

Curriculum Vitae

Permanent Address: 2/182 Vishwas Khand, Gomti Nagar, Lucknow. U.P. 226010

Official Address: Department of Pathology, Dr. Ram Manohar Lohia Institute of

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Name: **Nuzhat Husain**, MD, IFCAP, FICP

Designation: Officiating Director, Dean, Professor and Head of Department of Pathology

Officer In-charge State Referral Centre for Lab Investigations

Institute: Dr. Ram Manohar Lohia Institute of Medical Sciences, Lucknow

Date of Birth: 22/06/1961

Educational Qualification:

Sl. No.	Institution Place	Degree Awarded	Year	Field of Study
1.	J N Medical College, AMU, Aligarh	MBBS	1985	All medical subjects
2.	K G Medical College, LU, Lucknow	MD	1989	Pathology

PROFESSIONAL EXPERIENCE

- ✚ **Director**, Dr. Ram Manohar Lohia institute of Medical Sciences, Lucknow, 25.06.2020 to till date.
- ✚ **Dean**, Dr. Ram Manohar Lohia institute of Medical Sciences, Lucknow, September 2019 to till date
- ✚ **Director**, Dr. Ram Manohar Lohia institute of Medical Sciences, Lucknow, 14.09.2013 to 07.09.2015.
- ✚ **Dean**, Dr. Ram Manohar Lohia institute of Medical Sciences, Lucknow, 21.02.2011 to 02.11.2015.

- ✚ **Professor and Head**, Dept. of Pathology, Dr. Ram Manohar Lohia institute of Medical Sciences, Lucknow, 14.01.11 to till date
- ✚ **Professor**, Dept of Pathology, Upgraded K.G. Medical College, CSM Medical University, Lucknow, 10.02.2001 to 13.01.2011.
- ✚ **Associate Professor**, Dept. of Pathology, K.G.Medical College, Lucknow, 06.02.1999 to 09.02.2001.
- ✚ **Assistant Professor**, Dept. of Pathology, King George Medical College, 06.08.1994 to 05.02.1999.
- ✚ **Post doctoral Fellow**, Molecular Neuro-oncology Unit, Massachusetts General Hospital, Harvard University, Boston MA USA, 01.01.1997 to 30.06.1997.
- ✚ **Lecturer**, Dept. of Pathology, King George Medical College 06.08.1991 to 05.08.1994.
- ✚ **Consultant Pathologist**, Fatima Hospital, Lucknow 01.12.1989 to 05.08.1991.

AWARDS AND HONORS

- ✚ Awarded **Merit Scholarships in MBBS** Ist, IInd and Final Professionals.
- ✚ **Stood Ist in order of merit at the MBBS** entrance exam at AMU, Aligarh.
- ✚ Awarded **University Medals** for highest marks in SPM, Gen Medicine and Forensic Medicine, 1985.
- ✚ Awarded **President of India's Silver Medal for best Woman candidate** at the University, 1985.
- ✚ Awarded **K.B.Kunwar Memorial Award** for Best Paper presented in Junior Group at Lucknow, 1988.
- ✚ Awarded **Best Paper** at UP Chapter of the Indian Association of Pathologists and Microbiologists, 1988.
- ✚ Awarded **Mukherjee Gold medal** for best thesis in MD Pathology, 1989.
- ✚ Awarded **K.B.Kunwar Memorial Award** for best paper presented in the senior group, at Lucknow, 1992

- ✚ Awarded **BOYSCAST Fellowship** of the Dept. of Science and Technology , New Delhi, for year 1996-97 for training in Gene Therapy at Massachusetts General Hospital, Boston MA, USA.
- ✚ **Gold Medal for best paper** at Annual Conference of the Indian Clinical Epidemiology network at Thiruvananthapuram from 24th to 28th Sept 2002.
- ✚ Awarded Fellowship of the Indian College of Pathologists. 2002.
- ✚ International Fellow of College of American Pathologists 2010.
- ✚ **Dr. HC Roy Best Pathologist of the year** by Indian Medical Association (IMA) 2012.
- ✚ **Women's Achiever Award** and Citation: Academic stream., LMA, Lucknow 2013.
- ✚ **The pride of womanhood Award** for outstanding achievement in field of medicine on International womens day 2015, by Avadhnama.

MEMBERSHIPS

1. International Fellow of the College of American Pathologists
2. Fellow of the Indian College of Pathologists
3. Life member of Indian Association of Pathologist
4. Life member of Indian Association of Cytologists
5. Life member of Indian Medical Association
6. Life member of Neurological Society of India
7. Member India CLEN
8. Member UP Chapter of IAPM
9. Member UP Neurological Society
10. Member PhD committee at SGPGIMS 2011-14
11. Member research committee SGPGIMS, Lucknow 2007-10
12. Member Award Committee SGPGIMS 2009-12
13. Member Ethical Committee Era's medical College 2009-12

14. Member Ethics committee Babu Banarasi Das University, Lucknow.
15. Member Executive Council, Integral University, Lucknow
16. Chairman Research Committee, Integral University, Lucknow
17. Member Editorial Board Indian Journal of Pathology and Microbiology
18. Associate Editor Clinical Epidemiology and global health
19. Member Editorial board of ISRN Pathology
20. Member Executive Council Bundelkhand University, Jhansi
21. President UP Chapter of IAPM
22. Member Research Committee SGPGIMS, Lucknow, 2016-19
23. Member US-CAP 2016
24. Member Secretary, Ethics Committee, RMLIMS, Lucknow 2019 to till date.
25. Chairman Institutional Ethics Committee, Integral University, Lucknow 2018 to till date.
26. Member Institutional Ethics Committee, Era's Medical College, Lucknow 2019 to till date
27. External expert, Research committee, Era's Medical College, Lucknow 2019 to till date

REASEARCH PROJECTS

Current and completed Research projects:

Completed Research Projects: (1995-2019)

As Chief Investigator: 22

1. Immuno-histochemical expression of P53 expression in Human CNS Malignancies, from the DST, New Delhi, and Amount sanctioned: 1, 90,000.
2. An evaluation of ELISA in the diagnosis and follow-up of Neurocysticercosis, from UPCST, Lucknow, and Amount sanctioned: 5, 00,000.
3. Studies on cerebral micro vessels during experimental malaria and effect of antimalarial treatment, sanctioned by ICMR, 1997-99 Amount sanctioned: 2,50,000.
4. Immunoblot Analysis of Cysticercus fasciolaris antigen in the diagnosis of Neurocysticercosis., ICMR, New Delhi, (1998-2000) Amount sanctioned: 6,00,000.

5. Collaborative Project in Biotechnology with Excel Technologies, Alabama, USA. Approx cost: \$5000/ per annum, Dec 03-Nov 04.
6. Genetic Approach To Precise Carrier Detection Of Hemophilia A In India; DST, New Delhi ; Total cost : Rs. 17,00,000, Feb 03-Feb 06.
7. ELISA in the Assessment of Therapeutic Response in Neurocysticercosis. IndiaCLEN USAID project. Approx cost \$ 8,000 Sept 03-Oct05.
8. “New Polymorphism Based Gene Tracking in Patients of Hemophilia A In Indian Population” DBT Postdoctoral fellow, Cost Rs. 6, 60,000, Nov’03- Nov’06.
9. Field Evaluation of ELISA and New EITB Assays In A Field Survey For Systemic Cysticercosis Around Lucknow. Total cost Rs. 4, 00,000 Council of Science and Technology, UP. May ’04 to May’06.
10. Evaluation of Structural changes of Normal Human Fetal Brain Embryogenesis using Diffusion Anisotropy MRI with Histologic Correlation” Collaborative project at SGPGIMS, KGMU and IIT Kanpur. Total cost Rs. 42, 91,000, sanctioned by DBT, New Delhi. May’05-May’08
11. “Nestin Immunohistochemistry to identify neural stem cells in the developing human cerebellum and childhood Medulloblastoma. MD thesis under guidance funded by ICMR.
12. “Correlation of histology with diffusion tensor imaging in developing cerebellum” SRF sanctioned by ICMR duration 1/04/07 to 31/03/10
13. “Localization and Migration of Neural Stem Cells in the Developing Human Temporal Lobe” SRA sanctioned by CSIR New Delhi duration from 10/10/07 to 9/10/10.
14. Direct Mutation Analysis of Factor VIII Gene in Indian Hemophiliacs sanctioned by DST, New Delhi duration from 2009-2012.Total cost 36 lacs
15. Analysis of Intron 22 Inversion Mutation In Indian Cases With Hemophilia A sanctioned by UPCST, Lucknow duration from 2009-2012. Total cost approx. 7 Lacs
16. Stem cell expression of CD24,Oct3/4, and Nanog in glioblastoma stem cell multiforme correlation with treatment response and survival. Sanctioned by ICMR, New Delhi Duration from 2012-2015. Total cost, Approx 12 lakhs.

17. Tumor suppressor gene expression in HPV positive and hpv negative Oral Squamous Cell Carcinoma correlation with Clinicopathological Variables. Rajiv Gandhi National Fellowship. Sanctioned by UGC , New Delhi, Duration from 2012-2017. Approx 15lakhs.
18. Liquid Based Cytology:Assesment of P16 and DNA Ploidy in Cervical Neoplasia Correlation With p16 Promoter Hypermethylation. Sanctioned by UPCST, Lucknow.Duration from2013-2016 .Approx. 10 lakhs
19. “Diagnostic evaluation of circulating free DNA and circulating tumor cells in gall bladder cancer . DST-INSPIRE Fellowship.Sanctioned by DST, New Delhi Duration from 2012-2017 Approx.15 lakhs
20. “To study the effects of diagnostic radiations on human peripheral blood lymphocytes”. Maulana Azad National Fellowship. Sanctioned by UGC, New Delhi, Duration from 2014-2018 Approx. 19 lakhs.
21. “FVIII inhibitors in Hemophilia A: Correlation with gene mutation and cytokine profile”. Sanctioned bySERB, DST, New DelhiDuration from 2015-2018Approx 43Lacs.
22. Polymorphism study of theCYP and GST Gene Family and its Association with Up-regulation of Cell death in Non Small Cell Lung Carcinoma, CST, UP Duration from 2016-2019 Approx 10 Lacs

✚ **As Co- Investigator: Completed Extramural Projects**

1. Role of Immunodiagnosis Vis a Vis histopathology in the diagnosis of indeterminate leprosy. UPCST, Lucknow.
2. BRCA 1 and PCNA in ascending grades of cervical Intraepithelial Neoplasia and Invasive Malignancy of the uterine cervix.
3. Immunopathogenesis of Campylobacter Jejuni induced paralysis resembling Guillain – Barre Syndrome in Chickens. ICMR New Delhi.

✚ **Intra mural projects: As principal Investigator**

- 1.“CD133, CD24 and Oct-4 in Oral Cancer-Effects on Chemoradiation Response.”
- 2.“Detection of novel and known EGFR mutations in lung adenocarcinoma by DNA sequencing.”

❏ **Intra mural projects: As Co-Investigator**

1. EGFR and HER-2/neu expression in Gall bladder carcinoma.
2. Co-inheritance of Factor V Leiden in patients of inherited Hemophilia A in India.
3. Serum Anti-AQP4 antibody and Cerebral Spinal Fluid Glial Fibrillary Acidic Protein in idiopathic inflammatory demyelinating disorders of the central Nervous system- A correlative analysis.
4. Cost effectiveness analysis of screening for Congenital hypothyroidism in neonates in India.
5. Evaluation of Polymerase Chain Reaction in Nerve Biopsy Specimens of Patients with Hansen's disease – Assessment in cases with Mononeuritis Multiplex/ Simplex
6. Comparative analysis of Immunohistochemistry (IHC) and Fluorescent in situ hybridization Dr. SaumyaShukla, Asst. Prof. Dept. of Pathology, (FISH) for detection of Anaplastic Lymphoma Kinase (ALK) gene rearrangement in adenocarcinoma lung- A pilot study”
7. Fine needle aspirate of lymph nodes and use of adjunct diagnostic modalities in the diagnosis of non- Hodgkin lymphomas
8. Study of Gall Bladder Cancer: A Diagnostic Evaluation of Circulating Free DNA and Circulating Tumor Cells
9. Evaluation of changes in cell free tumor DNA levels in locally advanced head and neck cancer patients undergoing radiotherapy
10. Assessment of Histopathological Markers of lepra Reactions in skin Biopsies
11. Prognostic and predictive value of stratifying adult gliomas using an integrated histological and molecular diagnostic approach.
12. Diagnostic value of BRAFV600Eimmunohistochemistry in thyroid aspirates in Bethesda category IV and papillary carcinoma thyroid.
13. Programmed cell death –ligand 1(PD-L1) expression in non small cell lung cancer (NSCLC) and its correlation with driver mutations: A Pilot Study
14. KRAS and BRAFV600E protein over expression in adenocarcinoma lung and association with PD-L1 expression: A pilot study

❏ **CURRENT RESEARCH PROJECTS: (Extramural)**

❏ **As Principal Investigator:06**

S. No	Project Title	Duration	Cost	Agency
1	Diagnostic application of genomic and epigenetic profiling of circulating free DNA in Gallbladder carcinoma	2020-2023	Approx 50 Lacs	ICMR, New Delhi
2	Circulating miRNA role in Gallbladder cancer: s serum assay of diagnostic value	2020-2022	Approx 20 Lacs	DHR, ICMR New Delhi
3	Study of cfDNA and LunX gene Transcript in Diagnosis and Prediction of Chemotherapy Response in Non-Small Cell Lung Carcinoma	2018-2020	Approx 8 Lacs	Fellowship, ICMR New Delhi
4	CfDNA in Gliomas: Diagnostic and Therapeutic Application	2019-21	Approx 8 Lacs	Fellowship, ICMR New Delhi
5	Methylation status of gene in circulating free DNA as diagnostic & predictive biomarker in OSCC	2019-22	Approx 20 Lacs	Fellowship, CSIR, New Delhi
6	A study of immunotherapy and molecular targets in squamous cell carcinoma lung	2019-22	Approx 15 Lacs	Fellowship, ICMR New Delhi

❏ **As co-investigator:04**

1.	“Immunopathogenesis of Neurocysticercosis in naturally infected Swine”	PI- Prof. K.N. Prasad Co-PI Prof. Gupta RK & Prof. Husain N.	DST, India
2.	“Clinical, Immunohistochemical and sonological assesment of endometrial receptivity in Infertile human female”.	Prof. Vinita Das (PI) Co- PI Prof. Husain N Prof. Anjoo Agarwal Dr. Vaishali Jain	ICMR , New Delhi
3.	“Development of cost effective model for the diagnosis of Atropic Vaginitis in Post menopausal women and Evaluation of treatment response to Vaginal Estrogen Vs Isoflavon”	Prof. Y. Pradeep (PI) Co- Pi Prof. Husain N Prof. Vinita Das	UPCST , Lucknow

4.	Evaluation of Prognostic and predictive molecular marker in Gall bladder Carcinoma	Dr. Sameer Gupta (PI) Co-PI Prof Nuzhat Husain	DBT, New Delhi
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❖ **Intramural Research Project: As principal Investigator**

1. “Investigation of cf-DNA Levels and IDH-1 Mutation in Adult Diffuse Glioma for Diagnosis and Prediction of Therapy”

❖ **Intramural Research Project: As Co-Investigator**

1. A Study on New Molecular Targets in Non-Small Cell Lung Carcinoma-Squamous Cell Carcinoma.
2. Analysis of the frequency of overexpression of EGFR protein and KRAS mutations in Gall bladder cancer.
3. Expression of Immune Checkpoint Regulators including Cytotoxic T Lymphocyte Antigen 4(CTLA4) and Programmed Death-Ligand 1 (PDL1) in Epithelial Thyroid Malignancies.
4. Assessment of Antigenic targets in Membranous Nephropathy.

ACADEMIC ACHIEVEMENTS:

- ❖ Ph.D Student Guided/ Under guidance :>30
- ❖ MD/MS /M.Ch. Students Guided / Under Guidance: 85
- ❖ M Phil Thesis guided/ under guidance: 3
- ❖ M.Tech / M.Sc Thesis Guided/ Under Guidance-150
- ❖ Mentored Post Doctoral Young Scientists -02

❖ ***CONFERENCES/WORKSHOPS ATTENDED: >100***

❖ **CONFERENCES ORGANIZED**

1. **International Symposium on Molecular Pathology**, Department of Pathology, Dr. Ram Manohar Lohia Institute of Medical Sciences, Lucknow, February 14, 2011.
2. **International Update in Pathology** held at Dr. Ram Manohar Lohia Institute of Medical Sciences, Lucknow India on 31st Jan 2012.

3. Meeting of the Lucknow Pathologists Group meeting organized by Department of Pathology, Dr. Ram Manohar Lohia Institute of Medical Sciences, Lucknow on 5th February 2012.
4. Lucknow Hematology & Transfusion Medicine Group" organized by Department of Pathology, Dr. Ram Manohar Lohia Institute of Medical Sciences, Lucknow on 20th October 2012
5. **Update on Screening of Breast and Cervical Cancer**"at Dr. Ram Manohar Lohia Institute of Medical Sciences, Lucknow,on 5Feb 2013.
6. International Academy of Pathology Indian Division (IAP-ID) Mid-Year Teaching program On **"Liquid Based Cytology: Gynaec & Non Gynaec Application"** at Dr. Ram Manohar Lohia Institute of Medical Sciences, Lucknow, on 5-7July 2013.
7. Guest Lecture on **"Predisposing Genetic Risk Factors for Inhibitor Development in Indian Hemophilia Patients"** organized by Department of Pathology, Dr. Ram Manohar Lohia Institute of Medical Sciences, Lucknow on 18th September 2014.
8. Organising chairperson UP PATHCON 2014 (**Annual conference of UP Chapter of Indian Association of Pathologists & Microbiologists**) 12-13 Oct 2014.
9. Periodic Academic Meeting of Lucknow Pathologist Groupon 14th Feb 2015 organized by organized by Department of Pathology, Dr. Ram Manohar Lohia Institute of Medical Sciences, Lucknow
10. Organized Workshop on **"Clinical Workshop on Flow Cytometry"** from 8th-9th September 2016 at Department of Pathology, Dr. Ram Manohar Lohia Institute of Medical Sciences, Lucknow
11. Organized CME on **"Master Class in Thyroid Pathology, New Stories in Thyroid Pathology and Slide Session"** 14th October 2016, at Department of Pathology, Dr. Ram Manohar Lohia Institute of Medical Sciences, Lucknow
12. Organized CME on **"Master Class in Gastro intestinal Oncopathology"** 1st Feb. 2017 at Department of Pathology, Dr. Ram Manohar Lohia Institute of Medical Sciences, Lucknow
13. Organized CME on **"Master Class in Haematopathology"** 6th April2017 at Department of Pathology, Dr. Ram Manohar Lohia Institute of Medical Sciences, Lucknow
14. Organized "Satellite Symposium UP CYTOCON 2017 on **"Learning with slides- Cytology and Hematology Focus"** in Department of Pathology, Dr. Ram Manohar Lohia Institute of Medical Sciences on 17th September 2017

15. Organized **3rd Annual Conference Neuropathology Society of India** on February 16th-18th 2018 in Dept. of Pathology, Dr. Ram Manohar Lohia Institute of Medical Sciences and Sahara Hospital, Lucknow
16. Organized pre workshop on “**Molecular Pathology of CNS tumours**” on 16th Feb 2018 in the Dept. of Pathology, Dr. Ram Manohar Lohia Institute of Medical Sciences
17. Organized “**Masterclass on Breast Pathology entitled “Evolving Concepts in Breast Malignancies”**” on 21st July 2018 at Dept. of Pathology, Dr. Ram Manohar Lohia Institute of Medical Sciences and Sahara Hospital, Lucknow 18.

❏ **INTERNATIONAL VISITS, TRAININGS AND LECTURES**

1. **Molecular Neuro-oncology and Gene Therapy** :under the Boyscast fellowship Programme of DST, at Massachusetts General Hospital, Harvard University, Boston , USA Jan 1997- June 1997
2. **Interactive training in the Genetic diagnosis of hemophilia**: Royal Prince Albert Hospital, Sydney, Australia 2001.
3. Interactive training in molecular biological techniques at the Alabama State University, Montgomery USA., Sept 2004
4. Lecture on “**Cytohistological approach to the diagnosis of Neuroendoscopic Biopsies**” March 2008 in International CME and Annual Conference of South Asian Neurosurgery Congress. Dhaka
5. Paper presented on “**HIF-1 α , VEGF, PRL-3 and MMP-9 in gliomas: An MR correlation**” at XVIIIth International Congress of Neuropathology, Salzburg Austria, September 11-15, 2010 at Salzburg Congress Centre, Salzburg, Austria
6. Lecture on Environmental Pathology & nanotechnology: **Role in the diagnosis of asbestosis to malignancy given at From Asbestos to Nanotechnology** in National and Kapodistrian, University of Athens, Athens, Greece on 12May 2011.
7. Visited WHO in Geneva Switzerland: “**Meeting on Non communicable Disease- Cervical Cancer screening**” May 2011
8. Two Presentations on “ **Is Cyclin D1 related to Survival and radiotherapy response in Glioblastoma Multiforme**” and “ **Hormone and growth factor receptors in gall bladder carcinoma**” at XXIX Congress of the International Academy of Pathologist APCON 2012, Cape town South Africa 30 Sept -5Oct 2012
9. Invited lecture on “**Cancer Diagnosis and prediction : Application of Nanotechnology**” at

the University of Johannesburg, Johannesburg, South Africa on 6 Oct 2012

10. Presentation on **“Does CD24 and Oct 3/4 Expression in Human Glioblastoma predict survival”** at the 8th Asia Pacific Conference”, Bussan, South Korea on 5-8 September 2013
11. Guest Lecture on **“HPV and Oral Cancer”**. At the 1st SACH conference and 2nd International CMC-Path-CME on Cytopathology & Histopathology at Chittagong, Bangladesh on 14-15 November 2013.
12. Presented a poster entitled **“Role of HPV in carcinogenesis in Oral Squamous Cell Carcinoma in India”** on Aug.27-29 2014 at the Diagnostic Pathology Update and junior Academy International Conference, Colombo, Srilanka.
13. Guest Lecture at the 2nd SACH conference and 3rd International CMC-Path-CME on **Cytopathology & Histopathology** 31 Oct - 1 Nov 2014 at Cox's Bazar, Bangladesh 2014.
14. Lecture at EUROGEN 2015 International Multidisciplinary Congress, **HPV Infection and Related Cancers Translating Research Innovations into Improved Practice**. Sevilla, Spain, Feb 4-7, 2015.
15. The 3rd international conference on **Primary Immunodeficiency disease (ICPID 2015)** CHENNAI, INDIA, FEB 21-23, 2015.
16. Lecture on **“Molecular Diagnosis of Lung Cancer-a need for better care”** at 3rd SACH Conferenec 2015, SAARC, Academy of Cytopathology and Histopathology, Dhaka, Bangladesh.
17. Certificate of Honour for resource person with diligence & aptitude, at 4th CMC-Path-CME 2016 on **Breast Pathology and Neuro Oncology**, March 2016, Dhaka, Bangladesh.
18. Guest lecture on **“Non Small Cell Carcinoma Lung: Cytology and beyond”** at UP. Cytocon 2016, 4th Annual conference Indian Academy of Cytopathologist, September 2016.
19. Guest lecture on **“Diagnosis Issue in Mammary Hyperplasia, Atypia and DCIS”** at 4th SACH Conferenec, SAARC Academy of Cytopathology and Histopathology, Dharan, Nepal September 2016.
20. Lecture on **“Liquid Biopsies in Cancers- How Far Has The Story Moved”** at 4th sach Conferenec, SAARC Academy of Cytopathology and Histopathology, Dharan, Nepal September 2016.
21. Participated and presented on **“Circulating freeDNA as a Diagnostic Biomarker in Gallbladder Carcinoma & ALK Gene Re-arrangement in Lung Cancer with Adenocarcinoma Phenotype: A Tertiary Care Center in India”** at US-ACP, Las Vegas, Nevada, October 2016.

22. Participated and presented poster entitled **“Liquid Based Cytology: Do Ancillary Techniques Enhance Detection of Epithelial Abnormalities?”** at USCAP-106th Annual Meeting, San Antonio, Texas from 4th -10th March 2017.
23. Guest lecture on **“Advance in Practical Diagnosis of Endocervical Adenocarcinoma”** at 5th SACH/IXth APCN Conference , Kathmandu, Nepal from 23-25 March, 2017.
24. Participated and presented a poster on **“Comparison of Circulating Cell-free DNA in Serum as a Biomarker for Diagnosis and Therapy Monitoring in Spectrum of Tumors”** at CAP-2107, National Harbor, Maryland from October 8-11, 2017.
25. Guest lecture in the International conference on **“Cancer of the uterine cervix: Environmental links and prevention strategies, Impact of Environment on Women’s Health”** conference organized by Amity University Uttar Pradesh, Lucknow along with National Institute of Environment Health Sciences, North Carolina, USA from Nov. 29th –Dec. 1st 2017.
26. Attended **“7th International conference College of Pathologist of Sri Lanka & The Sri Lankan British School of Pathology”** held from 22nd to 24th August 2019 at Colombo, Sri Lanka.
27. Attended **“USCAP-2020”** at Los Angeles Convention Center, Los Angeles, California, USA held from 29th Feb 2020 to 05th March 2020.

SESSION CHAIRED

1. Two sessions at National CME in Cytology and Hands on workshop on Immunocytochemistry, Era’s Lucknow Medical College and Hospital, Lucknow, 30-31 July 2011
2. International Academy of Pathology Indian Division (IAP-ID), M. P Shah Medical College and Pathologists of Jamnagar, Gujarat, 13 Dec 2012.
3. APCON 2012, 60th Annual Conference of Indian Association of Pathologists and Microbiologists, M. P Shah Medical College and Pathologists of Jamnagar, Gujarat, 14-16 Dec 2012.
4. Multiparametric Flow Cytometry in Hematological Disorders .SGPGI, Lucknow, 20th-22nd Sept 2013
5. 6th Annual Conference of the Indian Society of Neuro-oncology, ISNOCON 2014 at SGPGI, Lucknow, 11-13 April 2014.

6. Vice President at Indo-US Emergency Medicine Summit, indusem2014 at King George's Medical University, Lucknow, 15-19 Oct 2014.
7. 27th Annual National Conference & International CME, ISARCON at King George's Medical University, Lucknow, 25th -27th Nov. 2014.
8. Session Chaired at "3rd International Conference on primary immunodeficiency Diseases, ICPID 2015", Chennai, India, 21-23 Feb 2015.
9. Session chaired at "4th SACH Confereneec, SAARC Academy of Cytopathology and Histopathology", Dharan Nepal 2016.
10. Session chaired at "3rd Endocrine Tumor Summit and Annual Meeting of UPISBMR" SGPGIMS, Lucknow, September 2016.
11. Moderated the 7th National conference of Neurological Sugeons Society of India (NSSICON) held from 23rd -25th Feb. 2018, organized by King George Medical University, Lucknow.
12. Chaired a session on 14th Annual Conference & International CME of Indian Society of Renal & Transplantation Pathology, held from 11th to 13th October 2019, at SGPGIMS, Lucknow.
13. Chaired a session at "68th Annual Conference of Indian Association of Pathologists and Microbiologists – APCON 2019", PGIMER, Chandigarh held from 5th to 8th December 2019.
14. Chair the session as a panelist for the session titled "On Issues in Digital and Computational Pathology" held from 16th & 17th January 2020, at Tata Medical Center, Kolkata.
15. Chaired a session at the "25th AIPNA-ICP CME", held from 31st Jan to 02nd February 2020 at Ahmadabad, Gujarat.

INVITED LECTURES AT NATIONAL CONFERENCES

1. Symposium on CNS Tumours. Annual Conference of IAPM, Cuttack, 1993.
2. CSF cytology in CNS malignancies. Update in cytology, Annual Conference of IAPM, Lucknow 1994.
3. Gene Therapy in Hemophilia. Annual Chapter and CME of UP Hemophilia Society, Lucknow, 1998.
4. Gene Therapy of tumours. CME of IMA at Lucknow, 1998.

5. Genetic diagnosis of Hemophilia Annual Chapter and CME of Hemophilia Society, Lucknow 2002.
6. Predictive Oncology: Role of Pathology and Molecular biology. Indian Association of Surgical Oncologists, Sept 2002.
7. Invited Lecture IMA Bareilly Diagnosis of Tuberculosis: an update Sept2009.
8. Invited Lecture: "CNS Tumors: Newer entities". Annual Conference of IAPM-UP Chapter Dept of Pathology Era's Lucknow Medical College, Lucknow, Oct 24, 2009.
9. Invited lecture Dept of Pathology JN Medical college, Aligarh An update in diagnosis of CNS tumours April, 2010.
10. IMA Bareilly Meeting IMA Bareilly Invited lecture: Approach to Diagnosis of Bleeding Disorders April 17, 2010.
11. Invited Presentation Lucknow Pathologists Group SGPGIMS Lucknow Interesting Morphological observations in breast Tumours July2010.
12. Paper presentation at APCON 2010, 59th Annual Conference of Indian Association of Pathologists and Microbiologists, Hyderabad, 9-12 Dec 2010.
13. Guest Lecture on "Liquid based Gynaec Cytology" at National CME: Short Course of Thyroid Cytology & Advances in Cytology (MCI sponsored CME) Dept of Pathology Era's Lucknow Medical College, Lucknow, and 7-8 Feb 2012.
14. Paper presentation at APCON 2012, 60th Annual Conference of Indian Association of Pathologists and Microbiologists, M. P Shah Medical College and Pathologists of Jamnagar, Gujrat, 14-16 Dec2012.
15. Invited lecture at Update on Screening of Breast and Cervical Cancer" at Dr. Ram Manohar Lohia Institute of Medical Sciences, Lucknow, on 5Feb 2013.
16. Invited lecture at Training Course Radiation Safety for radiation therapy technologists, at Dr. Ram Manohar Lohia Institute of Medical Sciences, Lucknow 15-20 April 2013.
17. Invited lecture on "Lung Tumor Markers" at National Conference on Pulmonary & skin Pathology, Era's Lucknow Medical College, Lucknow, 14-15 Oct 2013.
18. SACH conference and second international CMC-Path –CME on cytopathology and histopathology 2013
19. Invited lecture on "CSF Examination- Normal to Malignant" at Sahara Hospital, Lucknow on August 2013.
20. Indian academy of cytologists (UP Chapter 2013 1st annual CME program Sept13, 2013) Participated as faculty.

21. Symposium on Lung Cancer Role of Pathologist in Molecular Diagnosis A Clinical Perspective at UP PATHCON 2014. Annual conference of UP Chapter of Indian Association of Pathologists & Microbiologists. 12-13 Oct 2014.
22. Lecture on "Symposium on Lung Cancer: Role of Pathologist in Molecular Diagnosis a Clinical Perspective" at Annual Conference of Indian Association of Pathologists and Microbiologist, U.P. Lucknow, October 2014.
23. Certificate of honor for guest lecture at 2nd SACH conference and 3rd international CMC-path-CME on cytopathology and histopathology 2014 (SACH-CME) on head and neck tumors 2014
24. Invited lecture women power in cutting edge biotechnology at Amity University 2015.
25. Interesting Case presentation at UP Cytocon, 3rd Annual Conference of Indian Academy of Cytopathologists, September 2015
26. Guest faculty at XXIII Annual conference of Indian Association of Pathologists & Microbiologists, U.P. Chapter. Sep 2015.
27. Participated as Moderator at 64th Annual Conference of Indian Association of Pathologists and Microbiologists, Kochi, Kerala 2015.
28. Guest faculty and delivered lecture at 1st Annual conference of Neuropathology Society of India (NPSICON 2015), Hyderabad on December 2015.
29. Guest lecture at "International Oral Pre Cancer and Cancer Congress: Translational Oncology & Genomics-IOPCCC-2016 at KGMU, Lucknow, on Feb 2016.
30. Guest faculty at 27th "Association of Radiation Oncologists of India", March 2016.
31. Guest lecture at U.P. Cytocon 4th Annual conference Indian Academy of Cytopathologist, Gorakhpur, U.P., June 2016.
32. Participated as Delegate at "2nd ICP Fellow Meeting and Retreat" Goa, August 2016.,
33. Invited lecture on "Liquid Biopsies in Cancer Diagnostics and therapeutics" at International Conference on Update in Cancer Prevention and Research" from 14-16th February 2017, Lucknow.
34. Participate as delegate in NIPSICON 2017, 2nd Annual conference Neuropathology Society of India, at NIMHANS Convention Centre, Bengaluru from 22nd-23rd April 2017.
35. Participated as Speaker and delivered lecture in UPPATHCON-2017 XXVth Annual Conference of UP Chapter of Indian Association of Pathologist & Microbiologists organized by Dept. of Pathology King George Medical University, Lucknow from 23rd -24th October 2017.

36. Lecture on “Molecular Diagnosis in Thyroid Pathology” master class in thyroid Pathology “New Stories in Thyroid Pathology and Slide Session” organised by Dept.of Pathology, RMLIMS, Lucknow on 14th Oct. 2017.
37. Guest lecture at SGPGI Breast Courses 2018 on “Current paradigms of Breast Cancer Management” organized by Sanjay Gandhi Post Graduate Institute of Medical Sciences, Lucknow on 3rd Feb. 2018.
38. Delivered a lecture on “Recent Trends in Histology & Molecular Pathology of Lung Cancer” on 3rd Annual Precision Oncology & International Breast Cancer Conference 2019, held from 11th -13th October 2019 at Hotel Marriott Jaipur.
39. Delivered a lecture on “Endoscopic GI Biopsies” “XXVII Annual Conference of Indian Association of Pathologists & Microbiologists - UP PATHOCON 2019” organized by Department of Pathology, J.N. Medical College, Aligarh Muslim University, Aligarh held from 16th to 17th November 2019.
40. Delivered a lecture on “Curiosa Et Exotica: Case presentation & slide seminar” at AIPNA-ICP CME 2020, held from 31st Jan to 02nd February 2020 at Ahmadabad, Gujarat.
41. Attended “**3rd Annual Precision Oncology & International Breast Cancer Conference 2019**”, held from 11th -13th October 2019 at Hotel Marriott, Jaipur.
42. Attended “**XXVII Annual Conference of Indian Association of Pathologists & Microbiologists - UP PATHOCON 2019**” organized by Department of Pathology, J.N. Medical College, Aligarh Muslim University, Aligarh held from 16th to 17th November 2019.
43. Attended “**68th Annual Conference of Indian Association of Pathologists and Microbiologists – APCON 2019**” organized by Department of Histopathology, Postgraduate Institute of Medical Education and Research (PGIMER), Chandigarh from 5th to 8th December 2019.
44. Attended “**International Course in Computational Pathology 2020**” held on 16th January, 2020 at Tata Medical Center, Kolkata.
45. Attended “**25th ICP AIPNA CME 2020**” organized by Department of Pathology, B J Medical College Ahmedabad, Gujarat from 31st January to 2nd February 2020.

PUBLICATIONS

Book/Manuals edited: **2**

Book chapters/ General Articles: **4**

S.No	Title	Author's Name	Publisher	Year of Publication

1	Pathology of tropical diseases	Husain N, Kumar P	Neuroimaging Clin N Am.	2011
2	Fluorescence in Situ Hybridization: Methods and Application	Husain N, Soni P	JaypeeDigital	2014
3	Circulating Free DNA in Hepatobiliary and Gastrointestinal Malignancies	Husain N, Kumari S	Nova Science Publisher, Research on New Generation Tumor Markers	2018
4	Molecular Diagnostics in Head and Neck Squamous Cell Carcinoma	N Husain, Neyaz A	Molecular Diagnostics in Cancer Patients	2019

Publications: 248

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1. Agarwal PK, **Husain N**, Singh BN. Cytologic findings in Aspirated Hydatid Fluid. *Acta Cytologica* 1989, 33:652-654.
2. Agarwal PK, **Husain N**, Chandrawati. Adenofibroma of Uterus and Endocervix. *Histopathology* 1991,18:79-80.
3. Husain M, Mishra UK, Newton G, **Husain N**. Isolated Olfactory groove Neurilemmoma. *Surg Neurol* 1992, 37;115-117.
4. **Husain N**, Agarwal PK., Bagchi M and Misra PK. CSF cytology in Leukemia and Lymphoma. *Journal of Cytology* 1993,10:3-6.
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15. A Shukla-Dave, Gupta RK, Roy R, **Husain N**, Paul L, Venkatesh SK, Rashid MR, Chhabra D K, Husain M. Prospective evaluation of in vivo proton spectroscopy in Differentiation of similar appearing intracranial cystic lesions. *MRI* 2001,19:103-110.
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✚ **Invited Journal reviewer:**

1. Molecular Biology Reports
2. Acta Tropica
3. Experimental parasitology
4. Indian Journal of Pharmacology
5. Indian Journal of Hematology and Blood Transfusion
6. BMJ case report
7. World Journal of Gastroenterology

✚ **Training National:** *SERC School in Immunology at SGPGIMS, Lucknow from 1 to 22 December 1992*

MD/MS/MCh/MPhil Students Guided / Under Guidance:>80

1. MD (Pathology)
2. MD (Tuberculosis & Respiratory Diseases)
3. MS (General Surgery)
4. MCh (Neurosurgery)
5. DM (Neurosurgery)
6. MCh (Surgical Oncology)
7. MD (Obstetrics & Gynecology)
8. MD (Tuberculosis & Respiratory Diseases)
9. MDS Thesis
10. M Phil Thesis

✚ **PhD thesis Guided/ under guidance:**

S.No	Student Name	Topic
1.	Jyotsna Mishra	Antigenic analysis of different components of <i>Cysticercus fasciolaris</i> and its role in Immunodiagnosis of neurocysticercosis.
2.	Amit Prashad	Immune response of neurocysticercosis in human and naturally infected swine.
3.	Ashtmangal Misra	Biological correlates of measured magnetic resonance diffusivity in cystic intracranial mass lesions.
4.	Syed TasleemRaza(Head , Dept. Of	Genetic approach to precise carrier detection of hemophilia A in Indian population

	Biotechnology, Era's Medical College, Lucknow)	
5.	Nitin Shukla (Scientist 'B' NCL, Pune)	Role of Cysticercus fasciolaris antigen in the Immunodiagnosis and prediction of therapeutic response in neurocysticercosis.
6.	Sona Saksena (Post Doc Fellow, USA)	Correlation of histology with diffusion tensor imaging in the developing cerebellum
7.	Raj Kumar	MR correlates of post traumatic Axonopathy.
8.	Kavindra Nath	correlation of pro-inflammatory mediators with diffusion tensor metrics in brain abscess.
9.	Mohammad Haris	MRI quantification of angiogenesis in infective and neoplastic intracranial mass lesion and its correlation with histopathology
10.	Manoj Kumar	Understanding Brain development Anomalies through diffusion tensor imaging.
11.	Nuzhat Jahan Faridi	Direct mutation detection in Indian Hemophiliacs.
12.	Praveen Kumar; 2014	Analysis of Intron 22 Inversion mutation in Indian cases with hemophilia A
13.	Priyanka Soni	Molecular markers in Glioblastoma Multiforme: correlation with tumors subtypes response to therapy and survival.
14.	Surya Prakash Dwivedi	Test standardization and validation of a new diagnostics PCR assay for detection of trichomonasvaginalis, UP Technical University, Lucknow (2014).
15.	Dr. Vaishali Jain (MD Ph.D)	Assessment of endometrial receptivity in infertile human female- Potential applicability of stem cells.
16.	Faizan Hafeez Khan	miRNA and related signaling proteins in Glioblastoma multiforme.
17.	Shakiba	Evaluation of diagnostic parameters and treatment response in post-menopausal women with atrophic vaginitis.
18.	Huma Khan	Expression of P53, Cyclin D1 and EGFR and its Clinico Pathological Correlation in Oral Squamous Cell Carcinoma
19.	Vineeta Singh	Tumor suppressor gene expression in hpv positive and hpv negative Oral Squamous Cell Carcinoma correlation with Clinicopathological Variables

20.	Priya Tripathi	Association of ADAM 33 gene polymorphism with Asthma as Compared with Normal Population
21.	Swati Kumari	Diagnostic evaluation of circulating free DNA and circulating tumor cells in gall bladder cancer.
22.	Sridhar Mishra	P16 Expression, p16 methylation and DNA Ploidy in Liquid Based Cytology of Cervical Pre Cancer and Cancer
23.	Brij Nath Tiwari	Local expression of chemokine's and macrophage infiltration :Role in breast cancer Metastasis
24.	Richa Singh	Prognostic implication of metastatic marker in breast cancer: A prospective cohort study
25.	Alok Niranjan	Serial blood brain barrier (BBB) quantification using DCE-MRI in patients with single calcified NCC while on antiepileptic therapy
26.	Kainat Khan	To Study the Effect of Diagnostic Radiation on Human Peripheral Blood Lymphocyte
27.	Sanya Arshad	Prevalence of FVIII Inhibitor in Hemophilia A and its Correlation with Cytokine Profile
28.	Anumesh Kumar Pathk	Role of Glutathione S-transferase Genotypes in Signal Integration by GSTP1-JNK and p53 Pathway in Non-Small Cell Lung Carcinoma
29.	Rahul Kumar Pandey	PD-L1 Expression and its Association with Multiple Predictive and Prognostic Molecular Markers in Adenocarcinoma lung.
30.	Adil Husain	Investigation of cfDNA levels and IDH1 mutation in ADG for diagnosis and prediction of therapy

External Expert in PhD.

1. **Richa Trivedi**, SGPGIMS , Lucknow (Scientist B DRDO)
2. **Rishi Avasthi**, SGPGIMS, Lucknow.
3. **Sanket Kumar Shukla**, SGPGIMS, Lucknow.

WORK EXPERTISE:

FIELD OF INTEREST: Histopathology, Cytology, Neuropathology, Genetics and Immunology

SOCIAL WORK:

Organization of health camps, Voluntary work with charitable organizations, Sponsorship of Children for education, Publication of Newspaper articles on health awareness, Publication of hand-outs on women's cancer awareness.

❏ **CREATION OF INFRASTRUCTURE&facilities :**

A continued experience of development of high end labs starting with Neuropathology services followed by Molecular genetics at the Department of Pathology, King George's Medical College. Lucknow. At **Dr Ram Manohar Lohia Institute of Medical Sciences, Lucknow:** creation of high end referral department with Immunohistochemistry, Frozen sections, Telepathology, Thin Prep cytology, Flowcytometry, Automated cell counters, Molecular pathology with DNA Sequencer,Real time PCR, FISH,Cytogenetic, Immunopathology with Protein Electrophoresis and Chemiluminescence assays. The institute laboratory departments now function as state referral centre for lab investigations on a novel concept of public-public sector partnership with provision of low cost high end and high quality investigations for patients in UP govt sector

As Dean RMLIMS got recognition for the institute as a post graduate degree giving institute from the MCI in 2012 and successfully commenced several postgraduate broad and superspeciality courses in the young institute.

As Director RMLIMS was responsible for major expansions of the institute with plans for commencement of MBBS degree laying the foundation of a signature building of the academic block and getting 20 acres of additional land on shaheed path for an additional campus. The capacity of functioning beds in the superspeciality hospital increased from 90 to 270 with commencement of ICU, dialysis, applications for renal transplant program, telepathology and many other firsts.