

Navjeet Kaur B Lotey (She/Her)

Mahim (W), 400016 Mumbai

9930608195

16/04/1989

navjeetkaurphd@gmail.com

https://www.linkedin.com/in/navjeet-kaur-83a63514b/

@Navjeet0416

Profile

An enthusiastic and result-oriented academic working in the domain of interdisciplinary sciences. Experienced in diversified roles such as grant projects, mentoring student research, setting up specialized laboratories, organizing conferences, workshops with international collaborations and managing scientific administrative work with great efficiency. Demonstrated excellent presentation and interpersonal skills.

Being a climate action enthusiast I'm driven to design any given workflow in the most economic and ecofriendly manner feasible. I believe that a focused, ethical and mindful approach is the simplest and most efficient way to success and sustainability.

Professional Experience

06/2023 – present	**Research Co-ordinator,** *SIRAC, Somaiya University*	Mumbai
09/2019 – 05/2023	**Assistant Professor,** *National Center for Nanosci. & Nanotech, UoM*	Mumbai
06/2016 – 08/2019	**Assistant Professor,** *Ramnarain Ruia Autonomous College*	Mumbai
06/2015 – 04/2016	**Assistant Professor,** *Institute of Forensic Science*	Mumbai
05/2012 – 05/2015	**Volunteer Researcher,** *Jaslok Hospital and Research Center*	Mumbai
07/2013 – 04/2015	**Visiting Faculty,** *Various Colleges*	Mumbai

Education

09/2018 – 09/2022	**PhD (Nano-Biotechnology),** *University of Mumbai*	Mumbai
06/2010 – 04/2012	**M.Sc (Biotechnology),** *Guru Nanak Khalsa College (UoM)*	Mumbai
06/2007 – 04/2010	**B.Sc (Biotechnology),** *N.B. Mehta College of Science (UoM)*	Bordi

Skills

Animal Cell Culture ●●●●○
Stem cell culture, Mammalian cell culture, Onco-markers

Molecular Biology ●●●●○
PCR, Electrophoresis, Immunofluorescence, Microscopy

Nanobiology ●●●●○
Synthesis, Nanotoxicity, Drug delivery, Conjugation

Analytical ●●●○○
UV-Vis, XRD, VSM, HPLC, FTIR, NMR, Microscopy

Awards

08/09/2021 **DST- WoS B Grant Recepient,** *DST, Govt. of India*
Principal Investigator on a project related to drug delivery using biocompatible polymers which received a grant worth 23 lakh INR

Certificates

Basic course on Additive Manufacturing and 3D Printing
Sponsored by Govt. of India

Women in Science - Administration and Management (Level 2)
Sponsored by British Council and IISER Pune

Bioinformatics and Artificial Intelligence, University of Mumbai
Sponsored by MHRD UGC

Reasech based pedagogical tools for STEM teachers (Level 1)
Sponsored by Newton Bhaba - British Council Fund

Innovative experiments in biological sciences for college teachers
Sponsored by HBCSE - TIFR

Hands on workshop on forensic microscopy for academicians, IISc Bangalore
Sponsored by ZIESS, India

Publications

2023 **Low Concentration PAMAM Dendrimer Coated Superparamagnetic Iron Oxide Nanoparticles – Potentials in MR Imaging and Theranostics,** *Submitted*

2022 **Hybrid Nano Particles for Biomedical Applications,** *Springer Nature*
Book title: "Nanomaterials for cancer detection using imaging techniques and their clinical applications"

2022 **Dendrimer Coated SPIONs: Synthesis, Characterization and Potentials in Biomedical Applications,** *Acta Scientific Med Sci; 10.31080/ASMS.2022.06.1353; Research Article (International)*

2020 **Dendrimer based Nanoparticles as potential drug delivery vehicles to enhance effect of pulmonary disease treatment drugs,**
Structural Chemistry and Crystallography Communication; Extended Abstract

2018 **Dendrimer coated SPIONs for exploring biomedical applications,**
J Nanomed Nanotechnol 2018, Volume 9; Conference Proceedings - International

2018 **Polyamidoamine (PAMAM) dendrimer coated iron oxide nanoparticles for biomedical applications,** *Nanomed Nanotechnol ISSN: 2157-7439; Proceeding of Conference - (International)*

2016 **Skill India Development with special reference to Dahanu rd area,**
Vol.4, Issue 11; ISSN: 2319-2429; Proceeding of Conference - (National)

2015 **Isolation, Characterization and Application of BCR-ABL-ve MSCs Derived from Peripheral Blood of CML...,** *Int J Stem Cell (2015); Res 1(1): ISSN: 2472-6990; Research Article - (International)*

2015 **Role of circulating tumor cells in future diagnosis and therapy of cancer.,**
J Cancer Metastasis Treat; 2015;1:44-56. ISSN: 2394-4722; Review Article - (International)

2014 **Stem Cells – A Promise to Elixir,**
Enliven:J Stem Cells Regen Med (2014); 1(1):003; ISSN: 2379-5751; Review Article - (International)

Other Activities

2022 **Current Research,** *Establishing new laboratories to cater research in the field of nano-biotechnology*

2021 **FameLab Climate Communicator,** *International communication platform by British Council*

2018 **Nanobiotechnology Workshop,**
Organizer - In collaboration with Harrisburg University and R. Ruia College

2017 – 2019 **Basics in ATC,** *Workshop Organizer and Instructor, R. Ruia College*

2018 – 2019 **Public Speaking Workshop (6 weeks),** *Organizer & Instructor R. Ruia College*

2018 **Content Developer,** *GoI e-Pathshala, Forensic Biology*