Curriculum Vitae

1. PERSONAL PARTICULARS

Name	Dr. VAISHALI SURI (nee SOOD)
Date of birth	2nd Feb, 1972
Sex	Female
Place of birth	New Delhi
Nationality	Indian
Marital status	Married
Present Institution	All India Institute of Medical Sciences
Post	Professor, Neuropathology
Residential address	S-205, GK 2, Ground Floor, New Delhi

Address for correspondence:

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Field of interest: : Neuropathology with special reference to

- Neuro- oncology,
- Pediatric Neuropncology

3. CAREER HISTORY

Institution	Post Held	From	To
Govt. Medical College, Patiala	Junior Resident	Sept. 1996	Sept. 1999
G.B Pant Hospital, New Delhi	Senior Resident	7th Jan. 2000	6th Jan 2003
G.B Pant Hospital, New Delhi	Senior research Associate,	7th Jan 2003	23rd Oct 2003
I.H.B.A.S, Delhi	Assistant Professor, Neuropathology	24th Oct 2003	3rd Oct 2005
A.I.I.M.S, New Delhi	Assistant Professor, Neuropathology	4th Oct 2005	30th june 2009
A.I.I.M.S, New Delhi	Associate Professor Neuropathology	1st July 2009	30th june 2012
A.I.I.M.S, New Delhi	Additional Professor, Neuropathology	1st July 2012	30th June 2016
A.I.I.M.S, New Delhi	Professor Neuropathology	1st July 2016	Till date

4. ACADEMIC AWARDS AND HONOURS

As main author

1. **ISNO annual award** for Outsatnding work in Neurooncology at the at 10th annual conference of the Indian society of Neuro-Oncology held at AIIMS, New Delhi, 6th-8th April 2018.

2. Elected as a **Member of National Academy of Medical Sciences** in 2014

3. **Dr. NC Nayak Talented young Pathologist Award for year 2009** in XXIVth Annual Conference-Delhi Chapter-IAPM UCMS and GTB Hospital, Delhi where I presented a study entitled "Effect of bone marrow derived mononuclear cells on nerve regeneration in rat sciatic nerve transection model", authors Vaishali Suri, Arti Srivastava, , RK Goel *, A Suri *, S Mohanty **, MC Sharma, C Sark

Awards to students for research work carried out under my guidance

1. Jyotsna Singh got 1st prize in the Basic / Translation neuro-oncology category for presentation entitled " Epigenetic profiling of meningiomas identifies clinically distinct molecular subgroups" at the 10th Annual Conference of the Indian Society of Neuro-Oncology, held at Gurgaon , from 13th-14th August 2022.

2. Prerna Jha got 2nd prize in the Basic / Translation neuro-oncology category for presentation entitled "Long noncoding RNA and mRNA coexpressionnetwork reveals novel players in PleomorphicXanthoastrocytoma"abstract presentation the 10th Annual Conference of the Indian Society of Neuro-Oncology, held at Gurgaon , from 13th-14th August 2022.

3. ImanDandapath got 2nd prize in the AYA category for presentation entitled "study on Evaluation of KIAA1549-BRAF fusions in pilocytic astrocytoma with clinicopathological correlationat" at 10th Annual Conference of the Indian Society of Neuro-Oncology, held at Gurgaon , from 13th-14th August 2022.

4. Shalini Suman got 2nd prize in clinical catogary for paper entitled "assessment of CDKN2a homozygous deletion in primary versus recurrent astrocytic tumors"at 10th Annual Conference of the Indian Society of Neuro-Oncology, held at Gurgaon , from 13th-14th August 2022

5. Iman Dandapath got 2nd prize in oral paper presentation entitled "Insights of molecular biology and immune microenvironment of pleomorphic xanthoastrocytoma" at the 5th annual conference of NPSI (AOCN NPSICON 2021) held in virtual mode from 24th to 26th September 2021.

6. Jyotsna Singh got 2nd Prize for Oral presentation entitled "Gene Expression Based Profiling of Pleomorphic Xanthoastrocytoma Highlights Two Prognostic Subgroups" in DNACON 2021 held on 5th – 6th February at AII INDIA INSTITUTE OF MEDICAL SCIENCE New Delhi.

7. Iman Dandapath got first prize for oral presentation entitled "Molecular Characterization of Idh Wild Type Diffuse Astrocytoma's: Potential Of The Cimpact-Now Guidelines." in DNACON 2021 held on 5th – 6th February at AII INDIA INSTITUTE OF MEDICAL SCIENCE New Delhi.

8. Aruna Nambirajan won first prize for oral paper presentation – neoplastic for 'Clinicopathological evaluation of pd-l1 expression and cytotoxic t-lymphocyte

infiltrates across molecular subgroups of intracranial ependymomas' at NPSICON-2019 held at PGIMER, Chandigarh, 15-17th February, 2019

9. Anju GS won third prize for oral paper presentation – neoplastic for 'NF2 hemizygous deletions and merlin loss in spinal ependymomas are not related to mTOR or Hippo pathway activation' at NPSICON-2019 held at PGIMER, Chandigarh, 15-17th February, 2019

10. Shraddanjali Satapati won first prize for poster presentation- neoplastic/case report for 'Primary Intracranial Malignant Ectomesenchymoma In An Adult: A Rare Case Report', at NPSICON-2019 held at PGIMER, Chandigarh, 15-17th February, 2019

11. Kalpana Kumari won first prize for poster presentation – non-neoplastic/case report for '' at NPSICON-2019 held at PGIMER, Chandigarh, 15-17th February, 2019

12. Shalini Kardam won third prize for poster presentation- non-neoplastic/case report for 'Juvenile neuronal ceroid lipofuscinosis-Report of two cases' at NPSICON-2019 held at PGIMER, Chandigarh, 15-17th February, 2019

13. Kavneet Kaur won first prize for poster presentation – neoplastic/original study for 'Spectrum of infantile tumors according to the WHO 2016 classification' at NPSICON-2019 held at PGIMER, Chandigarh, 15-17th February, 2019

14. Sudha Battu won 'Dr Sulimal Roy published paper award' for her paper 'Battu S, Kumar A, Pathak P, Purkait S, Dhawan L, Sharma MC, Suri A, Singh M, Sarkar C, Suri V. Clinicopathological and molecular characteristics of pediatric meningiomas. Neuropathology. 2018;38:22-33' at NPSICON-2019 held at PGIMER, Chandigarh, 15-17th February, 2019

15. Madhu Rajeshwari S. got the first best poster award for the poster entitled "Primary histiocytic sarcoma of brain- a rare occurrence" Madhu Rajeshwari, MC Sharma, V Suri, Chitra sarkar, at 10th annual conference of the Indian society of Neuro-Oncology held at AIIMS, New Delhi, 6th-8th April 2018.

16. Priyadarsani S got the third best poster award for the poster entitled 'Diffuse leptomeningeal glioneuronal tumor' at the 10th annual conference of Indian Society of Neuro-oncology held at All India Institute of Medical Sciences, New Delhi from 6 to 8th April 2018.

17. Agrima. S got the third best poster award for the poster entitled, "Over-expression of Programmed Cell Death Ligand (PD-L1) suggests negative outcome in RELA fusion ependymoms." Agrima Sharma; Prit Benny Malgulwar; Manmohan Singh; Vaishali Suri; ChitraSarkar; Mehar Chand Sharma at 10th annual

conference of Indian society of Neuro-Oncology held at AIIMS, New Delhi, 6th-8th April 2018.

18. Kavneet Kaur got the third best proffered paper award for paper entitled "Molecular classification of medulloblastomas in routine practice: Where to strike a balance?" at 10th annual conference of the Indian society of Neuro-Oncology held at AIIMS, New Delhi, 6th-8th April 2018.

19. Kalpana Kumari got NSI award for Best paper in Epilepsy entitled “mTOR Pathway Activation in Focal Cortical Dysplasia ” at 66th annual conference of Neurological society of India” : NSICON 2017 , 30th November to 3rd December 2017 , held at Nagpur .

20. Kalpana Kumari got Neuro Allied Sciences award for Best paper published in Neurology India, 2016 entitled “Role of mTOR pathway signalling in the pathogenesis of subependymal giant cell astrocytoma- A study of 28 cases ” at 66th annual conference of Neurological society of India” : NSICON 2017 , 30th November to 3rd December 2017 , held at Nagpur .

21. Kavneet Kaur got Herbert Krause Neuro-Oncology Award for study entitled "Diffuse midline gliomas: A clinicopathological and molecular genetic study" at the Annual conference of Neurological Society of India held at Nagpur, India from 30th November to 3rd December, 2017

22. Kavneet Kaur got Young scientists' award for study entitled "Association of IDH1, p53 and ATRX mutations with H3K27M mutations in midline gliomas" at the 14th meeting of the Asian Society for Neuro-Oncology held at Osaka, Japan from October 29th to 31st, 2017

23. Vikas Sharma was awarded President's Annual Award for best presentation in Basic Neuro-Oncology group for his paper entitled “Genome wide analysis of EZH2 mediated H3K27me3 target gene profile using ChIP-seq highlights differences between low and high grade astrocytic tumors as well as identifies SLC25A23 as a novel prognostic marker in glioblastoma” at 8th annual conference of Indian Society on Neuro-oncology(ISNO) held at hyderabad 1-3rd april 2016

24. Kaveet Kaur got Dr. V Ramalingaswami award for paper entitled “Adult medulloblastomas: A clinicopathological and molecular genetic study highlighting differences from their pediatric counterparts at 32th Annual Conference of DAPCON 2017 held on 26 th of March 2017, organised by Department of Pathology, Lady Hardinge Medical College, New Delhi.

25. Kalpana Sinha got Dr. H.D.Tandon Award for Best Poster Presentation at 32th Annual Conference of DAPCON 2017 held on 26 th of March 2017, organised by Department of Pathology, Lady Hardinge Medical College, New Delhi.

26. Gaurav Khanna got third prize for the poster entitled “Epithelioid Glioblastoma - a recently described rare entity: Series of seven cases at 32th Annual Conference of DAPCON 2017 held on 26 th of March 2017, organised by Department of Pathology, Lady Hardinge Medical College, New Delhi

27. Kalpana Kumari got NSI award for Best paper in Epilepsy entitled “mTOR Pathway Activation in Focal Cortical Dysplasia ” at 66th annual conference of Neurological society of India” : NSICON 2017 , 30th November to 3rd December 2017 , held at Nagpur .

28. Kalpana Kumari got Neuro Allied Sciences award for Best paper published in Neurology India, 2016 entitled “Role of mTOR pathway signalling in the pathogenesis of subependymal giant cell astrocytoma- A study of 28 cases ” at 66th annual conference of Neurological society of India” : NSICON 2017 , 30th November to 3rd December 2017 , held at Nagpur .

29. Kavneet Kaur got Herbert Krause Neuro-Oncology Award for study entitled "Diffuse midline gliomas: A clinicopathological and molecular genetic study" at the Annual conference of Neurological Society of India held at Nagpur, India from 30th November to 3rd December, 2017

30. Kavneet Kaur got Young scientists' award for study entitled "Association of IDH1, p53 and ATRX mutations with H3K27M mutations in midline gliomas" at the 14th meeting of the Asian Society for Neuro-Oncology held at Osaka, Japan from October 29th to 31st, 2017

31. Atreye Majumdar got third prize for her poster entitled “microRNA expression profiling of Gangliogliomas” at AIIMS Neurosciences Alumini Golden Jublee Congress held in AIIMS, New Delhi, 2015 from 23rd-24th November 2015

32. Vikas Sharma was awarded President's Annual Award for best presentation in Basic Neuro-Oncology group for his paper entitled “Genome wide analysis of EZH2 mediated H3K27me3 target gene profile using ChIP-seq highlights differences between low and high grade astrocytic tumors as well as identifies SLC25A23 as a novel prognostic marker in glioblastoma” at 8th annual

conference of Indian Society on Neuro-oncology(ISNO) held at hyderabad 1-3rd april 2016

33. Kaveet Kaur got Dr. V Ramalingaswami award for paper entitled "Adult medulloblastomas: A clinicopathological and molecular genetic study highlighting differences from their pediatric counterparts at 32th Annual Conference of DAPCON 2017 held on 26 th of March, organised by Department of Pathology, Lady Hardinge Medical College, New Delhi.

34. Kalpana Sinha got Dr. H.D.Tandon Award for Best Poster Presentation at 32th Annual Conference of DAPCON 2017 held on 26 th of March, organised by Department of Pathology, Lady Hardinge Medical College, New Delhi. cs

35. Gaurav Khanna got third prize for the poster entitled "Epithelioid Glioblastoma - a recently described rare entity: Series of seven cases at 32th Annual Conference of DAPCON 2017 held on 26 th of March, organised by Department of Pathology, Lady Hardinge Medical College, New Delhi

36. Aanchal Kakkar got Hindustan Ciba Geigy Epilepsy award paper entitled "Study of Clinicopathological Characteristics, and alterations in BRAF gene and mTOR signaling pathway in Dysembryoplastic Neuro Epithelial Tumors (DNETs) associated with Intractable Epilepsy" at the 64th Annual Conference of the Neurological Society of India (NSI) held in Hyderabad from 17th to 20th December 2015.
37. Suvendu Purkait got Herbert Krause Neurooncology Award for his paper entitled "Expression of DNA Methyltransferases (DNMTs) in Astrocytic Tumours: Its impact on EZH2 Expression and Correlation with Survival" at the 64th Annual Conference of the Neurological Society of India (NSI) held in Hyderabad from 17th to 20th December 2015.

38. Kavneet Kaur got first prize for her poster entitled "Molecular subgrouping and expression of miR-379/miR-656 cluster along with its transcriptional regulators inadult medulloblastomas" at the first Annual Conference of the Neuropathology Society of India (NPSICON) held in Hyderabad on 19th & 20th December 2015.

39. Prit Benny Malgulwar got second prize for his poster entitled "C11orf95-RELA fusions are the molecular signature of an aggressive subset of supratentorial ependymomas and drive NF-kB signalling pathway" at the First Annual

Conference of Neuropathology Society of India (NPSCION) held at Hyderabad on 19th & 20th December 2015.

40. Dr Suvendu Purkiait got first prize for paper entitled “Molecular classification and prognostic stratification of glioblastomas (gbms): a simplified approach for use in routine clinical practice at the 7th annual conference of ISNOCON held in Kochi from 26th-29th March 2015.

41. Dr Suvendu Purkait got 2nd price for presenting an oral paper entitled “E2H2 expression in glioblastomas (GBMs). Correlation with DNA methyl transferases , p16 loss and clinical outcome at 30th annual conference of IPAM , Delhi chapter, held in R.M.L hospital on 1st march 2015. Co-authors : Vikash Sharma , Supriya mallick , Anupam kumar , Prerna jha , Pankaj pathak,Dr. Ashish suri ,Dr. Vaishali suri, Dr.M C Sharma ,Dr. Chitra sarkar .

42. Dr Aanchal Kakkarr won the Dr. H D Tandon best oral paper award for the oral paper entitled "Primary bony tumors of the skull: A series of 125 " cases at the at 30th annual conference of IPAM , Delhi chapter, held in R.M.L hospital on 1st march 2015.
43. Dr. Madhu rajeshwari got Dr. V. ramalingaswamy best oral paper award for the oral paper entitled “ Is chromosome 1q gain of prognostic significance in intracranial ependymomas ? – A study of 81 cases “ in the 30th annual conference of IPAM , Delhi chapter, held in R.M.L hospital on 1st march 2015. Co-authors: Dr. M C Sharma , Dr.Aanchal kakkar, Dr.V. Suri, Dr.Chitra Co sarkar.

44. Kavneet Kaur got the first prize for oral paper entitled Glioneuronal tumors with neuropil like islands: first case series from India at the 17th annual conference of DNA held in New Delhi from Jan 31- Feb 1, 2015 . Kavneet Kaur, Aanchal Kakkar, Aruna Nambirajan, Vaishali Suri, M C Sharma, Ajay Garg, Ashish Suri, Chitra Sarkar
45. Kalpana Kumari got second prize for presenting a poster entitled Phosphaturic mesenchymal tumour of temporal bone– A rare and distinct clinicopathologicalentity causing oncogenic osteomalacia at the 17th annual conference of DNA held in New Delhi from Jan 31- Feb 1, 2015. Kalpana Kumari, Aruna Nambirajan, Atul Dhingra, M C Sharma, Vaishali Suri, AshishSuri, Ajay Garg, C Sarkar
46. Sudha Nagavalli got third prize for presenting a poster entitled Primary diffuse leptomeningeal primitive neuroectodermal tumour masquerading as chronic meningitis: Report of two cases at the 17th annual conference of DNA held in New Delhi from Jan 31- Feb 1, 2015. Sudha Nagavalli, Aruna Nambirajan, Jaskaran Bhangu, Ranjit Kumar, Aanchal Kakkar, VaishaliSuri, Ajay Garg, M C Sharma, Chitra Sarkar
47. Vikas Sharma got best poster award for presenting a poster entitled Expression of DNA methyl-transferases (DNMTS) in glioblastomas at the 17th annual

conference of DNA held in New Delhi from Jan 31- Feb 1, 2015. Vikas Sharma, Suvendu Purkait, Anupam Kumar, Prerana Jha, Pankaj Pathak, Prit Benny Malgulwar, Vaishali Suri, Mehar Chand Sharma, Ashish Suri, BS Sharma, Chitra Sarkar

48. Dr. Dr. P.B. Malgulwar got best poster award for presenting a poster entitled "Study of Tuberin and Hamartin complex and WNT pathway in Subependymal Giant Cell Astrocytomas and Focal Cortical Dysplasia IIB" at the 6th Annual Conference Indian Society of Neuro-Oncology, held in Lucknow from 11th-14th April 2014

49. Dr. Anupam got the second prize for the poster entitled " IDH1 mutations in gliomas : A study of 140 cases of astrocytic and oligodendroglial tumors" at the 16th annual conference of DNA held in New Delhi from February 1st-2nd, 2014 . Anupam, Vikas Sharma, Prerana Jha, Pankaj Pathak, Vaishali Suri, Mehar Chand Sharma, Ashish Suri*, BS Sharma*, Chitra Sarkar. Department of Pathology and Neurosurgery*, AIIMS, New Delhi

50. Dr. Kavneet Kaur got the best poster award for the poster entitled "Molecular Subgrouping of Childhood Medulloblastomas – Clinical Applications" at the 16th annual conference of DNA held in New Delhi from February 1st-2nd, 2014. Kaur K, Purkait S, Kakkar A, Suri V, Sharma MC, Mallick S#, Jhulka PK#, Suri A*, Chandra PS*, Sharma BS*, Sarkar C. Department of Pathology, Radiotherapy# and Neurosurgery*

51. Dr. Aanchal Kakkar got third prize for the oral paper entitled "Dysembryoplastic neuroepithelial tumor (DNET): a surgically curable tumor in patients with intractable epilepsy" at 3rd Annual Conference of the Neurological Surgeon's Society of India, NSSI 2014held at AIIMS Rishikesh , 28th Feb – 2nd March 2014. Aanchal Kakkar[1], Mehar C Sharma[1], Vaishali Suri[1], Manjari Tripathi[2], Sarat P Chandra[3], Nilesh Kurwale[3], Amit Arora[2], Chitra Sarkar[1] Department of [1]Pathology [2]Neurology, and [3]Neurosurgery, All India Institute of Medical Sciences, New Delhi

52. Dr. Aruna Nambirajan got the second prize for a poster entitled "A study of proliferation and apoptosis related markers ATRX, Bcl-2 and p53 in ependymomas" at 3rd Annual Conference of the Neurological Surgeon's Society of India, NSSI 2014held at AIIMS Rishikesh , 28th Feb – 2nd March 2014. , A, Sharma MC , Suri V, [2]Singh M , Sarkar C. Department of Pathology and [2]Neurosurgery , All India Institute of Medical Sciences, New Delhi

53. Dr Mukund Sable got H D Tandon award for best poster entitled 'Limb girdle muscle dystrophy type II A (calpinopathy) with rimmed vacuoles' (Mukund Sable[1], Mehar C. Sharma[1], Vaishali suri[1], Rohit Bhatia[2], Shefali Gulati[3], Chitra

Sarkar[1] , dept. of pathology[1], neurology[2] and paediatrics[3]) at delhi chapter meet of IAPM (DAPCON 2013) held at AIIMS

54. Dr. Rakesh Gupta got the first prize for the poster entitled "Study of chromosome 9q , notch pathway regulators and tenascin C in ependymomas" at the annual conference of DNA (DNACON 2013) held at India habitat centre on February 17th 2013.

55. Dr Suvendu purkit got the third prize for the oral presentation entitled "Cyclin dependent kinase 2A (CDKN2A) deletion in pediatric versus adult GBMs" at the annual conference of DNA (DNACON 2013) held at India habitat centre on February 17th 2013.

56. Dr. Aanchal Kakkar got the Herbert Krause Gold medal for the paper entitled "Meningeal hemangiopericytoma – a clinicopathological, immunohistochemical and molecular genetic study, with emphasis on MGMT (O6 – methylguanine-DNA methyltransferase) promoter methylation status" at the 61st annual conference of NSI " Neurocon 2012"

57. Dr. Prerna Jha got the first prize for the paper entitled "Genome wide promoter methylation in pediatric Glioblastoma" at Annual Conference of Indian Society of Pediatric Neurosurgery Neuropedicon 2012 (1st to 3rdNovember 2012

58. Dr. Geetika Singh won the First Prize (Dr. V Ramalingaswami award) for Paper entitled Gliosarcoma: A Clinicopathological and Molecular Study with Special Reference to MGMT Promoter Methylation. Geetika Singh, Suvendu Purkait, Vikas Sharma, Supriyo Mallick, Nikhil Joshi, Prerana Jha, Vaishali Suri, M C Sharma, A K Mahapatra, Chitra Sarkar. XXVIth Annual Conference-Delhi Chapter-IAPM held at LHMC, Delh, 17th April 2011: Oral presentation

59. Dr. Aanchal Kakkar won the First Prize (Dr. V Ramalingaswami award) for Paper entitled Loss of Heterozygosity on Chromosome 10q in Glioblastoma Multiforme: A study of 25 cases .Aanchal Kakkar, Vaishali Suri, Prerana Jha, Arti Srivastava, Vikas Sharma, M C Sharma, Manish Sharma*, S.S. Kale*, Chitra Sarkar. XXVth Annual Conference-Delhi Chapter-IAPM, 11th April 2010 held at LHMC, Delhi: Oral presentation

60. Dr. prerna Jha won the First Prize for paper entitled "MGMT gene promoter methylation in gliomas" Prerana Jha, Vaishali Suri, Mehar Chand Sharma, Pankaj Pathak, Pankaj Jha,***Arti Srivastava, Ashish Suri,* Deepak Gupta*, Kunzang Chosdol,** Parthoprasad Chattopadhyay Chitra Sarkar XIIth annual conference of DNA (DNACON- 2010)), 6th and 7th Feb 2010 , Sir Ganga Ram Hospital, New Delhi

61. Dr. Shipra agarwal won the First Prize for poster entitled "molecular profile of oligodendrogliomas in the young" Shipra Agarwal, Vaishali Suri, Prerana Jha, Pankaj Pathak, Arti Srivastava, Bhaskar Shukla, Ashish Suri**, Manish Sharma**, Mehar C. Sharma, Chitra Sarkar. XIIth annual conference of DNA (DNACON- 2010)), 6th and 7th Feb 2010 , Sir Ganga Ram Hospital, New Delhi

62. Dr. pankaj Pathak won the Third Prize for poster entitled" Limb girdle muscular dystrophy Type 2a in India: a study based on semi-quantitative protein analysis with clinical and histopathological correlation" Pathak Pankaj, Sharma Mehar C., Jha Pankaj#, Jha Prerana, Suri Vaishali, Bhatia Rohit**, Singh Sumit*, Gulati Sheffali£, Mitali Mukerji # , Sarkar Chitra . XIIth annual conference of DNA (DNACON- 2009)), 6th and 7th Feb 2010 , Sir Ganga Ram Hospital, New Delhi

63. Dr. Nilesh S. Kurwale won KK Bisaria Best paper award for Neurosciences for paper entitled "Role of bone marrow derived mononuclear cells in peripheral nerve repair in adult rats: a morphometric evaluation" Nilesh S. Kurwale, Vaishali Suri, Arti Srivastava, Ashish Suri, Sujata Mohanty, PK Yadav, MC Sharma, Chitra Sarkar. Annual conference of Neurological society of India, 17-20th December , 2009, Lucknow.

64. Dr. Ayushi Jain won the First Prize for poster entitled "Role of immunoblot analysis in Limb Girdle Muscular Dystrophies (LGMD): First report from India "authors: Ayushi Jain, Pankaj Pathak, M C Sharma, Vaishali Suri, Sumit Singh*, Rohit Bhatia*, Chitra Sarkar. XXIVth Annual Conference-Delhi Chapter-IAPM UCMS and GTB Hospital April 2009, Delhi: Poster presentation

65. Dr. Prasanjeet Das won the First Prize for the poster entitled Glioblastoma multiforme with long term survival in the XIth annual conference of DNA (DNACON- 2009)), 6th and 7th Feb , AIIMS– P Das, T Puri, P Jha, V Suri, M C Sharma, BS Sharma, A Gupta, C Sarkar

66. Dr. Shipra agarwal won the Second Prize for paper entitled "Assessment of 1p & 19q deletion status by interphase Fluorescence in-situ hybridization assay & correlation with p53 andEGFR expression : A comparative study in oligodendroglial, mixed oligoastrocytic and astrocytic tumors": in the XIth annual conference of DNA (DNACON- 2009)), 6th and 7th Feb , AIIMS. S Agarwal, B Shukla, V Suri, P Pathak, MC Sharma, D Gupta, BS Sharma, ASuri, A Halder, C Sarkar.

67. Dr. Pankaj Pathak won the First Prize for the poster entitled "Dysferlin protein analysis in LGMD2B, a universal approach for diagnosis: First report from India" P Pathak, M C Sharma, V Suri, S Singh, R Bhatia, C Sarkar in the XIth annual conference of DNA (DNACON- 2009)), 6th and 7th Feb 2009 , AIIMS

68. Dr. Ayushi Jain won the First Prize for the poster entitled "MELAS (Mitochondrial myopathy, encephalopathy, lactic acidosis and stroke like episodes) with urticaria pigmentosa- report of a rare case" at the Xth annual conference DNA (DNACON-2008), Delhi. Jain A, Das P, Suri V, Sharma MC, Tripathi M, Padma MV, Bhatia R, Sarkar C.

69. Dr. Prerna Jha Received "Herbert Krause Neuro Oncology Award" for paper entitled "MGMT gene promoter methylation in adult & paediatric GBM"best Annual Conference, of NSI (NEUROCON 2008) held at Armed Forced Medical College (Pune, India.AFMC),
70. Dr Sachin Anil Borkar received Indian Society of Pediatric Neurosurgery Traveling Fellowship for resident for 2008 and Second Best Paper Award in Neuropedicon-2008, 19th Annual Conference of Indian Society of Pediatric Neurosurgery, 7th-9th November, 2008, Coimbatore, India for paper "Pediatric glioblastomas: A clinico-pathological study of 45 cases at a tertiary care centre". Sachin Anil Borkar, Ashish Suri, Prasenjit Das, Vaishali Suri, Chitra Sarkar, Bhavani Shankar Sharma.
71. Dr. Ayushi Jain won the Second Prize for paper entitled "Role of Major histocompatibility complex (MHC-I and II), cell adhesion molecules and membrane attack complex in the pathogenesis of inflammatory muscle diseases". In: Annual Conference of Delhi Neurological Association, New Delhi, 2007. Jain A, Sharma MC, Suri V, Singh S* Bhatia R* Handa R**, Sarkar C.
72. Dr. Arvind Ahuja won the Second Prize for the poster entitled "Malignant transformation of benign meningiomas after gamma knife radiosurgery: report of two cases". 56th annual conference of IAPM , PGIMER, Chandigarh, November 2007.

Honours

- Member, National academy of medical sciences
- Member, Oncology Sub-Committee of NCD-III, ICMR
- Member, Editorial Board of journal Neuropathology (published from Japan)
- Member, Reviw Board of Neurology India
- Joint Secretary, Neuropathology society of India

5. ACADEMIC MEMBERSHIPS

I.M.A. - Indian Medical Association
D.M.A. - Delhi Medical Association
N.S.I. - Neurological Society of India
D.N.A. - Delhi Neurological Association
I.S. H - Indian Society of hematology
I.A.P.M - Indian association of Pathologists and Microbiologists
I.A.P-ID - International Academy of pathology- Indian sivision
ISNO - Indian Society of Neuro-oncoogy
NPSI - Neuropathology society of India

6.RESEARCH CONTRIBUTIONS

6.1 Summary of Research Contributions

I NEURO- ONCOLOGY

I am actively involved in clinically oriented and basic research in the field of Neuro-oncology. My primary work is related to development of comprehensive approaches to understand the biology of CNS tumors with special reference to gliomas , meningiomas and medulloblastomas and to develop markers that could help their early diagnosis and prognostication. With this aim, I have studied both pediatric and adult CNS tumors extensively. The highlights of my important contributions are summarized below:

1. Meningioma

There has been recent interest in delineating the molecular mechanisms involved in meningioma formation, growth, and malignant progression. We have undertaken several studies to identify molecular biomarkers associated with poor prognosis or recurrence in meningiomas and investigated expression of components of signaling pathways to determine a link between gene expression and pathological parameters**.** Our work highlights similarities and differences in molecular profile of adult and pediatric menigiomas. We have documented association of H3K27me3 loss and CDKN2A deletion with cavernous sinus extension suggesting their role in tumor spread. Genome-wide DNA methylation profiling demonstrates significant molecular heterogeneity within the same grade of meningiomas and emphasizes the importance of integrated diagnoses and layered reports for understanding the underlying biology.

- Kakkar A, Kumar A, Das A, Pathak P, Sharma MC, Singh M, Sarkar C, **Suri V** et al. 1p/14q co-deletion: A determinant of recurrence in histologically benign meningiomas. Indian J Pathol Microbiol. 2015 Oct-Dec;58(4):433-8. **Corresponding author**

- Kumar S, Kakkar A, **Suri V**, Kumar A, Bhagat U, Sharma MC, Singh M, Suri A, Sarkar C. Evaluation of 1p and 14q status, MIB-1 labeling index and progesterone receptor immunoexpression in meningiomas: Adjuncts to histopathological grading and predictors of aggressive behavior. Neurol India. 2014 Jul-Aug;62(4):376-82. **Corresponding author**

- Battu S, Kumar A, Pathak P, Purkait S, Dhawan L, Sharma MC, Suri A, Singh M, Sarkar C, Suri V. Clinicopathological and molecular characteristics of pediatric meningiomas. Neuropathology. 2018 Feb;38(1):22-33. **(Corresponding Author)**

- Singh J, Sharma R, Shukla N, Narwal P, Katiyar A, Mahajan S, Sahu S, Garg A, Sharma MC, Suri A, Sarkar C, Suri V. DNA methylation profiling of meningiomas highlights clinically distinct molecular subgroups. J Neurooncol. 2022 Dec 24. doi: 10.1007/s11060-022-04220-3. **(Corresponding Author)**

- Sharma R, Singh J, Katiyar V, Narwal P, Suri V, Raheja A, Suri A. Correlation of Surgical Outcomes of Petroclival Meningiomas with Clinico-Radiological Parameters, Molecular and Chromosomal Alterations. World Neurosurg. 2022 Dec 29:S1878-8750(22)01822-8.

2. Oligodendroglioma

We were the first cenre from India to establish that loss of 1p and 19q is strongly associated with oligodendroglial phenotype and astrocytomas are more likely to show p53 over-expression. Expression of p53 and 1p/19q status are mutually exclusive. Ours was the the first study to show that molecular profile of OGs in pediatric and young adult patients is distinct was published . We have also demonstrated the silencing of the second largest microRNA cluster in ODGs, implicating its tumor-suppressive role in their pathogenesis, along with diagnostic and prognostic significance. In one study on two two pODGs, one each of grade II and grade III, we highlighed that pODGs can harbor the KIAA1549-BRAF fusion with aberrant MAPK/ERK signaling, and there exists an option of targeting these pathways in such patients. Pediatric ODGs with the KIAA1549-BRAF fusion may represent a subset of this rare tumor that shares molecular and genetic features of pilocytic astrocytomas.

- Shukla B, Agarwal S, **Suri V,** Pathak P, Sharma MC, Gupta D, Sharma BS, Suri A, Halder A, Sarkar C. Assessment of 1p/19q status by fluorescence in situ hybridization assay: A comparative study in oligodendroglial, mixed oligoastrocytic and astrocytic tumors. Neurol India. 2009 Sep-Oct;57(5):559-66. **Corresponding Author**

- **Suri V,** Jha P, Agarwal S, Pathak P, Sharma MC, Sharma V, Shukla S ,Somasundaram K, Mahapatra AK, Kale SS, Sarkar C. Molecular profile of oligodendrogliomas in young patients. Neuro Oncol. 2011 Oct;13(10):1099-106. **First author.** We have also received **AIIMS Excellence Award for notable contribution in research at AIIMS (2011-2012) for this study**

- Kumar A, Pathak P, Purkait S, Faruq M, Jha P, Mallick S, **Suri V**, Sharma MC, Suri A, Sarkar C. Oncogenic KIAA1549-BRAF fusion with activation of the MAPK/ERK pathway in pediatric oligodendrogliomas. Cancer Genet. 2015 Mar;208(3):91-5. 20.

- Kumar A., Nayak, S., Pathak P, Purkait S., Mallick S., Suri V., … Sarkar, C. (2015). downregulation of mir-379/mir-656 cluster (c14mc) in

oligodendrogliomas with possible mechanistic and clinicopathological implications. *Neuro-Oncology*. 2015 Nov, *17*(Suppl 5), v87–v88.

3. Pediatric tpe diffuse hisgh grade gliomas

Our work in pediatric Neuro-Oncology is indeed novel and commendable as we have established that pediatric gliomas, though histomorphologically indistinguishable from their adult counterparts, are a distinct molecular entity. Our studies have given an insight into age related molecular heterogeneity of gliomas- both genetic and epigenetic. This indicates that findings from adult cases cannot simply be extrapolated to pediatric patients, thus highlighting the need for identification of separate prognostic markers and molecular targeted therapy tailored for age. Our study on "Genetic pathways in Pediatric glioblastomas" has been published in ***"Neurooncology"*** and the work has been included in research highlights of ***"Nature Clinical Practice Neurology"***: One of our study confirmed that pediatric GBM has a distinct methylome compared with that of adults. Diffuse midline gliomas (DMGs) are rare and devastating tumors with limited therapeutic options. We performed a comprehensive analysis on clinoicopatological, molecular and immune profiles of DMGs.

- **Suri V,** Das P, Jain A, Sharma MC, Borkar SA, Suri A, Gupta D, Sarkar C. Pediatric glioblastomas: A histopathological and molecular genetic study. Neuro Oncol. 2009 Jun;11(3):274-80. **First author**

- Purkait S, Jha P, Sharma MC, Suri V, Sharma M, Kale SS, Sarkar C. CDKN2A deletion in pediatric versus adult glioblastomas and predictive value of p16 immunohistochemistry. Neuropathology. 2013 Aug;33(4):405-12.

- Jha P, **Suri V**, Singh G, Jha P, Purkait S, Pathak P, Sharma V, Sharma MC, Suri A, Gupta D, Mahapatra AK, Sarkar C. Characterization of molecular genetic alterations in GBMs highlights a distinctive molecular profile in young adults. Diagn Mol Pathol. 2011 Dec;20(4):225-32.

- Genome-wide methylation profiling identifies an essential roleof reactive oxygen species in pediatric glioblastoma multiformeand validates a methylome specific for H3 histone family 3A with absence of G-CIMP/isocitrate dehydrogenase 1 mutation. Neuro Oncol. 2014 Dec;16(12):1607-17

- Jha, P., Manjunath, N., Singh, J., Mani, K., Garg, A., Kaur, K., Sharma, M.C., Raheja, A., Suri, A., Sarkar, C. and Suri, V. Analysis of PD-L1 expression and T cell infiltration in different molecular subgroups of diffuse midline gliomas. Neuropathology 2019, 39: 413-424. **(Corresponding Author)**

- Manjunath N, Jha P, Singh J, Raheja A, Kaur K, Suri A, Garg A, Sharma MC, Sarkar C, Mohan M, Mani K, Suri V. Clinico-pathological and molecular characterization of diffuse midline gliomas: is there a prognostic significance? Neurol Sci. 2021 Mar;42(3):925-934. **(Corresponding Author**

4. **Glioblastoma (MGMT) promoter methylation**

O-6 methylguanine methyl transferase (MGMT) promoter methylation in adult glioblastomas (GBM) is considered a promising molecular alteration, predictive of better response to temozolomide therapy and longer overall survival. Limited data is available on MGMT methylation status of low grade gliomas and correlation with other molecular alterations. We assessed the frequency of O-6 methylguanine methyl transferase (MGMT) methylation in glial tumors of all grades and types, and correlated this alteration with LOH 1p/19q, p53 immunopositivity and EGFR amplification in Indian patients, since no reports are available from this subcontinent. We also reviewed the literature extensively and thus attempted to emphasize the major challenges and possible pitfalls of overall significance of methylation data in tumor samples for therapeutic decision making in individualized cases. We have also studied the frequencyo of MGMT methylation in pediatric GBMS. The articles published include

- Srivastava A, Jain A, Jha P, **Suri V**, Sharma MC, Mallick S, Puri T, Gupta DK,Gupta A, Sarkar C. MGMT gene promoter methylation in pediatric glioblastomas.Childs Nerv Syst. 2010 Nov;26(11):1613-8.

- Jha P, **Suri V**, Jain A, Srivastava A, Pathak P, Sharma MC, Suri A,* Gupta D , Gupta A, Chosdol K Chattopadhyay P, Sarkar C.O-6 methylguanine DNA methyltransferase (MGMT) gene promoter methylation status in gliomas and its correlation with other molecular alterations: first Indian report with review of challenges for use in customized treatment. Neurosurgery. 2010 Dec;67(6):1681-91.

- **Suri V**, Jha P, Sharma MC, Sarkar C. O6 -methylguanine DNA methyltransferase gene promoter methylation in high-grade gliomas: a review of current status. Neurol India. 2011 Mar-Apr;59(2):229-35. Review. **First Author**

5.EGB /PXA

eGB is a rare subtype of IDH-wt GBs which was first introduced in the 2016 WHO classification of CNS tumors. eGB has also been reported to exhibit overlapping clinical, radiological, histological and molecular features with lower grade gliomas like PXA2,3. This renders difficulty in segregating these entities and leads to interobserver variability at diagnostic platforms. Our lab has investigated immunohistochemical and molecular genetic study on epithelioid glioblastoma. We have performed unsupervised hierarchal clustering on expression values of the transcriptomic landscape in PXA Grade 2,3 tumours as a preliminary study. We have also investigated top dysregulated mRNAs,

lncRNAs and mapped co-expression network of lncRNA-mRNA in PXA grade 2,3 tumors.

- Khanna G, Pathak P, **Suri V,** Sharma MC, Chaturvedi S, Ahuja A, Bhardwaj M, Garg A, Sarkar C, Sharma R. Immunohistochemical and molecular genetic study on epithelioid glioblastoma: Series of seven cases with review of literature. Pathol Res Pract. 2018 May;214(5):679-685. **(Corresponding Author)**
- Dandapath, I., Gupta, R., Singh, J., Shukla, N., Jha, P., Sharma, V., Suri, A., Sharma, M. C., **Suri, V.,** Sarkar, C., & Kulshreshtha, R. Long Non-coding RNA and mRNA Co-expression Network Reveals Novel Players in Pleomorphic Xanthoastrocytoma. Molecular neurobiology, 2022;59(8):5149-5167.
- **(Corresponding Author)**
- Singh J., Dandapath I., Jha P., Shukla, N., Gupta R., Katiyar A., Sharma V., Mahajan S., Chaturvedi S., Ahuja A., Bhardwaj M., Saran R., Garg A., Sharma M. C., Manjunath N., Suri A., Kulshreshtha R., Sarkar C., **Suri V.** Gene expression based profiling of pleomorphic xanthoastrocytoma highlights two prognostic subgroups. *American journal of translational research 2022*; *14*(2), 1010–1023. (**Corresponding Author)**
- Mahajan S , Dandapath I , Garg A, Sharma MC Suri V Sarkar C. The evolution of pleomorphic xanthoastrocytoma: from genesis to molecular alterations and mimics. Laboratory Investigation 2022; 10.1038/s41374-021-00708-0. **(Corresponding Author)**

6. Medulloblastoma

- The rapid progress in identifying the molecular and clinical characteristics of MBs has ushered in a new era in basic and clinical research in paediatric neuro-oncology. .Disease heterogeneity, is now clearly related to inherent molecular differences, which can be ascertained through the application of modern technology to tumour interrogation. We developed a protocol for medulloblastoma subgrouping based upon robust, economical, reproducible and specific assays, applicable in pathology laboratories all over the world, especially in developing countries.

- Recently, loss of chromosome14q has been reported in SHH MBs, with downregulation of miR-379/miR-656 cluster (C14MC) in pediatric SHH MBs. Hence, a study on adult MBs was undertaken to enumerate clinicopathological characteristics and molecular subgroups, and to analyze expression of C14MC and its transcriptional regulators, MEF2, JUN and ESRRG. MYC amplification was evaluated by FISH. Expression profiling of 47 miRNAs from C14MC was performed using customized Taqman low-density array. Expression of transcriptional regulators was examined using RT-PCR. Seventy-one adult MBs were analyzed. Significant downregulation of C14MC was observed in all MB subgroups, and MEF-2 expression was downregulated.

- Kaur K, Kakkar A, Kumar A, Mallick S, Julka PK, Gupta D, Suri A, **Suri V**, Sharma MC, Sarkar C. Integrating Molecular Subclassification of Medulloblastomas into Routine Clinical Practice: A Simplified Approach. Brain Pathol. 2016 May;26(3):334-43

- Kaur, K., Kumar, A., Kakkar, A., Purkait, S., Mallick, S., Suri, V., … Sarkar, C. (2015). MPTH-13 adult medulloblastomas: molecular subgrouping and correlation with clinicopathological characteristics, and expression of miR-379/miR-656 cluster (C14MC). *Neuro-Oncology*, *17*(Suppl 5), v140–v141.
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7 . Diagnostic and Prognostic markers in Gliomas

Molecular markers for diagnosis are becoming increasingly important because of overlaps in histological and immunohistochemical profiling. Thus there is a continuous endeavour for establishment of the role of various molecular markers and in the diagnosis grading and prognostication of CNS tumors.Molecular profiling can separate histologically similar gliomas of same grade into prognostic subgroups and incorporation of this information when classifying gliomas will better account for the clinical heterogeneity of outcome observed among all tumor groups. Various techniques are being assessed to get cheaper and robust tests for implementation in routine clinical practice.

- Jha P, **Suri V**, Sharma V, Singh G, Sharma MC, Pathak P, Chosdol K, Jha P, S Mahapatra AK, Kale SS, Sarkar C. IDH1 mutations in gliomas: first series from a tertiary care centre in India with comprehensive review of literature. Exp Mol Pathol. 2011 Aug;91(1):385-93.

- Agarwal S, Sharma MC, Jha P, Pathak P, **Suri V,** Sarkar C, Chosdol K, Suri A, Kale SS, Mahapatra AK, Jha P. Comparative study of IDH1 mutations in gliomas by immunohistochemistry and DNA sequencing. Neuro Oncol. 2013 Mar 13.

- Purkait S, Sharma V, Jha P, Sharma MC, Suri V, Suri A, Sarkar C et al. EZH2 expression in gliomas: Correlation with CDKN2A gene deletion/ p16 loss andMIB-1 proliferation index. Neuropathology. 2015;35:421-31.

- Purkait S, Sharma V, Kumar A, Pathak P, Mallick S, Jha P, Sharma MC, **Suri V,**Julka PK, Suri A, Sharma BS, Sarkar C. Expression of DNA methyltransferases 1 and 3B correlates with EZH2 and this 3-marker epigenetic signature predicts outcomein glioblastomas. Exp Mol Pathol. 2016 Apr;100(2):312-20.

- Suman S, Sharma R, Katiyar V, Mahajan S, Suri A, Sharma MC, Sarkar C, Suri V. Role of CDKN2A deletion in grade 2/3 IDH-mutant astrocytomas: need for

selective approach in resource-constrained settings. Neurosurg Focus. 2022 Dec;53(6):E17. **(Corresponding Author)**

- Kumari K, Dandapath I, Singh J, Rai HIS, Kaur K, Jha P, Malik N, Chosdol K, Mallick S, Garg A, Suri A, Sharma MC, Sarkar C, Suri V. Molecular Characterization of IDH Wild-type Diffuse Astrocytomas: The Potential of cIMPACT-NOW Guidelines. Appl Immunohistochem Mol Morphol. 2022 Jul 1;30(6):410-417. **(Corresponding Author)**

8. Integration of FISH assay in routine reporting

I have made a major contribution in developing the technique of "*Fluorescence in situ hybridization on paraffin embedded tissue sections*". We started this facility in 2008 and now it is being used for research as well as diagnostic purpose. The technique is very useful for accurate diagnosis, prognostication and predicting therapeutic response in brain tumour cases. We are using this assay in cases with diagnostic dilemma and for molecular profiling of brain tumors . Various papers have also been published in esteemed international journals.

- Detection of allelic status of 1p and 19q by microsatellite-based PCR versus FISH: limitations and advantages in application to patient management. Diagn Mol Pathol. 2011 Mar;20(1):40-7 **(Corresponding Author)**

- Heterozygosity status of 1p and19q and its correlation with p53 protein expression and EGFR amplification inpatients with astrocytic tumors: novel series from India. Cancer Genet Cytogenet.2010 Apr 15;198(2):126-34.

- Assessment of 1p/19q status by fluorescence in situ hybridization assay: A comparative study in oligodendroglial, mixed oligoastrocytic and astrocytic tumors. Neurol India. 2009 Sep-Oct;57(5):559-66

9. **Usefulness of domestic microwave for urgent histopathological diagnosis**

We conducted a study with the objective of evaluating the usefulness of domestic microwave for urgent histopathological diagnosis and analysing the 1)quality of sections, 2) turn around time, 3)cost involved 4) further applicability for special stains and immunohistochemistry .

- **Suri V**, Chaturvedi S, Pant I, Dua R, Dua S. Application of domestic microwave for urgent histopathology reporting: an evaluation. Indian J Pathol Microbiol. 2006 Jul;49(3):348-51.

9. Worked as a senior research officer in Dept. of Pathology, GBPH, under CSIR POOL SCHEME. I had taken up a research project entitled "**Differentiation patterns, expression of ki-67 and p53 in embryonal tumours of CNS"** .I presented this work 52nd annual conference of NSI held at Chandigarh – 13-15th December 2003.

10. Consensus guidelines/ Review Articles

- Mahajan S, Suri V, Sahu S, Sharma MC, Sarkar C. World Health Organization Classification of Tumors of the Central Nervous System 5th Edition (WHO CNS5): What's new? Indian J Pathol Microbiol. 2022 May;65(Supplement):S5-S13

- Purkait S, Mahajan S, Sharma MC, Sarkar C, Suri V. Pediatric-type diffuse low grade gliomas: Histomolecular profile and practical approach to their integrated diagnosis according to the WHO CNS5 classification. Indian J Pathol Microbiol. 2022 May;65(Supplement):S42-S49. **(Corresponding Author)**

- Dandapath I, Chakraborty R, Kaur K, Mahajan S, Singh J, Sharma MC , Sarkar C, **Suri V**. Molecular alterations of low-grade gliomas in young patients:Strategies and platforms for routine evaluation, *Neuro-Oncology Practice*, Volume 8, Issue 6, 2021;8(6):652-661. **(Corresponding Author)**

- Mahajan S, Sharma MC, Sarkar C, Suri V. Approach to diagnosis of pediatric gliomas. IJNO 2021;4(3):166-174 **(Corresponding Author)**

- Chakraborty R, Suri V, Dandapath I, Singh J, Sharma M C, Sarkar C. Role of liquid biopsy in central nervous system tumors Int J Neurooncol 2021; 4, Suppl S1:179-87

(II)Experimental

In a research project funded by ICMR, in which I was the Principal investigator, we analysed the role of bone marrow derived mononuclear cells in peripheral nerve repair of adult rats. A part of this work has published in "***Journal of Clinical Neurosciences***" and our article on " Dose-dependent facilitation of peripheral nerve regeneration has been accepted for publication in JNS.

Publications:

- Goel RK, Suri V, Suri A, Sarkar C, Mohanty S, Sharma MC, Yadav PK, Srivastava Effect of bone marrow-derived mononuclear cells on nerve

regeneration in thetransection model of the rat sciatic nerve. J Clin Neurosci. 2009 Sep;16(9):1211-7. **Corresponding Author**.

- Raheja A, **Suri V**, Suri A, Sarkar C, Srivastava A, Mohanty S, Jain KG, Sharma MC, Mallick HN, Yadav PK, Kalaivani M, Pandey RM. Dose-dependent facilitation of peripheral nerve regeneration by bone marrow-derived mononuclear cells: a randomized controlled study: laboratory investigation. J Neurosurg. 2012 Dec;117(6):1170-81. **Corresponding Author**

(III)NEUROMUSCULAR DISORDERS

- Mahajan S, Dhall A, Jassal B, Saluja A, Faruq M, Suri V, Rajan R, Vishnu VY, Sharma MC. Anoctamin-5 Muscular Dystrophy: Report of Two Cases with Different Phenotypes and Genotypes from the Indian Subcontinent. Neurol India. 2022 Sep-Oct;70(5):2169-2173.
- Rajeshwari M, Dhiman N, Chakrabarty B, Gulati S, Shamim U, Faruq M, Suri V, Sharma MC. X-linked Myopathy with Excessive Autophagy - A Rare Cause of Vacuolar Myopathy in Children. Neurol India. 2022 Jul-Aug;70(4):1643-1648.

- Jain S, Samanta J, Vyas S, Mahajan S, **Suri V**, Kumar U. Triple Overlap Between Silicosis, Dermatomyositis, and Systemic Sclerosis: Opening Up a Pandora's Box.J Clin Rheumatol. 2020 Mar 17.
- Kakkar A, Rajeshwari M, Nalwa A, **Suri V**, **Sarkar C**, Chakrabarty B, Gulati S, **Sharma MC**. Childhood macrophagic myofasciitis: A series from the Indian subcontinent. Muscle Nerve. 2017;56:71-77.
- Kakkar A, Sharma MC, Nambirajan A, Sarkar C, Suri V, Gulati S. Glycogen Storage Disorder due to Glycogen Branching Enzyme (GBE) Deficiency: A Diagnostic Dilemma. Ultrastruct Pathol 2015; 13:1-5

- Pathak P, Sharma MC, Sarkar C, Jha P, **Suri V**, Mohd H, Singh S, Bhatia R,Gulati S. Limb girdle muscular dystrophy type 2A in India: A study based onsemi-quantitative protein analysis, with clinical and histopathological correlation. Neurol India. 2010 Jul-Aug;58(4):549-54.

- Jain D, Sharma MC, Sarkar C, **Suri V**, Sharma SK, Singh S, Das TK. Tubular aggregate myopathy: a rare form of myopathy. J Clin Neurosci. 2008 Nov;15(11):1222-6.

- Sharma MC, Gulati S, Sarkar C, Jain D, Kalra V, **Suri V.** Multi-minicore disease: A rare form of myopathy. Neurol India. 2007 Mar;55(1):50-3.

6.2 Research Guidance

Actively involved in guiding thesis work of MD and Mch students

Degree	Guide	Co- Guide
M.D. (Pathology)	7	15
DM/ M.Ch. (Neurology & Neurosurgery)	7	6
PhD	3	5

6.3 Research projects from recognized National agencies

	Name of Project	Source of funding	Year	Total amount
As chief investigator	Study of the role of bone marrow derived mononuclear cells in peripheral nerve repair of adult rats.	I.C.M.R.	2007-2010	Rs.18 lacs
	Glioblastomas in children and adults: A comparative study with special reference to molecular pathways and MGMT methylation status	I.C.M.R	2010-2013	Rs 25 lacs
	A study of clinicopathological features and molecular genetic alterations in adult versus pediatric meningiomas (Intramural project)	Intramural	2013-2015	Rs 10 lacs

	Establishment of rapid and economical methods for molecular subgrouping and risk stratification of medulloblastomas for routine clinical practice in developing countries"	Intramural	2016-2018	Rs 10 lacs
	Targated genomic-epigenomic analysis to develop a noval approach for routine molecular subgrouping and identification of actionable targets in meningioma	DST	2018-2021	Rs.42 lacs approx. (41,23,098)
	Identification of non-coding RNA panel as novel biomarker for stratification of meningiomas and evaluation of its prognostic therapeutic significant	Multi-Institutional Faculty Interdisciplinary Research Project with IIT Delhi	2018-2020	Rs.10 lacs
	Molecular signature of protumorigenic inflammation in the context of the WHO 2016 classification of gliomas	AIIMS inter departmental collaborative project	2018-2020	Rs. 20 lacs
	Integrative transcriptome analyses of different histological and molecular subgroups of meningiomas to identify prognostic signature and therapeutics	ICMR	2019-2022	Rs. 62 Lacs

	Evaluation of potential diagnostic value of circRNA in meningiomas for risk stratification and its role in therapeutic intervention	ICMR	2020-2023	Rs. 50. Lacs
	Establish robust and economical blood-based panel of diagnostic biomarkers for early diagnosis, detection of tumor progression and its recurrence in gliomas	ICMR	2021-2023	Rs. 1 Crore
	To analyze the molecular profile of paediatric gliomas and establish robust and economical methods for molecular subgrouping and risk stratification	DBT	2021-2023	Rs. 1 Crore
	Methylation array-based profiling of gliomas in Adolescents and Young Adults (AYA) to improve sub-classification and prognosis prediction	I.C.M.R	2022-2025	Rs. 56 lacs
As Co - investigator	Glial tumours: a correlative clinicopathological study of chromosomes 1p/19q status, Epidermal growth factor receptor0 (EGFR) amplification and p53 expression	I.C.M.R	2007-2010	Rs.25 lacs
	Angiogenesis in astrocytic tumors of the brain: A clinicopathological study with special reference toexpression of vascular endothelial growth factor (VEGF), and hypoxia inducible factor (HIF) – 1 alpha and correlation with vascular morphometric parameters and tumor	ICMR	2009-12	Rs.22 Lacs

	infiltrating inflammatory cells.			
	Study of epithelial to mesenchymal transition in Ependymomas	Intramural project	2013 - 15	10 lacs
	A Clinicopathological and Molecular Genetic Study of Polycomb Repressive Complexes in Gliomas	ICMR	2012 - 2015	50 lacs
	Genomic and functional approaches to decipher the role of a large imprinted miRNA cluster in glioblastoma multiforme	DBT	2012 - 2015	50 lacs
	Clinicopathological study of idiopathic inflammatory myopathy with special reference to expression of cytokines	ICMR	2007-2010	47,78,130
	Sequencing Targetgenes aimed at Neuromuscular disorders in India (STAND-INDIA)	ICMR	2018-2021	44,76,590
	Clinicopathological andserological assessment of adult-onset idiopathic inflammatorymyopathies (IIM) aimed at improved characterization of sporadic inclusion bodymyositis	ICMR	2019-2022	47,78,130
	Unravelling the functional relevance of Snail paralogs in pathogenesis of Pediatric Ependymomas	DST	2017-2020	46,71,160
	Tumor Immune landscape: PDL1 expression and evaluation of tumor immune interplay by investigating the immune cell infiltration in	ICMR	2021-2024	48,79500

	supratentorial ependymoma and its correlation with survival outcomes' (project code: I-1239)			

7. TEACHING EXPERIENCE

7.1 Undergraduate

Actively involved in teaching programme and am regularly delivering didactic lectures, holding practical demonstrations, clinicopathological case studies and clinic-pathological seminars.

7.2 Postgraduate

Actively involved in Department day to day teaching of the residents in the Department of Pathology especially during the reporting, grossing and autopsy sign out sessions. Conduction of weekly conferences in diagnostic histopathology, topic oriented seminars, journal clubs, clinico-pathological case discussions, autopsy gross conferences, discard conferences etc. as part of the regular training of the postgraduate Residents in Pathology. Acting as chief guide/co-guide for thesis of post-graduate students (M.D../M.Ch.and Ph.D.) of Pathology, and Neurosurgery.

7.3 Neuropathology

Teaching Neuropathology to both undergraduates and postgraduates. Delivering didactic lectures, conducting practical demonstrations, clinico-pathological case studies and clinico-pathological seminars in Neuropathology for under-graduates.

Actively involved in day-to-day teaching of Neuropathology to the Residents in Pathology. Teaching Neuropathology to postgraduates (D.M. Students) of Neurology and postgraduates (M.Ch. Students) of Neurosurgery.

Conduction of weekly Neuropathology conferences, seminars and lectures, brain cutting sessions, neurological autopsy case discussions etc. for the postgraduates of Pathology, Neurology and Neurosurgery.

Teaching of specialized laboratory techniques viz. immuno-histochemistry, muscle enzyme histochemistry to Pathology Residents**.**

8. PROFESSIONAL EXPERIENCE

8.1 Professional experience in Neuropathology :

- Daily reporting of diagnostic neuropathology slides as part of patient care services of the hospital for the last 3 years. Approximate load is 2500-2000 cases per year.
- Use of special neuropathological stains, immunohistochemistry, enzyme histochemistry, electron microscopy, and more recently molecular techniques for more accurate diagnostic interpretation of neuropathology cases.
- Conducting of brain cutting sessions and final sign outs of all neurological and neurosurgical autopsies.
- Undertaking weekly neuropathological conferences with the Departments of Neurology, and Neurosurgery

8.2 Professional experience in Histopathology :

- Report diagnostic surgical pathology slides as part of patient care services of the hospital for the last 3 years. Approximate load is 2500-3000 cases per month.
- Conduct inter-departmental Surgico-pathological conferences and participate as Consultant Pathologist in Clinical Combined Rounds and Clinical Grand Rounds.
- Conduct Inter-departmental autopsy gross conferences including signing out final anatomical diagnosis.

9. ADMINISTRATIVE EXPERIENCE

Position held	Time period
Faculty Incharge Pathology website	January 2006 – December 2020
Faculty Incharge Electron Microscopy facility	January 2010 to December 2020
Faculty Incharge CPC	January 2009 to July 2017
Faculty Incharge Senior Residents	January 2014 to August 2021

10. CONFERENCES/ WORKSHOPS ORGANISED

1. Organising secretary , 22nd Annual Coference , Indian Association of Pathologists & Microbiologists (Delhi Chapter) held on April 28, 2007 at AIIMS New Delhi
2. Organized preconference workshop in Molecular Neuro-Oncology in the 10th annual conference of Indian society of Neuro- Oncology held at AIIMS, New Delhi from 5th to 8th April 2018.

3. A workshop was organized at AIIMS New Delhi from 7th March 2022 to 11th March 2022 under the aegis of DBT funded collaborative project to train faculty and students from North eastern region in molecular diagnostic techniques like FISH, RT PCR, Sanger Sequencing etc.

4. Conducted a workshop on Fluorescence in situ hybridization under the aegis of DBT funded collaborative project at NEIGRIHMS, Shillong from 16th November 2022 to 17th November 2022.

5. Organized a CME in Neuropathology under the aegis of Travelling School of Neuropathology, Neuropathology Society of India at NEIGRIHMS Shillong from 18th November 2022 to 19th November 2022.

PUBLICATIONS

Publications No: - 216

Original Articles	73
Review Articles	13
Consensus Guidelines	2
Case report / Case series	128

Chapters in Books / Co-Authors:

Chapters	11
Books Co- Author	1

TOTAL NO. OF PUBLICATIONS : 216

1. Sharma R, Singh J, Katiyar V, Narwal P, Suri V, Raheja A, Suri A. Correlation of Surgical Outcomes of Petroclival Meningiomas with Clinico-Radiological Parameters, Molecular and Chromosomal Alterations. World Neurosurg. 2022 Dec 29:S1878-8750(22)01822-8

2. Singh J, Sharma R, Shukla N, Narwal P, Katiyar A, Mahajan S, Sahu S, Garg A, Sharma MC, Suri A, Sarkar C, Suri V. DNA methylation profiling of meningiomas highlights clinically distinct molecular subgroups. J Neurooncol. 2022 Dec 24. doi: 10.1007/s11060-022-04220-3. **(Corresponding Author)**

3. Suman S, Sharma R, Katiyar V, Mahajan S, Suri A, Sharma MC, Sarkar C, Suri V. Role of CDKN2A deletion in grade 2/3 IDH-mutant astrocytomas: need for selective approach in resource-constrained settings. Neurosurg Focus. 2022 Dec;53(6):E17. **(Corresponding Author)**

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