP-2) and Zinc Finger Transcriptional Factor (GaZnF) Genes under Drought Stress. Critical ReviewsTM in Eukaryotic Gene Expression, 34(1):89–101 **IF: 1.65 Y-Category**
 10. Adnan Ahmad Qazi, Muhammad Ali, Farhat Jabeen, Rehana Iqbal, Muhammad Anwar Iqbal, Muhammad Latif, Zahid Farooq, Tasleem Kausar, Aneeqa Naz, Syed Ali Asad Naqvi, Shaista Jalbani, Sarfraz Hussain, M. A. Mehmood, **Kausar Malik**, A Hakim, Hamidullah, Naem Tariq (2023) Presence of selected organochlorine pesticides (OCPs) in sediments and biota of river Satluj, Pakistan First report. Brazilian Journal of Biology, 83:1-8. **ISSN: 1678-4375**
<https://doi.org/10.1590/1519-6984.243905> **JCR Listed - IF: 1.32 X-category** by HEC
 11. H.M. Shifaul Haq, Ramla Ashfaq, Azra Mehmood, Warda Shahid, Hafiz Ghufuran Azam, Maryam Azam, Saba Tasneem, Shehla Javed Akram, **Kausar Malik**, S. Riazuddin, (2023) Priming with caffeic acid enhances the potential and survival ability of human adipose-derived stem cells to counteract hypoxia caffeic acid Priming enhances the survival of hASCs hypoxia. Regenerative Therapy 22(2023): 115-127. **ISSN: 2352-3204 JCR Listed- IF: 3.419**
W-category by HEC
 12. Amna Ramzan, Azra Mehmood, Ramla Ashfaq, Anisa Andleeb, Hira Butt, Saima Zulfiqar, Muhammad Nasir, Anwarul Hasan, Kamran Khalid, Muhammad Yar, Kausar Malik, Sheikh Riazuddin (2023). Zinc oxide loaded chitosan-elastin-sodium alginate nanocomposite gel using freeze gelation for enhanced adipose stem cell proliferation and antibacterial properties International Journal of Biological Macromolecules 233: 123519
JCR Listed- IF: 8.0 W-category by HEC
 13. Maryam Azam, Hafiz Ghufuran, Saba Tasneem, Azra Mehmood, Kausar Malik, Muhammad Amin Yousaf, Moazzam N Tarar, Shehla Javed Akram, Sheikh Riazuddin (2023) Corrigendum to "Priming of adipose-derived stem cells with curcumin prior to cryopreservation preserves their functional potency: Towards an 'Off-the-shelf' therapy for burns Cryobiology 110:69-78 104565 **JCR Listed- IF: 2.73 W-category** by HEC
 14. Fatima Akram, Sania Sahreen, Farheen Aamir, Ikram ul Haq, **Kausar Malik**, Mamoona Imtiaz, Waqas Naseem, Narmeen Nasir, Hafiza Mariam Waheed (2023). An insight into modern targeted genome edited technologies with a special focus on CRISPR/Cas 9 and its applications. Microbial Sources Molecular Biotechnology 65:227-242 **Y-category** by HEC

15. Tariq S, Malik A, Landry KB, Malik M, Anjum H, Latief N, **Malik K**, Ijaz B* In Silico Screening of Compounds Derived From *Tectona grandis* Leaves Against Covid-19 NSP12 & NSP15 Through Molecular Docking Approach (2023) Biological and Clinical Sciences Research Journal eISSN: 2708-2261; p,ISSN: 2958-4728 2023: 285 1-9 DOI: <https://doi.org/10.54112/bcsrj.v2023i1.285> Y-category by HEC
16. Peerzada Fawad Ullah Jan, Samra Kousar, Atif Mahmood, Sarooj Nadeem, **Kausar Malik**, Waqas Safir, Nodia Shujaat, Fahim Ullah Khan, Mariam Shahid (2023) Risk loci for Chronic Obstructive Disease reside on Chromosome 14: a Case-Control study on the Pakistani population. Journal of Ayub Medical College Abbottabad, 35(2):203-209 Y-Category ISSN: 1025-9589 0.57 <https://jamc.ayubmed.edu.pk/jamc/index.php/jamc/article/view/11430>
17. Maham Akram, Mohsin Ahmad Khan, Nadeem Ahmed, Rashid Bhatti, Rabbia Pervaiz, **Kausar Malik**, Saad Tahir, Rabia Abbas, Fareeha Ashraf and Qurban Ali* (2023). Cloning and expression of an anti-cancerous cytokine: human IL-29 gene in *Chlamydomonas reinhardtii*. **AMB Express 13:23**
X-category by HEC <https://doi.org/10.1186/s13568-023-01530-1> IF: 3.98
18. Nao Akusa Fujimura, Seerat E Fatima, Nadeem Ahmed, Muhammad Akram, Saad Tahir, Mohsin Ahmad Khan, Imran Amirzada, Tariq Nadeem, Hamid Bashir, Kausar Malik (2023) Evaluation of Exosomes Encapsulated Recombinant Interleukin-29 for its in vitro Anticancer Studies. Journal of Biotechnology 373:24-33 IF=4.47 W-category by HEC <https://doi.org/10.1016/j.jbiotec.2023.06.008>
19. Fareeha Ashraf, Mohsin Ahmad Khan, Nadeem Ahmed, Muhammad Umar, Muhammad Islam Khan, Maham Akram, Rashid Bhatti, **Kausar Malik** (2023) Development of transgenic algae strain expressing *CTB-M2e* fusion gene an approach towards the development of a universal edible vaccine in Algae. Journal of Biotechnology 374:31-37.
IF=4.47 W-category by HEC
20. Naila Shahid, Sania Naeem, Mohsin Ahmad Khan, Saira Azam, Muhammad Saad Bhutta, Ayesha Latif, Aneela Yasmeen, Tahir Rehman Samiullah, Abdul Qayyum Rao, **Kausar Malik** (2023) "Engineering of *C. reinhardtii*'s chloroplast for mucosal immunotherapeutic against NDV" Journal of Applied Phycology Published online 9-10-23
IF: 3.56 W-category by HEC
21. Iqra Almas, Samia Afzal, Iram Amin, Muhammad Shahid, Muhammad Idrees, **Kausar Malik**. (2023) Quasispecies analysis through NGS and Identification of Escape mutation in a family infected with Hepatitis B Virus: A study from Lahore, Pakistan. Pakistan Journal of Zoology 1-4. IF=0.687. X-category by HEC
22. Adnan Ahmad Qazi, Muhammad Ali, Khalid Javed, Farhat Jabeen, **Kausar Malik**, Muhammad Anwar Iqbal, Hamidullah, (2023) Anthropogenic Activities and water quality: A case of river Satluj, Pakistan. Pakistan Journal of Industrial and Scientific Research 66B (1):74-80. X-category by HEC JCR Listed - IF: 0.26 ISSN: 1680-7073
23. Muhammad Hamza Basit, **Kausar Malik** (2023) Analysis of genetically modified crops by development of quick lateral flow strip (dipsticks) detection method based on immunochromatography. Pakistan Journal of Industrial and Scientific Research 66B(3):274-281 JCR Listed - IF: 0.26 X-category by HEC ISSN: 1680-7073
24. Adnan Ahmad Qazi*, Muhammad Ali, Muhammad Latif, Syed Ali Asad Naqvi, Shaista Jalbani, Farhat Jabeen, Rehana Iqbal, Zahid Farooq, Hamidullah, **Kausar Malik**, Aneeqa Naz, Sarfraz Hussain, Muhammad Anwar Iqbal, A Hakim, Naeem Tariq and Tasleem Kausar (2023). The level and distribution of selected organochlorine pesticides in water of

- River Satluj Pakistan Brazilian Journal of Biology, 83:1-7. **JCR Listed - IF: 1.32 ISSN: 1678-4375** <https://doi.org/10.1590/1519-6984.246776> X-category by HEC
25. Hassan Zaman, Aakif Khan, Khalid Khan, Shazma Toheed, Muhammad Abdullah, Hafiz Muhammad Zeeshan, Abdul Hameed, Muhammad Umar, Muhammad Shahid, Samia Afzal, **Kausar Malik** (2023). Adeno-Associated Viruses Mediated Gene Therapy. Critical Reviews in Eukaryotic Gene Expression 33(6): 87-100 DOI: 10.1615/Crit Rev Eukaryot Gene Expr. 2023048135 **Y-category by HEC IF: 3.98**
 26. Rashid Bhatti*, Hadia Shakeel, **Kausar Malik**, Muhammad Qasim, Mohsin Ahmad Khan, Nadeem Ahmed, Shajia Jabeen. (2022) Inorganic nanoparticles: Toxic effects, mechanisms of cytotoxicity and phytochemical interactions. Advanced Pharmaceutical Bulletin 12(4):757-762 **JCR Listed - IF: 4.62 ISSN: 2228-5881 doi: [10.34172/apb.2022.077](https://doi.org/10.34172/apb.2022.077)** W-category by HEC
 27. Muhammad Tariq, Bushra Tabassum, Allah Bakhsh, Abdul Munim Farooq, Zahida Qamar, Faheem Akram, Farah Naz, Abdul Qayyum Rao, **Kausar Malik**, Idrees Ahmad Nasir (2022) Heterologous expression of cry1Ia12 insecticidal gene in cotton encodes resistance against pink bollworm, *Pectinophora gossypiella* (Lepidoptera: Gelechiidae); an alternate insecticidal gene for insect pest management Molecular Biology Reports 2022;48;10557-10564 - W category by HEC **JCR Listed- IF:3.0**
 28. Atif Ahmad, Muhammad Safdar, Samran Sardar, Sahar Yousaf, Fiza Farooq, Ali Raza, Muhammad Shahid, **Kausar Malik**, Samia Afzal* (2022) Modern Vaccine Strategies for emerging zoonotic. Expert review of vaccines, 12:1711-17 (published online) **IF:5.683** W category by HEC
 29. Bushra Riaz, Muhammad Kashif Zahoor*, **Kausar Malik**, Aftab Ahmad, Humara Naz Majeed, Farhat Jabeen, Muhammad Zulhussnain and Kanwal Rania (2022). Frequency of Pyrethroid Insecticide resistance kdr gene and associated enzyme modulation in Housefly, *Musca domestica*. L. populations from Jhang, Pakistan. Frontiers in Environmental Sciences, 9 1-9 doi: [10.3389/fenvs.2021.806456](https://doi.org/10.3389/fenvs.2021.806456) W category by HEC
 30. Ghufi Azam, Maryam Azam, Azra Mehmood, Maria Baig, **Kausar Malik**, Shehla Javed Akram, S. Riazuddin (2022) Tumoricidal effects of unprimed and curcumin-primed adipose-derived stem cells on human hepatoma HepG2 cells under oxidative conditions. Tissue and Cell 79 (2022) 101968 **JCR Listed- IF:2.63 X category HEC**
 31. Saad Tahir, Nadeem Ahmad, Mohsin Ahmad Khan, Muhammad Akram, Rabia Abbas and **Kausar Malik** (2022) Production of stable serum albumin fused streptokinase in *pichia pastoris* Pakistan Journal of Zoology 1-9 X-category by HEC.
 32. Anum Syam, Amjad Nawaz, Muhammad Shahid, Muhammad Idrees, **Kausar Malik**, Samia Afzal*. (2022) Adenoviral Vector System: Construction, History and Therapeutic Applications. BioTechniques 73(6):297-306. **IF=2.746. X-category by HEC**
 33. Qurratulain Faryad, Numan Fazal, Bushra Ijaz, Afshan Zareen bilal, Kausar Malik and Noreen Latief (2022) Adipose derived to stem cells (ADSCA) pretreated with vascular endothelial growth factor (VEGF) promoted wound healing in rat skin burn model. Biological and clinical sciences research journal (BCSRJ). 2022:178. Doi: <https://doi.org/10.54112/bcsrj.v2022i1.178> **Y-category by HEC ISSN: 2708-2261**
 34. Hassan Ahmad, Numan Fazal, Muhammad Rauf Admad, Afshan Zareen Bilal, aad Ilyas, **Kausar Malik** and Noreen Latief. (2022) Sallyl-L-Cysteine-Induced anti-inflammatory and anti-apoptotic effects in chondrocytes are associated with suppression of the Mitochondrial inflammation pathway. Biological and clinical sciences research journal (BCSRJ) 2022(1). **Y-category by HEC ISSN: 2708-2261**

35. Haleema Sadia, Mukhtar Ullah, Asma Irshad, **Kausar Malik**, Waqas Ahmed, Rais Ahmed, Muhammad Umer Khan, Sana Ashiq, Ali Akbar, Atta ur Rehman, Shahid Raza, Kashif Iqbal Sahibzada (2022) "Mutational analysis of exons 5-9 of TP53 gene in breast cancer patients of Punjabi Population of Pakistan" *Advancements in Life Sciences*, 9(1) 18-23. **IF: 1.6 Y- category**
36. Fatima Akram, Zuriat Jabbar, Amna Aqeel, Ikram ul Haq, Shahbaz Tariq, Kausar Malik. (2022) A Contemporary Appraisal on impending industrial and agricultural applications of thermophilic-recombinant chitinolytic enzymes from microbial sources. *Molecular Biotechnology* 64(4): 1-21 **Y-category by HEC JCR Listed - IF: 2.7 ISSN: 1559-0305, 1073-6085** <https://doi.org/10.1007/s12033-022-00486-0>
37. Ammara Shams, Koloko Brice Landry, Faiza Shams, Nazia Kanwal, Sommayya Tariq, Ayesha Azeem, Hamza Anjum, Noreen Latief, **Kausar Malik**, Bushra Ijaz, (2022). Hepatoprotective and Anti-inflammatory Potential of Crude mehanolic extract of *Euphorbia pilulifera* via NF-KB/Nrf2/Akt/TGF- β 1 pathway. *Pakistan BioMedical Journal (PBMJ)* 5(5):162-167 **Y-category by HEC** DOI: <https://doi.org/10.54393/pbmj.v5i5.487>
38. Faiza Shams, Nazia Kanwal, Sommayya Tariq, Ayesha Malik, Kausar Malik, Bushra Ijaz (2022). Cyclopeptide Katala B12 as HCV-NS5A potent Inhibitor. *Pakistan BioMedical Journal (PBMJ)* 5(5):267-271. **Y-category by HEC** <https://doi.org/10.54393/pbmj.v5i5.483>
39. Sania Aamir, Iqra Mir, Muhammad Shahid, Iram Amin, Samia Afzal, Shazia Rafique, Rashid Bhatti, Amjad Nawaz, Fatima Butt, Rakhtasha Munir, Muhammad Idrees, and Kausar Malik (2022) Insights into the Structure, Replication, and Pathogenesis of the Severe Acute Respiratory Syndrome Coronavirus 2. *Re:GEN Open* (2)1:89-92, DOI: 10.1089/regen.2022.002 eISSNS: 2766-2609
40. Ansa Andleeb, Azra Mehmood, Tariq awan, Rashid Ahmad, Aneeta Andleeb, Ghufi Azam, amna ramzan, Asim Ejaz, **Kausar Malik**. S Riazuddin (2022). Hydrogel patch with pretreated stem cells accelerates wound closure in diabetic rats. *Biomaterials Advances*; 142, 2022, 213-150, ISSN 2772-9508 **Y- Category HEC recognized JCR Listed- IF: 8.5**
41. Zeeshan Javed, Haleema Sadia, Muhammad Javed Iqbal, Shazia Shamas, **Kausar Malik**, Rais Ahmed, Shahid Raza, Monica Butnariu, Natalia Cruz-Martins, Javed Sharifi-Rad (2021) Apigenin role as cell Signaling pathway Modulator: Implication in Cancer prevention and treatment *Cancer Cell International* 21:189 1-11. **W- category by HEC JCR - IF: 3.991 ISSN: 1475-2867** <https://doi.org/10.1186/s12935-021-01888-x>
42. Muhammad Javed Iqbal, Zeeshan Javed, Haleema Sadia, Ijaz A Qureshi, Asma Irshad, Rais Ahmed, **Kausar Malik**, Shahid Raza, Asif Abbas, Raffaele Pezzani, Javed Sharifi-Rad (2021) clinical applications of artificial Intelligence and machine learning in Cancer Diagnosis. *Cancer Cell International*. 21:270 1-11. **JCR - IF: 3.991 ISSN: 1475-2867** <https://doi.org/10.1186/s12935-021-01981-1> **W- category by HEC**
43. Asma Irshad, Nadeem Sarwar, Haleema Sadia, **Kausar Malik**, Irum Javed, Abdullah Irshad, Muhammad Afzal, Mazhar Abbas, Hina Rizvi (2020) Comprehensive facts on dynamic antimicrobial properties of polysaccharides and biomolecules-silver nanoparticle conjugate *International Journal of Biological Macromolecules* 145:189-196 **W-category by HEC (JCR-IF: 7.71). ISSN: 0141-8130** DOI: <https://doi.org/10.1016/j.ijbiomac.2019.12.089>
44. Afshan Afreen, Rashid Ahmed, Saadia Mehboob, Muhammad Tariq, Huda Ahmed Alghamdi, Alap Ali Zahid, Imran Ali, **Kausar Malik**, Anwarul Hasan, (2020) Phytochemical-assisted Biosynthesis of Silver Nanoparticles from *Ajuga bracteosa* for Biomedical Applications. *Materials Research Express* 7(7):1-13 **ISSN:2053-1591 JCR IF: 1.99** <https://doi.org/10.1088/2053-1591/aba5do> **X- category by HEC**

45. Haleema Sadia,*Munir Ahmad Bhinder, Asma Irshad, Beenish Zahid, Rais Ahmed, Sana Ashiq, **Kausar Malik**, Muhammad Riaz, Tariq Nadeem, Kanwal Ashiq, Ali Akbar. (2020) Determination of expression profile of *p53* gene in different grades of breast cancer tissues by real time PCR African Health Sciences 20(3):1273-1282. **JCR Listed - IF: 1.06 ISSN: 1680-6905** <https://dx.doi.org/10.4314/ahs.v20i3.32> X- category by HEC
46. Amina Abrar,* Tahira Aziz Mughal, Samina Sarwar, Muhammad Oneeb, **Kausar Malik**, Saif, S. Moneeza Abbas, (2020). *Aspergillus pakistanicus*: microscopy and phylogenetic analysis of new entomopathogenic fungi isolated from soil of Changa Manga forest, Pakistan. Applied Ecology and Environmental Research 18(3):3795-3804. X-category by HEC **JCR listed-IF: 0.86 ISSN: 1589-1623**
DOI: https://dx.doi.org/10.15666/aeer/1803_37953804
47. Amina Abrar,* Zarafshan Ali, Tahira Aziz Mughal, **Kausar Malik**, Muhammad Oneeb, Moneeza Abbas, Samina Sarwar, Husnain Qamar and Rida Nasir (2020). Effects of entomopathogenic *Aspergillus flavus* on tomato plant (*Solanum lycopersicum*) Pure and Applied Biology 9(1):517-527 **ISSN:2304-2478 Y-category** by HEC
DOI:<http://dx.doi.org/10.19045/bspab.2020.90057>
48. Arshia Nazir, **Kausar Malik*** Husnain Qamar, Muhammad Hamza Basit, Ayesha Liaqat, Muhammad Islam Khan, Areeba Fatima, Muhammad Shahid, Asma Irshad and Haleema Sadia (2020). A Review: Use of Plant Extracts and their Phytochemical Constituents to Control Antibiotic Resistance in *S. aureus*. Pure and Applied Biology 9(1): 220-222 **ISSN: 2304-2478 Y-category** by HEC <http://dx.doi.org/10.19045/bspab.2020.90078>
49. Arif Malik, Samra Javed, Qurban Ali, Maida Mehmood, Muzammal Mateen Azhar, Ali Tahir, **Kausar Malik** and Ayesha Zahid (2019) Role of Biotechnology for the Improvement of Stress Tolerance in Plants. *International Journal of Biology and Biotechnology* 16 (1): 27-36. **I.F: 2.9** ISI Indexed **ISSN:1810-8132 Y- Category** by HEC
50. Farkhanda Nawaz, **Kausar Malik*** Muhammad Hamza Basit &Husnain Qamar (2019) Antioxident activity of Polyoxometalates. Pure and Applied Biology 8(1): 667-671 **Y-Category** by HEC **ISSN: 2304-2478**
51. Amina Abrar*, Tahira Aziz Mughal, Muhammad Oneeb, Eza Tahir, Salma Khalid, **Kausar Malik** (2019). Persistence of local strain of entomopathogenic fungi *Aspergillus flavus* in indoor air *International Journal of Biosciences* 14(3): 133-139 **I.F: 0.55**
DOI: <http://dx.doi.org/10.12692/ijb/14.3.134-139>. **HEC Recognized**
52. **Kausar Malik***Mujahid Hussain, Rida Sadaqat, Hassan Ahmad,Muhammad Hamza Basit, Shafiq Azam, Hasnain Qamar, Arshia Nazir, Haleema Sadia and Asma Arshad (2019).. A Review; Molecular Medicines for Neutralization of *Clostridium botulinum* Neurotoxin. *International Journal of Biosciences* 14(6):78-90 **I.F:0.55**
DOI: <http://dx.doi.org/10.12692/ijb/14.6.78-90>
53. Liaqat Ali,Nodia Shujahaat, Syeda Musarrat Gilani, Hameed Ur Rehman, Feroz Khan, Hazrat Noor Nasir Ali Khan, Uzma Ayaz, Uzma Ghani, Haleema Sadia, Shahid Raza, **Kausar Malik**, Umair Ali, Mehboob Khan, SidraTul Munthah, Safir Ullah and Fozia Noreen (2019). Foam mat drying of banana (*Musa acuminata*) pulp. *Biological forum-An International Journal* 11(1): 273-276 **ISI Master Journal listed I.F: 2.6 ISSN:2249-3239**
54. Feroz Khan, Muhammad Ayaz, Abida Arshad, Fouzia, Hameed Ur Rehman, Amjid Ali, Sana Ashiq, Kanwal Ashiq, Haleema Sadia, Shahid Raza, Shafaat Hussain, Umair Ali, Abdul Wahab, Asfa Nazish, Aneela Riaz, Sehrish Khattak, Bilal Ahmad Zafar Amin &**Kausar Malik**(2019). Epidemiology and Clinical Manifestation of Hereditary Primary Microcephaly in General Population of Districts Karak and Bannu Khyber Pakhtunkhwa (KP), Pakistan *Biological forum-An International Journal* 11(1): 284-289 **I.F: 2.6 ISSN:2249-3239**

55. Nazia Khalil*, Muhmmad Kashif Zahoor, **Kausar Malik**, Adnan Ahmad Qazi, Farhat Jabeen, Sumaira Parveen, Shumaila Saif, Sarfraz Hussain (2019). Studies on the behavioral and clinical manifestation due to toxicity of some pyrethroid insecticides in male albino Rat, *Rattus norvegicus* ((Berkenhout) *International Journal of Biosciences* 4(4):410 -418 **I.F: 0.55** **ISSN: 2222-5293**. DOI: <http://dx.doi.org/10.12692/ijb/4.4.410-418>
56. **Kausar Malik***, Aleem Razzaq, Hafiz Ghufuran, Muhammad Abid Naseer, Yahya Tariq, Zaheer Abbas, Muhammad Hamza Basit, Adeena Saeed, Arshia Nazir, Rashid Bhatti, Muhammad Shahid, Areeba Fatima and Haleema Sadia (2019). A Review; Urgency of Novel Anti-Tuberculosis Strategies: A Prospective Challenge. *International Journal of Biosciences* 15(2):281-296 DOI: <http://dx.doi.org/10.12692/ijb/15.2.218-296> **ISI Master Journal listed**
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- **Author of Chapter 27 of book titled Advances in Rice Research for Abiotic Stress Tolerance'' Chapter titled ``Abiotic stress signaling in Rice Crop. Published by Elsevier 14-11-2018 Inc. Pp564-569 <http://doi://doi.org/10.1016/B978-0-12-814332-2.00027.7>. eBook ISBN: 9780128143339 Paperback ISBN: 9780128143322**
- **Asifa Majeed, Bushra Rashid, Aysha Latif, Muhammad Tariq, Zahida Qamar, Farah Naz, Saira Azam, Tahir Rehman Samiullah, Abdul Munim Farooq, Allah Bakhsh, Abdul Qayum Rao, Ahmad Ali Shahid, Kausar Malik, Tayyab Husnain and Idrees Ahmad Nasir ``Development of**

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168. Arshia Nazir, **Kausar Malik** Antibacterial Activity of *Cuphea* sp. extracts against pathogenic *Staphylococcus aureus* Strains` accepted for Oral Presentation (keynote lecture) & published in 1st International & 3rd National Conference on Bioactivity of Phytochemicals (1 & NCBP) at University of Lahore on 26-27 November, 2019
169. Tahoor Khalid, Kausar Malik, Ayesha Liaqat, Haleema Sadia and Tayyab Husnain Screening of anti-bacterial activity of three indigenous plants against *Salmonella typhi* 6th International Conference on Drug Development-Natural & Synthetic at Center for advanced Drug Research, Abbottabad on 29-30 November, 2019.
170. Adnan Ahmad Qazi, Muhammad Ali, Rehana Iqbal, Farhat Jabeen, **Kausar Malik**, Muhammad Anwar Iqbal, Nazia Khalid Anthropogenic activities and ichthyofauna of River Satluj: a case of neglected River 2nd International conference on Applied Zoology held in GCU, Faisalabad, Pakistan on 19, 20-12-2019
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176. Ghalia Nawal, Tayyiba Khaliq and **Kausar Malik** ``Screening of bacterial species in fruit dates *Phoenix dactylifera* samples collected from different localities of Lahore. `` Oral Presentation in 3rd International conference on Applied Zoology ICAZ-2020 (Virtual) held in QAU, Islamabad, Pakistan on 7th, 8th-12-2020 ISBN: 976-627-7502-00-3
177. Participated in 19th Shaukat Khanum Cancer Symposium on ``In Vitro Determination of Anticancer Activity of Medicinal plants against HepG2 Liver Cancer Cell lines`` held in Shaukat Khanum Cancer Hospital Lahore Pakistan on Nov 6-8 2020
178. Received certificate of attending session ``Dissertations & Theses eLearning Companions & Author Services Marketplace`` and other topics on 19-1-2021, by HEC ProQuest.
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180. Khadija Abdul Majid, Zainab Akram, **Kausar Malik**, Rashid Bhatti, , Husnain Qamar, Haleema Sadia ``Screening of Four Indigenous Plants for their Synergistic Antibacterial Activity and Anti-cancerous Effect`` Oral Presentation in 3rd International conference on Applied Zoology ICAZ-2021 (Virtual) held in QAU, Islamabad, Pakistan on 24th, 25th-11-2021
181. Zainab Akram, Khadija Abdul Majid, **Kausar Malik**, ``Assessment of synergistic Antibacterial Activity and Anti-cancerous effect of Five Indigenous `` accepted for Oral Presentation & published **In Proceeding of 1st Virtual Pakistan Congress of Zoology**, held in December, 2021
182. Khadija Fiaz, Muhammad Asad, Husnain Qamar, Hafsa Faiz, and **Kausar Malik** (2021). ``Antimicrobial Potential of Green Nanoparticles against Multi-Drug Resistant *E. coli* and *S. aureus* **In Proceeding of 4th International symposium on Advances in Molecular Biology of Plants and Health Sciences**, in CEMB University of the Punjab Lahore on Dec 23-24, 2021.
183. Khadija Fiaz, Muhammad Asad, Husnain Qamar and **Kausar Malik** (2022). `` Advances in biosciences: Bridging the gap between research and sustainable development goals. 5TH International conference in, Center for plant sciences & biodiversity, University of Swat on May 24-26, 2022.
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185. Akash Sahar, Adnan Ahmad Qazi, Muhammad Latif, Shaista Jalbani, Zahid Farooq, **Kausar Malik**, Ali Asad. Comparison of natural and synthetic preservative to combat fish (*Nile Tilapia*) spoilage Microorganisms Oral presentation 1st International conference on climate change organized by The Islamia University of Bahawalpur on 28th-30-11-22
186. Abdul Qayyum Rao, Allah Bakhsh.....**Kausar Malik**. Exotic gene expression and genome editing strategies for improvement of important crop traits. Oral presentation ‘International conference on Mitigation and adaptation on climate change; focus on agriculture & food’ held in FCCU on 6th-8-2-23
187. Saba Tasneem, Azra Mehmood , Hira Butt , Shehla Javed Akram, Moazzam N. Tarar, **Kausar Malik**, Sheikh Riazuddin. ***Cassia Angustifolia* Extract Ameliorates Heat Induced Inflammatory**

Response in Human Dermal Fibroblasts In Vitro. (Accepted for Poster display) at **2023 Annual Meeting of the Wound Healing Society** with the Symposium on Advanced Wound Care (SAWC). The joint meeting, SAWC Spring/WHS 2023, will be held at the Gaylord National Resort & Convention Center in National Harbor, MD, April 26-29, 2023.

188. Saba Tasneem, Azra Mehmood, Hafiz Ghufuran, Maryam Azam, Amna Arif, Musab Bin Umair, ShehlaJavedAkram, **Kausar Malik**, Sheikh Riazuddin. **Cassia angustifolia Primed ASCs Carrier Amniotic Membrane Accelerate Burn Healing by Modulation of Inflammatory Response.** Accepted for **Oral presentation at 2023 Annual Meeting of the Wound Healing Society** with the Symposium on Advanced Wound Care (SAWC). The joint meeting, SAWC Spring/WHS 2023, will be held at the Gaylord National Resort & Convention Center in National Harbor, MD, April 26-29, 2023.
189. Amna Ramzan, Azra Mehmood, Ramla Ashfaq, Anisa Andleeb, Hira Butt, Saima Zulfiqar, Muhammad Nasir, Anwarul Hasan, Muhammad Yar, ShehlaJavedAkram, **Kausar Malik**, Sheikh Riazuddin. **Freeze Gelation (Chitosan/elastin/sodium alginate)/Zinc Oxide Nanocomposite gel with enhanced Adipose Stem Cells proliferation and Antibacterial properties.** Accepted for **Poster presentation at 2023 Annual Meeting of the Wound Healing Society** with the Symposium on Advanced Wound Care (SAWC). The joint meeting, SAWC Spring/WHS 2023, will be held at the Gaylord National Resort & Convention Center in National Harbor, MD, April 26-29, 2023.
190. Azra Mehmood, Amna Arif, Hafiz Ghufuran, Yawar Sajjad, Bushra A. Mughal, Abdul Majid Sheikh, Maryam Azam, Saba Tasneem, Kausar Malik, Moazzam N. Tarar, Sheikh Riazuddin. **Supplementation of autologous fat grafts with lipoaspirate derived stem cells for the treatment of facial contour deformities.** Accepted for **Oral presentation** at TERMIS EU Chapter/ Manchester, UK, from 28th-31st March, 2023.
191. Saba Tasneem, Hafiz Ghufuran, Maryam Azam, Amna Arif, Musab bin Umair, Azra Mehmood, **Kausar Malik**, Moazzam Tarar, Sheikh Riazuddin. **Dodoneaviscosa Extract Priming Increases Efficacy of ASCs. To Counter Thermal Stress In-Vitro & for Burn Wounds Healing In-Vivo.** Accepted for **Poster Display** at TERMIS EU Chapter/ Manchester, UK, from 28th-31st March, 2023.
192. Maryam Azam, Hafiz Ghufuran, Afaq Mushtaq, Azra Mehmood, Ramla Ashfaq, Saba Tasneem, Zohaib Iqbal, **Kausar Malik**, Sheikh Riazuddin. **2-Deoxy-D-Ribose Priming Augments the Survival Ability of Adipose-derived Stem Cells against Hypoxic Stress and Preserves their Therapeutic Potency to Treat Excisional Wounds in Diabetic Rats.** Accepted for **Oral presentation** at TERMIS EU Chapter/ Manchester, UK, from 28th-31st March, 2023.

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 210. **Kausar Malik**, Farwa Akhlaq, Sarooj Nadeem, Hafiza Ghazia, Saba Tauseef, Maryam Maqsood, Aqsa Rubab, Sehar Riaz A review; Analysis of various aspects of *Escherichia coli* O157:H7 strain, in International conference on Biotechnology; Challenges and Opportunities in Pakistan` in Lahore Garrison University Lahore on 11-10-2017, 12-10-2017.
 211. **Kausar Malik**, Hira Nasir, IqraArif, Neha Ahmed, Ramlah Ejaz, Samia Saleem, Ujala Tayyab ``Antibiotic Resistance in Pathogenic Bacteria-A Review`` pp 67 in International conference on Biotechnology; Challenges and Opportunities in Pakistan` in Lahore Garrison University Lahore on 11-10-2017, 12-10-2017.
 212. Seerat Fatima, Anees Muhammad, Qura-tul-Ain, Muhammad Zeeshan Khan, Ifrah ishaq, **Kausar Malik** ``*Salmonella Typhimurium* as a therapeutic for Brain Tumor`` in International conference on Biotechnology; Challenges and Opportunities in Pakistan` in Lahore Garrison University Lahore on 11-10-2017, 12-10-2017.
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 214. **Kausar Malik** Ayesha Ahmad, Iqra Abbas, Maryam Abid, Momal Maqsood, Sadia Malik, Zobia Habib, ``Review on *Vericella Zoster* Virus: Structure, Mode of Transmission & Treatment`` in International conference on Biotechnology; Challenges and Opportunities in Pakistan` in Lahore Garrison University Lahore on 11-10-2017, 12-10-2017.
 215. Mujahid Hussain, Rida Sadaqat, Hassan Ahmad Shafiq Azam, Hasnain Qamar, Muhammad Hamza Basit, **Kausar Malik**, ``Molecular Medicines for Neutralization of *Clostridium botulinum* Neurotoxin`` in International conference on Biotechnology; Challenges and Opportunities in Pakistan` in Lahore Garrison University Lahore on 11-10-2017, 12-10-2017.
 216. Hafiz Ghufuran, Abid Naseer, Aleem Razzaq, Yahya Tariq, Zaheer Abbas, **Kausar Malik** ``Urgency of Novel Anti-Tuberculosis Strategies`` A Prospective Challenge in International conference on Biotechnology; Challenges and Opportunities in Pakistan` in Lahore Garrison University Lahore on 11-10-2017, 12-10-2017.
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 218. **Kausar Malik**, Husnain Qamar and Muhammad Hamza Basit ``Antimicrobial Potential of *Moringa oleifera* A Review`` accepted for oral presentation in national symposium on *Moringa oleifera*; recent trends and challenges in processing and product developments` in CEMB auditorium organized by University of Sargodha and PARB on 9-10 April 2018
 219. **Kausar Malik***, Husnain Qamarand Rashid Bhatti ``Assessment of antibacterial potential of Pakistani plantsagainst local isolate of *Salmonella typhimurium*. Accepted for oral presentation in national Conference on plants from food to phytomedicine (03-04 May, 2018) Jointly Organized by University of Malakand and University of Sargodha

220. Rida Shabbir, **Kausar Malik***, Rashid Bhatti, Sehr Riaz, Husnain Qamar. The paper titled “Antiviral assessment of Pakistani plants against Hepatitis Virus (HCV)”, accepted for oral presentation in “Second National Conference on Emerging Trends in Bioinformatics and Biosciences (NCETBB-18) to be held at Hazara University Mansehra on 9th to 11-7-2018.
221. **Kausar Malik***, and Muhammad Hamza Basit “Genetically Modified Crops: Insect Resistance” accepted for oral presentation and published in the International Conference organized by Faculty of Sciences, University of Kotli Azad Jammu and Kashmir, on “Natural Sciences at the Interface of Climate Change, Food Security and Sustainability (NSICFSS)”, at University of Kotli Azad Jammu and Kashmir held on 24th to 26-9-2018.
222. Maria Asghar, Arshia Nazir, Adeena Saeed, **Kausar Malik**, Husnain Qamar, Anita perveen, Afifa Saddique, Syed Rizwan Abbas and Adnan Ahmad Qazi. A Review: “Anti microbial activity through essential oils of *Dracocephalum* & *Fagopyrum* species” oral presentation & published in the International Conference of Biochemistry, biotechnology & Biomaterials at University of Agriculture Faisalabad held on 9th to 11-12-2018.

POSTERS PRESENTED

223. **Malik, K.** “Discovery of a novel crystal protein from Pakistani *Bacillus thuringiensis* strain toxic to *Tribolium castaneum* (Herbst) (Coleoptera:Tenebrionidae)” accepted to be presented as POSTER for the Session General Biotechnology within the Stream General Biotechnology, 14th European Congress on Biotechnology, Barcelona, Spain, 13-16 Sept-09
224. Karim, S., Nasreen., Z. **Malik, K.**, and Riazuddin, S., 1997. Rearing of agronomically important insect pests, accepted to be presented as POSTER for symposium at CAMB.
225. Poster displayed in “Invention to innovation summit 2013+UIP Exhibition of Indigenous Technologies” Training workshop as a participant, organized by, PSF, IRP, University of the Punjab and PCST on 9-4-2013, 10-4-2013.
226. Haleema Sadia, Mukhtar Ullah, AmnaShafi, ZeeshanJaved, Rais Ahmad, **Kausar Malik**, Ahmad Nawaz, SabaManzoor. Preliminary mutational analysis of TP53 gene by Genetic Analyzer and demographic distribution of breast cancer patients of Punjab. Poster displayed in International Conference on Solid State Physics, December 10-14, 2017, at UoP, Lahore.
227. Muhammad Umer Khan, Atif Ghafoor, Muhammad Tahir Ishaq, Haleema Sadia, **Kausar Malik**, Qurnia Andayani, Abstract No P-T1407, HCV molecular genotypes occurrence in common populace of Lahore division, Pakistan. organized by Committee of faculty of public health doctoral program of health science, Poster displayed in 2nd International Symposium of Public Health Surabaya, 11th-12th November, 2017
228. Haleema Sadia, Mukhtarullah, Riffat Mehboob, **Kausar Malik**, Johar Ali, Amna Shafi, Zika Virus, an Emerging Epidemic. Poster displayed in International conference (October 20-21, 2016) on ZOONOSIS-2016, Faculty of Veterinary Sciences, BahauddinZakariya University, Multan, Pakistan.
229. Haleema Sadia, Riffat Mehboob, Muhammad Idrees, **Kausar Malik**, Muhammad Ateeq, Tariq Nadeem, AmnaShafi, Ahmad Nawaz. Crimean-Congo Fever- a serious threat to public health. Poster presented in the 2nd International conference (October 20-21, 2016) on ZOONOSIS-2016, Faculty of Veterinary Sciences, BahauddinZakariya University, Multan, Pakistan.
230. Haleema Sadia, Muhammad Idrees, Mukhtar Ullah, **Kausar Malik**, Maryam JavedTanveer Hussain, Masroor Ellahi Babar. Genetic Characterization of Pakistani Goats and Sheep Breeds by Cytochrome b gene and D-loop region of Mitochondrial DNA. Published in international

- livestock genomic conference, organized by Institute of Biochemistry and Biotechnology, UVAS, Lahore, 30-31, May 2016 Poster displayed
231. Haleema Sadia, Muhammad Idrees, Asif Nadeem, Tanveer Hussain, Mukhtar Ullah, Shahzadi Javed, **Kausar Malik**, Masroor Ellahi Babar. Mitochondrial cytochrome b gene based phylogeny of Lohi and Thalli sheep breeds of Pakistan. Published in international livestock genomic conference, 30-31, May 2016, organized by Institute of Biochemistry and Biotechnology, UVAS, Lahore.
 232. Poster displayed on Review article: Molecular Medicine for neutralization of *Clostridium botulinum* neurotoxin in International conference on Biotechnology; Challenges and Opportunities in Pakistan in Lahore Garrison University Lahore on 11-10-17, 12-10-17.
 233. Poster displayed on antioxidant activity of polyoxometalates in International conference on Solid State Physics in Centre of Excellence in Solid State Physics, at University of the Punjab Lahore on 10th to 14-12-2017.
 234. Poster displayed in invention to innovation summit 2017, organized by, PSF, IRP, University of the Punjab and PCST on 21-12-2017.
 235. Poster displayed by Sehar Riaz, **Kausar Malik***, Rashid Bhatti, Rida Shabbir and Husnain Qamar titled "In vitro Antiviral screening of Pakistani Medicinal plants against Hepatitis C Virus (HCV)", in "International Conference on medicinal drugs and Drug discovery (ICMCDD-18) held at COMSTECH Islamabad October 18- 19, 2018.
 236. Abstract "Acacia nilotica: a potent plant against microbial resistance" accepted for poster presentation in 1st International Conference on Natural Sciences at GCW Gullberg Lahore on 4-5 December 2018
 237. Shajia Jabeen, Hadia Shakeel, **Kausar Malik**, Rashid Bhatti. Recent advances in phytochemical research to treat hepatitis C infection accepted for poster presentation In Proceeding of 3rd International symposium on Advances in Molecular Biology of Plants and Health Sciences, in CEMB University of the Punjab Lahore on Dec 19-21, 2018.
 238. Abstract "Assessment of synergistic pesticidal effect of local spices and *Fagopyrum esculantum* on stored grain beetle (*Tribolium castaneum*)" accepted for poster presentation in 3rd International symposium on Advances in Molecular Biology of Plants and Health Sciences, in CEMB, University of the Punjab Lahore on Dec 19-21, 2018.
 239. Poster presentation by Ayesha Liaqat, **Kausar Malik**, and Tayyab Husnain on Evaluation of antifungal activity of a novel indigenous plant against *Cryptococcus neoformans* in Recent Innovations in Molecular Sciences held on 6-8th Nov, 2019, organized by Punjab University, Lahore.
 240. Poster presentation in 20th Shaukat Khanum Cancer Symposium on "Assessment of Synergistic Antibacterial Activity and Anticancer Effect of Five Indigenous Plants" held in Shaukat Khanum Cancer Hospital Lahore Pakistan on 5-7 November, 2021.