

CURRICULUM VITAE

PROF. DR. MUHAMMAD IDREES,

Professor, National Centre of Excellence in Molecular Biology, University of the Punjab

Vice Chancellor, University of Peshawar

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POSITIONS HELD (More than 20 years of Experience in related field):

12 Dec 2020-CONTINUE:	VICE CHANCELLOR , University of Peshawar, Khyber Pakhtunkhwa
20 Nov 2020-26 Nov 2020:	CHAIRMAN, Pakistan Science Foundation
09 June 2020 – CONTINUE:	PROFESSOR /Head Division of Molecular Virology, Centre of Excellence in Molecular Biology (CEMB), Punjab University.
28 July 2016- 28 July 2019:	VICE CHANCELLOR , Hazara University Mansehra.
18 June 2016- to 27 July 2016:	PROFESSOR & DIRECTOR , (on deputation) Centre for Applied Molecular Biology (CAMB) University of the Punjab.
01 July 2015- 17 June 2016:	DIRECTOR , (on deputation) Centre for Applied Molecular Biology (CAMB) University of the Punjab, Lahore.
02 March 2013 – 9-06-2020:	ASSOCIATE PROFESSOR /Head Division of Molecular Virology, National Centre of Excellence in Molecular Biology (CEMB), University of the Punjab, Lahore.
06 July 2006 – 01 March 2013:	ASSISTANT. PROFESSOR /Head Molecular Virology & Molecular Diagnostics Groups, CEMB, Punjab University.
01 December 2005 – 05 July 2006:	SENIOR RESEARCH OFFICER / Head Molecular Diagnostics, Centre for Applied Molecular Biology (CAMB) Ministry of Science & Technology, Lahore.
01 June 2000 – 30 November 2005:	RESEARCH OFFICER /Incharge Molecular Diagnostics, Centre for Applied Molecular Biology (CAMB) Lahore.
January 1999-April 2001:	Head Division of Molecular Diagnostics, The Medical Labs

QUALIFICATIONS:

2008-2015	FRCPath Fellow Royal College of Pathologist (FRCPath) London United Kingdom (UK)-Member No. 20005720. (Publication-based).
2006-2007	Post Doctorate in Molecular Hepatitis , Division of Viral Hepatitis, Coordinating Centre for Infectious Diseases, Centers for Disease Control and Prevention (CDC), Atlanta GA 30333 USA.
2001 - 2005:	Ph. D in Molecular Biology (Molecular Virology), University of the Punjab, Lahore, Pakistan. Thesis Title: <i>Genome variability studies in the 5'Non-coding region of Hepatitis C Virus and its clinical implications</i>
1997 - 1999:	M. Phil in Molecular Biology (Molecular Bacteriology), University of The Punjab Lahore, Pakistan. Thesis Title: <i>Molecular Studies on Multiple Drug Resistant Genes in Mycobacterium tuberculosis.</i>
1993 - 1995:	M. Sc. in Zoology (Parasitology/Microbiology), University of Peshawar NWFP, Pakistan. Thesis Title: <i>The Dilemma of Zoo prophylaxis: Cattle ownership can increase rather than reduce Malaria in Pakistan.</i>
1995 - 1996:	B. Ed (Science) , IER, Peshawar University NWFP, Pakistan.
1991 - 1993:	B. Sc. (Zoology, Chemistry, Botany) , GPGJC, Peshawar University NWFP, Pakistan.

3. OTHER APPOINTMENTS AND AFFILIATIONS (CURRENT & PAST)

A. Fellow/Memberships of International Societies:

1. Fellow Royal College of Pathologist (**FRCPath**) London United Kingdom (UK)-
Member No. 20005720
2. American Society of Microbiology (ASM)-**Member ID: 56817638**
3. European Society of Clinical Microbiology and Infectious Diseases (ESCMID)-
Member ID: 122577
4. Zoological Society of Pakistan
5. Hellenic Society of Virology
6. International Society for Antiviral Research
7. The Federation of European Microbiological Societies

B. Memberships of National Bodies (Past):

8. **Member Senate**, Hazara University- From 27-7-2016 to 26-07-2019
9. **Member senate**, Women University Mardan- From 2017 to 2020
10. **Member Senate**, University of Baltistan, Gilgit Baltistan-2017-2020
11. **Convener/Chairman**, Hazara University Syndicate- From 27-7-2016 to 26-07-2019
12. **Member Syndicate**, University of Malakand-From 2018-2020 & 2021-Continue
13. **Convener/Chairman**, Hazara University Selection Board- From 27-7-2016 to 26-07-2019
14. **Convener/Chairman**, Academic Council Hazara University Mansehra-KP- From 27-7-2016 to 26-07-2019
15. **Convener/Chairman**, Board of Faculties (BOF), Hazara University Mansehra-KP-2018
16. **Convener/Chairman**, Board of Studies (BOS), CAMB, University of the Punjab Lahore. From 01-07-2015 to 27-07-2016.
17. **Member** Board of Studies (BOS) CAMB, University of the Punjab Lahore. From 28-08-2016-continue
18. **Member**, Board of Faculty (BOF), University of the Punjab Lahore. From 01-07-2015 to 27-07-2016.
19. **Member** Board of Studies (BOS) Department of Genetics, Hazara University Garden Campus Mansehra, KPK-From 2011-2015
20. **Member**, Academic Council University of the Punjab Lahore. From 22-8-2015-27-07-2016.
21. **Member** National Quality Assurance Committee (NQAC), Higher Education Commission of Pakistan-From December 2016-July 2019.
22. **Member** Cabinet Committee on Dengue Control-Health Department Constituted by **Chief Minister**, Government of the Punjab. From 2012-till date
23. **Member** (Co-opted) of “**Technical Expert Committee of Medicine**” recommended by Steering Committee on Prevention & Control of Hepatitis Program. From 2013-till date
24. **Member** Guidance & Examination Committee of Atta ur Rehman School of Applied Biosciences (previously known as NCVI) National University of Science & Technology (NUST) Islamabad- From 2011- continue
25. **Member** Board of Studies (BOS) Department of Molecular Biology, Virtual University of Pakistan M. A. Jinnah Campus Lahore. From February 2016-continue
26. **Group Leader**, Infectious Diseases & Molecular Virology Group CEMB, University of the Punjab- From 2000- continue
27. **Incharge Disease Diagnostic Facility**, CAMB, Ministry of Science & Technology Government of Pakistan- From 2001- 2009.

28. **Member of a team of four Scientist designated by CDC, USA to visit Pakistan (2006-07)** to meet with several public health officials from the Ministry of Health and the National Institute of Health to discuss various collaborative public health programs and activities that will support the Field Epidemiology & Laboratory Training Program.
29. **Member** of Expert Committee for the preparation of guidelines of MERS CoV constituted by Advisor to Chief Minister on Health-2014.
30. **Member of Departmental Tenure Review Committee (DTRC)** of CEMB, University of the Punjab Lahore. **From 2013-till date**
31. **Member/Virology Group Leader** of Dengue Research Group (DRG) constituted by Vice Chancellor, University of the Punjab for the prevention and control of Dengue. **From 2009-till date.**
32. **Member** Biosafety & Bioresource Committee University of the Punjab to review the research proposals of the faculty members and Ph. D scholars before submission to Higher Education Commission (HEC) and Pakistan Science Foundation (PSF). From 22-9-2015-ongoing.
33. **Chairman/Convener**, Purchase Committee, Centre for Applied Molecular Biology, University of the Punjab-Lahore. **From 2015- 2016**
34. **Chairman/Convener**, Technical Evaluation Committee, Centre for Applied Molecular Biology, University of the Punjab-Lahore. **From 2015- 2016**
35. **Chairman/Convener**, Departmental Doctoral Program Committee (DDPC), Centre for Applied Molecular Biology, University of the Punjab-Lahore. **From 2015-2016**
36. **Chairman/Convener**, Scholarship Committee, Centre for Applied Molecular Biology, University of the Punjab-Lahore. **From 2015-2016**
37. **Reviewer of more than 20 International Scientific Journals (few are given below):**
 - **The Lancet Infectious Diseases**
 - **Nature**
 - **Emerging Infectious Diseases**
 - **Virus Genes**
 - **European J. Virological Methods,**
 - **BMC Virology,**
 - **BMC Infectious Diseases,**
 - **Infection, Genetics, Evolution,**
 - **Journal of Medical Virology**
38. **Reviewer of grants in the field of Health Biotechnology for Higher Education Commission (HEC) of Pakistan.**
39. **Focal person Higher Education Commission (HEC) of Pakistan for grants in the field of Health Biotechnology-2016-2017.**
40. **Visiting Scientist of:**
 - a. CDC, US Department of Health & Human Services, Atlanta, USA.
 - b. Ministry of Health Government of the Punjab.
 - c. Lahore General Hospital Lahore, Pakistan
 - d. Peshawar Medical Collage, Peshawar, NWFP, Pakistan
 - e. Dow University of Health Sciences, Karachi
 - f. Liaquat University of Medical & Health Sciences Jamshoro Sindh.

4. NUMBER OF RESEARCH PUBLICATIONS, IMPACT FACTOR AND CITATIONS:

Journal Impact Factor	466.88
No. of Publications in IF Journals	230
Author's citations index:	
(i) Total citations:	4727
(ii)H-index:	35
(iii) Citations per paper (Average):	21 (1-303)

3.

Published and Edited Books

Books published by *International Publishers (National – half weight)	
a) No. of books authored	02

4.

Research Grants (as a PI only and not less than Rs. 0.5 Million each)

a) No. of International Grants	01
b) No. of National Grants	08

5.

Patents/innovation

Patents	
*No. of International Patents	---
**No. of National Patents	01
No. of varieties/Technology developed (Nat/Int.) HCV PCR Kit	01

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6.

Research Supervision

No. of Ph.D. thesis supervised (as a sole supervisor)	18
No. of Ph.D. thesis Co- supervised	05
No. of M. Phil thesis Supervised	53

7.

Awards

Name of Award	
a) International awards Young Scientist of the year Award in Biology	01
b) Civil and National award	07

8.

Editorship of a journal (Chief Editor/Editor)

Impact factor < 1	08
Impact factor ≥ 1	0

9.

Symposia and conferences organized/attended

National (As Chief Organizer/Convener only)	01
*International (As Chief organizer/convener)	0
International (attended with oral presentation)	32

10. Executed Major Research Projects:

Dr. Idrees has **capabilities for mobilization of financial resources from National and International funding agencies**. He has executed major research projects and have been the principal/co-principal investigator of several research projects funded by national and international funding agencies, namely Ministry of Science & Technology, Higher Education Commission, EMRO-WHO, State Department (Pak-USA) and Planning Commission of Pakistan. Further, under his direct supervision at Hazara University, his team prepared and submitted a PC1 for the “Uplifting of Academic and Infrastructure facilities of Hazara University” that was approved at a cost of **Rs. 1702 Million** by Planning Commission of Pakistan in his second year of 2018.

Dr. Idrees was Principal Investigator/Principal Researcher of the following Research Projects:

A. COMPLETED PROJECTS

1. Establishment of Molecular (PCR-based) Diagnosis of infectious & genetic diseases Laboratory at Centre for Applied Molecular Biology (2001-2004, Ministry of Science & Technology PC1 PKR 39.46 Million). **PI**
2. Identification and transcriptome profiling of novel microRNAs in hepatitis C virus induced liver diseases by next generation sequencing (NGS) of small RNA cDNA libraries. (2013-2016; NRGPU PKR 3.37 Million). **Project No. 20-2098. PI**
3. Studies on Streamlined Molecular Approaches to Hepatitis C: Implications for Patient Management and Public Health. -(8/9/2015-2019; NRGPU PKR 4’520’288). **PI**
4. Development of Dengue Assays based on ELISA and PCR Diagnosis Systems for reproducible and early detection of Dengue Virus. Lumpus Provision for Research, University of the Punjab, Lahore. 2016-17; PKR 10’00’000. **PI**
5. Streamlined Analysis of Dengue Virus Genome, Serotypes, Genotypes & Heterogeneity: Application to Molecular Epidemiology and Clinical Studies. University of the Punjab, Lahore. 2015; PKR 2’00’000. **PI**
6. Studies on the levels of Serum IL-8 and mutational analysis in the E2-PePD and NS5a-PKR-BD in Interferon- α responsive and non-responsive HCV patients (29/9/2003-30/9/2005, Pak-US co-operation on Science & Technology USD 11.72 Million PKR 11’720’000). **Co-PI & Principal Researcher**
7. Role of IL-8 and mutations in E2 & NS5A genes of Hepatitis C Virus in resistance to anti-viral therapy (04/03/2004-11/12/2005, EMRO-COMSTECH, WHO.USD 15,000; PKR). **Co-PI & Principal Researcher.**
8. Prevalence of bovine tuberculosis in human, animal population and animal food products (HEC, 2004-2006; PKR 2.573 Million) **Co-PI**
9. Modifier Chemical Cocktail’ and Its Role in Skin Tissue Regeneration in Mammals (2010; Higher Education Commission PKR 0.50 Million). Dr. Sherkhli (PI); Dr. Muhammad Idrees- (**Co-PI**)
10. Isolation, amplification and characterization of the complete Envelope gene sequences of all the four serotypes of Dengue virus, prevalent in Pakistan; a first step towards tetravalent vaccine development against dengue. Higher Education Commission. PKR 0.50 Million; Project Start Date: 04-01-2014. Dr. Amjad Ali (PI); Dr. Muhammad Idrees (**Co-PI**).
11. Expression and mutational analysis of p53 gene in breast cancer patients of Pakistan. Higher Education Commission. PKR 0.50 Million; Project Start Date: 25-06-2016 Dr. Haleema Sadia (PI); Dr. Muhammad Idrees (**Co-PI**).
12. Studies on the efficiency of newly developed direct acting antiviral drugs (DAAs) in chronic HCV patients. Higher Education Commission. PKR 0.50 Million; Project Start Date: 30-03-2016 Dr. Sajjad Ullah (PI); Dr. Muhammad Idrees (**Co-PI**).

13. Identification and characterization of novel fusion transcripts in neuroblastoma cell lines using transcriptome sequencing data. Higher Education Commission. PKR 0.50 Million; Project Start Date: 04-03-2016. Dr. Hafiza Fakhera Ikram (PI); Dr. Muhammad Idrees (**Co-PI**).
14. Expression of different Immunoreactive forms of the hepatitis C Virus NS5A recombinant protein and their use for development of ELISA assay. Higher Education Commission. PKR 0.50 Million; Project Start Date: 02-02-2016. Dr. Amjad Ali (PI); Dr. Muhammad Idrees (**Co-PI**).

B. PROJECTS IN PROGRESS/PROCESS:

15. Development of a single chimeric Dengue Virus DNA Vaccine and study of its immunogenicity and response against local Dengue Serotypes." at total cost of Rs.7561256/- Date: 02-06-2018; **Project No. 8458. Co-PI**
16. Robust production of recombinant collagen and elastin proteins in serum-free adapted 293T cell line using Ubiquitous Chromatin Opening Elements containing lentiviral Vectors- (2017-2020; NRGPU, PKR 4195324) **Project No. 6741. Co-PI.**
17. Application of Streamlined Molecular Approaches to Hepatitis C: Implications for Public Health and Patient Management. (PAK US JOINT COMMITTEE ON SCIENCE & TECHNOLOGY COOPERATION). PKR 53 Million. PI. **Awarded**
18. Development of HCV Vaccines and Experimental Animal Model for Chronic HCV patients. (2008-2013; PC1; PKR 37.49 Million). PI. **Accepted for Award**

C. DEVELOPMENTAL PROJECTS (Completed/On-going):

19. Uplifting of Academic and Infrastructure facilities of Hazara University that was approved at a cost of **Rs. 1702 Million by Planning Commission of Pakistan.** 19-03-2018 to 18-03-2021
20. Construction of two Academic Blocks at Hazara University by Provincial Government at a cost of 65.0 Million
21. Completion of Left-over work of eight academic blocks (each one with a covered area of about 49,000 square feet) below the approved cost of 662.45 Million (HEC Grant) within a record time of one and a half year

D. INTERNAL PROJECTS COMPLETED:

22. The Dilemma of Zoo prophylaxis: Cattle ownership can increase rather than reduce prevalence of malaria in Pakistan (1994-96, University of Peshawar). **PI-Internal**
23. Molecular studies of Multiple Drug Resistant Genes: Testing of *Mycobacterium tuberculosis* to commonly used anti-TB drugs and Detection of Rifampicin Resistant Mutants by PCR-SSCP (1996-1999, CEMB). **PI-Internal**
24. Establishment of Molecular Diagnostic Laboratory in Private Sector (1999-2000, The Medical Laboratories Lahore). **PI-Internal**
25. To find out the common genotypes of HCV present in Pakistan (1999-2000, The Medical Laboratories Lahore). **PI-Internal**
26. Comparison of various Genotyping & Serotyping assays for the accurate detection of HCV Genotypes (1999-2000, The Medical Laboratories Lahore). **PI-Internal**
27. Evaluation of various Commercial procedures/kits/systems for the quantification of HCV Virus. (1999-2000, The Medical Laboratories Lahore). **PI-Internal**
28. Influence of HCV Genotypes on Viral load and Disease outcome. (1999-2000, The Medical Laboratories Lahore). **PI-Internal**

11. HONORS AND AWARDS (National & International)

1. **Young Scientist of the year award in Biology 2009 by Third World Academy of Science (TWAS) Italy.**
2. **PAS Gold Medal-2016 in Scientific Discipline “Emerging Technologies, including Biotechnology, nanotechnology, Molecular Biology & Bioinformatics” by Pakistan Academy of Sciences.**
3. **Research Productivity Award (RPA) 2017 by Pakistan Council for Science & Technology (PCST)-Category C**
4. **Research Productivity Award (RPA) 2016 by PCST-Category B**
5. **Research Productivity Award (RPA) 2015 by PCST-Category C**
6. **Research Productivity Award (RPA) 2014 by PCST-Category B**
7. **Research Productivity Award (RPA) 2013 by PCST-Category B**
8. **Research Productivity Award (RPA) 2012 by PCST- Category C**
9. **Research Productivity Award (RPA) 2011 by PCST- Category F**

12.SYMPOSIA AND CONFERENCES ORGANIZED/ATTENDED:

International attended with Oral Presentation

ABSTRACTS

1. **Idrees M.** A newly developed Dengue-IgA rapid test shows higher levels of sensitivity for early detection of Dengue infection In: 25th European Congress of Clinical Microbiology and Infectious Diseases (ECCMID-2015), 25-28 April 2015, **Copenhagen, Denmark.** Abstract No. EV0899.
2. Butt AM, Castellano L, **Idrees M.** Tong Y “Next generation sequencing reveals differential expression profiles of hepatic microRNAs in chronic hepatitis C patients” **EASLs-50th International liver Congress. Vienna (Austria), 22-26 April 2015. *Journal of Hepatology 2015 vol. 62: S585.***
3. Ali M., **Idrees M.** 2014. Emergence of genetically variant Hepatitis C virus population in patients with low viral loads (<250 IU/mL) as a result of IFN and RBV combination therapy, Pakistan. EMBO Workshop on Human RNA Viruses jointly sponsored by the ICGEB American Hospital, **Istanbul-Turkey, 6-8 October 2014.**
4. Afzal S, Idrees M, Envelope protein 2 phosphorylation sites (s75 and s277): a possible candidate for resistance to hcv interferon therapy. EMBO Workshop on Human RNA Viruses jointly sponsored by the ICGEB American Hospital, **Istanbul-Turkey, 6-8 October 2014.**
5. Butt AM, Idrees M, Tong Y. Identification and expression profiling of microRNAs in hepatitis C patients by using next generation sequencing. Special Issue: Abstracts for the Viral Hepatitis Congress 2014, 9–11 October 2014, **Frankfurt, Germany.**
6. **Idrees, M.** and Riazuddin, S. 2006, “Association between Chronic Hepatitis C Infection with Different Genotypes and Hepatocellular Carcinoma in a Population of Pakistani HCV Patients. **UICC World Cancer Congress 2006, July 8-12, 2006, Washington, DC, USA.**
7. **Idrees, M.** and Riazuddin, S. 2006, “.Hepatitis in Pakistan **Centers for Disease Control and Prevention (CDC), US Department of Health and Human Services, September 21, 2006, Atlanta, GA, USA.**
8. Parveen S, **Idrees M,** Masood M, Sajjad R, Sadiq R, Riaz M, Akhtar N, Impact of HPV Infection on Response to Concomitant Chemo-Radiotherapy and Survival in Cervical Cancer Patients. **UICC World Cancer Congress 2006, July 8-12, 2006, Washington, DC, USA.**

INTERNATIONAL AT HOME (PAKISTAN)

9. **Idrees M**-2014. "Prediction of dengue epidemic: Detection of Dengue Virus in Larvae and Adult Aedes Mosquitoes in Punjab". **Dengue Seminar** organized by Dengue Research Group's (DRG) University of the Punjab **Lahore**-Pakistan. September 22, 2014.
10. **Idrees M**, Ghias-un Nabi Tayyab, SM Raza, Bilal Nasir, Irum Amin, M. Shahid, 2013, "A Newly Developed Dengue-IgA Rapid Test Shows Higher Level of Sensitivity for Early Detection of Dengue Infection" The 37th annual conference of the Pakistan Association of Pathologists/2nd Joint Conference of the Societies of Pathology is being held in **Lahore** from the 20th to the 22nd of December 2013.
11. Nawaz R, **Idrees M**-2013. In: 11th Biennial Conference Molecular Biosciences Challenges and Opportunities November 25–28, 2013. University of the Punjab **Lahore**-Pakistan.
12. Sabr S, **Idrees M**-2013 "Studies on the role of NS3 and NS5A non-structural genes of HCV genotype 3a local Isolates in Apoptosis" In: 11th Biennial Conference Molecular Biosciences Challenges and Opportunities November 25–28, 2013. University of the Punjab **Lahore**-Pakistan. (Poster presentation).
13. Rafique S, **Idrees M**-2013. "Study of antigenic site in serine proteases gene of HCV 3a Genotype" In: 11th Biennial Conference Molecular Biosciences Challenges and Opportunities November 25–28, 2013. University of the Punjab **Lahore**-Pakistan (Poster presentation).
14. Ali A, **Idrees M**-2-13 "Prokaryotic Expression and Molecular Characterization of HCV-3a structural Antigenic Recombinant proteins" In: 11th Biennial Conference Molecular Biosciences Challenges and Opportunities November 25–28, 2013. University of the Punjab **Lahore**-Pakistan.
15. **Idrees M**, 2012, "Dengue diagnostic methods: Advances, diagnostic values & Challenges". International Conference on dengue & its Control **Lahore**-Pakistan, 27-29 February 2012.
16. **Idrees M.**, 2011. "Changing pattern in HCV genotypes circulating in Pakistan". In 1st Annual HCV Management Symposium 2011 NUST Center of Virology & Immunology **Islamabad**-Pakistan, 10-11 February 2011.
17. **Idrees, M.**, Khan, S. U., Riazuddin, S. 2005, Role of IL-8, E2 and NS5A in interferon resistance in HCV. 21st Annual Congress Pakistan Society of Gastroenterology & G. I., Endoscopy March 25-27, 2005, **Peshawar** Pakistan. (**Gold Medal**).
18. **Idrees, M.** Khan S. U. and Riazuddin, S., 2005. Hepatitis C infection and Type 2 Diabetes Mellitus: Various Molecular Pathways confirm the direct involvement of the virus in the development of insulin resistance. 21st Annual congress of Pakistan Society of Gastroenterology and GI endoscopes, March 18-21, 2004, **Peshawar** Pakistan.
19. **Idrees, M.**, Khan, S. U., Riazuddin, S. 2004, Genome variability studies in 5'UTR region of HCV. In: International symposium on the application of biotechnology in Health and Agriculture. **Lahore**-Pakistan March 27 to March 31, 2004.
20. **Idrees, M.** and Riazuddin, S., 2003. Role of IL-8 and mutations in E2 & NS5A region of HCV in interferon response rate. 19th Annual congress of Pakistan Society of Gastroenterology and GI endoscopes, Feb 28 to March 02, **Lahore** Pakistan.
21. **Idrees, M.**, Khan, M. M., 2000. Genotyping and Serotyping of hepatitis C virus strains in chronic HCV infection and influence of genotypes on viral load. In: second International Science Conference, October 26-28, 2000, **Lahore**, Pakistan.
22. **Idrees, M.**, Hussain, Z. 2000. Comparison of two systems: Murex HCV serotyping 1-6 assay and genotype-specific PCR for hepatitis C virus genotyping. In: the 20th Pakistan Congress of Zoology, March 29-31, University of **Sindh, Jamshoro**, Pakistan.
23. **Idrees, M.** Hussain, Z., 2000. Detection of six types of hepatitis C virus by type-specific serological reactivity and rate of ALT and AST abnormalities in HCV patients. In: the third

- International Biennial Conference of Pakistan Society for Microbiology, March 28-30, 2000, **Lahore**, Pakistan.
24. **Idrees, M.**, Bhatti, A. H., Khan, F. M., Khan, S. N. and Riazuddin, S. 1999. Detection of rifampicin-resistant mutants by rapid method: PCR-SSCP. In: the 19th Pakistan Congress of Zoology, April 19-21, 1999 **Islamabad**, Pakistan.
 25. **Idrees, M.**, and A. H. 1998. The Dilemma of Zoo prophylaxis: with special reference to the prevalence of Malaria in school going children in district Dir, N.W.F.P. Pakistan. In: the Fifth International Symposium Workshop on the application of Molecular Biology Research in Agriculture, Health and Environment, Oct: 14-15, 1997, **Lahore**, Pakistan.
 26. **Idrees, M.**, Bhatti, A. H., Khan, S. U. and Riazuddin, S., Rasual, S., Majeed, A., Waheed, K., Anwar, N and Hussain, G. 1998. A comparative study to prove the veracity and usefulness of conventional culture method VS PCR based method to diagnose TB by detecting *M. tuberculosis* in local isolates. In: the 16th International Conference on Tuberculosis and Chest Diseases March 8-11, 1998, **Lahore**, Pakistan.
 27. **Idrees, M.**, Bhatti, A. H., Khan, S. U. Riazuddin, S., Majeed, A., Waheed, K and Hussain, G. 1998. Testing of *M. tuberculosis* to first line anti-tuberculosis drugs at PMRC Centre Mayo Hospital, Lahore, Pakistan. In: the 18th Pakistan Congress of Zoology, April 20-22. **Lahore**, Pakistan.
 28. **Idrees, M.**, Bhatti, A. H., Rasual, A., Waheed, K. and Riazuddin, S. 1998. Detection and identification of *M. tuberculosis* by DNA amplification and conventional culture methods in local samples. In: National Conference on tuberculosis Update on November 8, 1998 organized by Pakistan Chest Society Faisalabad Chapter.
 29. Imtiaz H, **Idrees M.** *Circulating microRNA expression profiling in HCV infected patients: A novel insight into diagnostic and therapeutic research.* In: International Symposium on Advances in Molecular Biology of Plants & Health Sciences. December 29-31, 2015, organized by CEMB, University of the Punjab Lahore-Pakistan. **Page-70.**
 30. Shahid M, **Idrees M.** *Correlation of clinical markers, viral load with liver fibrosis stages and grades in chronic HCV patients with genotype 3a.* In: International Symposium on Advances in Molecular Biology of Plants & Health Sciences. December 29-31, 2015, organized by CEMB, University of the Punjab Lahore-Pakistan. **Page-73.**
 31. Amin I, **Idrees M.** *Vertical transmission of dengue by Aedes sygepti.* In: International Symposium on Advances in Molecular Biology of Plants & Health Sciences. December 29-31, 2015, organized by CEMB, University of the Punjab Lahore-Pakistan. **Page-75**
 32. Afzal S, **Idrees M.** *Global consensus sequence development of dengue virus for peptide based vaccine design against local dengue virus.* In: International Symposium on Advances in Molecular Biology of Plants & Health Sciences. December 29-31, 2015, organized by CEMB, University of the Punjab Lahore-Pakistan.

13. Reviewer of more than 20 International Scientific Journals (few are given below):

- The Lancet Infectious Diseases
- Nature
- Emerging Infectious Diseases
- Virus Genes
- European Journal of Virological Methods,
- BMC Virology,
- BMC Infectious Diseases,
- Infection, Genetics and Evolution,
- Journal of Medical Virology

14. External Examiner (PhD/M. Phil level):

- Baqai Medical University Karachi

- University of Animal & Veterinary Sciences (UVAS) Lahore
- Liaqat University of Medical & Health Sciences (LUMHS) Jamshoro Sindh.
- Hazara University Mansehra KPK
- Atta Ur Rahman School of Applied Biosciences (ASAB) National University of Science & Technology (NUST) Islamabad.
- Lahore University Lahore, Punjab Pakistan.
- Government College for women University Lahore
- University of the Gujrat

15. Reviewer of grants in the field of Health Biotechnology for Higher Education Commission (HEC) of Pakistan

16. Focal person Higher Education Commission (HEC) of Pakistan for grants in the field of Health Biotechnology-2016-2017.

17. Community Services are below:

Type	Title	Order No.	Duration	Date
Diagnostic Services	Establishment of Molecular Diagnostic Facilities at CAMB	PC1	19 Years	01/06/2000
Diagnostics Services	Establishments of Molecular diagnostic Kits	IPO Patent No. 138719	16 Years	01/05/2003
Teaching & Research	Development of an excellent teaching & Research Programs for BS (4 years) in Applied Molecular Biology & Forensic Sciences	N/A	3 years	07/06/2016
Teaching & Research	Development of an excellent teaching & Research Programs for M. Phil in Applied Molecular Biology & Forensic Sciences	NOC/D/QA/HEC/UOP/2016	3 years	07/03/2016
Teaching & Research	Development of an excellent teaching & Research Programs for Ph. D in Applied Molecular Biology & Forensic Sciences	NOC/D/QA/HEC/UOP/2016/532	3 years	25/04/2016
Diseases Control Services	Member Cabinet Committee on Dengue Control-Health Department Constituted by Chief Minister, Government of the Punjab.	N/A	4 Years	01/02/2012
Dengue Diagnostic Services	Free Molecular Diagnosis Services for Dengue Virus from 01-09-2011	N/A	8 Years	01/09/2011
Prevention & Control of Hepatitis	Member (Co-opted) of "Technical Expert Committee of Medicine" recommended by Steering Committee on Prevention & Control of Hepatitis Program.	N/A		