

Curriculum Vitae

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Official Address: Department of Pathology, Dr. Ram Manohar Lohia Institute of Medical sciences, Vibhuti Khand, Gomti Nagar, Lucknow.U.P. 226010

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

Designation: 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

- ❏ **Professor and Head**, Dept. of Pathology, Dr. Ram Manohar Lohia institute of Medical Sciences, Lucknow, 14.01.11 to till date
- ❏ **Director**, Dr. Ram Manohar Lohia institute of Medical Sciences, Lucknow, 14.09.13 to 07.09.15.
- ❏ **Dean**, Dr. Ram Manohar Lohia institute of Medical Sciences, Lucknow, 21.02.11 to 02.11.15.
- ❏ **Professor**, Dept of Pathology, Upgraded K G medical College, CSM Medical University, Lucknow, 10.02.01 to 13.01.2011
- ❏ **Associate Professor**, Dept. of Pathology, K.G.Medical College, Lucknow, 6-2-99 to 09/02/2001
- ❏ **Assistant Professor**, Dept. of Pathology, King George Medical College, 06.08.94 – 05.02.99
- ❏ **Post doctoral Fellow**, Molecular Neuro-oncology Unit, Massachusetts General Hospital, Harvard University, Boston MA USA, and 1st Jan 1997 to 30th June 1997
- ❏ **Lecturer**, Dept. of Pathology, King George Medical College 06.08.91 to 05.08.94
- ❏ **Consultant Pathologist**, Fatima Hospital, Lucknow 01.12.89 to 05.08.91

AWARDS AND HONORS

- ✚ **Merit Scholarships in MBBS** Ist, IInd and Final Professionals.
- ✚ **Ist in order of merit at the MBBS entrance exam at AMU, Aligarh.**
- ✚ **University Medals for highest marks in SPM, Gen Medicine and Forensic Medicine, 1985.**
- ✚ **President of India's Silver Medal** for best Woman candidate at the University, 1985.
- ✚ **Mukherjee Gold medal for best thesis** in MD Pathology, 1989.
- ✚ **KB Kunwar Memorial Award for Best Paper presented** in Junior Group at Lucknow, 1988.
- ✚ **Best Paper award at UP Chapter** of the **Indian Association of Pathologists** and Microbiologists, 1988.
- ✚ **K.B.Kunwar memorial award** for best paper presented in the senior group, at Lucknow, 1992
- ✚ **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 24 to 28th Sept 2002.
- ✚ **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. **Member USCAP 2016**
2. **International Fellow of the College of American Pathologists 2010**
3. **Executive member of Indian College of Pathologists**
4. **Fellow of the Indian College of Pathologists**
5. **President UP Chapter of IAPM 2014-16**
6. **President UP Chapter Indian Association of Cytologists 2015-16**
7. **Executive member Neuropathology Society of India since 2015-continuing**
8. **Member Executive Council, Integral University, Lucknow: 2014 -continuing**
9. **Chairman Research Committee, Integral University, Lucknow 2016 - continuing**
10. **Life member of Indian Association of Pathologists and Microbiologists**
11. **Life member of Indian Association of Cytologists**

12. Life member of Indian Medical Association
13. Life member of Neurological Society of India
14. Member India CLEN
15. Member UP Chapter of IAPM
16. Member UP Neurological Society
17. Member PhD committee at SGPGIMS 2011-16
18. Member research committee SGPGIMS, Lucknow 2007-16
19. Member Award Committee SGPGIMS 2009-12
20. Member Ethical Committee Era's Lucknow Medical College and Hospital. 2009-16
21. Member Ethics committee Babu Banarasi Das University, Lucknow 2015- continuing
22. Member Editorial Board Indian Journal of Pathology and Microbiology 2014- continuing
23. Associate Editor Clinical Epidemiology and global health 2014-continuing

🏠 RESEARCH PROJECTS:

Completed and Current Research projects:

Completed Research Projects: (1995-2015)

🏠 As Chief Investigator: 16

1. Immuno-histochemical expression of P53 expression in Human CNS Malignancies, from the DST, New Delhi, and amount sanctioned: **Rs 1, 90,000.**
2. An evaluation of ELISA in the diagnosis and follow-up of Neurocysticercosis, from UPCST, Lucknow **Rs 5,00,000.**
3. Studies on cerebral micro vessels during experimental malaria and effect of antimalarial treatment , sanctioned by ICMR, 1997-99 Amount sanctioned: **Rs 2,50,000**
4. Immunoblot Analysis of Cysticercus fasciolaris antigen in the diagnosis of Neurocysticercosis., ICMR, New Delhi , (1998-2000) Amount sanctioned: **Rs 6,00,000.**
5. Collaborative Project in Biotechnology with **Excel Technologies, Alabama, USA.** Dec 03-Nov 04. Approx **cost: US\$5000/ per annum.**
6. Genetic Approach To Precise Carrier Detection Of Hemophilia A In India; DST, New Delhi ; Feb 03-Feb 06. Total cost : **Rs. 17,00,000.**
7. ELISA in the Assessment of Therapeutic Response in Neurocysticercosis. IndiaCLEN USAID project. Sept 03-Oct05, **Approx cost US\$8,000/.**
8. "New Polymorphism Based Gene Tracking in Patients of Hemophilia A In Indian Population" DBT Postdoctoral fellow, Nov'03- Nov'06. **Cost Rs.6,60,000.**

9. Field Evaluation of ELISA and New EITB Assays In A Field Survey For Systemic Cysticercosis Around Lucknow. Council of Science and Technology, UP. May '04 to May'06. **Total cost Rs. 4,00,000**
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, sanctioned by DBT, New Delhi. May'05-May'08. Total cost **Rs. 42, 91,000.**
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. Liquid Based Cytology: Assesment of P16 and DNA Ploidy in Cervical Neoplasia Correlation With p16 Promoter Hypermethylation. Sanctioned by **UPCST, Lucknow.** From 2013-2016, Total cost **Approx. 10 lakhs.**

✚ **As Co- Investigator:**

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. **Intramural project KGMU, Lucknow**
3. Immunopathogenesis of Campylobacter Jejuni induced paralysis resembling Guillain – Barre Syndrome in Chickens. **ICMR New Delhi. Completed** in 2010.

✚ **CURRENT ONGOING RESEARCH PROJECTS:**

✚ **As Principal Investigator: 6**

S. No	Project Title	Duration	Cost	Agency
1.	Rajiv Gandhi National Fellow. Under the project entitled "Tumor suppressor gene	2012-2017	Approx 15lakhs	UGC , New Delhi

	expression in HPV positive and hpv negative Oral Squamous Cell Carcinoma correlation with Clinicopathological Variables "			
2.	DST-INSPIRE Fellow, Under the project entitled "Diagnostic evaluation of circulating free DNA and circulating tumor cells in gall bladder cancer ".	2013-2018	Approx.15 lakhs	DST, New Delhi
3.	SERB Young Scientist Project awarded to Dr Shikha Tewari. "Effects of Diagnostic low dose radiations on peripheral blood lymphocytes."	2014-17	Approx 28 Lakhs	SERB DST, New Delhi.
4.	Maulana Azad National Fellow, Under the project "To study the effects of diagnostic radiations on human peripheral blood lymphocytes".	2014-2019	Approx. 19 lakhs	UGC , New Delhi
5.	FVIII inhibitors in Hemophilia A: Correlation with gene mutation and cytokine profile.	2015-2017	43Lacs	SERB, DST, New Delhi
6.	Polymorphism study of CYP and GST Gene Family and it association with Upregulation of cell death in Non small Cell Lung carcinoma	2016-2019	Approx19 lakhs	DST, New Delhi

✚ As co-investigator: 3

1.	"Immunopathogenesis of Neurocystercosis in naturally infected Swine"	PI- Prof. K.N. Prasad Co-PI Prof. Gupta RK & Prof. Husain N.	DST, India
2.	"Clinical, Immunohistochemical and sonological assesement 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

✚ Co investigator in other extra and intra mural projects: 6

ACADEMIC ACHIEVEMENTS:

✚ Ph.D Student Guided/ Under guidance :>30

✚ MD/MS /M.Ch. Students Guided / Under Guidance: 75

✚ M Phil Thesis guided/ under guidance: 3

✚ M.Tech / M.Sc Thesis Guided/ Under Guidance-134

CONFERENCES/WORKSHOPS attended : >100

CONFERENCES, WORKSHOP 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 31Jan 2012.
3. Meeting of the Lucknow Pathologists Group organized on 5 February 2012.
4. Update on **Screening of Breast and Cervical Cancer** at Dr. Ram Manohar Lohia Institute of Medical Sciences, Lucknow, on 5Feb 2013.
5. 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 5-7 July 2013.
6. **Organising chairperson** UP PATHCON 2014 (Annual conference of UP Chapter of Indian Association of Pathologists & Microbiologists) 12-13 Oct 2014.
7. Master Class in **Thyroid Pathology**. New stories in Thyroid Pathology and slide session. Organized by Department of Pathology, RMLIMS, Lucknow.
8. **Flowcytometry Workshop** on **“Clinical applications on Flow Cytometry”** Organized by Department of Pathology, RMLIMS-Beckman Coulter India Pvt. On 8th -9th September 2016.

INTERNATIONAL VISITS, TRAININGS, SESSION CHAIRED 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, Bangladesh.**
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 12 May 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, 30 Sept -5th Oct 2012, **Cape town South Africa.**
9. **Invited lecture** on “**Cancer Diagnosis and prediction : Application of Nanotechnology**” on 6th Oct 2012 at the **University of Johannesburg, Johannesburg, South Africa.**
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.**
14. Presentation at conference of European **Research Organisation on Genital Infection and Neoplasia (EUROGIN)- 2015.** HPV related Cancers, Translating Research Innovations into Improved Practice. Congress 4th-7th February 2015, **Sevilla, Spain.**
15. **Guest Speaker** on “**Implementing Molecular diagnosis of lung cancer- a need for better care**” at 3rd SACH Conference (SAARC Academy of Cytopathology and Histopathology), 2nd-4th October 2015, **Dhaka, Bangladesh.**
16. **Presentation** at Conference on Pathology and Laboratory Medicine on the forefront of personalized medicine organized by XXVIII World Congress The world association of society of pathology and Laboratory (WASPaLM 2015). 18th-21st November 2015, **Cancun, Quintana, Mexico.**
17. **Resource person and Guest Lectures** at 4th International CMC-Path-CME 2016 on **Breast Pathology and Neurooncology.** 27-28th March 2016 at **Chittagong Medical College, Chittagong, Bangladesh.** Lectures delivered at conference:
 - a) **Breast Pathology diagnostic issues: Classifying hyperplasia, atypical hyperplasia, and low grade DCIS, Grading Carcinoma.**
 - b) **Carcinoma Variants, Use of Immunohistochemistry & molecular pathology in the Diagnosis and Prediction of Breast Lesions.**

- c) **Slide Session on Breast Pathology, ER, PR and Her2 reporting.**
- d) **Classification, Histologic Type & Grading of Meningioma.**
- e) **Diagnosis and Grading of Adult Gliomas.**
- f) **Medulloblastoma and Embryonal tumors of CNS.**
- g) **Grossing of Gastro-pancreatic(whipple's) resection.**
- h) **Slide discussion CNS Tumors.**

18. **Session Chairperson, Guest Speaker and Lectures** at Nepal Medical Association Pre Conference CME on Breast Pathology held at BPKIHS, Dharan, Nepal. September 16, 2016.
Lecture on:

- a) **“Diagnostic Issues in Mammary Hyperplasia, Atypia and DCIS”.**
- b) **“Liquid Biopsies in Cancer-How far has the story moved”.**

19. **Attended and presented** on and At College of American Pathologists (CAP16) The Pathologists Meeting 2016 organized by **College of American Pathologists (CAP)**. September 25th- 28th, 2016 **Wynn Las Vegas, Las Vegas, Nevada, USA.**

- a) **“Circulating Free DNA as Diagnostic Biomarker in Gall bladder carcinoma”.**
- b) **“Lymphoma Kinase (ALK) gene rearrangement in Lung Cancer with Adenocarcinoma Phenotype: A tertiary care center Study in India.”**

NATIONAL CONFERENCES: SESSION CHAIRED, INVITED LECTURES

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. **Chaired Two sessions** at National CME in Cytology and Hands on workshop on Immunocytochemistry, Era's Lucknow Medical College and Hospital, Lucknow, 30-31July 2011
14. Chairperson International Academy of Pathology Indian Division (IAP-ID), M. P Shah Medical College and Pathologists of Jamnagar, Gujarat, 13 Dec2012.
15. **Invited Speaker** 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.
16. Multiparametric **Flow Cytometry in Hematological Disorders** .SGPGI, Lucknow, 20th-22nd Sept 2013
17. **6th Annual Conference of the Indian Society of Neuro-oncology**, ISNOCON 2014 at SGPGI, Lucknow, 11-13 April 2014.
18. **Guest Lecture** on "**Liquid based Gynaec Cytology**" at National CME: Short Course of Thyroid Cytology &Advances in Cytology (MCI sponserd CME) Dept of Pathology Era's Lucknow Medical College, Lucknow, and 7-8 Feb 2012.
19. 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.
20. Invited lecture at "**Update on Screening of Breast and Cervical Cancer**" at Dr. Ram Manohar Lohia Institute of Medical Sciences, Lucknow,on 5Feb 2013.
21. **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.
22. **Invited lecture** on "**Lung Tumor Markers**" at National Conference on Pulmonary &skin Pathology, Era's Lucknow Medical College, Lucknow, 14-15 Oct 2013.
23. Invited Lecture SACH conference and second international CMC-Path –CME on cytopathology and histopathology 2013
24. 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. 12-13Oct 2014.

25. **Vice President** at **Indo-US Emergency Medicine Summit, INDUSEM2014** at King George's Medical University, Lucknow, 15-19Oct 2014.
26. **Chairperson** at 27th Annual National Conference & International CME, ISARCON at King George's Medical University, Lucknow, 25th -27th Nov.2014.
27. **Certificate of honor for guest lecture** at 2nd SACH conference and 3r international CMC-path-CME on cytopatology and histopathology 2014(SACH-CME on head and neck tumors 2014)
28. **Participated as faculty** at Indian academy of cytologists (UP Chapter 2013 1st annual CME program Sept13, 2013)
29. Invited lecture "**Women power in cutting edge biotechnology** " at Amity University 2015.
30. **Faculty** at, The third International Conference on Primary immunodeficiency diseases (ICPID 2015), 21st-23rd, Feburary 2015, Chennai, India.
31. **Invited Lecture** on "**Recent advances in renal tumor pathology**" in CME on Management of Renal cell cancers, at Department of Urology, 16th May 2015, KGMU Lucknow
32. **Session Chairperson** at workshop on "Molecular Techniques in Pathology" 12th September 2015 at SGPGIMS , Lucknow.
33. **Member Advisory board.** Annual Conference of Indian Academy of Cytopathologists (U.P Chapter) 13th September 2015 (UP CYTOCON 2015).Sunday 13th Sept 2015. Teerthanker Mahaveer University, Moradabad.
34. **Invited Lecture** on "**Clinico Pathological Case discussions**" at DNA UP-UK Neuro MIDCON 2015CME, 25th-27th September, Mussoorie, Uttrakhand.
35. **Guest faculty, Chairperson, and Moderator of CME session** "**Oral cancer Role of Pathologist**". at APCON 2015, IAPM-Kerala Chapter. 3rd -6th December 2016. Kochi, Kerala.
36. **Guest Speaker** "**Histological analysis of nerve biopsy in mononeuritis multiplex**"at. 1st Annual conference of Neuropathology Society of India (NAPSICON 2015). 19th & 20th December, 2015, Hyderabad.
37. **Invited Speaker** "**Scientific updates and tools in Histopathological Evaluation of Oral cancer**". International Oral Pre Cancer& Cancer Congress (IOPCCC), 12th Feburary 2016, KGMU, Lucknow.
38. **Member panel** in Panel discussion on Tumor Board (Early Breast Cancer) and **Invited Lecture** "**Guidelines for histopathology reporting in breast cancer**" SGPGI Breast Course-2016 13th February 2016. SGPGI, Lucknow.
39. **Session Chairperson** at Bench to bedside: Translational Medicine, 10th International undergraduate medical students research conference of INFORMER. Held at Era's Lucknow Medical College and Hospital, 14th July 2016.
40. **Lecture** at Indian College of Pathologists (ICP) 2nd Fellows Meeting & Retreat 2016. 13th-15th August 2016 Candolim, Goa.
41. **Guest Speaker** "**Non small cell Carcinoma Lung: cytology and beyond**" at U.P Cytocon-2016, 4th Annual conference Indian academy of Cytopathologist (U.P. chapter, 10th September 2016. B.R.D. Medical college, Gorakhpur.

42. **Chairperson** at U.P Cytocon-2016, 4th Annual conference Indian academy of Cytopathologist (U.P. chapter), 10th September 2016. B.R.D. Medical College, Gorakhpur.
43. **Speaker** on “**Molecular Diagnosis in Thyroid Pathology**” at Master Class in Thyroid Pathology. New stories in Thyroid Pathology and slide session. Organized by Department of Pathology, RMLIMS, Lucknow.
44. UPPATHCON 2016, XXIV annual conference of Indian Association of Pathologists and Microbiologists (IAPM) UP Chapter, 22nd -23rd October 2016, Jhansi.
 - a) **Chairperson of Session** on “**Glioma: Integrated Diagnosis and the New WHO 2016 Modification of Classification**”.
 - b) **Guest Lecture** on “**Current Clinical application of IHC and Molecular Characterization of Breast carcinoma**”.

PUBLICATIONS

Book/Manuals edited: **2**

Book chapters/ General Articles: **4**

Publications: **176**

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**, Manisha Bagchi, 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 if 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.
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170. Kiran Preet Malhotra, Saumya Shukla, **Nuzhat Husain**, Madan Lal Brahma Bhatt. Combined Squamomelanocytic Tumor of the Plantar Surface of the Foot: Histogenetic Insights. *The American Journal of dermatopathology* 09/2015.
171. Soni P, **Husain N**, Chandra A, Ojha BK, Bhatt ML, Gupta RK. Do phosphatase of regenerating liver-3, matrix metalloproteinases-2, matrix metalloproteinases-9, and epidermal growth factor receptor-1 predict response to therapy and survival in glioblastoma multiforme? *Indian J Pathol Microbiol.* 2016 Jul-Sep;59(3):287-93.
172. Tewari S, Khan K, **Husain N**, Rastogi M, Mishra SP, Srivastav AK. Peripheral Blood Lymphocytes as In Vitro Model to Evaluate Genomic Instability Caused by Low Dose Radiation. *Asian Pac J Cancer Prev.* 2016;17(4):1773-7.
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174. Malhotra KP, Shukla S, **Husain N**, Bhatt ML. Combined Squamomelanocytic Tumor of the Plantar Surface of the Foot: Histogenetic Insights. *Am J Dermatopathol.* 2016 May;38(5):396-7.

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

MD/MS/MCh/MPhil Students Guided / Under Guidance: 73

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. **Uruj 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.
33. **Dr Vani**, MD Pathology. Comparison of Cell Block versus biopsy for detection of mutant EGFR and ALk protein in Non Small cell carcinoma Lung. Oct, 2016
34. **Dr Renu Varshney**, MD Pathology. MGMT Gene Hypermethylation and IDG1 expression in Astrocytoma & Glioblastoma Multiforme. Oct 2016.
35. **Dr Tripti Srivastava**. MD Pathology. Cell free tumor DNA as marker of response to Chemoradiotherapy in locally advanced head and Neck squamous cell carcinoma.
36. **Dr Anshima Singh**. MD Pathology. Inhibitors in inherited Haemophilia A

37. **Anshuman Darbari**, MS Surgery: A comparative analysis of morphological investigations of Thyroid tumors
38. **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).
39. **Narendra Kumar**: MS General Surgery: Clinicopathological; study of various gastrointestinal perforations (2008).
40. **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).
41. **Zahir Ahmed**, General Surgery: VEGF as a marker for improvement in angiogenesis and collateral circulation post ilizarov procedure in peripheral arterial occlusive disease (2011).
42. **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).
43. **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).
44. **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).
45. **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).
46. **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).
47. **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).
48. **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).
49. **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).
50. **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).
51. **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).
52. **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).

53. **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)
54. **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)

55. **Pramod Kumar Singh**, MCh Neurosurgery: A clinical evaluation of CP angle tumors.
56. **Anil Chandra**, MCh Neurosurgery: Surgical management of Pituitary tumors by trans-Spheroidal route- prospective and retrospective study.
57. **Manzar Kamal Sardar**, MCh Neurosurgery: Endoscopic intervention in the treatment of post – TBM (Tuberculosis Meningitis) hydrocephalus (2005).

DM (Neurosurgery)

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

MCh (MCh Surgical Oncology)

59. **Vijay Kumar**, MCh Surgical Oncology: Over expression of epidermal growth factor receptor -1 in carcinoma breast and its correlation with response to chemoradiation (2007).
60. **Sameer Gupta**, Surgical Oncology: Study of Bimolecular characteristics of carcinoma gall bladder and its Clinicopathological correlation (2012).
61. **Jaipal Reddy Pogal**, Surgical Oncology: Clinicopathological correlation of ER, PR, Her-2 Neu status in carcinoma breast (2012).
62. **Sivaprakash R**, Surgical Oncology: Clinicopathological correlation of tumor thickness in oral squamous cell carcinoma (2012).
63. **Jaswant Jain**, Surgical Oncology: Predictors of response to neoadjuvant chemotherapy in oral squamous cell carcinoma (2013).
64. **Sindhu V.A.** Surgical Oncology: Predictors of response to neoadjuvant chemotherapy in epithelial ovarian cancers (2013).
65. **Naseem Akhtar**, Surgical Oncology: Clinicopathological study of HPV in oral squamous cell carcinoma (2013).

MD (Obstetrics & Gynecology)

66. **Anamika Narula**, Obs& Gynae: Comparison of therapeutic response of estrogen vaginal tablet with isoflavone vaginal gel in postmenopausal women with atrophic vaginitis (2011).
67. **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)

68. **Thakur Shardulam**, Respiratory medicine: To study the role of medical Thoracoscopy in patients of suspected malignant pleural effusion (2011).
69. **Rahul Srivastava**, Pulmonary Medicine: A Study to Evaluate Asbestos Burden in Lungs and Pleural Malignancies (2011).

- 70. 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:

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

M Phil Thesis guided:

- 72. ShobhanaVaish:** Role of tumor regulatory cells in oral cancer. (2012)
- 73. 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	Liquid Based Cytology Assessment of P16 and DNA Ploidy in Cervical Neoplasia: Correlation with P16 Promoter Hypermethylation.
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:	Prevalance of Factor VIII inhibitors in Indian cases with Haemophilla A and correlation with Cytokine profile.
28.	Anumesh Pathak	Polymorphism of CYP and GST Genes and it association with Lung carcinoma

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, AR nm23 and several markers in breast cancer
- ER PR and Her2/neu expression, Molecular typing of 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
- HPV and Oral cancer
- Circulating Free DNA in Oral cancer

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.
- Gall Bladder cancer: IHC and genetic profiling of driver mutations
- Circulating Free DNA in GBC

Lung pathology:

- Nm23 expression in Lung cancers
- Evaluation of thoroscopic 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, Ki 67, DNA Poidy

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.