

Name: Dr. Sandeep Agrawal

Designation: Scientist E

Contact Details:

Room No. 301

ICMR-National Institute of Pathology

Sriramachari Bhawan

Safdarjung Hospital Campus

New Delhi-110029

Telephone: 26198402-06

Email: drsandeepagrawal25@gmail.com

agrawal.sandeep@icmr.gov.in

Research interests: Cancer immunology, Nutrition

Academic Details:

Degree	Subject	University/Institute	Year
MBBS	All Compulsory Medical Subjects	Gandhi Medical College, Bhopal	2011
MD	Biochemistry	AIIMS, New Delhi	2015
DNB	Biochemistry	National Board of Examinations, New Delhi	2019

Positions held:

Position	Department	University/Institute	From	To
Scientist E		ICMR-National Institute of Pathology, New Delhi	July 2021	Till Date
Assistant Professor	Biochemistry	AIIMS, Raebareli	August 2019	June 2021
Assistant Professor	Biochemistry	PGIMER Chandigarh Satellite Centre, Sangrur, Punjab	September 2018	August 2019
Senior Resident	Biochemistry	AIIMS, New Delhi	August 2015	August 2018

Awards/Recognition:

- International Travel Award from Australian Society for Stem Cell Research (ASSCR) to attend Stem Cells in the Hunter Valley, NSW, Australia in October 2015.
- Best Poster Award at 41st Annual Conference of Association of Clinical Biochemists of India (ACBICON) held at AIIMS, Jodhpur, December 2014.
- ICMR award for MD Dissertation Thesis entitled "Analysis of the expression of mucins and angiogenesis markers in human oral mucosal epithelial cells (OMEC) on using Mycophenolate mofetil (MMF) and Bevacizumab (BVCZ) *in vitro*." 2013.
- Gold Medal for Distinction in Pharmacology from Gandhi Medical College, Bhopal (MP), 2008

Membership of Scientific/Academic Societies:

- Member of National Academy of Medical Sciences (MNAMS)
- Association of Clinical Chemistry & Lab Medicine Practitioners (ACCLMP): Life Member
- Association of Clinical Biochemists of India (ACBI): Life Member
- Association of Medical Biochemists of India (AMBI): Life Member
- The AIIMSonians: Life Member

Expert Speaker/Resource Person:

- Presented a lecture on 'Primer Designing Concepts & Applications of Real Time PCR' during Pre-Conference Workshop on 'Gene Expression in Health & Disease', ACBICON 2015 held at PGIMER Chandigarh.
- Organized CME cum workshop (as resource person) on Flow Cytometry during 64th NATCON 2016 held at AIIMS, Jodhpur.

Special trainings:

- 'Quality Management Systems and Internal Audit in Medical Laboratories as per ISO 15189:2012' held at New Delhi, July 2018.
- 'BD FACSOrient (BD LSR II): A course in Flow Cytometry Basics' at the BD-JH FACS Academy, New Delhi, June 2016.

Publications:

- Bhattacharya A, Saluja S, Managuli V, **Agrawal S**, Dey D, et al. Comparing Migratory and Mechanical Properties of Human Bone Marrow-Derived Mesenchymal Stem Cells with Colon Cancer Cells In Vitro. *J Gastrointest Canc* (2020). [<https://doi.org/10.1007/s12029-020-00476-y>]
- Dey D, Jingar P, **Agrawal S**, Shrivastava V, Bhattacharya A, Manhas J, et al. *Symphytum officinale* augments osteogenesis in human bone marrow-derived mesenchymal stem cells in vitro as they differentiate into osteoblasts. *J Ethnopharmacol*. 2020 Feb 10;248:112329. [doi: 10.1016/j.jep.2019.112329. Epub 2019 Oct 28].
- Kaur AP, **Agrawal S**. A review of the molecular mechanism of apoptosis and its role in pathological conditions. *Int. J. Pharm. Bio. Sci.* 2019 Apr; 10(2): 124-131. [<http://dx.doi.org/10.22376/ijpbs.2019.10.2.b124-131>].
- **Agrawal S**, Bhattacharya A, Manhas J, Sen S. Molecular Diagnostics in Colorectal Cancer. In: Shukla K, Sharma P, Misra S. (eds) *Molecular Diagnostics in Cancer Patients*: Springer; 2019. p. 143-55. [https://doi.org/10.1007/978-981-13-5877-7_9].
- **Agrawal S**, Bhattacharya A, Manhas J, Kholakiya Y, Khera N, Roychoudhury A, et al. Increased Mucin Expression in Oral Mucosal Epithelial Cells in vitro: A Potential New Role of Mycophenolate Mofetil. *Tokai J Exp Clin Med*. 2018;43(4):132-8. [PMID: 30488399].
- **Agrawal S**, Kaur AP, Taneja K. A Comprehensive Review of Benzo Alpha Pyrene (B [A] P) Toxicology. *Res. J. Pharm., Biol. Chem. Sci.* 2018 Jul;9(4):1049-58. [<https://doi.org/10.33887/rjpbcs>].
- Manhas J, Bhattacharya A, **Agrawal S**, Gupta B, Das P, Deo S, Pal S, Sen S. Characterization of cancer stem cells from different grades of human colorectal cancer. *Tumour Biol*. 2016 Oct;37(10):14069-14081. Epub 2016 Aug 9. [PMID: 27507615, doi: 10.1007/s13277-016-5232-6].

Online e-Learning Modules Published:

- Cell cycle regulation and cancer, in Cellular and Molecular Biophysics paper of ePG-Pathshala under National Mission on Education through Information and Communication and Technology (NMEICT), MHRD, Govt. of India. 2018. [<http://epgp.inflibnet.ac.in/ahl.php?csrno=1174>]
- Apoptosis in health and disease, in Cellular and Molecular Biophysics paper of ePG-Pathshala under National Mission on Education through Information and Communication and Technology (NMEICT), MHRD, Govt. of India. 2018. [<http://epgp.inflibnet.ac.in/ahl.php?csrno=1174>]