



PERSONAL DETAILS

Name: Akhtar Ali

Student Name: 19 August 1980

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Current Residence: Faculty Residential Apartments, BHU, Varanasi (U.P.), India

CURRENT DESIGNATION:

Assistant Professor (since 11 April 2008) (currently stage-III),

Coordinator: Centre for Genetic Disorders, BHU, Varanasi (Since June 12, 2023)

Scale of Pay: (AL-12, 79800-211500).

Institution: Centre for Genetic Disorders, Institute of Science, Banaras Hindu University, Varanasi-221005.

Major subjects of specialization: Clinical Molecular Genetics (Human Genetics), Zoology.

Current areas of Research:

Genomics of Limb Development and Congenital Limb Malformations,

Molecular Genetic Analysis of Orofacial Cleft Disorders, Hematological Malignancies

EDUCATIONAL QUALIFICATIONS

1. Ph.D. from Department of Zoology, BHU in 2010 in Zoology on Topic: Craniofacial Disorders in Human: Molecular Genetic Analysis of Orofacial Cleft Disorders.
2. M.Sc. from Department of Zoology, BHU in 2004 in Zoology, with Specialization in 'Molecular and Clinical & Applied Genetics'
3. B.Sc. from LBSPG College- Gonda (of Dr RML Awadh University) in 2001 in Chemistry, Zoology, and Botany
4. Intermediate from U.P. Board in 1996 in Hindi, English, Physics, Chemistry, Biology
5. High School from U.P. Board in 1994 in Hindi, English, Mathematics, Science, Biology, Social Science

ACADEMIC POSITIONS HELD

1. Jan 08, 2019 - continued as Assistant Professor Stage-3, BHU Since, (AL-12/79800-211500), involved in research, diagnostics and teaching. Major areas are mentioned below:
Research: Genomics of limb malformations, oro-facial clefts, therapeutics of DMD
Diagnostics: Molecular-genetic diagnostics of disorders (including DMD, BMD, Thalassemia, HD, NTD, SMA, CML, PV, prenatal tests, and other cases referred from Institute of Medical Sciences, Banaras Hindu University).
Teaching & Training: To the students of Ph.D. (Human and Clinical Genetics), PG Diploma (Chromosomal, Genetic and Molecular Diagnostics), M.Sc. (Molecular and Human Genetics, Zoology), B.Sc. (Nursing), Dissertations and trainings (M.D./M.S./M.Sc./M.Tech.).
2. April 11, 2012 – Jan 07, 2019, Assistant Professor Stage-2, BHU, (PB-3).
3. April 11, 2008 – April 10, 2012, Assistant Professor Stage-1, BHU, (PB-3).
4. 2004-2010, BHU, Ph.D. research on Craniofacial Disorders in Human: Molecular Genetic Analysis of Orofacial Cleft Disorders.
5. 2008, Molecular Genetic Analysis of Cleft lip and palate. BHU, ICMR-Senior Research Fellowship, (not availed).
6. May 08, 2007 to April 10, 2008, BHU, Junior Research Fellow, Department of Biotechnology, Govt. of India, worked on 'Molecular Genetic Analysis of orofacial disorders'
7. Jan 01, 2007 to May 07, 2007 BHU, BHU-UGC scholarship, for pursuing Ph.D. research work.
8. March 05, 2005 to December 31, 2006, BHU, Junior Research Fellow, Department of Sc. & Tech, Govt. of India.

RESEARCH & TRAINING EXPERIENCES

1. Participated in yoga workshop 24-28 May 2023, International House Complex, BHU
2. 5th Training course for GLP inspectors, NGCMA, DST, GoI, New Delhi, 23-27 May 2022.
3. Faculty development / Refresher Course Maitreyi College, University of Delhi and GADTLC-Ministry of Education Gov of India. 20th March- 03rd April 2021 (online).
4. Nov 2019, BHU, workshop on good clinical practice.
5. Refresher course 19 Dec 2018- 08 Jan 2019, UGC-ASC-BHU.
6. 2017, Kochi, workshop on genetic counselling.
7. Oct 19 - Nov 15, 2013, ASC BHU, 65th Orientation Course (UGC).
8. Feb 10 – Mar 02, 2011, ASC BHU, First Refresher Course in Medical/Health Sciences [Interdisciplinary] (UGC).
9. April 22-23, 2014, BHU, Training on 'Next Generation Sequencing data analysis for DNA, Exome and RNA sequencing experiments'.
10. Feb 11, 2014, BHU, Author workshop organized by Springer and BHU.
11. Sep 24, 2012, BHU, Author workshop organized by Wiley and BHU.
12. Jan 07-11, 2013, NIBMG Kalyani, W.B. NIBMG-EBI Winter School on Analysis of Massively-Parallel Sequencing Data. National Institute of Biomedical Genetics.
13. Nov 25-27, 2009, SpincoBiotech, Chennai, Training for microarray data analysis.
14. Dec 19-21, 2007, NIE, Chennai, Advanced Statistical Genetics Workshop.
15. Jan 4-12, 2007, TCG-ISI (CPG) Kolkata, Workshop on "Genetic Epidemiological Methods for Dissection of Complex Human Traits".
16. 22-24 March, 2006, MMV, BHU, National Seminar and Workshop on "Bioinformatics and Computational

Biology”.

17. 2006, 07, 08, 09, BSBE, IIT Kanpur, Genome-wide linkage scan with SNP Microarray.
18. 2006, 07, IGIB, New Delhi, Detection of plasma Homocysteine level with HPLC.

FELLOWSHIPS/SCHOLARSHIPS/AWARDS

1. DST young scientist project (awarded 2013).
2. Indian Council of Medical Research (ICMR)-Senior Research Fellowship awarded 2007 (not availed).
3. Department of Biotechnology (DBT)-Junior Research Fellowship May 08, 2007 - April 10, 2008.
4. UGC scholarship Jan 01, 2007 - May 07, 2007.
5. Dept. of Sc. & Tech. (DST) - Junior Research Fellowship March 05, 2005 - December 31, 2006.
6. UGC-National Eligibility Test (NET), June 2003.
7. Graduate Aptitude Test in Engineering (GATE) 2003, All India Rank 256.
8. U.P. Combined Premedical Test (CPMT) 2001, AIR 995.
9. Al Hind Welfare Society Award 1994, Gonda, U.P. (district meritorious).

DISTINCTIONS/AWARD LECTURES

1. Organized muscular dystrophy awareness lectures and interaction with patients and families, at CGD on 30th Sept 2023.
2. Organized cytogenetics workshop under the aegis of Varanasi hematology group on 27th August 2023 at CGD for clinicians from various parts of the country.
3. Task Force member IPR & TT Cell, BHU 2023-
4. Organized workshop at Lala Lajpat Rai, Pathshala, Karaundi, BHU, Varanasi on 23rd Feb 2023.
5. Chaired a session in Hematocon 2022, on 4 Dec 2022, organized by Varanasi Hematology Group, in Apex hospital, Varanasi.
6. International Travel Fellowship from SERB (Gov. of India). “Orofacial Clefts with novel phenotypic presentations and their genetics”. World Cleft Congress 2022 (Cleft 22). 11-15 July 2022, Edinburgh, UK.
7. Nominated and selected for the 5th Training Course for GLP Inspectors to be organized by National GLP Compliance Monitoring Authority (NGCMA), Department of Science and Technology (DST), Govt of India, New Delhi during May 23-27, 2022.
8. Faculty IQAC (Internal Quality Assurance Cell) Coordinator for NAAC-AQAR (Annual Quality Assurance Report), CGD-Inst. Of Science, Banaras Hindu University 2021.
9. Editorial reviewer and adapter of the Indian adaptation of the book 'Principles of Genetics' 7e by D. Peter Snustad, Michael J. Simmons.
10. Treasurer, Indian Society of Hematology and Blood Transfusion (ISHBT)-UP Chapter, and Varanasi Hematology Group.
11. Member executive committee, Bionest, BIRAC, BHU
12. K.N. Udupa Memorial Lecture: Genomic analysis of congenital malformations. 10th Biennial conference of the Indo Nepal association for peripheral nerve surgery (Nervecon-2014 and Lymphocon-2014). Institute of Medical Sciences, Banaras Hindu University and Apex Hospital, Varanasi. November 05-07, 2014.
13. Member (geneticist), executive council, Indo-Nepal association for peripheral nerve and lymphatic surgery. Universal college of medicine, Ranigaon, Behrava, Nepal.
14. Member, TREAT-NMD, Netherlands.
15. Organizing member, Pravasi Bhartiya Diwas BHU 2018.
16. Best research award in Ayurveda (Dr PS Byadgi and Dr A Ali): 16th International Ayurveda Symposium and the First Research Seminar on Ayurveda (IRSA), Organized by European Academy for Ayurveda, Rosenberg Society for Holistic Health and Education non for profit, pvt. Ltd; Birstein (Germany) (The abstract was selected for presentation from 151 international submissions).
17. DST young scientist project awarded 2013.
18. Founder member Varanasi Polycythemia Vera Group (2012).
19. Distinguished researcher award (under special category) lecture: Mapping and Identification of genes for Split Hand /Foot Malformations. ISSHCON 2019, Puri.
20. Resource person and Invited lecture: Molecular & Cytogenetic Tools in Genetic Diagnosis. Workshop on In vitro Diagnostic Platforms for Biomarker detection” from Feb 18-24, 2019, Department of Biotechnology, MNIT Allahabad.
21. Young researcher award lecture: The First Indo-UK Training Workshop on "Current Trends in Genomic and Molecular Medicine” CFAR-KGMU from 19th to 21st November 2018.
22. Young scientist award lecture: International Conference on Environmental Biology and Ecological Modeling (ICEBEM 2014), February 24-26, 2014 Visva-Bharati, Santiniketan – 731 235, India.
23. DD Bharti, Live telecast lecture on Understanding Cleft Genetics. Indocleftcon 2013, Radisson, Nagpur, 17-19 Jan, 2013.
19. Special invited lecture: Mapping genes and identification of risk factors for genetic disorders. Department of Drvyaguna, Faculty of Ayurveda, Institute of Medical Sciences, Banaras Hindu University, Varanasi, Jan 02, 2013.

20. Member Indian Society of Cell Biology.
21. Member Indian Society of Human Genetics.
22. U.P. State Govt. merit scholarship 1994-1996.
23. Al Hind Welfare Society Award 1994 (district meritorious).

Details of TV/Radio talks/interviews:

1. Radio Interview and public interaction by Akashvani- on prevention of genetic disorders, June 19, 2024. Radio-Awadh, SLBS PGC, Gonda.
2. Radio Interview and public interaction by Akashvani-Lucknow on awareness of cleft lip and palate, Feb 27, 2019.
3. Interview: by Arizona State University and Baylor College of Medicine (ASU-BCM) on the Study to understand genetic testing and interpretation of inherited cancer risk in India. 29 Jan 2022.
4. Question-answer interaction in the TV programme Kalyani's first episode, DD-UP.

INVITED AS INVITED SPEAKER / SESSION-CHAIR/ GUEST OF HONOR/ RESOURCE PERSON/ PANELIST/ MODERATOR

1. "Orofacial Clefts with novel phenotypic presentations and their genetics". World Cleft Congress 2022 (Cleft 22). 11-15 July 2022, International Convention Centre, Edinburgh, UK (supported by an International travel grant by SERB, Gov of India).
2. 'Novel orofacial cleft and limb malformation syndromes and their underlying genetics' in the online webinar series 'Science Unlimited'. Yenepoya Research Center, Yenepoya (deemed to be University), Mangaluru 25 Jan 2022.
3. Invited lecture on "PCR Based Detection of Genetic Disorders" on 25th July in an online workshop ("karyashala") under the Accelerate Vigyan Scheme of DST-SERB on Advancements in *In-vitro* Diagnostic Methods in Healthcare, from 19th to 25th July 2021, by the Department of Biotechnology, MNNIT Allahabad, Prayagraj.
4. Invited lecture. Mapping and Identification of genes for Split Hand /Foot Malformations. 43rd Annual Conference of the Indian Society for Surgery of the Hand (ISSHCON 2019), 12th to 15th, September 2019, Puri
5. Invited lecture Molecular & Cytogenetic Tools in Genetic Diagnosis. Workshop on *In-vitro* Diagnostic Platforms for Biomarker detection" from Feb 18-24, 2019, Department of Biotechnology, MNNIT Allahabad.
6. Invited lecture Genomics of Oral clefts in India, in INDOCLEFTCON 2019, 8-11 Feb, 2019, Varanasi.
7. Invited lecture: Genomics of Congenital Malformations: OFC & CLM. The First Indo-UK Training Workshop on Current Trends in Genomic and Molecular Medicine". CFAR-KGMU from 19th to 21st November 2018
8. Invited lecture: Molecular & Cytogenetic Tools in Genetic Diagnosis. Workshop on 'Maternal and Newborn Care : Issues and Challenges', Sept 01-07, 2018, Interdisciplinary School of Life Sciences (ISLS), B.H.U. Varanasi. 6.'Molecular Tools In Genetic Diagnosis: Recent Advancements'. Workshop on 'Maternal and Newborn Care : Issues and Challenges', March 01-07, 2017, Interdisciplinary School of Life Sciences (ISLS), B.H.U. Varanasi.
9. Genomic analysis of congenital malformations. 10th Biennial conference of the Indo-Nepal association for peripheral nerve surgery (Nervecon-2014 and Lymphocon-2014). Institute of Medical Sciences, Banaras Hindu University and Apex Hospital, Varanasi. November 05-07, 2014.
10. Gene-environmental risk factors for Orofacial clef disorders in India. International Conference on Environmental Biology and Ecological Modeling (ICEBEM-2014), February 24-26, 2014 Visva-Bharati, Santiniketan – 731 235, India.
11. Understanding Cleft Genetics. INDOCLEFTCON 2013, Nagpur Jan 17-19, 2013.
12. Ali A. Mapping genes and identification of risk factors for genetic disorders. Department of Drvyaguna, Faculty of Ayurveda, Institute of Medical Sciences, Banaras Hindu University, Varanasi, Jan 02, 2013.
13. Genomics of Orofacial Cleft Disorders. Symposium on Population Genetics and Chromatin Dynamics. January 22-23, 2012, Banaras Hindu University, Varanasi.

RESOURCE PERSON/WORKSHOP FACULTY

12. Resource person and Invited lecture: in "PCR based detection of disease" in the workshop on "Advancements in *In vitro* Diagnostic Methods in Healthcare" under Accelerate Vigyan Scheme of DST-SERB from 19th-25th July 2021, by Department of Biotechnology, MNNIT Allahabad.
13. Workshop on good clinical practice, Inst of Sc, BHU 27-28 Nov 2019.
14. Workshop on 'Maternal and Newborn Care: Issues and Challenges', Sept 01-07, 2018, Interdisciplinary School of Life Sciences (ISLS), B.H.U. Varanasi.
15. Workshop on 'Maternal and Newborn Care: Issues and Challenges', March 01-07, 2017, Interdisciplinary School of Life Sciences (ISLS), B.H.U. Varanasi.
16. Real-Time PCR. IBPRO-APRC Associate School of Neuroscience, 19-23 Oct 2013, Banaras Hindu University, Varanasi

ORGANISING MEMBER:

14. Organized, Cytogenetic workshop, 27 August 2023, CGD, BHU under the aegis of Varanasi hematology group.
15. Organized, Yoga workshop 24-28 May 2023, International House Complex, BHU
1. TK Sharma Memorial Lecture 2023, CGD BHU.
2. SPRC Memorial lecture 2023, Zoology, BHU.
3. Organizing member in ADNAT 23rd annual convention on translating human evolutionary history to criticism medicine. March 10-12, 2023, BHU Varanasi.
4. Organizing member in Workshop on Capillary Electrophoresis in hematology under the aegis of Varanasi Hematology Group, on Feb 12, 2023, at the Apex Hospital, Varanasi.
5. Organizing member in Highlights of Hematocon 2022 December 4, 2022 under the aegis of Varanasi Hematology Group at the Apex Hospital Varanasi.
6. Executive member, International BHU Alumni Meet 2020.
2. Treasurer, workshop on good clinical practice, Inst of Sc, BHU 27-28 Nov 2019.
3. Treasurer, Indian society of hematology (India), and (U.P. chapter), 2019-.
4. Workshop on 'Maternal and Newborn Care: Issues and Challenges', Sept, 2018, Interdisciplinary School of Life Sciences (ISLS), B.H.U. Varanasi.
5. Immunocon 2018, BHU.
6. Organizing secretary, Workshop on 'Maternal and Newborn Care: Issues and Challenges', March 01-07, 2017, Interdisciplinary School of Life Sciences (ISLS), B.H.U. Varanasi.
7. International symposium on Karyotype to Haplotype and Beyond. Banaras Hindu University, Dec 08-10, 2013.
8. International symposium on developmental and complex disorders, and 38th annual conference of the Indian society of human genetics, Dec 09-11, 2012.
9. Symposium on Population Genetics and Chromatin Dynamics, Banaras Hindu University, Varanasi, January 22-23, 2012.
10. International conference on functional genomics: challenges and prospects, October 2-4, 2010, Banaras Hindu University, Varanasi.

SOCIAL WORKS/

1. Down syndrome day
2. SPRC school campaign, Lala Lajpat Rai school, BHU, Karaundi, Varanasi
3. Swasthya Batua,

ADMINISTRATIVE DUTIES:

1. Coordinator, CGD
2. NIBH
3. Member, standing committee, for taking over of newly constructed International Boys Hostel (200 flats), BHU, 27.04.2022 (BHU Ref. No. UE/I-1/512, as per UE/I-1/5212 dt. 23.03.2022).
4. In-charge Admin warden, international house complex 26.11.2018-onwards
5. Warden, International house complex 26.11.2018-onwards
6. In-charge Siddhartha vihar hostel
7. Treasurer, Hematology and Blood Transfusion (ISHBT)-UP Chapter, and Varanasi Hematology Group.
8. Treasurer, Good Clinical Practice Workshop, Clinical Development Services Agency (CDSA), 27-28 Nov, 2019, CGD, BHU.
9. Executive member BioNest, Institute of Science, BHU-2019-.
10. Member Science X (Cross) Talk, Institute of Science, BHU 2021-
11. Organiser, IBAM 2020.
12. Organizer Pravasi Bhartiya Diwas BHU 2018.
13. Observer CTET 2018-onwards, Observer BHU PMT 2012.
14. Member, executive council, Indo-Nepal association for peripheral nerve and lymphatic surgery. Universal college of medicine, Ranigaon, Behrava, Nepal, 2014.
15. Member: TREAT-NMD, Netherlands.
16. Member: Indian Society of Cell Biology, Indian Society of Human Genetics.
17. Member: Prof. S.P. Ray Choudhury Memorial Foundation, BHU, Varanasi.
16. Varanasi Polycythemia Vera Group (FOUNDING member) since 2012.
17. Member secretary, Next Generation Sequencing facility, Banaras Hindu University 2011-13.
18. Member PC, International Centre, BHU. 2022-23, 2023-24.
19. Member and chairman PC, IHC, BHU 2022-23, 2023-24.
20. Member PC, IHC, BHU 2018-24 --.
21. Members of PPC, PC, Students' attendance committee, Board of Examiners, Board of studies, Admission committee, PG Diploma, Internal Quality Assurance Cell, Centre's Research Committee (CRC); of CGD, BHU 2008-onwards.
22. Member: UGC-UPE Focus Area-II, BHU, 2011-13.
23. Member, Disease Biology Group, Interdisciplinary School of Life Sciences, Faculty of Science, BHU, 2011-13.
19. Member, Procession Committee of the Institute Science, BHU, 2016-onwards, coordinator in Spandan, BHU 2017 onwards, member Bionest programme I.Sc. BHU 2019,
24. Member: B.Sc. admission committee, Institute of Science, BHU, 2012-onwards, Member syllabus preparation

- committee (M.Sc. Life Sc), ISLS, BHU.
25. Editorial board member in International journal of Genetics.
 26. Reviewer in journals Molecular Genetics & Genomic Medicine, PLoS ONE, Cleft Palate Craniofacial Journal, Indian Journal of Plastic Surgery, Journal of Genetics, Indian journal of Medical Research, Medicine, Bioinfo J., Case reports in Genetics, Genetic Testing and molecular Biomarkers, Egyptian Journal of Medical Human Genetics.
 27. Editorial review 2020 of the book Principles of Genetics by Snustad Simmons.
 28. In-Charge: Molecular-Genetic Diagnostic Laboratory, CGD, BHU, 2008-13.
 29. In-Charge, Sequencing facility, CGD, BHU, 2007-onwards.
 30. In-Charge, Real-Time PCR, ISLS, BHU, 2010-onwards.
 31. In-Charge, DNA sequencing facility, UGC-UPE, BHU, 2011-onwards.

MEMBERSHIP OF PROFESSIONAL SOCIETIES/ASSOCIATIONS:

1. Treasurer, Indian Society of Hematology and Blood Transfusion (ISHBT)-UP Chapter, and Varanasi Hematology Group.
2. Member executive committee, Bionest, BIRAC, BHU
3. Member (geneticist), executive council, Indo-Nepal association for peripheral nerve and lymphatic surgery. Universal college of medicine, Ranigaon, Behrava, Nepal.
4. Member, TREAT-NMD, Netherlands.
5. Varanasi Polycythemia Vera Group (FOUNDING member) since 2012.
6. Member Indian Society of Cell Biology.
7. Member Indian Society of Human Genetics.
8. Member: Prof. S.P. Ray Choudhury Memorial Foundation, BHU, Varanasi.

RESEARCH AREAS:

Major field of specialization: Human Clinical Molecular Genetics
Current areas of Research: Genomics of Limb Development and Congenital Limb Malformations, Molecular Genetic Analysis of Orofacial Cleft Disorders, Hematological malignancies

RESEARCH GUIDANCE

Ph.D produced/ongoing.: 04 completed, 04 ongoing

1. Student Name: **Dr. Rashmi Patel** (PhD awarded in 2018, currently Post-doc at NCI, NIH, Frederick USA)

Topic: Genomic analysis of congenital limb malformations

Duration: March 2013 - May 2018

2. Student Name: **Dr. Chandra Bhan Singh** (PhD awarded on August 2020, Post-doc at NCI, NIH, Frederick, USA).

Topic: Molecular genetic studies on congenital limb malformations in an Eastern Indian population

Duration: Sept 2013 - March 2021

3. Student Name: **Dr. Anurag Pandey**, BAMS, MD (Asth. Prof, IMS, BHU)

Topic: Epidemiological, pathological, and molecular study of male infertility.

Duration: 2017 - 2021

4. Student Name: **Dr. Lakshmi Kardam**, BAMS, M.D. (Asth. Prof., IMS, BHU).

Topic: A critical study of *artavavaha shrotas* with special reference to clinical, pathological, and molecular genetic analysis of endometriosis induced female infertility in correlation with *Ayurveda prakriti*.

Duration: 23 Dec 2023

5. Student Name: **Mr. Ajeet Kumar**, MSc

Topic: Genetic analysis of hematological malignancies in an Eastern Indian population

Duration: March 2019 - ongoing

6. Student Name: **Mr. Ved Prakash Singh**, MSc, PGDCGMD (BHU)

Topic: Analysis of genomic and environmental risk factors for orofacial cleft disorders

Duration: Jan 2020 – ongoing

7. Student Name: **Ms. Mou Sarkar**

Topic: epidemiological and genomics analysis of monogenic disorders in Varanasi and adjoining regions.

Duration: 26 December 2020- ongoing

M.D./M.S./M.D.S./M.Tech./B.Tech.: 41 (awarded), 15 (enrolled)

PUBLICATIONS

JOURNALS

Pre-prints:

1. p.S45G mutation at a conserved phosphorylation site of α A-crystallin in juvenile cortical cataract. Rashmi Patel, Abhishek Chandra, Ravish Kumar Zenith, Akhtar Ali. <https://doi.org/10.21203/rs.3.rs-2651222/v1>
2. Maurya RP, Maurya AK, Ali A, Singh CB, Singh S, Prajapat MK, Roy M, Manav, Yadav A, Singh VP, Al-Mujaini AS. Suspected Molecular Links in Sebaceous Gland Carcinoma of the Eyelid: A scoping review. (Research square)
3. Sonal Upadhyay, Anuj Kumar, Pradeep Kumar et al. Delta plus variant with neutral mutation is less virulent compared to wild type SARS-CoV2, 12 August 2021, Preprint (Version 1) Research Square [<https://doi.org/10.21203/rs.3.rs-805496/v1>].
4. PK Dubey, A Ali, H Dwivedi, A Kumar, A Tripathi. (2021). Computational Approach for Covalent Lead Identification against Spike Glycoprotein of SARS-CoV-2. Research Square, 13 Jul 2021. DOI: 10.21203/rs.3.rs-702450/v1 PPR: PPR369079.

Submitted:

1. Clinical, Demographical, and Haematological Profile of Hemophilia Patients at CoE Haemoglobinopathies and Day Care Centre of Sir Sunderlal Hospital, Acta Medica International, Chanda Hemaliya, Lalit Prashant Meena, Vineeta Gupta, Sandip Kumar, Akhtar Ali, Sovan Kumar Senapati, Avijit Howlader, Ishan Kumar, Anupam Aich 2024 (Submitted)
2. Clinical and Genetic Aspects of Hemophilia, Egyptian Journal of Medical Human Genetics, Chanda Hemaliya, Lalit Prashant Meena, Ajeet Kumar, Ved Prakash Singh, Akhtar Ali, Vineeta Gupta, Sandip Kumar 2023 (Submitted)
3. Hemophilia B and mutational analysis, Asian Journal of Transfusion science. Chanda Hemaliya, Lalit Prashant Meena, Ajeet Kumar, Akhtar Ali, Vineeta Gupta, Sandip Kumar, Ishan Kumar. 2023 (Submitted)
4. Tia N, Lal M, Ali A, Gambhir IS. Pentosidine, an advanced glycation end product of ageing and age-related disease and future directions. *Analytical Biochemistry*. (Manuscript Number: YABIO-D-24-00451).
5. Milad Mohammedzadeh¹, Nisha Rani Agarwal², Samir Trivedi³, Mamta, Lalit⁴, Chandra Bhan Singh⁵, Akhtar Ali⁵, Anjali Rani¹ Mayer Rokitansky Kuster Houser syndrome: Psycho-social and fertility Aspect

Publication:

1. Kumar, A., Tilak, V., Arora, D., Gautam, D., & Ali, A. (2023). Philadelphia chromosome-positive myelodysplastic syndrome with single lineage dysplasia. *Cancer Genetics*. DOI: 10.21203/rs.3.rs-1785114/v1 (IF-1.9)
2. Kumar, A., Mishra V., Singh C. B., Patel R., Samrat S., Rai M., Kumar N., Tilak, V., Gupta V., Ali, A. (2023) Higher Incidence of Co-Expression of BCR-ABL Fusion Transcripts in an Eastern Indian Population. *Egyptian Journal of Medical Human Genetics*. <https://doi.org/10.21203/rs.3.rs-1092279/v1> (IF-1.35)
3. Ali A, Kumar A, Dubey, P. K., Pandey, V.K., Singh. A. (2023) Unilateral Syndactyly, Hemihypertrophy, and Hyperpigmentation with Mosaic 2q35 Deletion Indian Journal of Dermatology. DOI: 10.4103/ijd.ijd_649_21 (IF-1.7)
4. Kumar, A., Bhushan, R., Dubey, P. K., Tilak, V., Gupta, V., Kumar, N., ... & Ali, A. (2023). In silico analysis of genes and pathways related to acute myeloid leukemia presenting leukopenia. *World Journal of Pharmacy and Pharmaceutical Science*. DOI: 10.21203/rs.3.rs-1019863/v1 (IF-7.6)
5. Kumar, A., Tilak, V., & Ali, A. (2023). Cytogenetic Analysis of Chronic Myeloid Leukemia in an Eastern Indian Population. *Int J Clin Med Edu Res*, 2(2), 37-42. ISSN: 2832-7705. (IF-1.2)
6. Prakash A, Das Purkayastha BP, Srivastava S, Chaturvedi S, Ali A, Aggarwal DD, Roy JK. Novel Variant Identified in the Enhancer Region of Host Transcription Factor, BRN3A, is a Significant Risk Factor for HPV-Induced Uterine Cervix Cancer. *Int J Mol Cell Med*. 2022;11(2):88-103. doi: 10.22088/IJMCM.BUMS.11.2.88. Epub 2023 Feb 28. PMID: 37091039; PMCID: PMC10116355.
7. Bhushan R, Rani A, Gupta D, Ali A, Dubey PK. MicroRNA-7 regulates insulin signaling pathway by targeting IRS1, IRS2, and RAF1 genes in gestational diabetes mellitus. *Microna*. 2022 Apr. DOI: 10.2174/2211536611666220413100636. (IF 3.39).
8. Aggarwal P, Ali A, Shivanideep, Chandradeep, Gupta V. Mutation profile of hemoglobinopathies at a tertiary care centre in eastern Uttar Pradesh. November 2022, *Pediatric Hematology Oncology Journal* 7(4): S16-S17. DOI: 10.1016/j.phoj.2022.10.037
9. Patel, R., Singh, S.K., Bhattacharya, V. & Ali, A. Novel *HOXD13* variants in syndactyly type 1b and type 1c, and a new spectrum of *TP63*-related disorders. *J Hum Genet* 67, 43–49 (2022). <https://doi.org/10.1038/s10038-021-00963->

[5.https://www.nature.com/articles/s10038-021-00963-5.](https://www.nature.com/articles/s10038-021-00963-5)

10. Akhtar Ali, Ajeet Kumar, Pawan Kumar Dubey, Vivek Pandey, Ankur Singh. Unilateral syndactyly, hemihypertrophy and hyperpigmentation with mosaic 2q35 deletion. *Ind J Dermat.* ijd_649_21_R2_CR (In press, Sept 2021). (IF 0.87).
11. Patel, R., Singh, S. K., Bhattacharya, V., & Ali, A. (2021). Novel GLI3 pathogenic variants in complex pre- and postaxial polysyndactyly and Greig cephalopolysyndactyly syndrome. *American journal of medical genetics. Part A*, 185(1), 97–104. <https://doi.org/10.1002/ajmg.a.61919>. (IF 2.802).
12. Singh, C. B., Mishra, B., Patel, R., Kumar, A., & Ali, A. (2021). Tripod-shaped Syndactyly in Apert Syndrome with FGFR2 p.P253R Mutation. *Indian journal of plastic surgery: official publication of the Association of Plastic Surgeons of India*, 54(3), 370–372. <https://doi.org/10.1055/s-0041-1733808>. (IF 0.73).
13. Jaiswal A, Pandey A, Tiwari M, Ali A, Sharma R. Yq AZF microdeletions in male infertility: An update on the phenotypic spectrum, epidemiology and diagnostics. *Asian Pac J Reprod* 2021; 10(5): 203-214. DOI: 10.4103/2305-0500.326718. (IF 1.479).
14. Pandey A, Jaiswal A, Ali A, Pandey AK, Byadgi PS. (2020). An emerging role of SRY, AZF and AR genes in aetiology of male infertility and ayurvedic algorithm. *Journal of Critical reviews*, 17: 2981-2990.
15. Ghosh M, Ali A, Joshi S, Srivastava AS, Tapadia MG. (2020.)SLC1A3 C3590T but not BDNF G196A is a predisposition factor for stress as well as depression, in an adolescent eastern Indian population. *BMC Medical Genetics* 21: 1-10.
16. Bhushan R, Rani A, Ali A, Singh, VK, Dubey PK. (2020) Bioinformatics enrichment analysis of genes and pathways related to maternal type 1 diabetes associated with adverse fetal outcomes. *Journal of Diabetes and its Complications* 34:107556.
17. Gupta A, Tewari P, Agrawal NK, Patel R, Ali A, Byadgi PS. (2019) Kapha and Kapha-Pittaja type of body constitution and MTHFR C677T are strong risks for Type2 Diabetes Mellitus. *Ayu* 39:146-150.
18. Kumari P, Ali A. Singh SK, Chaurasia A, Raman R (2018). Genetic heterogeneity in Van der Woude Syndrome: Identification of NOL4 and IRF6 haplotype from the noncoding regions as candidates in two families. *J. Genet* 97:275-285. <https://doi.org/10.1007/s12041-018-0903-2> (IF=1.166, ISSN: 0022-1333).
19. Pandey VK, Tripathi A, Bhushan R, Ali A, Dubey PK (2017) Application of CRISPR/Cas9 Genome Editing in Genetic Disorders: A Systematic Review Up to Date. *J Genet Syndr Gene Ther* 8: 321.
20. Patel R, Zenith RK, Chandra A, Ali A. (2017). Novel Mutations in the Crystallin Gene in Age-Related Cataract Patients from a North Indian Population. *Mol Syndromol*. 8:179-186.
21. Patel R, Singh CB, Rani A, Singh SK, Ali A. (2017). GLI3 mediated polydactyly: a review. *J Sc Res BHU*. 61:109-117.
22. Singh CB, Patel R, Rani A, Singh SK, Ali A. (2017). Split-hand and foot malformation-3 (SHFM3). *J Sc Res BHU*. 61:103-108.
23. Jaiswal SK, Upadhyay A, Ali A, Upadhyay SK, Kumar A, Rai AK. (2016). Two Familial Cases of Robertsonian Translocations 13; 14 and Its Clinical Consequences. *J Genet Syndr Gene Ther* 7: 283.
24. Patel R, Singh CB, Bhattacharya V, Singh SK, Ali A. (2016). GLI3 mutations in syndromic and non-syndromic polydactyly in two Indian families. *Congenit Anom* 56:94-97.
25. Keshri V, Prakash D, Kumar S, Maurya O P S, Chandra A, Ali A. (2015). Association of α -crystallin gene mutation with Age related Cataract. *Int. J. Healthcare Edu & Med. Inform.* 2(2): 5-11.
26. JaiswalSK, Kumar A, Ali A, Rai AK. (2015) Co-occurrence of mosaic supernumerary 18p and intermittent 2q13 deletions in a child with multiple congenital anomalies. *Gene* 559:94-98.
27. Patel R, Tripathi FM, Singh SK, Rani A, Bhattacharya V, Ali A. (2014). A novel GLI3c.750delC truncation mutation in a multiplex Greig Cephalopolysyndactyly Syndrome family with an unusual phenotypic combination in a patient. *Meta Gene* 2:880-887.
28. Rani A , AliA, Rai AK. (2014). Globozoospermia –A Rare Cause of Male Infertility. *Indian Journal of research Anvikshiki* 8:9-11.
29. Gupta S, Bhaskar PK, Bhardwaj R, Chandra A, Chaudhry VN, Chaudhry P, Ali A, Mukherjee A, Mutsuddi M (2014). MTHFR C677T predisposes to POAG but not to PACG in a North Indian population: a case control study. *PLoS ONE* 23;9:e103063.
30. Kumari P, Ali A, Sukla KK, Singh SK, Raman R (2013). Lower incidence of nonsyndromic cleft lip with or without cleft palate in females: Is homocysteine a factor? *J Biosci* 38:21-6. doi: 10.1007/s12038-013-9298-7. (IF 1.65).
31. Ali A, Singh SK, Raman R (2009). MTHFR 677TT alone and IRF6 820GG together with MTHFR 677CT, but not MTHFR A1298C, are risks for nonsyndromic cleft lip with or without cleft palate in an Indian population. *Genet Test Mol Biomarkers* 13:355-360. doi: 10.1089/gtmb.2008.0115. (IF 1.21)
32. Ali A, Singh SK, Raman R (2009). Coding Region of IRF6 Gene may not be Causal for Van der Woude syndrome in

Cases from India. *The Cleft Palate-Craniofac J* 46:541-544.

33. Ali A, Singh SK, Raman R (2009)..*Genomics of Orofacial Cleft disorders in India*. *AJHG* (ASHG Annual Meeting abstracts, 58th annual meeting of American Society of Human Genetics, November 11-15, 2008, Philadelphia, PA, USA. (IF 12.6)

NCBI submissions:

1. Three novel mutations in *IRF6* gene from Indian population have been submitted to NCBI database.
2. Five novel mutations in *GLI3* gene from Indian population have been submitted to NCBI database

BOOK:

1. Prevention of Genetic Disorders (in process).

EDITORIAL REVIEW OF BOOKS:

1. Indian Adaptation edition of Principles of Genetics / Wiley USA. (in press) Wiley USA 978-1-119-14228-7

Book Chapters:

1. NPM1 gene in HM in the book “Demystifying Hematological malignancies. Hematological Society of India.2023. Akhtar Ali and Ajeet Kumar.
2. Ethical issues and Guidelines in Cloning in the book “Organism Cloning: Reality and Future”. Ajeet Kumar, Ved Prakash Singh, Mou Sarkar, Chanda Hemaliya, Akhtar Ali,
3. Inflammation Resolution and Chronic Diseases. Ajeet Kumar, Akhtar Ali, 978-981-97-0156-8, 537258_1_En.
4. Singh CB, Mishra V, Patel R, Kumar A, Kumar N, Tilak V, Ali A. (2020). Comparative Prevalence of BCR-ABL Fusion Transcripts in Chronic Myeloid Leukemia: A Review. IBAM-BHU-2020 Proceedings. (in press).
5. Akhtar Ali, et al. ‘Ch.11-20’ In ‘Indian Adaptation edition of Principles of Genetics’ (Ed: D. Peter Snustad, Michael J. Simmons.). Wiley USA (in press), (previous edition 978-1-119-14228-7).
6. Akhtar Ali, et al. ‘Ch.11 Transcription and RNAProcessing’ In ‘Indian Adaptation edition of Principles of Genetics’ (Ed: D. Peter Snustad, Michael J. Simmons.). Wiley USA (in press), (previous edition 978-1-119-14228-7).
7. Akhtar Ali, et al. ‘Ch.12 Translation and the Genetic Code’ In ‘Indian Adaptation edition of Principles of Genetics’ (Ed: D. Peter Snustad, Michael J. Simmons.). Wiley USA (in press), (previous edition 978-1-119-14228-7).
8. Akhtar Ali, et al. ‘Ch.13 Mutation, DNA Repair, and Recombination’ In ‘Indian Adaptation edition of Principles of Genetics’ (Ed: D. Peter Snustad, Michael J. Simmons.). Wiley USA (in press), (previous edition 978-1-119-14228-7).
9. Akhtar Ali, et al. ‘Ch.14 The Techniques of Molecular Genetics’ In ‘Indian Adaptation edition of Principles of Genetics’ (Ed: D. Peter Snustad, Michael J. Simmons.). Wiley USA (in press), (previous edition 978-1-119-14228-7).
10. Akhtar Ali, et al. ‘Ch.16 Applications of Molecular Genetics’ In ‘Indian Adaptation edition of Principles of Genetics’ (Ed: D. Peter Snustad, Michael J. Simmons.). Wiley USA (in press), (previous edition 978-1-119-14228-7).
11. Akhtar Ali, et al. ‘Ch.17 Regulation of Gene Expression in Prokaryotes’ In ‘Indian Adaptation edition of Principles of Genetics’ (Ed: D. Peter Snustad, Michael J. Simmons.). Wiley USA (in press), (previous edition 978-1-119-14228-7).
12. Akhtar Ali, et al. ‘Ch.18 Regulation of Gene Expression in Eukaryotes’ In ‘Indian Adaptation edition of Principles of Genetics’ (Ed: D. Peter Snustad, Michael J. Simmons.). Wiley USA (in press), (previous edition 978-1-119-14228-7).
13. Akhtar Ali, et al. ‘Ch.19 Inheritance of Complex Traits’ In ‘Indian Adaptation edition of Principles of Genetics’ (Ed: D. Peter Snustad, Michael J. Simmons.). Wiley USA (in press), (previous edition 978-1-119-14228-7).
14. Akhtar Ali, et al. ‘Ch.20 Population Genetics’ In ‘Indian Adaptation edition of Principles of Genetics’ (Ed: D. Peter Snustad, Michael J. Simmons.). Wiley USA (in press), (previous edition 978-1-119-14228-7).
15. Dubey PK, Tripathi A, Ali A. Assisted Reproductive Techniques in Infertility Treatment: Opportunities and Challenges. In: R. Singh, K. Singh, (eds.). *Male Infertility: Understanding, Causes and Treatment*. 1st ed. Springer Nature; 2017. (DOI 10.1007/978-981-10-4017-7_27).

PROJECTS AND GRANTS:

1. Dr Pawan K. Dubey
2. Dr Akhilendra Maurya
3. Dr Sunil Rao
4. Dr Sunil
5. Dr Chandra Bhan Singh
6. Dr R.P Mourya
7. Prof. S.V.S Raju
8. Prof. Vineet Gupta
9. Title of the Project: Design and development of Pyrazole based soluble epoxy dehydrolase inhibitor to rescue cholesterol homeostasis: A Search of potential drug candidate for Niemann-pick disease type C. Funding Agency: ICMR, PI. Dr. Pawan Kumar Dubey, Co.PI. Dr. Akhtar Ali, Dr. Ankur Singh, Dr. Jayesh Seth Amount: Rs. 52,93,520.00, Duration: 2023-2026.
10. Unraveling the Genetic and Epigenetic factors for drug resistant Chronic Myeloid Leukemia in an Eastern Indian population and Identification of inhibitors for imatinib resistant CML. IoE grant BHU, 07 June 2021 - 06 June 2024 INR 800000. (PI).
11. Molecular Genetic Exploration of Congenital Limb Malformations and Limb Development, PI, SERB, 2013-16, INR 2250000.(PI).
12. Screening and identification of potent diagnostic and therapeutic targets for Covid-19. IoE grant BHU, 07 June 2021 - 06 June 2024 INR Ten Lakh. (CoI).
13. Tran-differentiation of human umbilical cord tissue-derived mesenchymal stem cells into neurogenic cell lineage: implication for hypoxic-ischemic brain damage, UGC, 2016-19, 1000000 (CoI).
14. Newborn Screening for Thalassemia and other Hemoglobinopathies. IoE grant BHU, 2021 - 2024 inr Six Lakh (CoI).
15. Harnessing of secondary metabolites from novel endophytic microbes of *Catharanthus roseus* (L.) for developing cost effective anticancer and antimicrobial agent for human application. IoE grant BHU, 2021 - 2024 inr Ten Lakh (CoI).
16. Cytogenetic and Y chromosome microdeletion analysis in infertile men of various phenotypes (oligozoospermia, azoospermia). IoE grant BHU, 2021 - 2024 inr Six Lakh (CoI).
17. Molecular Genetic Analysis of Ayurveda Sara and Type-2 Diabetes Mellitus, Co-I, DST-PURSE 2014-19, 1500000.
18. To identify the role of Bmpr1b gene in digit chondrogenesis, PI, UGC-UPE, 2014-15, 200000.
19. Development of Stem cell from amniotic membrane, PI, DST-PURSE, 2013-14.
20. Chromosomal and molecular genetic analysis of facial disorders, PI, UGC BHU, 2010-11, 270000.
21. Molecular Genetic Analysis of Ayurveda Prakriti and Type-2 Diabetes Mellitus, Co-I, UGC BHU, 2010-11, 100000.

PATENTS:

1. New green synthesis methodology for 4,6-bis((E)-2,5dimethoxystyryl) pyrimidin-2-ol with viability, antibacterial and anti-cancerous properties Abha Mishra, Jyoti Pandey, Akhtar Ali, Dibyendu Banerjee, Baldev Singh, Huda Khan, Ajeet Kumar. Application No.: 202311043330.

SEMINARS/WORKSHOPS PARTICIPATED:

1. Workshop on Techniques in Genetic Analysis-II LAL BAHADUR SHASTRI, 18-19 June 2024
2. Workshop on Techniques in Genetic Analysis-I LAL BAHADUR SHASTRI ,12-16 April, 2024
3. Chromosomal diagnosis in leukemias. CBCcon, Apex Hospital, Varanasi, 11 Feb 2024,
4. Genomics of Orofacial clefts in India. ISHG 21-23 Jan 2024 Ahmedabad
4. Genomics in Public Health, Invited talk and resource person, faculty refresher course, Sagar University 12.12.2023
5. Session chair, FISH and NGS, 6th national hematology conference 03.12.2023 Vhg hotel Amaya, Varanasi.
6. One-Day Workshop on Intellectual Property Rights and its Management' Organized by Intellectual Property Rights & Technology Transfer (IPRTT) Cell, Banaras Hindu University. Mahamana Hall, Sept 25, 2023.
7. I-Care workshop 2023, MMV, BHU
8. Lecture 27 aug 2023 CGD convener Cytogenetic workshop
9. ADNAT 23rd annual convention: Translating human evolutionary history to preseason medicine 10th to 12th March 2023 Banaras Hindu University.
10. World Cleft Congress 2022 (Cleft 22). 11-15 July 2022, Edinburgh.
11. 5th Training course for GLP inspectors, NGCMA, DST, GoI, New Delhi, 23-27 May 2022.
12. MNNIT workshop 2021
13. Delhi Uni Refresher course 2021
14. 100 years celebration of Zoology dept-BHU 2021
15. Arab genome workshop online "CAGS webinar series" Population Genetics-Apr 7, 2021 07:00 PM Dubai. "(cags.uae@gmail.com)
16. Organizing member: Institute Day, Institute of Science, BHU 2020,2021, 2022
17. Organizing member: Science Day, Institute of Science, BHU 2020,2021, 2022
18. Organizing member: SPRC memorial lecture, Institute of Science, BHU 2020, 2021, 2022

19. Organizing member: Lectures on Nobel-winning work in Physics, Chemistry, and Physiology/Medicine: Sir C V Raman's birth anniversary celebration. Institute of Science, BHU (2020, 2021).
20. International BHU Alumni Meet (scientific model presented) 17-18 Jan 2020, BHU.
21. IRINS Infilibnet workshop BHU 10 Jan 2020.
22. Workshop on good clinical practice, BHU, Nov 2019.
23. Invited lecture. Mapping and Identification of genes for Split Hand /Foot Malformations. ISSHCON 2019, Puri.
24. Invited lecture Genomics of Oral clefts in India, in INDOCLEFTCON 2019, Varanasi.
25. Invited lecture: Current Trends in Genomic and Molecular Medicine" The First Indo-UK Training Workshop. CFAR KGMU from 19th to 21st November 2018.
26. Invited lecture: Workshop on 'Maternal and Newborn Care: Issues and Challenges', Sept 01-07, 2018, Interdisciplinary School of Life Sciences (ISLS), B.H.U. Varanasi
27. 'Molecular Tools In Genetic Diagnosis: Recent Advancements'. Workshop on 'Maternal and Newborn Care: Issues and Challenges', March 01-07, 2017, Interdisciplinary School of Life Sciences (ISLS), B.H.U. Varanasi.
28. 10. International Conference: The Landscape of Genetic Variants in Asian Founder Populations, and Workshop on Genetic Counselling, November 10-12, 2017, Kochi, India.
29. 9th RNA group Meeting, October 26-28, 2017, Banaras Hindu University.
30. Workshop on "Applications on Single Molecule Real Time (SMRT) Sequencing and Bioinformatics Analysis" July 25- 26, 2017, at ICAR-NBFGR, Lucknow.
31. ISSHCON-2017, September 21-23, 2017, Mumbai.
32. Workshop on 'Maternal and Newborn Care: Issues and Challenges', March 01-07, 2017, Interdisciplinary School of Life Sciences (ISLS), B.H.U. Varanasi.
33. International conference on functional genomics, March 02-07, 2017, B.H.U. Varanasi.
34. International Conference on Updates in Cancer Prevention and Research (ICUCPR-2017), Babasaheb Bhimrao Ambedkar University, Lucknow, February 14-16, 2017.
35. International Conference on Updates in Cancer Prevention and Research (ICUCPR-2017), Babasaheb Bhimrao Ambedkar University, Lucknow, February 14-16, 2017.
36. Student Research Convention 2017 at VBS Purvanchal University from February 20-21, 2017
37. International Symposium on Integrative Physiology and Comparative Endocrinology (ISIPCE-2016) at Department of Zoology, Institute of Science, Banaras Hindu University, Varanasi, February 12-14, 2016
38. Abstract: Patel, R., Singh SK, Bhattacharya V, Ali A. Mutational spectrum of GLI3 and TP63 in Congenital Limb Malformation Syndromes in an Indian Population 5th Annual Conference of Molecular Pathology Association of India (MPAI 2016): international symposium on 'Integration of Genetics & Genomics in Laboratory Medicine' at department of Hematology, PGIMER, Chandigarh, March 12-13, 2016.
39. Banaras Hindu University alumni meet 23-24 Nov 2015.
40. UGC-UPE mini-symposium 28 Feb 2015, BHU, Varanasi.
41. Abstract: Patel, R., Singh SK, Bhattacharya V, Ali A. Syndromic and non-syndromic polydactyly. *40th Annual Conference of the Indian Society of Human Genetics, National Institute of Immunohaematology (ICMR), Mumbai*, Jan 28- 30, 2015.
42. Pandey H, Rai AK, Das P, Ali A. An update on Duchenne Muscular Dystrophy. Indian Society of Human Genetics meeting-2014.
43. Gupta V, Yadav AK, Ali A, Rai AK, Das P. Dermatoglyphic Patterns Study in Morton's Toe/Royal Toe. Indian Society of Human Genetics meeting-2014.
44. Singh CB, Mishra V, Samrat S, Rai M, Tilak V, Rai AK and Ali A. Prevalence of BCR-ABL fusion transcripts in Chronic Myeloid Leukemia patients in Eastern Uttar Pradesh. Indian Society of Cell Biology (ISCB 2014), Dec 10-12, 2014, Lucknow, India.
45. Ali A. Genomic analysis of congenital malformations. 10th Biennial conference of the Indo-Nepal Association for Peripheral Nerve Surgery (Nervecon-2014 and Lymphocon-2014). Institute of Medical Sciences, Banaras Hindu University and Apex Hospital, Varanasi. November 05-07, 2014. (Invited lecture).
46. Training on 'Next Generation Sequencing data analysis for DNA, Exome and RNA sequencing experiments.' April 22-23, 2014, Banaras Hindu University.
47. International Conference on Environmental Biology and Ecological Modeling (ICEBEM-2014), February 24-26, 2014 Visva-Bharati, Santiniketan – 731 235, India. (Invited lecture).
48. Author workshop organized by Springer and BHU. Feb 11, 2014, Banaras Hindu University. 31. 2nd International Conference on Neuromuscular Diseases (MYOCON-2014), 10-12 Jan 2014, GRT Convention Centre, Chennai, organized by Muscular Dystrophy Association India.
49. 65th Orientation Course (UGC). Oct 19 - Nov 15, 2013, Academic Staff College, Banaras Hindu University. 33. Mini-Symposium on Genomic and Proteomic Analysis of Cellular Functions, (UGC-UPE Focus Area-II, Sep 14, 2013, faculty of Science, Banaras Hindu University, Varanasi.
50. Patel, R., Singh CB, Raman R., Ali A (2013) Mapping gene for Split-Hand/Foot malformation (SHFM3). *International Symposium on Karyotype to haplotype and beyond Banaras Hindu University, Varanasi*, Dec 8-10, 2013 (Abstract). 35. INDOCLEFTCON-2013, Nagpur, Jan 17-19, 2013.
51. NIBMG-EBI Winter School on Analysis of Massively-Parallel Sequencing Data. National Institute of Biomedical Genetics, Kalyani, W.B., Jan 07-11, 2013.
52. International symposium on developmental and complex disorders, and 38th annual conference of the Indian society of

- human genetics, Dec 09-11, 2012.
53. International BHU alumni meet and seminar on Mahamana's vision of nation building, Dec 23-24, 2012, Banaras Hindu University, Varanasi.
 54. Genome-wide linkage scan for split-hand/foot malformation in an Indian family reveals a locus within 433kb at 10q25.1- q25.3. International conference on genes, genetics and genomics: today and tomorrow-human concerns, and XXXVII annual conference of the Indian society of human genetics, March 03-05, 2012
 55. Symposium on Population Genetics and Chromatin Dynamics, Banaras Hindu University, Varanasi, January 22-23, 2012. 41. Teachers Congress. Banaras Hindu University, Varanasi, October 2011.
 56. First Refresher Course in Medical/Health Sciences [Interdisciplinary] (UGC). Feb 10 – Mar 02, 2011, Academic Staff College, Banaras Hindu University.
 57. International conference on Genomics, Genetic Diseases and Diagnostics, and XXXVI Annual Conference of the Indian Society of Human Genetics, February 14-16, 2011.
 58. Genome-wide Linkage Scan in an Indian Family with Split-hand/foot Malformation narrowed down the SHFM3 region to 10q25.1-q25.3. American Society of Human Genetics, Montreal, Canada, October 11-15, 2011. 45. BHU alumni meet, Banaras Hindu University, Varanasi, Jan 24-25, 2011.
 59. International conference on functional genomics: challenges and prospects, October 2-4, 2010, Banaras Hindu University, Varanasi.
 60. BHU alumni meet. Jan 25-27, 2010, Banaras Hindu University, Varanasi.
 61. International symposium on Genetic and Epigenetic basis of Complex diseases. December 5-7, 2009. CCMB, Hyderabad.
 62. Training for microarray data analysis. Spinco Biotech Laboratory, Chennai, Nov 25-27, 2009.
 63. XXXIV Annual Conference of the Indian Society of Human Genetics, March 2009, Science Bhawan, New Delhi.
 64. 58th Annual Meeting of American Society of Human Genetics, November 11-15, 2008, Philadelphia, PA, USA.
 65. Advanced Statistical Genetics Workshop, Dec 19-21, 2007, Sankara Nethralaya, and National Institute of Epidemiology, Chennai.
 66. XXXI All India Cell Biology Conference & Symposium on "Stem Cells: Application and Prospects", Dec 14-16, 2007, BHU, Varanasi.
 67. Symposium on "Trends in Human Genetics". August 20-22, 2007, Toshali Sands, Puri, Orissa.
 68. "XXXII Annual Conference of Indian Society of Human Genetics" and "International Symposium on Deconstructing Human Diseases: The Genomic Advantage", Feb. 14-16, 2007, IICB, Kolkata.
 69. Workshop on "Genetic Epidemiological Methods for Dissection of Complex Human Traits", Jan 4-12, 2007, by TCG ISI(CPG) Kolkata and University of Pittsburg, at ISI Kolkata.
 70. "Indo-US Symposium on Genetic Disorders: Focus on Hemoglobinopathies, Oct. 29-31, 2006, Dept of Zoology, BHU.
 71. "International Symposium on Environmental Factors, Cellular Stress and Evolution", Oct., 13-15, 2006, Dept. of Zoology, BHU.
 72. National Seminar and Workshop on "Bioinformatics and Computational Biology", 22-24 March, 2006, MMV, BHU.
 73. International symposium on Human Genomics and XXXI Annual Conference of Indian Society of Human Genetics, Feb. 27-March 01, 2006, NCAHG, SLS, JNU, New Delhi.
 74. Poster Presentation on "Donate eyes: Give Life", 16 Oct 2004. Department of Ophthalmology, IMS, BHU.