

Curriculum Vitae

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

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Name: Nuzhat Husain, MD, IFCAP, FICP

Designation: Dean, Professor and Head, 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 01st November 2020.
- ✚ **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 Bundel khand 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

➤ **List of ongoing and completed Extramural research projects as a principal investigator:**

S.No.	Title of project	Amount	Source of Grant	From	To	Status	Principal investigator/ Co-investigator
1	Diagnostic application of genomic and epigenetic profiling of circulating free DNA in Gallbladder carcinoma	49 Lacs	ICMR, New Delhi	2021	2024	On-going	Principal Investigator
2	Circulating miRNA role in Gallbladder cancer: s serum assay of diagnostic value	20 Lacs	DHR, ICMR, New Delhi	2019	2021	Completed	Principal Investigator as a mentor
3	Study of cfDNA and LunX gene Transcript in Diagnosis and Prediction of Chemotherapy Response in Non-Small Cell Lung Carcinoma	10.0 Lacs	ICMR, New Delhi	2018	2020	Completed	Principal Investigator

4	Methylation status of gene in circulating free DNA as diagnostic & predictive biomarker in OSCC	20.0 Lacs	CSIR, New Delhi	2019	2022	Completed	Principal Investigator
5	A study of immunotherapy and molecular targets in squamous cell carcinoma lung	13.0 Lacs	ICMR, New Delhi	2019	2022	Completed	Principal Investigator
6	CfDNA in Glioma: Diagnostic and Therapeutic Application	12.0 Lacs	ICMR, New Delhi	2019	2021	Completed	Principal Investigator
7	Polymorphism study of the CYP and GST Gene Family and its Association with Up-regulation of Cell death in Non-Small Cell Lung Carcinoma	10.0 Lacs	CST,UP	2016	2019	Completed	Principal Investigator
8	FVIII inhibitors in Hemophilia A: Correlation with gene mutation and cytokine profile	43.0 Lacs	SERB, New Delhi	2015	2018	Completed	Principal Investigator
9	To study the effects of diagnostic radiations on human peripheral blood lymphocytes	19.0 Lacs	UGC, New Delhi	2014	2018	Completed	Principal Investigator
10	Diagnostic evaluation of circulating free DNA and circulating tumor cells in gall bladder cancer	19.0 Lacs	DST, New Delhi	2012	2017	Completed	Principal Investigator
11	Tumor suppressor gene expression in HPV positive and HPV negative Oral Squamous Cell Carcinoma correlation with Clinicopathological Variables	15.0 Lacs	UGC, New Delhi	2012	2017	Completed	Principal Investigator
12	Liquid Based Cytology: Assessment of P16 and DNA Ploidy in Cervical Neoplasia Correlation With p16 Promoter Hypermethylation	10.0 Lacs	CST,UP	2013	2016	Completed	Principal Investigator
13	Analysis of Intron 22 Inversion Mutation In Indian Cases With Hemophilia A	7.0 Lacs	CST,UP	2009	2012	Completed	Principal Investigator
14	Stem cell expression of CD24,Oct3/4, and Nanog in glioblastoma stem cell multiforme correlation with treatment response and survival	15.0 Lacs	ICMR, New Delhi	2012	2015	Completed	Principal Investigator
15	Direct Mutation Analysis of Factor VIII Gene in Indian Hemophiliacs	36.0 Lacs	DST, New Delhi	2009	2012	Completed	Principal Investigator
16	Localization and Migration of Neural Stem Cells in the Developing Human Temporal Lobe	10.0 Lacs	CSIR, New Delhi	2007	2010	Completed	Principal Investigator

17	Correlation of histology with diffusion tensor imaging in developing cerebellum	10.0 Lacs	ICMR, New Delhi	2007	2010	Completed	Principal Investigator
18	Nestin Immunohistochemistry to identify neural stem cells in the developing human cerebellum and childhood Medulloblastoma	7.0 Lacs	ICMR, New Delhi	2007	2010	Completed	Principal Investigator
19	Evaluation of Structural changes of Normal Human Fetal Brain Embryogenesis using Diffusion Anisotropy MRI with Histologic Correlation	42.91 Lacs	DBT, New Delhi	2005	2008	Completed	Principal Investigator
20	Field Evaluation of ELISA and New EITB Assays In A Field Survey For Systemic Cysticercosis Around Lucknow	4.0 Lacs	CST, New Delhi	2004	2006	Completed	Principal Investigator
21	New Polymorphism Based Gene Tracking in Patients of Hemophilia A In Indian Population	6.6 Lacs	DBT, New Delhi	2003	2006	Completed	Principal Investigator
22	ELISA in the Assessment of Therapeutic Response in Neurocysticercosis	\$8000	IndiaCLEN	2003	2005	Completed	Principal Investigator
23	Genetic Approach To Precise Carrier Detection Of Hemophilia A In India	17.0 Lacs	DST, New Delhi	2003	2006	Completed	Principal Investigator
24	Collaborative Project in Biotechnology with Excel Technologies, Alabama, USA	\$5000	Excel Technologies, Alabama, USA	1997	1998	Completed	Principal Investigator
25	Immunoblot Analysis of Cysticercus fasciolaris antigen in the diagnosis of Neurocysticercosis	6.0 Lacs	ICMR, New Delhi	1998	2000	Completed	Principal Investigator
26	Studies on cerebral micro vessels during experimental malaria and effect of antimalarial treatment	2.5 Lacs	ICMR, New Delhi	1997	1999	Completed	Principal Investigator
27	An evaluation of ELISA in the diagnosis and follow-up of Neurocysticercosis	5.0 Lacs	CST, UP	1996	1998	Completed	Principal Investigator
28	Immunohistochemical expression of P53 expression in Human CNS Malignancies	2.0 Lacs	DST, New Delhi	1995	1997	Completed	Principal Investigator

List of extramural research projects as co-investigator:

S.No.	Title of project	Amount	Source of Grant	From	To	Status	Principal investigator/ Co-investigator
1	Role of Immunodiagnosis Vis a Vis histopathology in the diagnosis of indeterminate leprosy.	10.0 Lacs	CST, UP	2007	2009	Completed	Co-investigator
2	BRCA 1 and PCNA in ascending grades of cervical Intraepithelial Neoplasia and Invasive Malignancy of the uterine cervix	10.0 Lacs	CST, UP	2011	2013	Completed	Co-investigator
3	Immunopathogenesis of Campylobacter Jejuni induced paralysis resembling Guillain – Barre Syndrome in Chickens.	9.0 Lacs	ICMR, New Delhi	2013	2015	Completed	Co-investigator
4	Immunopathogenesis of Neurocysticercosis in naturally infected Swine”	12.0 Lacs	DST, New Delhi	2013	2016	Completed	Co-investigator
5	Clinical, Immunohistochemical and sonological assessment of endometrial receptivity in Infertile human female”.	15.0 Lacs	ICMR, New Delhi	2010	2013	Completed	Co-investigator
6	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”	17.0 Lacs	DST, New Delhi	2015	2018	Completed	Co-investigator

List of intramural research projects as principal investigator:

S.No.	Title of project	Amount	Source of Grant	From	To	Status	Principal investigator/ Co-investigator
1	CD133, CD24 and Oct-4 in Oral Cancer-Effects on Chemo radiation Response	2.0 Lacs	RMLIMS, Lucknow	2011	2013	Completed	Principal investigator
2	Detection of novel and known EGFR mutations in lung adenocarcinoma by DNA sequencing	2.0 Lacs	RMLIMS, Lucknow	2016	2018	Completed	Principal investigator

3	Investigation of cf-DNA Levels and IDH-1 Mutation in Adult Diffuse Glioma for Diagnosis and Prediction of Therapy	2.0 Lacs	RMLIMS, Lucknow	2019	2021	Completed	Principal investigator
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List of intramural research projects as co- investigator:

S.No.	Title of project	Amount	Source of Grant	From	To	Timely completion of project	Principal investigator/ Co-investigator
1	A Study on New Molecular Targets in Non-Small Cell Lung Carcinoma-Squamous Cell Carcinoma	2.0 Lacs	RMLIMS	2020	2022	Completed	Co--investigator
2	Analysis of the frequency of over expression of EGFR protein and KRAS mutations in Gall bladder cancer	2.0 Lacs	RMLIMS	2019	2021	Completed	Co--investigator
3	Expression of Immune Checkpoint Regulators including Cytotoxic T Lymphocyte Antigen 4(CTLA4) and Programmed Death-Ligand 1 (PDL1) in Epithelial Thyroid Malignancies	2.0 Lacs	RMLIMS	2019	2021	Completed	Co--investigator
4	Assessment of Antigenic targets in Membranous Nephropathy	2.0 Lacs	RMLIMS			Completed	Co--investigator
5	EGFR and HER-2/neu expression in Gall bladder carcinoma	2.0 Lacs	RMLIMS	2012	2014	Completed	Co-investigator
6	Co-inheritance of Factor V Leiden in patients of inherited Hemophilia A in India	2.0 Lacs	RMLIMS	2012	2014	Completed	Co-investigator
7	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	2.0 Lacs	RMLIMS	2013	2015	Completed	Co-investigator
8	Cost effectiveness analysis of screening for Congenital hypothyroidism in neonates in India	2.0 Lacs	RMLIMS	2014	2016	Completed	Co-investigator
9	Evaluation of Polymerase Chain Reaction in Nerve Biopsy Specimens of Patients with Hansen's disease – Assessment in cases with	2.0 Lacs	RMLIMS	2014	2016	Completed	Co-investigator

	Mononeuritis Multiplex/ Simplex						
10	Comparative analysis of Immunohistochemistry (IHC) and Fluorescent in situ hybridization (FISH) for detection of Anaplastic Lymphoma Kinase (ALK) gene rearrangement in adenocarcinoma lung- A pilot study	2.0 Lacs	RMLIMS	2014	2016	Completed	Co-investigator
11	Fine needle aspirate of lymph nodes and use of adjunct diagnostic modalities in the diagnosis of non-Hodgkin lymphomas	2.0 Lacs	RMLIMS	2016	2018	Completed	Co-investigator
12	Study of Gall Bladder Cancer: A Diagnostic Evaluation of Circulating Free DNA and Circulating Tumor Cells	2.0 Lacs	RMLIMS	2013	2015	Completed	Co-investigator
13	Evaluation of changes in cell free tumor DNA levels in locally advanced head and neck cancer patients undergoing radiotherapy	2.0 Lacs	RMLIMS	2016	2018	Completed	Co-investigator
14	Assessment of Histopathological Markers of lepra Reactions in skin Biopsies	2.0 Lacs	RMLIMS	2016	2018	Completed	Co-investigator
15	Prognostic and predictive value of stratifying adult Glioma using an integrated histological and molecular diagnostic approach	2.0 Lacs	RMLIMS	2016	2018	Completed	Co-investigator
16	Diagnostic value of BRAFV600E immunohistochemistry in thyroid aspirates in Bethesda category IV and papillary carcinoma thyroid	2.0 Lacs	RMLIMS	2017	2019	Completed	Co-investigator
17	Programmed cell death –ligand 1(PD-L1) expression in non small cell lung cancer (NSCLC) and its correlation with driver mutations: A Pilot Study	2.0 Lacs	RMLIMS	2018	2020	Completed	Co-investigator
18	KRAS and BRAFV600E protein over expression in adenocarcinoma lung and association with PD-L1 expression: A pilot study	2.0 Lacs	RMLIMS	2018	2020	Completed	Co-investigator

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/mentoring Post-Doctoral Young Scientists -03

✚ ***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 Group on 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 Hematopathology**” 6th April 2017 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, Lucknow.
18. Organized “**Masterclass on Approach to Medical Liver biopsies**” on 22nd June 2022 at Dept. of Pathology, Dr. Ram Manohar Lohia Institute of Medical Sciences, Lucknow.

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 6Oct 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** 31Oct - 1Nov 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**. Seville, 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**

Conference 2015, SAARC, Academy of Cytopathology and Histopathology, Dhaka, Bangladesh.

17. Certificate of Honours for resource person with diligence & aptitude, at 4T 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 Conference, 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 Conference, SAARC Academy of Cytopathology and Histopathology, Dharan, Nepal September 2016.
21. Participated and presented on “**Circulating free DNA 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. Participated and presented poster entitled “**Global methylation status and cfDNA integrity using ALU115 and ALU 247 repeats in gall bladder carcinoma**” at USCAP 107th Annual Meeting, Vancouver, Canada from 17th -23th March, 2018.

27. Participated and presented a poster entitled **“Genetic Profiling of circulating free DNA in Gliomas by Targeted Next Generation Sequencing”** at USCAP-2020, Los Angeles, California, USA from 29th February - 5th March, 2020.
28. Participated and presented a poster entitled **“Independent and Combined Effects of CYP and GST Genotypes as Risk Modifiers in Non-Small Cell Lung Cancer”** at USCAP-2020, Los Angeles, California, USA from 29th February to 5th March, 2020
29. Attended and delivered a lecture on **“Association of genetic variants of glutathione S transferase with p53 phenotype and DNA damage in non-small cell lung carcinoma”** at 32nd Congress of the ESP and XXXIII International Congress of the IAP Glasgow, UK from 6th -8th December, 2020 (online).
30. Participated and presented a poster entitled **“cfDNA Quantification and IDH1R132H Mutation Detection in Adult Diffuse Glioma on Chemoradiation”** at USCAP-2022, Los Angeles, California, USA from 15th March 2022 to 24th March 2022.
31. Attended and delivered a oral presentation on **“Circulating Free DNA Mutation Profiling by Targeted Next Generation Sequencing in Gallbladder Carcinoma”** at 112th annual meeting of United States and Canadian Academy of Pathologist from 11th -16 March 2023, New Orleans, LA

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, and 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, 21-23Feb 2015.
9. Session chaired at "4th SACH Conference, 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 Surgeons 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.
16. Chaired a session in the "Virtual Cytopathology CME 2020" organized by department of pathology, SRM-IMS with Indian Academy of Cytopathologist- UP chapter on 13th December 2020.
17. Chaired a session at AIPNA-ICP on "Molecular Pathology of salivary gland" held on 4th - 6th March 2021 at Kochi.

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 Department 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 Cytopathologist, 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, Benglu 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 & Microbiologist 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” organized 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.
46. Attended and delivered a lecture at **32nd Congress of the ESP and XXXIII International**

Congress of the IAP from 6th -8th December 2020.

47. Delivered a lecture in “**Karnataka Chapter Indian Association of Pathologist and Microbiologists**” 2020.
48. Participated as faculty in **Gynaecopathology Session at 47th Annual conference of KCIAPM** from 2-4th October 2020.
49. Delivered a lecture in virtual ICP fellow meet -2021 on “**Symposium on Liquid Biopsy**” organized by Karnataka Chapter- IAPM on 24th January 2021.
50. Participated as Delegate and faculty in in virtual ICP fellow meet -2021, organized by Karnataka Chapter- IAPM on 24th January 2021.
51. Participated as faculty in SERB sponsored online workshop “**Transmission Electron Microscopy in Life Sciences: Procedure and Applications**”, organized by Department of Pathology, SGPGI, Lucknow from 21st to 26th June 2021.
52. Delivered a lecture on “**A Pathologists perspective**”, at Update on advances in GI pathology-CME cum workshop on 17th-18th July 2021.
53. Delivered a lecture on slide seminar “**VIBGYOR: Looking beyond conventional Cytology – Indian Perspective**” at Indian Association of Pathologist and Microbiologist: APCON 2022, on 30th November to 04th December 2022 at Bengaluru, Karnataka, India
54. Delivered a lecture on “**Liquid biopsy - a bench to bedside success story and future opportunities**” at the Recent Trends in Cancer Research and Precision Medicine”, organized by Indian Institute of Technology, Kanpur from December 16 – 18, 2022.
55. Delivered a lecture on “**Recent advances in the biomarker of colorectal cancer**” at the 10th Annual Conference of Molecular Pathology Association of India organized by the Sanjay Gandhi Post Graduate Institute of Medical Sciences, (SGPGIMS) Lucknow, on 19th of February 2023.
56. Delivered a lecture on “**The imperfect story of liquid biopsies in gliomas**” at 6th Annual National Conference of Neuropathology Society of India, from 23rd – 25th Feb 2023. (Virtual).

PUBLICATIONS

Book/Manuals edited: **2**

Book chapters/ General Articles: 5

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	Jaypee Digital	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
5	Grossing Techniques of Gastrointestinal Tract Specimens: Malignant.	Husain N , Shukla S, Srivastava P	In Surgical Pathology of the Gastrointestinal System 2022 (pp. 85-111). Springer	2022

Publications: 316

LIST OF PUBLICATION

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.
5. Bagchi M, **Husain N**, Goel MM, Agrawal PK, Bhatt S. Extraskelatal mesenchymal chondrosarcoma of the orbit. *Cancer* 1993, 72:2224-2226.
6. **Husain N**, Bagchi M, Husain M, Pandey K. Intermediate filament expression in Primitive Neuroectodermal tumours. *Neurology India* 1995, 43:45.
7. **Husain N**, Bagchi M, Husain M, Tewari B. AgNOR expression in CNS neoplasms. *Indian J. Pathol. Microbiol* 1997, 40:503-509.
8. Manoj KK, Gupta RK, Roy R, Gaur V, **Husain N**, Sunil P. Measurement of magnetisation image transfer in different stages of Neurocysticercosis. *JMRI* 1998, 8:473-479.
9. Bagchi M, **Husain N**, Husain M, Jyotsna. An evaluation of ELISA using *Cysticercus fasciolaris* antigen in the diagnosis of Neurocysticercosis. *Indian J. Pathol. Microbiol.* 1998, 41:233-239.
10. **Husain N**, Bagchi M, Husain M, Dhingra S. P53 expression in Gliomas .*Indian J. Pathol. Microbiol.* 1998,41.
11. **Husain N**, Chiocca EA, Louis D, Zervas N. Co-expression of Fas and FasL in malignant glial tumours and cell lines. *Acta Neuropathologica (Berl)* 1998, 95:287-290.
12. **Husain N**, Manisha Bagchi. ELISA in the diagnosis of neurocysticercosis. *J of Clinical Epidemiology*, Volume 52, Supplement 1, Page 22S, March 1999.
13. Kathuria M.K., Kumar R, Paul L, **Husain N**, Krishnani N, Gupta R.K. Brain in Brain appearance of hypothalamic heterotopic mass on MRI. *J. Neurosurgery* 2001, 94;540.
14. Sudhakar K., Agarwal S, Rashid M, **Husain N**, Husain M, Gupta RK. MRI demonstration of hemorrhage in wall of brain abscess: its possible implications in diagnosis and management. *Neuroradiology*2001, 43:218-222.
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.

16. Sudhakar KV, Gupta RK, Paul L, Husain M, **Husain N**. Spectroscopic increase in signal is not a specific marker for differentiation of infective/inflammatory from neoplastic lesions of the brain. *JMRI* 2001, 14:8-15.
17. Gupta RK, **Husain N**, Kathuria MK, Datta S, Rathore RKS, Husain M. Magnetisation transfer MR imaging correlation with histopathology in intracranial tuberculomas. *Clinical Radiology* 2001, 56:656-663.
18. Gupta RK, Vatsal DK, **Husain N**, Chawla S, Prasad KN, Roy R, Kumar R, Jha D, Husain M. Differentiation of tuberculosis from pyogenic brain abscesses with in vivo proton MR spectroscopy and magnetization transfer MR imaging. *American Journal of Neuro-Radiology* 2001, 22:1503-1509.
19. **Husain N**, Jyotsna, M. Bagchi, Husain M, M. K. Misra, S. Gupta. Evaluation of *Cysticercus fasciolaris* antigen for the immunodiagnosis of neurocysticercosis. *Neurol India*. 2001, 49:375-379.
20. Vatsal DK, Husain M, **Husain N**, Chawla S, Roy R, Gupta RK. Cerebellar hemangioblastoma simulating arachnoid cyst on imaging and surgery. *Neurosurgery Reviews* 2002, 25:107-109.
21. Gupta RK, Husain M, Vatsal DK, Kumar R, Chawla S, **Husain N**. Comparative evaluation of magnetization transfer MR imaging and in-vivo proton MR spectroscopy in brain tuberculomas. *Magn Reson Imaging* 2002, 20:375-381.
22. Chawla S, Gupta RK, Kumar R, Garg M, Pradhan S, Pal N, **Husain N**, Gupta A, Rathore RKS. Demonstration of scolex in calcified cysticercus lesion using gradient echo with or without corrected phase imaging and clinical implications. *Clinical Radiology* 2002, 57: 826-834.
23. Garg M, Gupta RK, Prasad KN, Sikora SS, Pal L, Chawla S, Kumar R, Husain M, Saxena S, **Husain N**, Roy R. Fertility assessment of hydatid cyst by proton MR spectroscopy. *J Surg Res* 2002, 106:196-201.
24. Husain M, Jha D, **Husain N**, Gupta RK. Neuroendoscopic treatment of pediatric cerebrospinal fluid rhinorrhoea. *Ped. Neurosurg* 2002. 37: 295-297.

25. Husain M, Jha D, Vatsal DK, **Husain N**, RK Gupta. Neuroendoscopic surgery- experience and outcome analysis of 102 consecutive procedures in a busy neurosurgical centre of North India. *Acta Neurochirurgica* 2003, 145: 369-376.
26. Chawla J, Husain M, Vatsal DK, Jha D, **Husain N**, Gupta RK. MR demonstration of brain abscess ruptures into the sub-arachnoid space and its possible implication in management. *Surg. Neurol.* 2003, 59:197-199.
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28. Agarwal V, **Husain N**, Sidharth K Das, Bagchi M. Muscle Involvement in Rheumatoid Arthritis: Clinical and Histological Characteristics and Review of Literature. *J Indian Rheumatol. Assoc* 2003, 11:93-102.
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30. Husain M, Jha D, Thaman D, **Husain N**, Gupta RK. Ventriculostomy in a tumor involving the third ventricular floor. *Neurosurg Rev.* 2004, 27:70-72.
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40. Vatsal DK, Kapoor S, Venkatesh V, Vatsal P, **Husain N**. Ectopic fascioliasis in the dorsal spine: case report. *Neurosurgery.* 2006, 59:706-707.
41. Haris M, Gupta RK, **Husain N**, Hasan KM, Husain M, Narayana PA. Measurement of DTI metrics in hemorrhagic brain lesions: possible implication in MRI interpretation. *J Magn Reson Imaging.* 2006,24:1259-1268.
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45. Raza ST, **Husain N**, Avneesh, and Bhatt AN, Kumar A. Hind III polymorphism in Carrier Detection of Hemophilia A in India: A New Primer Design. *Clin Appl Thromb Hemost.*2007, 13:432-434.
46. **Husain N**, Sharma S, Verma R, Shukla N, Gupta RK, Prasad KN, Husain M. Multimodal diagnostic approach to brain abscess. *The Internet Journal of Tropical Medicine.* 2007; 3(2).
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49. Husain M, Rastogi M, Jha DK, **Husain N**, Gupta RK. Endoscopic transaqueductal removal of fourth ventricular neurocysticercosis with an angiographic catheter. *Neurosurgery* 2007, 60:249-254.
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55. Shukla N, **Husain N**, Jyotsna, Gupta S, Husain M. Comparisons between scolex and membrane antigens derived from *Cysticercus fasciolaris* and *Cysticercus cellulose* larvae in immunodiagnosis of human neurocysticercosis. *J. Microbiol Immunol Infect.* 2008, 41:519-524.
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86. Kumari M, **Husain N**, Babu S, Kureel SN. Bilateral primary B-cell lymphoma of testis in a three-year-old male child. *Indian J Pathol Microbiol* 2010, 53:181-182.
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313. Srivastava P, Mishra S, Agarwal A, Pandey A, **Husain N**. Circulating microRNAs in gallbladder cancer: Is serum assay of diagnostic value?. *Pathology-Research and Practice*. 2023 Jan 16:154320.
314. Srivastava P, Mishra S, Shukla S, **Husain N**. Next Generation Sequencing in Vitellointestinal Duct Adenoma: Existence of Adenoma-Carcinoma Sequence or too Early to Predict?. *International Journal of Surgical Pathology*. 2023 Feb 19:10668969231152581.
315. Marak JR, Raj G, Khanna T, **Husain N**, Gandhi A. Primary squamous cell carcinoma of pancreas in a patient with chronic pancreatitis: A rare case report. *Radiology Case Reports*. 2023 May 1; 18(5):2024-9.
316. Husain A, Mishra S, Siddiqui MH, **Husain N**. Detection of IDH1 Mutation in cfDNA and Tissue of Adult Diffuse Glioma with Allele-Specific qPCR. *Asian Pacific Journal of Cancer Prevention*. 2023 Mar 24.

📌 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: 70**

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 guided:

MD Pathology Thesis:

1. **Kalyani Pande**, MD pathology: Intermediate Filament expression in primitive Neuro ectodermal tumors.
2. **Renu Rani Agarwal**, MD Pathology: Pathology of Ovarian Lesions.
3. **Vinita Elhence**, MD Pathology: Muscle Involvement in Rheumatoid Arthritis- A clinico-pathological study.
4. **Poonam Ghai**, MD Pathology: A study of some prognostic factors in Primary and secondary myelodysplasia, Chronic myelo proliferative disorders and few neoplastic hematological disorders.
5. **Arti Singh**, MD Pathology: P53 expression, Cytogenetic and Immunological Characterization in Lympho proliferative disorders.
6. **Anju Gupta**, MD Pathology: Histopathological Study of Hirschsprung's Disease and other intestinal neurological disorders.
7. **Shalini Bahadur**, MD Pathology: A reappraisal study of Malignant Tumors: Histopathology and Epidemiology.
8. **Archana Gupta**, MD Pathology: Cytohistological Study associated with specialized techniques for evaluation of pediatric neoplasms.

9. **Seema Satyarthi**, MD Pathology: Micro vessels Density assessment in tuberculomas versus Gliomas
10. **Charu Shastri**, MD Pathology: PODOPLANIN (D2-40) immunohistochemistry in oral and pre- cancers.
11. **Swagnik**, MD Pathology: Clinico-pathological study of patients with Dysphonia.
12. **Geeta Maurya**, MD Pathology: EGFR 1 and CD56 expression in hormone receptor positive and negative breast cancer
13. **Nidhi Anand**, MD Pathology: Immunohistochemical characterization of lymphocytic response in oral squamous cell carcinoma.
14. **Vijay Soren**, MD Pathology: Utility of Restriction Fragment Length Polymorphism in Carrier Detection of Hemophilia-A
15. **Ritu Verma**, MD Pathology: Multimodal diagnostic approach to brain abscess (2001).
16. **Neeraj Arya**: MD Pathology: Gall bladder cancer: micro vessels density assessment and AgNOR proliferative index (2004).
17. **Pallavi Agarwal**, MD Pathology: Intratumoral microvessel density and AgNOR proliferative index in urothelial Neoplasms (2004).
18. **Neeraj Arya**: Gall bladder cancer: micro vessels density assessment and AgNOR proliferative index (2004).
19. **Dr. Reeta Yadav, MD Pathology**: VHL protein expression in Renal Cell Carcinoma. (2004)
20. **KoliKundu**, MD Pathology: Hematological, Cytogenetic and other parameters in conversion phases of Chronic Myeloproliferative disorders (including Chronic Myeloid leukemia) in primary Myelodysplasia (2007).
21. **Malti Kumari**, MD Pathology: Evaluation of endoscopic biopsy in diagnosis of intracranial space occupying lesion (2007).
22. **Jyoti Mishra**, MD Pathology: Nestin immunohistochemistry to identify neural stem cells in developing human cerebellum and child hood medulloblastoma (2008)
23. **Uruij Jahan**, MD Pathology: Clinicopathological study of atrophic vaginitis in post menopausal women (2010).
24. **Meghana Singh**, MD Pathology: Bone marrow micro metastasis: comparative study in aspiration, clot section and Biopsy (2010).
25. **Honey Kumar**, MD Pathology: Role of vascular endothelial growth factor and hypoxia inducible factor in CNS infection and Gliomas. (2011)
26. **Mamta Kumari Jaiswal**, MD Pathology: Role Of Cyclin D1 Expression in Glioblastoma Multiforme: Correlation With Histological Subtype And Survival (2011).
27. **Arvind Kumar**, MD Pathology: Role of nm23H1 in Predicting Metastases in Prostatic Carcinoma (2011).
28. **Kumari Manu**, MD Pathology: Histopathological study of chemotherapy induced changes in wilms tumor in relation to current SIOP guideline.
29. **Latika Gupta**, MD Pathology: IDH1 Protein expression in gliomas: Comparison in WHO grades and histological subtypes (2013).

30. **Sakshi Agrawal**, MD Obstetrics & Gynecology: Comparison of Liquid based cytology with conventional cytology for detection of cervical neoplasia in menopausal women (2012).
31. **Rita Yadav**, MD Pathology: VHL Protein expression in renal cell carcinoma (2013).
32. **Dr Pallavi Srivastava**, MD Pathology. Immuno- profiling of muscular dystrophies. Sept 2015.

MS (General Surgery)

33. **Anshuman Darbari**, MS Surgery: A comparative analysis of morphological investigations of Thyroid tumors
34. **Ravi Kumar Singh**: MS General Surgery: Role of proton: high resolution magic angle spinning (HRMAS) magnetic resonance in thyroid neoplasia- a new diagnostic modality (2007).
35. **Narendra Kumar**: MS General Surgery: Clinicopathological; study of various gastrointestinal perforations (2008).
36. **Jaibodh Kumar**, General Surgery: study of association between ex-vivo NMR micro imaging, HR MAS spectroscopy and histopathology in oral cancer with special reference to cancer occurring in younger age group (2011).
37. **Zahir Ahmed**, General Surgery: VEGF as a marker for improvement in angiogenesis and collateral circulation post ilizarov procedure in peripheral arterial occlusive disease (2011).
38. **Anubhav Raj**, General Surgery: Study of association between ex-vivo NMR micro imaging, HR MAS spectroscopy and histopathology in breast cancer with special reference to cancer occurring in younger age group (2011).
39. **Yadvendra Dheer**, MS General Surgery: Study of Association Between EX-VIVO NMR Micro-Imaging, HR MAS Spectroscopy, NMR Spectroscopy of Voided Urine and Histopathology in Superficial Urinary Bladder Cancer (2011).
40. **Prarthana Saxena**, MS General Surgery: Expression of Vitamin D Receptors and Levels of 1,25 (OH) Vitamin D₃ in Carcinoma Breast, in Carcinoma Breast and Effect of Concomitant Administration of Oral Vitamin D with Standard Chemotherapy in Carcinoma Breast with Respect to Circulating Tumour Cells in Pre and Post Therapy. (2012).
41. **Suyash Singh**, MS General Surgery: Expression of Vitamin D Receptors in Carcinoma Breast, Levels of 1,25 (OH) Vitamin D₃ in Oral Cancer and Effect of Concomitant Administration of Oral Vitamin D with Standard Chemotherapy in inoperable Oral Cancer with special Reference to Circulating Tumour Cells in Pre and Post Therapy. (2013).
42. **Sanchit Mittal**, MS General Surgery: Expression of Vitamin D Receptors and Levels of 1,25 (OH) Vitamin D₃ in Carcinoma Gall Bladder and Effect of Concomitant Administration of Oral Vitamin D with Standard Chemotherapy with special reference to Circulating Tumour Cells in Pre and Post Therapy. (2013).

43. **Akshay Anand**, MS General Surgery: Study of Androgen Receptor status in Breast Cancer in Indian female population with reference to young Indian females and response of various subtypes to standard Taxane /Anthracycline based chemotherapy regime (2013).
44. **Abhishek Kumar Singh**, MS General Surgery:P16 Expression and human papilloma virus infection in head and neck cancer with special relation to Clinicopathological characteristics and response to treatment (2014).
45. **Amit Kumar Srivastav**, MS General Surgery: Circulating level of free DNA In serum of patient with carcinoma gall bladder with special relation to Clinicopathological status and stage of the disease (2014).
46. **Mudit Mehrotra**, MS General Surgery: Study of serum testosterone and p- glycoprotein expression in breast cancer in Indian female population with reference to premenopausal and postmenopausal status and the response and response of various subtypes to standard taxane /anthracycline based chemotherapy regime (2014).
47. **Ravindra Kumar Bind**, MS General Surgery: Expression and clinical significance of epithelial growth receptor in gall bladder cancer patients study from an endemic area (2014).
48. **Joy L Miller**, MS General Surgery: Study of CD24 and CD44 expressions in breast cancer in Indian female population with reference to young Indian female and response to various subtypes to standard taxane /anthracycline based chemotherapy regime (2014).
49. **Dr Sudaiv Nagzarkar**. MS General Surgery, Circulating levels of cell free DNA in serum of patients with oral cancer with special relation to clinico-pathological status and stage of the disease. (2015)
50. **Dr Mallika Dhanda**, MS General Surgery. Circulating level of cell free DNA in serum of patient with breast carcinoma with special relation to Clinico-pathological status and stage of the disease. (2015)

MCh (Neurosurgery)

51. **Pramod Kumar Singh**, MCh Neurosurgery: A clinical evaluation of CP angle tumors.
52. **Anil Chandra**, MCh Neurosurgery: Surgical management of Pituitary tumors by trans-Spheroidal route- prospective and retrospective study.

53. Manzar Kamal Sardar, MCh Neurosurgery: Endoscopic intervention in the treatment of post –TBM (Tuberculosis Meningitis) hydrocephalus (2005).

DM (Neurosurgery)

54. Dr Vikram V. Holla, DM (Neuro). Clinical, Electro-myographic, Histopathology profile of acute muscle dysfunction with particular reference to Dengue Fever. (2015)

MCh (MCh Surgical Oncology)

55. Vijay Kumar, MCh Surgical Oncology: Over expression of epidermal growth factor receptor -1 in carcinoma breast and its correlation with response to chemoradiation (2007).

56. Sameer Gupta, Surgical Oncology: Study of Bimolecular characteristics of carcinoma gall bladder and its Clinicopathological correlation (2012).

57. Jaipal Reddy Pogal, Surgical Oncology: Clinicopathological correlation of ER, PR, Her-2 Neu status in carcinoma breast (2012).

58. Sivaprakash R, Surgical Oncology: Clinicopathological correlation of tumor thickness in oral squamous cell carcinoma (2012).

59. Jaswant Jain, Surgical Oncology: Predictors of response to neoadjuvant chemotherapy in oral squamous cell carcinoma (2013).

60. Sindhu V.A. Surgical Oncology: Predictors of response to neoadjuvant chemotherapy in epithelial ovarian cancers (2013).

61. Naseem Akhtar, Surgical Oncology: Clinicopathological study of HPV in oral squamous cell carcinoma (2013).

MD (Obstetrics & Gynecology)

62. Anamika Narula, Obs& Gynae: Comparison of therapeutic response of estrogen vaginal tablet with isoflavone vaginal gel in postmenopausal women with atrophic vaginitis (2011).

63. Sakshi Agrawal, MD Obstetrics & Gynecology: Comparison of Liquid based cytology with conventional cytology for detection of cervical neoplasia in menopausal women (2012).

MD (Tuberculosis & Respiratory Diseases)

64. Thakur Shardulam, Respiratory medicine: To study the role of medical Thoracoscopy in patients of suspected malignant pleural effusion (2011).

65. Rahul Srivastava, Pulmonary Medicine: A Study to Evaluate Asbestos Burden in Lungs and Pleural Malignancies (2011).

66. Dr Kshetrimayum Silpa. Department of respiratory medicine A Study of lung cancer profile and evaluation of EGFR expression, its clinicopathological significance and correlation with Gefitinib therapy. (2015)

MDS Thesis:

67. Ashish Mahendra, MDS: Epidermal growth factor receptor protein in immunohistochemical study for oral pre-cancerous and cancerous lesions (2010).

M Phil Thesis guided:

68. ShobhanaVaish: Role of tumor regulatory cells in oral cancer. (2012)

69. Ashok Agarhari: Correlation of radiation & Chemotherapy response with EGFR 1 expression in Glioblastoma Multiforme. (2012).

📄 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 Biotechnology, Era's Medical College, Lucknow)	Genetic approach to precise carrier detection of hemophilia A in Indian population
5.	Nitin Shukla (Scientist 'B' NCL, Pune)	Role of <i>Cysticercus fasciolaris</i> 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	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

RESEARCH WORK:

Neuropathology:

- P53, Cyclin D1, PRL3, Mi RNA, MMPs etc expression in CNS neoplasms
- Proliferative cell markers, PCNA, and cytogenetics analysis in gliomas
- FAS ligand and FAS expression in high-grade Astrocytoma and tumour cell lines.
- Gene Therapy of Gliomas : development of animal model for gliomas, Intra-arterial delivery of adenoviral vectors, Expression of LacZ in rat gliomas by Xgal staining of frozen sections of brain after delivery of adenoviral vectors, procedures including PCR, cloning, transformation and purification involved in construction of vectors
- Morphometric analysis of Micro vessel density in the grade 2 vs. grade 3 astrocytomas
- Micro vessel Morphometry in CNS tuberculomas and correlation with VEGF expression,

correlation with angiogenesis in MR studies

- Multimodal approach to diagnosis of brain abscesses: microbial studies, histology, image analysis for morphometric measurements, PCR, MR imaging and MR spectrometry.
- Fetal Brain studies in histology, immunohistochemistry and Morphometry and its correlation with Diffusion tensor imaging and MR scans.
- Cytokines and typing of immune response in Guillian barre syndrome : in a chicken model

Frozen Sections:

- Preoperative diagnosis
- Enzyme Histochemistry for Muscle diseases and Hirschsprung's disease.

Breast cancer:

- EGFR expression in breast carcinoma
- ER PR and Her2/neu expression in Breast Carcinoma

Thyroid cancer:

- Karyotyping of thyroid cancers.
- Evaluation of Cytology vs. frozen sections in thyroid tumour diagnosis
- Endocrine Pathology:
- ER and PR expression in endocrine tumors

Oral Pathology:

- Immunotyping of lymphocytic infiltrates in oral ca
- Application of Nano imaging techniques to oral cancers
- VEGF, Cyclin D1, P53 etc. expression in oral cancer: relationship to prognosis, grading and survival

GI pathology:

- H Pylori infection and relationship to ca
- FIT protein expression in small GI biopsies : gastritis vs. carcinoma
- Ache enzyme Histochemistry and immunohistochemical studies in Hirschsprung's disease.

Lung pathology:

- Nm23 expression in Lung cancers
- Evaluation of thoracoscopic biopsies in diagnosis of Lung cancers and inflammatory lesions

- ADAM 33 gene polymorphisms and IHC expression of ADAM 33 in Bronchial asthma

Gynaec Pathology:

- Morphometric studies in endometrial biopsies for evaluation of endometrial hyperplasia
- Marker expression to evaluate endometrial receptivity in Infertility Incl uroplakin , interferon's etc
- Thin Prep cytology for early diagnosis of cervical intraepithelial neoplasia , HPV testing and P16 analysis

Neurocysticercosis (NC)

- Development of a new ELISA & DOT assay test: a new diagnostic ELISA using an alternate source of antigen. This test has been validated in hospital based setting in the diagnosis of Neurocysticercosis.
- Population screening for prevalence of neurocysticercosis in and around Lucknow
- Local Immune response in Cysticercosis. Lymphocyte typing and serum cytokines

Genetic studies in Hemophilia A:

- Polymorphism screening using PCR- RFLP assay for detection of Hemophilia A carriers
- Inverse PCR for Intron 22 inversion mutation detection
- Development of a protocol for screening of carriers for Hemophilia A
- Social study regarding attitudes, beliefs and demographic parameters in Indian cases, families and carrier women with hemophilia A
- Small mutation detection in diagnosis of hemophilia A
- New method for detection of intron 22 inv mutation

Cytogenetic studies: In various tumours and hematological malignancies including chronic myeloproliferative disorders, AML, ALL, lymphomas, Thyroid tumors, CNS gliomas.

🏠 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:

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.