CURRICULUM VITAE
MUHAMMAD ASIF NAEEM, Ph.D.

PERSONAL INFORMATION:

Full Name:	Muhammad Asif Naeem
Qualification:	Ph.D. (Molecular Biology)
Specialization:	Genetic Diseases (Ophthalmic)
Designation:	Assistant Professor (TTS)
Supervision:	HEC Approved Supervisor
Date of Birth:	January 01, 1979
Nationality:	Pakistani
Office:	National Centre of Excellence in Molecular Biology (CEMB), University of the Punjab, Lahore – 53700, Pakistan.
TEL: Office:	+92-42-35293141-46, +92-42-35293127 **Fax:** +92-42-35293147
TEL: Home:	+92-42-35311797
Cell:	+92-302-4751815, +92-323-4751815
E-mail :	asif.naeem@cemb.edu.pk, asif_pachar@yahoo.com

ACADEMIC & PROFESSIONAL CAREER

2019 – to date	**Assistant Professor (TTS)**	CEMB, University of the Punjab, Lahore – Pakistan
2012 – 2018	**Assistant Professor (**Contract**)**	CEMB, University of the Punjab, Lahore – Pakistan
31 Dec, 2011	**PhD Degree**	CEMB, University of the Punjab, Lahore – Pakistan
2009 – 2011	**Assistant Research Officer**	CAMB, University of the Punjab, Lahore - Pakistan
2006 – 2009	**HEC PhD Fellow**	HEC Fellow, CEMB, University of the Punjab, Lahore
2004 – 2006	**MPhil**	CEMB, University of the Punjab, Lahore – Pakistan
2003 – 2004	**Teaching Job**	Teaching at secondary school level for one year
2000 – 2002	**MSc** (Biochemistry)	University of Arid Agriculture Rawalpindi - Pakistan.
1997 – 1999	**BSc** (Science)	Govt. College Bosan Road, BZU, Multan
1994 – 1996	**FSc** (Pre-Medical)	Govt. College of Science, BISE, Multan

RESEARCH INTEREST & OBJECTIVE:

I "Muhammad Asif Naeem" have research interests include therapeutic approached involved in hereditary vision impairments, biological mechanisms underlying recessive ophthalmic genetic disorders those have significantly increasing prevalence of diseases and imposing economic hardships on Pakistani families. I want to exercise my knowledge and professional skill in a highly competitive environment with dedication and devotion in order to win organizational as well as individual goals.

I am presently working as Assistant Professor at the National Centre of Excellence in Molecular Biology (CEMB), University of the Punjab, Lahore, engaged in teaching and research in the Genetics of Human Vision Impairment. During the last ten years, we have been working to search new genes/ loci involved in Vision Impairment. This project is being carried out as a joint effort involving Dr. S. Riazuddin here at CEMB, Dr. S. Amer Riazuddin at Johns Hopkins university MD USA and Dr. J. Fielding Hejtmancik labs at NEI/NIH, USA. More recently, our collaborative approach has also included next generation DNA sequencing of captured linkage intervals, whole exomes, and genomes. These efforts have led to 70+ peer-reviewed publications.

As member of this group, I have contributed in identification of vision impaired families, clinical evaluation through Fundoscopy, ERG etc. Further, I have been actively involved in studies on linkage analysis, Genotyping, Sanger sequencing, Exome Sequencing. I am well experienced in these clinical and lab methodologies. My core expertise is in the field of Molecular Biology and focused area of research is Human Molecular Genetics & Bioinformatics.

Furthermore, homozygosity mapping by STR markers is needed to be updated by using multiplexing techniques. Next Generation Sequencing, Exome Sequencing that reduce the cost and time of screening of affected families. In the said facilities, our centre lacks the expertise as well as advance equipment here in Pakistan. In view of the bioinformatics, applying advance tool to execute mutant protein structure those are involved in different pathways like visual pathway. Finally, when possible, we apply our findings to improve the diagnostic by additional techniques like karyotyping, FISH or CGH and therapeutic approaches by using stem cells or gene therapy to the diseases we study. For this purpose, clinical trials are required to reduce the burden of hereditary blindness in Pakistani families.

FIELDS OF EXPERTIES

- **Genotyping & Sequencing of DNA from Human Genome** for Linkage as well as Mutation findings in reported/candidate genes in Vision Impairment Laboratory, CEMB, PU, Lahore.
- **Electroretinography (ERG) & Fundoscopy** performed on affected or unaffected individuals for the diagnosis of various Hereditary Retinal Diseases at CEMB, PU, Lahore.
- **Bioinformatics tools** for Exome data analysis and Swiss-Model PDB viewer for Modelling of Proteins, sequence alignments and Databases. (Genome Browser, Ensemble, HGMD, etc.)
- **Cyrillic for pedigree drawings** for inheritance pattern and **Easy linkage software**, Lod Score calculation for linkage analysis.
- Good grant writing, reading & evaluating skills along with handful knowledge of Genetic Disorders.

RESEARCH GRANT & SUPERVISION EXPERIANCE

- **Principal Investigator of HEC NRPU project 2593 (Completed) titled as "Investigating the molecular basis of Retinitis Pigmentosa"** at vision impairment lab, National Centre of Excellence in Molecular Biology, University of the Punjab, Lahore.
- **PAK-US HEC Project** "A Molecular Approach to Prevent Hereditary Blindness in Pakistan" was Principal Investigated by Prof. Dr. Tayyab Husnain in Vision Impairment Lab, CEMB, Lahore.
- **In charge Vision Impairment Lab, Genetic Diseases Research Group,** at CEMB, PU, Lahore.
- **PhD Research Supervisor** Supervision of PhD & MS/M. Phil Research Students of Vision Impairment Lab at National Centre of Excellence in Molecular Biology, University of the Punjab, Lahore.
- **Ex-HEC PhD Research Fellow** Vision Impairment Lab, Genetic Diseases Research Group, at National Centre of Excellence in Molecular Biology, University of the Punjab, Lahore.
- **Research Experience.** Fifteen years of research experience in Human Molecular genetics specially in Hereditary Vision Impairment at CEMB, University of the Punjab that having different collaborations with NEI/NIH & Johns Hopkins University MD, USA

FOREIGN TRAINING COURSE & EXPERIENCE

- **International Summit of Genetics & Genomics 2018** for Advance Course & Training at National Human Genome Research Institute (NHGRI) & National Eye Institute (NEI), National Institute of Health (NIH), Bethesda, MD USA.

TEACHING, REVIEW & EVALUATION EXPERIANCE

- **Teaching in Course of Medical Genetics (CEMB-510)** to MS/MPhil sessions completed successfully at National Centre of Excellence in Molecular Biology (CEMB), University of the Punjab, Lahore.
- **Reviewer of National Journal "Advancement in Life Sciences"** at CEMB, PU, Lahore Pakistan.
- **External Examiner for multiple candidates of MS/MPhil, MSc & BS Research Program** at Public & Private Universities in Pakistan

ORGANIZATION & PARTICIPATION IN SYMPOSIA/CONFERENCES

- Member of Organizing Committee of Symposium on "**Applications of Biotechnology in Health & Agriculture**" held on March 28, 2012. Department of Bioinformatics and Biotechnology, Government College University, Faisalabad (Pakistan) sponsored by Technical Expert Network, Singapore. www.ten-world.com
- Certificate of participation in "**DNA Day**" & "**NAYS Emerging Ideas Conference**" held on April 25, 2012. Jointly organized by National Academy of Young Scientists (NAYS) & National Centre of Excellence in Molecular Biology (CEMB), University of the Punjab, Lahore, Pakistan. www.cemb.edu.pk
- Certificate of participation in "**World Science Day for Peace and Development 2014**" held on November 10, 2014. Organized by International Centre for Chemical & Biological Sciences, University of Karachi & National Academy of Young Scientists (NAYS) for **an online lecture by Prof. Dr. Atta-ur-Rahman** at National Centre of Excellence in Molecular Biology (CEMB), University of the Punjab, Lahore, Pakistan.
- Certificate of presentation in "International Symposium on Genetics Diseases" held on March 30-31, 2015 organized by Shaheed Zulfiqar Ali Bhutto Medical University, PIMS Islamabad, Pakistan.
- Certificate of participation in International Training Workshop "**New Trends in Molecular Diagnosis of Genetics Diseases**" held on May 25-29, 2015 at National Centre of Excellence in Molecular Biology (CEMB), University of the Punjab, Lahore, Pakistan.
- Certificate of Oral presentation in the 3rd international symposium on "**Advances in Molecular Biology of Plants and Health Sciences**" held on December 19-21, 2018 organized by National Centre of Excellence in Molecular Biology (CEMB), University of the Punjab, Lahore, Pakistan.
- Certificate of participation in Scientific Symposium on "**Brain, Neurogenetics and Regenerative Medicine**" held on October 03, 2019 at National Centre of Excellence in Molecular Biology (CEMB), University of the Punjab, Lahore, Pakistan.
- Certificate of Appreciation as a participant in the International Conference "**Recent Innovations in Molecular Sciences**" held on November 06-08, 2019 Organized by the University of the Punjab, Lahore - Pakistan.
- Certificate of Appreciation as a organizer in the 4th international symposium on "**Advances in Molecular Biology of Plants and Health Sciences**" held on December 23-24, 2021 at National Centre of Excellence in Molecular Biology (CEMB), University of the Punjab, Lahore, Pakistan.

INTERNATIONAL PUBLICATIONS (Impact Factor = 119.152)

1. Muhammad Iqbal, **Muhammad Asif Naeem,** S. Amer Riazuddin, Shahbaz Ali, Tahir Farooq, Zaheeruddin A. Qazi, Shaheen N. Khan, Tayyab Husnain, Saima Riazuddin, Paul A. Sieving, J. Fielding Hejtmancik, Sheikh Riazuddin. Pathogenic mutations in ***TULP1*** are associated with Retinitis pigmentosa in consanguineous Pakistani families. ***Arch Ophthalmol.*** 2011; 129 (10): 1351-1357.
2. **Muhammad Asif Naeem**, Venkata R. M. Chavali, Shahbaz Ali, Muhammad Iqbal, Saima Riazuddin, Shaheen N. Khan, Tayyab Husnain, Paul A. Sieving, Radha Ayyagari, Sheikh Riazuddin, J. Fielding Hejtmancik, and S. Amer Riazuddin. ***GNAT1*** Associated with Autosomal Recessive Congenital Stationary Night Blindness. ***Invest Ophthalmol Vis Sci.*** 2012 Mar 13; 53(3): 1353-61.
3. Emma M. Jenkinson, Atteeq U. Rehman, Tom Walsh, Jill Clayton-Smith, Kwanghyuk Lee, Robert J. Morell, Meghan C. Drummond, Shaheen N. Khan, **Muhammad Asif Naeem**, Bushra Rauf, Neil Billington, Julie M. Schultz, Jill E. Urquhart, Ming K. Lee, Andrew Berry, Neil A. Hanley, Sarju Mehta, Deirdre Cilliers, Peter E. Clayton, Helen Kingston, Miriam J. Smith, Thomas T. Warner, University of Washington Center for Mendelian Genomics, Graeme C. Black, Dorothy Trump, Julian R.E. Davis, Wasim Ahmad, Suzanne M. Leal, Sheikh Riazuddin, Mary-Claire King, Thomas B. Friedman, and William G. Newman. Perrault Syndrome Is Caused by Recessive Mutations in ***CLPP***, Encoding a Mitochondrial ATP-Dependent Chambered Protease. ***Am J Hum Genet.*** 2013, 92: 605-613.
4. Firoz Kabir, Shagufta Naz, S. Amer Riazuddin, **Muhammad Asif Naeem**, Shaheen N. Khan, Tayyab Husnain, Javed Akram, Paul A. Sieving, J. Fielding Hejtmancik, Sheikh Riazuddin. Novel Mutations in ***RPE65*** Identified in Consanguineous Pakistani Families with Retinal Dystrophies. ***Mol. Vis.*** 2013; 19:1554-1564.

5. David Li, Chongfei Jin, Xiaodong Jiao, Lin Li, Tahmina Bushra, **Muhammad Asif Naeem**, Nadeem H. Butt, Tayyab Husnain, Paul A. Sieving, Sheikh Riazuddin, S. Amer Riazuddin, and J. Fielding Hejtmancik. AIPL1 implicated in the pathogenesis of two cases of autosomal recessive retinal degeneration. ***Mol. Vis.*** 2014; 20:1-14.

6. Maranhao B, Biswas P, Duncan JL, Branham KE, Silva GA, **Muhammad Asif Naeem**, Khan SN, Riazuddin S, Hejtmancik JF, Heckenlively JR, Riazuddin SA, Lee PL, Ayyagari R. ExomeSuite: Whole exome sequence variant filtering tool for rapid identification of putative disease causing SNVs/indels. ***Genomics*** 2014 Mar 3. 103(2-3): 169-176.

7. Ali S, Khan SY, **Muhammad Asif Naeem**, Khan SN, Husnain T, Riazuddin S, Ayyagari R, Riazuddin S, Hejtmancik JF, Riazuddin SA. Phenotypic Variability Associated with the D226N Allele of ***IMPDH1***. ***Ophthalmology***. 2015 Feb; 122(2):429-31.

8. Khan SY, Ali S, **Muhammad Asif Naeem**, Khan SN, Husnain T, Butt NH, Qazi ZA, Akram J, Riazuddin S, Ayyagari R, Hejtmancik JF, Riazuddin SA. Splice-site mutations identified in ***PDE6A*** responsible for retinitis pigmentosa in consanguineous Pakistani families. ***Mol Vis.*** 2015 Aug 18; 21:871-82.

9. Maranhao B, Biswas P, Gottsch AD, Navani M, **Muhammad Asif Naeem**, Suk J, Chu J, Khan SN, Poleman R, Akram J, Riazuddin S, Lee P, Riazuddin SA, Hejtmancik JF, Ayyagari R. Investigating the Molecular Basis of Retinal Degeneration in a Familial Cohort of Pakistani Decent by Exome Sequencing. ***PLoS One***. 2015 Sep 9; 10(9): e0136561.

10. **Muhammad Asif Naeem**, Gottsch AD, Ullah I, Khan SN, Husnain T, Butt NH, Qazi ZA, Akram J, Riazuddin S, Ayyagari R, Hejtmancik JF, Riazuddin SA. Mutations in ***GRM6*** identified in consanguineous Pakistani families with congenital stationary night blindness. ***Mol Vis.*** 2015 Oct 31; 21:1261-71.

11. Biswas P, Chavali VR, Agnello G, Stone E, Chakarova C, Duncan JL, Kannabiran C, Homsher M, Bhattacharya SS, **Muhammad Asif Naeem**, Kimchi A, Sharon D, Iwata T, Riazuddin S, Reddy GB, Hejtmancik JF, Gerogiou G, Riazuddin SA, Ayyagari R. A missense mutation in the ***ASRGL1*** gene is involved in causing autosomal recessive retinal degeneration. ***Hum Mol Genet.*** 2016 Jun 15;25(12):2483-2497.

12. Firoz Kabir, Inayat Ullah, Shahbaz Ali, Alexander D.H. Gottsch, **Muhammad Asif Naeem**, Muhammad Zaman Khan, Shaheen N. Khan, Javed Akram, Sheikh Riazuddin, Radha Ayyagari, J. Fielding Hejtmancik, S. Amer Riazuddin. Loss of function mutations in ***RP1*** is responsible for retinitis pigmentosa in consanguineous familial cases. ***Mol Vis.*** 2016 Jun 10;22: 610-25.

13. Inayat Ullah, Kabir F, Iqbal M, Gottsch CB, **Muhammad Asif Naeem**, Assir MZ, Khan SN, Akram J, Riazuddin S, Ayyagari R, Hejtmancik JF, Riazuddin SA. Pathogenic mutations in ***TULP1*** responsible for retinitis pigmentosa identified in consanguineous familial cases. ***Mol Vis.*** 2016 Jul 16; 22:797-815.

14. Rauf B, Irum B, Kabir F, Firasat S, **Muhammad Asif Naeem**, Khan SN, Husnain T, Riazuddin S, Akram J, Riazuddin SA. A spectrum of ***CYP1B1*** mutations associated with primary congenital glaucoma in families of Pakistani descent. ***Hum Genome Variation,*** 2016 Aug 4; 3:16021.

15. Irum B, Khan SY, Ali M, Kaul H, Kabir F, Rauf B, Fatima F, Nadeem R, Khan AO, Al Obaisi S, **Muhammad Asif Naeem**, Nasir IA, Khan SN, Husnain T, Riazuddin S, Akram J, Eghrari AO, Riazuddin SA. Mutation in ***LIM2*** Is Responsible for Autosomal Recessive Congenital Cataracts. ***PLoS One.*** 2016 Nov 4;11(11): e0162620.

16. Inayat Ullah, Firoz Kabir, Gottsch CB, **Muhammad Asif Naeem**, Guru AA, Ayyagari R, Khan SN, Riazuddin S, Akram J, Riazuddin SA. Mutations in ***phosphodiesterase 6*** identified in familial cases of retinitis pigmentosa. ***Hum Genome Variation,*** 2016 Nov 17; 3:16036.

17. Irum B, Khan SY, Ali M, Daud M, Kabir F, Rauf B, Fatima F, Iqbal H, Khan AO, Al Obaisi S, **Muhammad Asif Naeem**, Nasir IA, Khan SN, Husnain T, Riazuddin S, Akram J, Eghrari AO, Riazuddin SA. Deletion at the ***GCNT2*** Locus Causes Autosomal Recessive Congenital Cataracts. ***PLoS One.*** 2016 Dec 9;11(12): e0167562.

18. Chen J, Wang Q, Cabrera PE, Zhong Z, Sun W, Jiao X, Chen Y, Govindarajan G, **Muhammad Asif Naeem**, Khan SN, Ali MH, Assir MZ, Rahman FU, Qazi ZA, Riazuddin S, Akram J, Riazuddin SA, Hejtmancik JF. Molecular Genetic Analysis of Pakistani Families with Autosomal Recessive Congenital Cataracts by Homozygosity Screening. ***Invest Ophthalmol Vis Sci.*** 2017 Apr 1;58(4):2207-2217.

19. Li L, Chen Y, Jiao X, Jin C, Jiang D, Tanwar M, Ma Z, Huang L, Ma X, Sun W, Chen J, Ma Y, M'hamdi O, Govindarajan G, Cabrera PE, Li J, Gupta N, **Muhammad Asif Naeem**, Khan SN, Riazuddin S, Akram J, Ayyagari R, Sieving PA, Riazuddin SA, Hejtmancik JF. Homozygosity Mapping and Genetic Analysis of Autosomal Recessive Retinal Dystrophies in 144 Consanguineous Pakistani Families. ***Invest Ophthalmol Vis Sci.*** 2017 Apr 1;58(4):2218-2238.

20. Biswas P, Duncan JL, Ali M, Matsui H, **Muhammad Asif Naeem**, Raghavendra PB, Frazer KA, Arts HH, Riazuddin S, Akram J, Hejtmancik JF, Riazuddin SA, Ayyagari R. A mutation in IFT43 causes non-syndromic recessive retinal degeneration. ***Hum Mol Genet.*** 2017 Dec 1;26(23): 4741-4751.

21. Li L, Jiao X, D'Atri I, Ono F, Nelson R, Chan CC, Nakaya N, Ma Z, Ma Y, Cai X, Zhang L, Lin S, Hameed A, Chioza BA, Hardy H, Arno G, Hull S, Khan MI, Fasham J, Harlalka GV, Michaelides M, Moore AT, Coban Akdemir ZH, Jhangiani S, Lupski JR, Cremers FPM, Qamar R, Salman A, Chilton J, Self J, Ayyagari R, Kabir F, **Muhammad Asif Naeem**, Ali M, Akram J, Sieving PA, Riazuddin S, Baple EL, Riazuddin SA, Crosby AH, Hejtmancik JF. Mutation in the intracellular chloride channel ***CLCC1*** associated with autosomal recessive retinitis pigmentosa. ***PLoS Genet.*** 2018 Aug 29;14(8): e1007504.

22. Biswas P, **Muhammad Asif Naeem,** Ali MH, Assir MZ, Khan SN, Riazuddin S, Hejtmancik JF, Riazuddin SA, Ayyagari R. Whole-Exome Sequencing Identifies Novel Variants that Co-segregates with Autosomal Recessive Retinal Degeneration in a Pakistani Pedigree. ***Adv Exp Med Biol.*** 2018; 1074:219-228.

23. Khan SY, Kabir F, M'Hamdi O, Jiao X, **Muhammad Asif Naeem,** Khan SN, Riazuddin S, Hejtmancik JF, Riazuddin SA. Whole genome sequencing data for two individuals of Pakistani descent. ***Sci Data.*** 2018 Sep 11; 5: 180174.

24. Jiao X, Khan SY, Kaul H, Butt T, **Muhammad Asif Naeem,** Riazuddin S, Hejtmancik JF, Riazuddin SA. Autosomal recessive congenital cataracts linked to ***HSF4*** in a consanguineous Pakistani family. ***PLoS One.*** 2019 Dec 9;14(12): e0225010.

25. Khan R, Shabbir RMK, Raza I, Abdullah U, **Muhammad Asif Naeem**, Ahmed A, Malik S, Hu Z, Xia K. A founder ***RDH5*** splice site mutation leads to retinitis punctata albescence in two inbred Pakistani kindreds. ***Ophthalmic Genetics*** 2020 Feb; 41 (1), 7-12.

26. Rauf B, Irum B, Khan SY, Kabir F, **Muhammad Asif Naeem**, Riazuddin S, Ayyagari R, Riazuddin SA. Novel mutations in ***LTBP2*** identified in familial cases of primary congenital glaucoma. ***Molecular vision*** 2020 Feb 24; 26, 14.

27. Iqbal H, Khan SY, Zhou L, Irum B, Ali M, Ahmed MR, Shahzad M, Ali MH, **Muhammad Asif Naeem**, Riazuddin S, Hejtmancik JF, Riazuddin SA. Mutations in ***FYCO1*** identified in families with congenital cataracts. ***Molecular vision*** 2020 Apr 28; 26, 334.

28. Nadeem R, Kabir F, Li J, Gradstein L, Jiao X, Rauf B, **Muhammad Asif Naeem**, Assir MZ, Riazuddin S, Ayyagari R, Hejtmancik JF, Riazuddin SA. Mutations in ***CERKL*** and ***RP1*** cause retinitis pigmentosa in Pakistani families. ***Human Genome Variation*** 2020 May 12; 7 (1), 1-4.

29. Khan SY, Ali M, Lee MW, Ma Z, Biswas P, Khan AA, **Muhammad Asif Naeem**, Riazuddin S, Riazuddin S, Ayyagari R, Hejtmancik JF, Riazuddin SA. Whole genome sequencing data of multiple individuals of Pakistani descent. ***Scientific Data*** (2020) Oct 13; 7(1): 350.

30. Ali M, Khan SY, Rodrigues TA, Francisco T, Jiao X, Qi H, Kabir F, Irum B, Rauf B, Khan AA, Mehmood A, **Muhammad Asif Naeem**, Assir MZ, Ali MH, Shahzad M, Abu-Amero KK, Akram SJ, Akram J, Riazuddin S, Riazuddin S, Robinson ML, Baes M, Azevedo JE, Hejtmancik JF, Riazuddin SA. A missense allele of ***PEX5*** is responsible for the defective import of PTS2 cargo proteins into peroxisomes. ***Hum Genet.*** 2021 Apr;140(4):649-666.

31. Azhar Baig HM, Ansar M, Iqbal A, **Muhammad Asif Naeem**, Quinodoz M, Calzetti G, Iqbal M, Rivolta C. Genetic analysis of consanguineous Pakistani families with congenital stationary night blindness. Ophthalmic Res. 2022;65(1):104-110. doi: 10.1159/000520895. Epub 2021 Nov 15.

32. Ma Y, Wang X, Shoshany N, Jiao X, Lee A, Ku G, Baple EL, Fasham J, Nadeem R, **Muhammad Asif Naeem**, Riazuddin S, Riazuddin SA, Crosby AH, Hejtmancik JF. CLCC1 c. 75C>A Mutation in Pakistani Derived Retinitis Pigmentosa Families Likely Originated with a Single Founder Mutation 2,000-5,000 Years Ago. Front Genet. 2022 Mar 22; 13: 804924. doi: 10.3389/fgene.2022.804924.

NATIONAL PUBLICATION:

33. Daud S, Shahzad S, Shafique M, Bhinder MA, Niaz M, **Muhammad Asif Naeem**, Azam M, Rehman Z, Husnain T. (2014). Optimization and Validation of PCR protocol for three Hypervariable Regions (***HVI, HVII and HVIII***) in Human Mitochondrial DNA. ***Adv. Life Sci.,*** 1(3) pp. 165-170.

LIST OF PhD/M.PHIL DEGREE AWARDED RESEARCH SCHOLARS UNDER THE SUPERVISION OF DR. MUHAMMAD ASIF NAEEM

A total of Eighteen PhD & MPhil Research Scholars Degrees in Molecular Biology under the supervision of Dr. Muhammad Asif Naeem. Following are research scholars awarded MPhil degrees.

S.NO.	NAME	DEGREE	YEAR	TOPIC OF THESIS
1.	Inayatullah	Ph.D.	Aug 2017	Molecular Characterization of Retinal Disorders in Pakistani Population
2.	Hira Iqbal	Ph.D.	Oct 2020	Molecular and Genetic Screening of Hereditary Lens Opacification in Pakistani Families
3.	Raheela Sharif	Ph.D.	Oct 2020	Genetic Basis of Inherited Night Blindness in Pakistani Population
4.	RamlaAshfaq	MPhil	Session 2011-2013	"Molecular Characterization of Autosomal Recessive Primary Congenital Glaucoma in Consanguineous Families"
5.	Mubashra Zahra	MPhil	Session 2012-14	"Identification of Molecular Basis of Primary Congenital Glaucoma in Families from Punjab ".
6.	Mahmood Ghafoor	MPhil	Session 2013-15	Functional Characterization of Mutations Responsible for Cataractogenesis
7.	Syed Zaheeruddin	MPhil	Session 2013-15	Linkage Mapping of Retinitis Pigmentosa in Families from Punjab Province of Pakistan
8.	Shariqa Abbas	MPhil	Session 2013-15	Identification of Genetic Basis of Autosomal Recessive Retinitis Pigmentosa in Pakistani Families
9.	Fareeha Fatima	MPhil	Session 2014-16	Comprehensive Genetic Study of Linkage Mapping with Autosomal Recessive Congenital Cataract in Pakistani Families
10	. Faria Javed	MPhil	Session 2014-16	Homozygosity of Autosomal Recessive Congenital Cataract in Pakistani Families
11	. Zainab Rasheed	MPhil	Session 2014-16	Genetic Screening of Autosomal Recessive Retinitis Pigmentosa in Pakistani Families
12	. Ammar Azhar	MPhil	Session 2015-17	Mutational Analysis of CYP1B1 in Families Having Primary Congenital Glaucoma.
13	. Ahsan Iqbal	MPhil	Session 2015-17	Molecular Determinants in Inherited Ocular Segment Disorders
14	. Ghazia Islam	MPhil	Session 2016-18	Screening of Known Hereditary Retinitis Pigmentosa Genes/Loci in Southern Punjab Pakistani Families
15	. Abid Naseer	MPhil	Session 2016-18	Comprehensive Genetic Study of Autosomal Recessive Congenital Cataract in Pakistani Families
16	. Tanveer Hussain	MPhil	Session 2017-19	Screening of Pathogenic Variants in Cytochrome P4501B1 Gene Causing Primary Congenital Glaucoma.
17	. Nirmal Zahra	MPhil	Session 2018-20	Genetic Screening of X-Linked Retinitis Pigmentosa in Consanguineous Punjabi Families.
18	. Tehmeena Akhter	MPhil	Session 2018-20	Mutational Analysis of Exon 59 of the LRP1 Gene in Southern Punjab Families
19	. Zoya Asad	MPhil	Session 2019-21	Mutational Screening of X-Linked Pakistani Families having affected individuals with Congenital Cataract and Retinitis Pigmentosa
20	. H. Aazib Abeer	MPhil	Session 2019-21	Mutational Analysis of CYP1B1 gene causing Primary Congenital Glaucoma in Pakistani Families.

LIST OF BS/MSc/MS/MPHIL DEGREE CANDIDATES FOR THESISEVALUATION & VIVA VOCE AS EXAMINER BY DR. MUHAMMAD ASIF NAEEM

S.NO.	NAME	DEGREE	DATED	INSTITUTE/DEPARTMENT/UNIVERSITY
1.	Qurra-Tul-Ain	MPhil	Sep 09, 2013	Institute of Biochemistry & Biotechnology, University of Veterinary & Animal Sciences, Lahore – Pakistan.
2.	M. Abbas Sadiq	MPhil	Sep 17, 2013	Institute of Biochemistry & Biotechnology, University of Veterinary & Animal Sciences, Lahore – Pakistan.
3.	Zara Zaheer	MPhil	Jun 12, 2014	Institute of Biochemistry & Biotechnology, University of Veterinary & Animal Sciences, Lahore – Pakistan.
4.	Aliya Junaid	BS	Jul 31, 2015	Zoology Department, Lahore College for Women University, Lahore – Pakistan
5.	Amna Tehseen	BS	Jul 31, 2015	Zoology Department, Lahore College for Women University, Lahore – Pakistan
6.	Dr. Faiza Munir	MPhil	Aug 04, 2016	Human Genetics & Molecular Biology, University of Health Sciences, Lahore – Pakistan.
7.	Nazia Batool	MSc	Nov 04, 2016	Department of Chemistry, University of the Punjab, Lahore – Pakistan
8.	Unbreen Kousar	MSc	Nov 04, 2016	Department of Chemistry, University ofthe Punjab, Lahore – Pakistan
9.	Sehrish Allah Ditta	BS	Jul 10, 2017	Govt. Postgraduate Islamia Collegefor Women, Cooper Road, LCWU, Lahore
10	. Shanza Zahid	BS	Jul 10, 2017	Govt. Postgraduate Islamia Collegefor Women, Cooper Road, LCWU, Lahore
11	. Shumaila Munir	BS	Jul 10, 2017	Govt. Postgraduate Islamia Collegefor Women, Cooper Road, LCWU, Lahore
12	. Sidra Khanum	BS	Jul 10, 2017	Govt. Postgraduate Islamia Collegefor Women, Cooper Road, LCWU, Lahore
13	. Sundas Azam	BS	Jul 10, 2017	Govt. Postgraduate Islamia Collegefor Women, Cooper Road, LCWU, Lahore
14	. Syeda Amna Arshad	BS	Jul 10, 2017	Govt. Postgraduate Islamia Collegefor Women, Cooper Road, LCWU, Lahore
15	. NA	BS	Jul 27, 2017	Govt. College for Women Gulberg, Lahore
16	M. Mudassar Rashid	MPhil	Jul 08, 2019	Human Genetics & Molecular Biology, University of Health Sciences, Lahore – Pakistan.
17	. Dr. Mahnaz Siddiqui	MPhil	Jan 22, 2020	Human Genetics & Molecular Biology, University of Health Sciences, Lahore – Pakistan.
18	. Iqra Ishtiaq	MPhil	Aug 24, 2020	Department of Biochemistry & Biotechnology, The Islamia University of Bahawalpur, Bahawalpur - Pakistan

REFERENCES

1. **Prof. Dr. AHMAD ALI SHAHID (Director/Professor/Head of the Department)**
   National Centre of Excellence in Molecular Biology (CEMB), University of the Punjab, Lahore, Pakistan. 53700.
   Tel: +92-42-35293137. Mob: +92-332-4854973.
   Fax: +92-42-35293147. Email: director@cemb.edu.pk
2. **Prof. Dr. SHAHEEN N. KHAN (PhD Supervisor/Professor (R))**
   National Centre of Excellence in Molecular Biology (CEMB), University of the Punjab, Lahore, Pakistan. 53700.
   Tel: +92-42-35293141-46. Cell: +92-300-4984477. Email: snkhan50@yahoo.com
3. **SHEIKH RIAZUDDIN (Professor Emeritus)**
   National Centre for Genetic Diseases (NCGD), Shaheed Zulfiqar Ali Bhutto Medical University (SZABMU), PIMS Sector G-8/3, Islamabad-44000, Pakistan
   Tel: +92-51-9260500. Mob: +92-321-8429448. Email: riazuddin@aimrc.org
4. **SHEIKH AMER RIAZUDDIN (Associate Professor)**
   The Wilmer Ophthalmological Institute, The Johns Hopkins University, School of Medicine, 600 N. Wolfe Street, Maumenee # 809 Baltimore, MD 21287 USA.
   Tel: +1-410-955-3656. Email: riazuddin@jhmi.edu