



Designation: Professor

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Academic Details:

Degree	Subject	University/ Institution	Year
Ph.D.	Biochemistry	AIIMS, New Delhi	2007
M.D.	Biochemistry	AIIMS, New Delhi	2002
M.B.B.S.	N.A.	N.R.S. Medical College, Calcutta	1995

Positions held:

Position	Department	University/ Institution	Dates
Professor	Biochemistry	AIIMS, New Delhi	2022 – till date
Additional Professor	Biochemistry	AIIMS, New Delhi	2018 – 2022
Associate Professor	Biochemistry	AIIMS, New Delhi	2015 – 2018
Assistant Professor	Biochemistry	AIIMS, New Delhi	2012 – 2015
Assistant Professor	Biochemistry	UCMS, Delhi	2009 – 2012
DST Fast Track Fellow	Biochemistry & Ophthalmology	AIIMS, New Delhi	2006 – 2009

Notable Awards and Society Memberships:

Member of National Academy of Medical Sciences (MNAMS) 2014.

Member of

Society for Neurosciences (SfN)

Federation of European Neuroscience Societies (FENS)

Indian Academy of Neurosciences (IAN)

AMBI and ACBI

Delhi Medical Association

Research Focus of the Lab

Our lab primarily focuses on developing better ways to diagnose/prevent/treat neonatal hypoxic brain injury (cerebral palsy).

List of Lab members:

Currently enrolled Ph.D. scholars:

1. Ms. Taranjeet Kaur, MBIotech
2. Ms. Aaliya Gauhar, MSc

M.D. student:

1. Dr. Preeti Vani

M.Sc student:

1. Ms. Bhavya Gautam

Staff:

1. Mrs. Amrita Sachdeva (Admn.)
2. Mr. Pramod Kumar (Lab technician)

Lab alumni:

1. Dr. Vadanya Shrivastava, MD, PhD
2. Dr. Sagar Tyagi, PhD
3. Dr. Devanjan Dey, PhD
4. Dr. Janvie Manhas, MD, PhD
5. Dr. Aditi Bhattacharya, PhD
6. Dr. Amarpreet Kaur, MD, PhD
7. Dr. Sona Fazil, MD
8. Dr. Pawan Pagaku, MD
9. Dr. Pradeep Jingar, MD
10. Dr. Sandeep K. Agrawal, MD
11. Ms. Nupur Khera, MSc
12. Ms. Sumedha Saluja, MSc
13. Ms. Diksha Joshi, MSc
14. Ms. Sweety Rani Goyal, MSc

Positions Available: Contact by email to get the latest information. Check the seats available in the upcoming PhD / MD / MSc entrance exams.

Recent publications:

1. Manhas J, Bhardwaj R, Tyagi S, Kapuganti RS, Bharadwaj A, Sharma J, Sharma G, Joshi D, Jain A, Mani P, Deo SVS, Parshad R, Das P, Singh A, Mathew SJ, **Sen S**, Palanichamy JK. Tumor Suppressor Candidate 1 (TUSC1) drives oxidative phosphorylation and tumor cell death in colorectal cancer. **Apoptosis**, 2026, 31(5):130. doi: 10.1007/s10495-026-02336-9.
2. Tyagi S, Pagaku PK, Shrivastava V, Dey D, Aryal A, Bhattacharya A, Rani S, Garg B, Khanna P, Goyal A, Nayak D, Srivastava RK, Mridha AR, **Sen S**. *Symphytum officinale* enhances fracture healing in Wistar albino rats by promoting osteogenesis in fracture callus. **Journal of Ayurveda and Integrative Medicine**, 2026. *Accepted*.
3. Manhas J, Tyagi S, Sharma A, Joshi D, Sharma G, Parshad R, Das P, Singh A, **Sen S**, Palanichamy JK. Divergent cellular responses to NUPR1 variant overexpression in colorectal cancer. **Scientific Reports**, 2026. *Accepted*.

4. Shrivastava V, Dey D, Singh A, Palanichamy JK, Sinha S, Sharma JB, Seth P, **Sen S**. Glial cholesterol redistribution in hypoxic injury *in vitro* influences oligodendrocyte maturation and myelination. **BBA – Molecular Basis of Disease**, 2024 Dec; 1870(8): 167476. doi:10.1016/j.bbadis.2024.167476.
5. Dey D, Tyagi S, Shrivastava V, Rani S, Sharma JB, Sinha S, Palanichamy JK, Seth P, **Sen S**. Using human fetal neural stem cells to elucidate the role of the JAK-STAT cell signaling pathway in oligodendrocyte differentiation *in vitro*. **Molecular Neurobiology**, 2024 Aug; 61(8): 5738 – 5753. doi:10.1007/s12035-024-03928-9.
6. Dey D, Shrivastava V, Joshi D, Singal CMS, Tyagi S, Bhat MA, Jaiswal P, Sharma JB, Palanichamy JK, Sinha S, Seth P, **Sen S**. Hypoxia induces early neurogenesis in human fetal neural stem cells by activating the WNT pathway. **Molecular Neurobiology** 2023 May; 60(5): 2910-2921. doi:10.1007/s12035-023-03248-4.
7. Sampath M, Bade G, Guleria R, Mohan A, **Sen S**, Dey D, Talwar A. Phenotypic Profiling of Immune Cells and Their Mediators in Chronic Obstructive Pulmonary Disease. **Biomedicines** 2023;11(8):2166. doi:10.3390/biomedicines11082166.
8. Manhas J, Lohani LR, Seethy A, Kumar U, Gamanagatti S, **Sen S**. Case report: Characterization of a rare pathogenic variant associated with loss of COL3A1 expression in vascular Ehlers Danlos syndrome. **Frontiers in Cardiovascular Medicine**, October, 2022. doi:10.3389/fcvm.2022.939013.
9. Aryal A, Pagaku PK, Dey D, Tyagi S, Shrivastava V, Bhattacharya A, Rani S, Nayak D, Khurana A, Khanna P, Goyal A, Mridha AR, Garg B, **Sen S**. Protocol for developing a femur osteotomy model in Wistar albino rats. **Journal of Visualized Experiments**, Aug 2022; e63712. doi:10.3791/63712.
10. Shrivastava V, Dey D, Singal CMS, Jaiswal P, Singh A, Sharma JB, Chattopadhyay P, Nayak NR, Palanichamy JK, Sinha S, Seth P, **Sen S**. Glutamate uptake is not impaired by hypoxia in a culture model of human fetal neural stem cell-derived astrocytes. **Genes**, 2022; 13(3): 506. doi:10.3390/genes13030506.