

NAME:Dr.Fouzia Siraj

DESIGNATION: Scientist D,

(In-charge Pathology and DNB Coordinator)

ICMR-National Institute of Pathology

Safdarjung Hospital Campus, New Delhi. India. 110029

Phone no (O): 011 26198402 Ext:434

e-mail: fouzasiraj.nip@gov.in

fouzasiraj2009@gmail.com

EDUCATIONAL QUALIFICATIONS: M.B.B.S, D.N.B (Diplomate of National Board) Pathology

Other scientific degrees:

- Member of National Academy of Medical Sciences (M.N.A.M.S)
- Life member of Indian Association of Pathologists and Microbiologists
- Life member of Neuropathology Society of India
- Member MITS Surveillance Alliance
- Life Member of Molecular Pathology Association of India

TRAININGS:

- TaqMan Array Card Setup and Analysis for Multipathogen Surveillance and Histopathology of MITS cases. 2-13th December 2019. **Centers for Disease Control and Prevention (CDC), Atlanta, USA**
- “**Social Media capacity building**” organized by ICMR at Agra from 26-27th August 2019
- “**4th NBE-UNESCO Chair in Bioethics National Program**”, 13-15th July 2019, Maharaja Agrasen Hospital, New Delhi
- “**Health Technology Acceleration and commercialization’ program (HTAC)**”, organized by ICMR. Goa, 11-16th November, 2018

AWARDS:

- 1) **Faculty Award for academic excellence**, in 20th Convocation and Award ceremony of NBE, 24th December, 2019 at Dr. Ambedkar International Centre, New Delhi
- 2) **V. Ramalingaswamy** award for best oral paper (IAPM, February 2012):
Immunohistochemical expression of chemokine receptor CXCR3 and its ligand CXCL10 in astrocytomas. Annual Conference – Indian Association of Pathologists and Microbiologists
- 3) **H.D.Tandon Award** for best poster (IAPM, April 2010):

Extra nodal RosaiDorfman Disease: Clinicopathological spectrum of six cases with unusual manifestations. Silver Jubilee Annual Conference– Indian Association of Pathologists and Microbiologists

EMPLOYMENT:

- PG Pathology, Sir Ganga Ram Hospital, New Delhi. 1-6-2005 to 1-6-2008
- Senior Resident Pathology, Sir Ganga Ram Hospital, New Delhi. 6-12-2008 to 5-12-2011
- Research Associate, ICMR-National Institute of Pathology, New Delhi. 6-12-2011 to 6-2-2014
- Scientist C, ICMR-National Institute of Pathology, New Delhi. 7-2-2014 to 31-8-2018
- Scientist D, ICMR-National Institute of Pathology, New Delhi. 1-9-2018 till date

Diagnostic Patient Service:

Reporting on routine surgical pathology and cytology specimens

Neuropathology reporting

Academics:

- Recognized PhD Guide, Faculty of Health and Biomedical Sciences, Symbiosis International University, Pune, Jamia Hamdard University, N-Delhi and Manipal Academy of Higher Education.
- Recognized DNB Guide, National Board of Examinations
- DNB Co-ordinator for Pathology NIP

RESEARCH SPECIALIZATION/ EXPERIENCE:

10 years of biomedical research experience. Designed and executed extramural and intramural research projects and published work in peer reviewed journals. Mentored PhD scholars, post-doctoral fellows and post graduates in Pathology

Key research areas include:-

- **Tumor Biology including Neuro-oncology and Hemat-oncology:** Currently our team is working on identification of non-invasive, circulatory biomarkers in brain tumors. Projects are underway to explore the role of tumor microenvironment in gliomas.
- **Pediatric pathology:** Co-investigator in a 2 **multi centric BMGF funded projects** which will help in establishing minimally invasive tissue sampling (MITS) in under 5 childhood deaths and assess its feasibility and acceptability in the Indian scenario
- **Neurosciences and Experimental pathology:** Collaborative Projects with Delhi University and Jamia Hamdard University related to neurodegenerative disorders like Alzheimer's

disease, epilepsy, focal cortical dysplasia, DNET and infections like cerebral malaria have been undertaken.

EXTRAMURAL PROJECTS:

S.No	Project Title	Duration	Role	Funding Agency
1.	Detection of 2-Hydroxyglutarate in biofluids of glioma patients: Potential role as a circulatory biomarker (ID: 2017-4524)	2019-21	PI	ICMR
2.	To determine the causes of under-five child deaths and stillbirths in north-eastern region of India by minimally invasive tissue sampling (MITS) technique: An ICMR Task Force Study	2021-23	Co-PI	ICMR
3.	Determination of causes of death in under-five children in India by MITS technique (Proposal ID: Grant # OPP1184205)	2018-21	Co-PI	Bill And Melinda Gates Foundation (BMGF)
4.	MITS at MAHAN: First Level Facility and Community	2019-21	Co-PI	BMGF
5.	Understanding the effect of crosstalk between microglia and glioblastoma cells on vasculogenic mimicry in Glioblastoma	2019-21	Guide	ICMR PDF
6.	TANK binding kinase inhibitors as therapeutic target in triple negative breast cancer-a comparative study in C57/BL/6J (established) versus Mongolian Gerbil model (innovative)	2020-22	Guide	ICMR PDF
7.	Identification of novel therapeutic targets associated with Gonadotropin-Releasing Hormone Signaling in Glioblastoma	2020-22	Co-PI	ICMR
8.	A preclinical study for evaluating the efficacy of FDA approved drugs in reducing treatment duration of anti TB drugs	2020-22	Co-PI	ICMR
9.	Comparative Proteomic analysis to discover novel plasma biomarkers for early detection, surveillance and prognostication of Atrial fibrillation in patients with Rheumatic heart disease	2019-21	Co-PI	DST
10.	Proteomic analysis of cardiac tissue of atrial fibrillation patients with Rheumatic heart disease to understand the pathophysiology and to identify candidate biomarkers for diagnostic and therapeutic applications	2019-21	Co-PI	DBT-BIOCARE
11.	Onco-proteome profiling in drug resistant (chemoresistant) acute lymphoid leukemia by selective inhibition and pathway analysis of PI3K/Akt/mTOR axis.	2019-21	Co-PI	ICMR
12.	Role of IL-8 signalling in glioblastoma progression.	2018-20	Guide	ICMR RA

13.	To elucidate the role of p73 in suppressing metastasis	2015-19	Co-PI	DST-INSPIRE
14.	Molecular regulation of mTOR signaling in acute lymphoblastic leukemia	2015-19	Mentor	DST-WOS A

EXPERIMENTAL PATHOLOGY PROJECTS:

S.No	Title	Institute	Status
1	Deciphering the role of HDAC 2, 4 and 6 mediated epileptogenesis in cortical dysplasia (CD) vs non-CD drug resistant epilepsy pathology	Molecular neurobiology laboratory Dr. B.R. Ambedkar Centre for Biomedical Research, University of Delhi	Ongoing
3	Pathogenesis of Experimental Cerebral Malaria in Balb/c mice	Dr. B.R. Ambedkar Centre for Biomedical Research, University of Delhi	Ongoing
4	Hypobaric hypoxia induced neurodegeneration	Dr. B.R. Ambedkar Centre for Biomedical Research, University of Delhi	Ongoing
5	Pharmacological characterization of benzylpiperidine derivative, a multitargetacetylcholinesterase inhibitor for the treatment of Alzheimer's disease	Dr. B.R. Ambedkar Centre for Biomedical Research,(ACBR) University of Delhi	Completed. Manuscript Published
6	Synthesis and Biological Evaluation of Diallyl Disulfide Analogs as Multi-functional agents for the treatment of Alzheimer's disease	Dr. B.R. Ambedkar Centre for Biomedical Research, University of Delhi	Completed. Manuscript Published
7	The anti-epileptogenic and cognition enhancing effect of novel 1-[4-(4benzo [1, 3] dioxol-5-ylmethyl-piperazin-1-yl)-phenyl]-3-phenyl-urea (BPPU) in pentylenetetrazole induced chronic rat model of epilepsy	Dr. B.R. Ambedkar Centre for Biomedical Research, University of Delhi	Completed. Manuscript Published
8	Evaluation of letrozole against seizures and neurotoxicity	Dept. of Pharmacology, Jamia Hamdard, New Delhi	Completed. Manuscript Published
9	Effect of Lacosamide on Pilocarpine induced status epilepticus in mice	Dept. of Pharmacology, Jamia Hamdard, New Delhi	Completed Manuscript Published

ORAL PRESENTATIONS: (Last 5 years)

- **Invited lecture titled "Role of Tumor microenvironment in Gliomas".** Delhi Chapter Quarterly Meet, VMMC & Safdarjung Hospital, New Delhi, 6th April, 2019
- **"Role of IDH1 and ATRX in molecular classification of gliomas using immunohistochemistry".** International CME in Pathology. Government Medical College, Goa. 2-4 February, 2018

- **Guest lecture titled “Newer molecular diagnostic tools in CNS tumors”. Neurosciences Update 2016.** Held at Safdarjung Hospital, New Delhi, 10th December, 2016
- **Guest lecture titled- “Overview of In situ Hybridization” at Update on Advances in Cancer Research and Hands on Workshop on Molecular Biology Techniques.** Held at Dr B Barooah Cancer Institute, Guwahati, 10-12 September, 2015
- **Guest lecture titled- “Cancer Genetics” at SAFHeR 2015, Foundation workshop in Clinical and Laboratory Medicine Research.** Held at National Institute of Pathology, ICMR, 9-12 February, 2015

POSTER PRESENTATIONS: (Last 5 years)

1. **Neuron Navigator-3, a novel p73 downstream target, inhibits colon cancer cell migration and invasion in a p73-dependent manner.** April 2019. Conference: 33rd Genes and Cancer Annual Meeting 2019, Robinson College, Cambridge, United Kingdom.
2. **Benign Mimickers of Urinary Bladder Carcinoma. A case series.** Annual Conference of Delhi Chapter of IAPM (DAPCON)- 2018. (Adjudged best poster award)
3. **Role of IL8-CXCR1/2 axis in glioblastoma cell proliferation, invasion, and vascular mimicry.** January 2018. AACR-NCI-EORTC International Conference: Molecular Targets and Cancer Therapeutics; October 26-30, 2017; Philadelphia, PA
4. **mTOR expression in acute lymphoblastic leukemia: Possible contribution of mTOR in predicting response to induction chemotherapy.** 9th International Conference on Leukemia and Hematologic Oncology. October 05-06, 2017 London, UK
5. **Interplay of IDH1 and HIF- α in Astrocytomas.** NPSICON 2017, NIMHANS Bangalore. 21-23 April 2017
6. **Expression and clinico-pathological significance of Androgen receptor in Triple negative breast cancer.** Poster presentation at 31st Annual Conference of Delhi Chapter IAPM. February, 2016. (Adjudged best poster award)

WORKSHOPS ORGANIZED/ ATTENDED

- **DAPCON- 2018,** Annual Conference of Delhi Chapter of IAPM. ICMR-NIP & Dept. of Pathology, VMMC & Safdarjung Hospital, New Delhi, 25th February 2018. Member Academic Committee
- **6th National workshop Next Generation Sequencing Data Analysis:** Integrating genomics, transcriptomics and proteomics data for potential therapeutic target discovery. Biomedical Informatics Centre, ICMR-National Institute of Pathology, New Delhi 26th -1st March, 2018

- **Transmission Electron Microscopy Workshop**, NIMHANS, Bengaluru, 21st -23rd April 2017
- **3rd Workshop on 'Biomedical data analysis using R'** .National Institute of Pathology, New Delhi, 24th -25th January 2017
- **Organizing secretary and faculty: Hands-on workshop on In-situ Hybridization as.** National Institute of Pathology, Delhi from 12-13th January, 2015

TOTAL PUBLICATIONS: 72 (Last 5 years list attached)

S.No	Publications	Impact Factor
1.	Jain S, Gupta P, Shankar KB, Singh R, Siraj F* . Diagnostic algorithm for pathological evaluation of gliomas in a resource-constrained setting. J Can Res Ther 2021	0.842
2.	Srivastava, A., Banerjee, J., Dubey, V.Tripathi M,Chandra PS,Sharma MC,Lalwani S, Siraj F ,Doddamani R,Dixit AB. Role of Altered Expression, Activity and Sub-cellular Distribution of Various Histone Deacetylases (HDACs) in Mesial Temporal Lobe Epilepsy with Hippocampal Sclerosis. Cell MolNeurobiol (2020). https://doi.org/10.1007/s10571-020-00994-0	3.895
3.	Singh S, Mankotia DS, Shankar KB, Siraj F* . A rare tumor of clivus masquerading as pituitary adenoma. Asian J Neurosurg 2020;15:1091-5.	
4.	AUboveja, YK Satija, F Siraj , D Saluja.Long noncoding RNA functions as a direct transcriptional target of p73 and plays a critical role in suppression of cancer cell migration, invasion and metastasis via sponging. European Journal of Cancer 138, S30	7.275
5.	SirajF ,Dulal J, Sharma S, Gupta P, Vasudeva P, Malik A. Benign Mimickers of Urinary Bladder Cancer: a Case Series. Indian Journal of Surgical Oncology. 2020 Jul 2:1-4.	0.61
6.	Gupta P, Siraj F* , Malik A,Shankar KB. Clinical and histopathological profile of Dysembryoplasticneuroepithelialtumor:An experience from a tertiary care center.J Can Res Ther.2020 Epub ahead of print	0.842
7.	Malik A, Siraj F , Shruti S, Gupta P, Khullar G, Ramesh V. Clinicopathological Concordance in 2216 Cases of Skin Biopsy over One Year: An Indian Experience. Cureus. 2020 Apr;12(4).	
8.	Kaushik R, Rani C, Neeshu K, Tanwar M, Pathak DK, Chaudhary A, Siraj F , Jha HC, Kumar R. Malignancy Induced Subtle Perturbation Sensitive Raman Scattering for Glioma Detection and Grading.Advances in Materials and Processing Technologies.2020;1-12	
9.	Uboveja A, Satija YK, Siraj F , Sharma I, Saluja D. p73–NAV3 axis plays a critical role in suppression of colon cancer metastasis. Oncogenesis. 2020 Feb 6;9(2):1-5.	5.995
10	Sharma I, Singh A, SirajF ,Saxena S.IL-8/CXCR1/2 signalling promotes tumor cell proliferation, invasion and vascular mimicry in glioblastoma.JBiomed Sci.2018;25:62	5.762
11	Nirwan N, Siraj F , VohoraD.Inverted-U response of lacosamide on pilocarpine-induced status epilepticus and oxidative stress in C57BL/6 mice is independent of hippocampal collapsin response mediator protein-2.Epilepsy Res. 2018 Jun 18;145:93-101. doi: 10.1016/j.eplepsyres.2018.06.009. [Epub ahead of print]	2.178
12	Mishra CB, Kumari S, Siraj F , Yadav R, Kumari S, Kumar AT, Tiwari M.* The anti-epileptogenic and cognition enhancing effect of novel 1-[4-(4benzo [1, 3] dioxol-5-ylmethyl-piperazin-1-yl)-phenyl]-3-phenyl-urea (BPPU) in pentylenetetrazole induced chronic rat model of epilepsy.BiomedPharmacother.2018 Jun 5;105:470-480. doi: 10.1016/j.biopha.2018.05.140. [Epub ahead of print]	4.545

13	Iqbal R, Jain GK, Siraj F , Vohora D. Aromatase inhibition by letrozole attenuates kainic acid-induced seizures but not neurotoxicity in mice. <i>Epilepsy Res.</i> 2018 Apr 9;143:60-69. doi: 10.1016/j.eplepsyres.2018.04.004.	2.178
14	Khanna A, Bhushan B, Chauhan P.S, Saxena S, Gupta DK, Siraj F* . High mTOR expression independently prognosticates poor clinical outcome to induction chemotherapy in acute lymphoblastic leukemia. <i>Clin Exp Med.</i> 2017;18(2):221-227. https://doi.org/10.1007/s10238-017-0478-x	2.787
15	P Meena, A Manral, V Nemaish, V Saini, F Siraj , PM Luthra, M Tiwari. Novel insights into multitargeted potential of N'-(4-benzylpiperidin-1-yl) alkylamine derivatives in the management of Alzheimer's disease associated pathogenesis. <i>RSC Adv.</i> 2016; 6 (106):104847-867	3.119
16	Manral A, Meena P, Saini V, Siraj F , Shalini S, Tiwari M*. DADS Analogues Ameliorated the Cognitive Impairments of Alzheimer-Like Rat Model Induced by Scopolamine. <i>Neurotox Res.</i> 2016 Oct;30(3):407-26. doi: 10.1007/s12640-016-9625-5.	3.311
17	Sharma I, Siraj F , Sharma KC, Singh A*. Immunohistochemical expression of chemokine receptor CXCR3 and its ligand CXCL10 in low-grade astrocytomas and glioblastoma multiforme: A tissue microarray-based comparison. <i>J Can Res Ther.</i> 2016;12:793-7.	0.842
18	Shruti S, Siraj F* , Singh A, Ramesh V. Epidermodysplasia verruciformis: three case reports and a brief review. <i>Acta Dermatovenerol Alp Pannonica Adriat.</i> 2017 Sep;26(3):59-61.	
19	Siraj F , Shruti S. An unusual florid polypoidal presentation of gastric neuroendocrine tumor. <i>Muller J Med Sci Res</i> 2018;9:43-4	
20	Shruti S, Siraj F* , Ramesh V, Ramesh V. Recurrent pyogenic granuloma over nevus flammeus. <i>Indian J Dermatol Venereol Leprol.</i> 2018 Mar 16. doi:10.4103/ijdv.IJDVL_80_17. [Epub ahead of print]	2.229
21	Bansal A, Kaur M, Dalal V, Siraj F . Papillary pattern in acinic cell carcinoma of parotid gland: A potential diagnostic pitfall on FNAC. <i>J Cytol</i> 2018;35:57-9	0.696
22	Siraj F , Sharma S, Rai CB, Vasudeva P. Primary high grade testicular leiomyosarcoma: A rare malignancy in a young male. <i>Turk J Urol</i> 2017; DOI: 10.5152/tud.2017.15821	0.62
23	Shruti S, Siraj F* . Parathyroid carcinoma: an unusual presentation of a rare neoplasm. <i>GMS Ger Med Sci.</i> 2017;15:Doc21. DOI: 10.3205/000262, URN: urn:nbn:de:0183-0002624	1.17
24	Shruti S, Siraj F* . Matrix-producing metaplastic breast carcinoma – a rare tumor with heterologous elements. <i>GMS Ger Med Sci.</i> 2017;15:Doc17. DOI: 10.3205/000258, URN: urn:nbn:de:0183-0002587	1.17
25	Bansal A, Dalal V, Kaur M, Siraj F . Periapillary Carcinoma: Unusual Sites of Metastasis. <i>Ochsner J.</i> 2017 Winter;17(4):426-429	1.40
26	Siraj F , Shruti S, Vasudeva P. Primary hydatid cyst of the kidney presenting as a complex renal mass, <i>Journal of The Egyptian Society of Nephrology and Transplantation</i> 2017, 17:64–66	
27	Siraj F , Kaur M, Dalal V, Sonam J. Inflammatory myofibroblastic tumor of the breast mimicking malignancy in an elderly male. <i>Ochsner J.</i> 2017;17:277-279.	1.40
28	Jain C, Mittal MK, Siraj F . An extremely rare case of dermoid cyst of urinary bladder. <i>Indian J Radiol Imaging</i> 2017;27:302-5.	
29	Dalal V, Kaur M, Menia R, Siraj F , Bhatnagar A, Agrawal U. Primary Leiomyosarcoma of the Mesentery: A Case Report. <i>Iran J Med Sci.</i> 2017;42(5):505-508.	
30	Siraj F , Shruti S, Sonam J, Bhatnagar A, Agrawal U. Collision Of Malignant Melanoma And Squamous Cell Carcinoma In Rectum: First Report Of A Rare Tumor. <i>Turkish Journal Of Pathology.</i> ;1(1). doi: 10.5146/tjpath.2017.01397.	
31	Dalal V, Siraj F* , Kaur M, Shankar KB, Singh A. Bilateral rhabdoid meningioma mimicking glioma: an unusual occurrence. <i>GMS Ger Med Sci.</i> 2017;15:Doc12. DOI:	1.17

	10.3205/000253, URN: urn:nbn:de:0183-0002533	
32	Shruti S, Singh A, Ramesh V, Siraj F* . Phaeohyphomycosis of the face masquerading as basal cell carcinoma in an immunocompetent patient. Indian Dermatol Online J 2017;8:271-3.	
33	Siraj F , Kaur M, Dalal V, Khanna A, Khan AA. Myeloid sarcoma: a report of four cases at unusual sites. GMS Ger Med Sci. 2017;15:Doc03. DOI: 10.3205/000244, URN: urn:nbn:de:0183-0002441	1.17
34	Kakkar N, Kaur J, Singh GK, Singh P, Siraj F , Gupta A. Gliosarcoma in Young Adults: A Rare Variant of Glioblastoma. World Journal of Oncology 2017.;8 (2):53-57. doi: 10.14740/wjon998w. Epub 2017 May 4.	0.17
35	NehaKakkar, Garima Singh, Deepti Sharma, Ajay Gupta, FouziaSiraj . Primary squamous cell carcinoma breast: a rare case report Intl. J. Clin. Diag. Res. 2017;5(2):II	
36	Siraj F , Kaur M, Agrawal U. Clear cell odontogenic carcinoma of maxilla: A diagnostic challenge. Clin Cancer Investig J. 2016;5:256-8.	1.151
37	Siraj F , Dalal V, Kaur M, Suri K. Radiation induced Leiomyosarcomaof the Oral Cavity: A Rare Occurrence Detected on 18F-FDG PET/CT. World J Nucl Med 2016 Sep;15(3):212-4. doi: 10.4103/1450-1147.172306	
38	Kaur M, Kar K, Dalal V, Siraj F* . Hairy Cell Leukemia in a Young Male: An Unusual Presentation. Iran J Pathol. 2016; 11(4): 421 – 422	
39	Kaur M, Dalal V, Bhatnagar A, Siraj F* . Pancreatic Tuberculosis with Markedly Elevated CA 19-9 Levels: A Diagnostic Pitfall. Oman Medical Journal.2016; (31) 6: 446–49	1.28
40	Varsha D, Kaur M, Chaudhary N, Siraj F* . Solitary Langerhans cell histiocytosis of the hard palate: a diagnostic pitfall. GMS Ger Med Sci. 2016;14:Doc11. DOI: 10.3205/000238, URN: urn:nbn:de:0183-0002389	1.17
41	Siraj F , Dalal V, Khan AA, Jain D. Hepatosplenic T-cell lymphoma with coexistent hepatitis B infection: a rare clinicopathologic entity. Tumori. 2016 Nov 11;102(Suppl. 2). doi: 10.5301/tj.5000445. PMID:26481866	1.707
42	Khan AA, Jain D, Siraj F , Aggarwal S. Spontaneous regression of orbital lymphoma. Indian J of Cancer 2016; 53 : 11-12 .DOI 10.4103/0019-509X.180841	0.765
43	MallyaV, Siraj F , Singh A, Sharma K C. Giant cell glioblastoma with calcification and long-term survival. Indian J Cancer 2015;52:704-5	0.658
44	Dalal V, Kaur M, SirajF , Singh A, Bansal A. Primary testicular lymphoma with solitary cutaneous nodule as the initial presentation. Can Urol Assoc J. 2015 Sep-Oct;9(9-10):E744-7. doi: 10.5489/cuaj.3065. Epub 2015 Oct 13.	1.179
45	Siraj F , Ansari MK, Sharma K C, Singh A. Chordoid meningioma: A diagnostic dilemma. J Can Res Ther 2015 ;11:663	0.842
46	VarshaNarula, FouziaSiraj, AnjuBansal. Renal leiomyosarcoma with soft tissue metastasis: An unusual presentation. Can Urol Assoc J 2015;9(3-4):e139-41. http://dx.doi.org/10.5489/cuaj.2396	1.179
47	Tandon M, Panwar P, Garg P, Chintamani, Siraj F. Neurofibromatosis with male breast cancer-risk factor or co-incidence? Report of two rare cases. Breast Dis. 2015 Jan 1;35(1):29-32.	
48	Bansal, A., Siraj F, Grover SB, Bhatnagar A, Saxena, S. Mesenteric lymphangioma: A rare intraabdominal finding in a pregnant woman. Onc Gas Hep Rep 2015;4:46-8	