

CURRICULUMVITAE



DR.SUVANKAR GHORAI

Ph.D.-IITKharagpur, India

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PROFESSIONALEXPERIENCE

Visiting Scientist (Nov23– Dec 24)

Assistant Professor(2020– Present)

Research Assistant Professor (2016–2020)

Research Scientist (2013 – 2016)

Senior Postdoctoral Fellow (2011 – 2013)

Postdoctoral Fellow (July 2010 –Dec 2010)

Research Fellow (2004 – 2010)

Florida International University, USA

Raiganj University, WB, India.

SRM University, Chennai

National Center for Cell Science, Pune

University of Washington, Seattle, USA

New Jersey Medical School, NJ, USA

IIT-Kharagpur

About Me:

Dr. Suvankar Ghorai obtained his Ph.D. from Indian Institute of Technology Kharagpur. From 2010 to 2013, he received postdoctoral training in various aspects of HCV, HIV, and AIDS research at University of Washington and New Jersey Medical School. After returning to India, he worked as a Research Scientist at National Centre for Cell Science from November 2013 to July 2016, where his research focused on chromatin biology and gene regulation.

From August 2016 to March 2020, Dr. Ghorai served as a Research Assistant Professor at SRM Institute of Science and Technology, where he established and developed an Infection and Disease Biology Laboratory. In March 2020, he joined Raiganj University. Since November 2023, he has been working as a Visiting Scientist at Florida International University, conducting research on lung inflammation in smokers and people living with HIV.

About My Research:

My research interests lie in the field of Infection Biology, with a primary focus on viral infections, antiviral therapeutics, and the development of affordable point-of-care diagnostic technologies. My current research investigates host factors involved in Dengue virus infection as potential therapeutic targets, alongside the development of innovative diagnostic approaches for infectious diseases. In addition to Dengue virus, my work also encompasses other clinically significant viruses, including Human Papillomavirus (HPV) and Coronavirus.

I am further interested in understanding microRNA dysregulation and gene regulatory mechanisms across diverse disease conditions, with the aim of identifying novel biomarkers and therapeutic strategies.

My research has been supported by several prestigious funding agencies in India, including the Indian Council of Medical Research (ICMR), Department of Biotechnology (DBT), University Grants Commission (UGC), and Ministry of Human Resource Development (MHRD). With more than 14 years of post-Ph.D. research experience and a strong academic foundation, I remain committed to addressing complex scientific challenges through innovative and translational research.

Awards & Recognition

- Junior Research Fellowship from DBT (Dept. of Biotechnology), Govt of. India.
- Senior Research Fellowship from DBT & DST (Dept. of Science and Technology), Govt of. India.
- CFAR-(Center for AIDS Research) Senior post-doctoral Fellowship
- CROI-Young Investigator award-CROI-2012 Seattle, USA.
- Visiting Scientist fellowship-Florida International University, NIH, USA
- Member of the Society: Indian Science Congress (ISCA)
- Reviewer & Editor: Frontiers of Microbiology, Antimicrobials, Resistance and Chemotherapy, Biosensors and Bioelectronics, Nanomedicine, Pharmaceuticsetc.

Research Publications

2026

1. Patra, S., Shand, H., Ghorai, S. Nanobiosensor-based strategies for early cancer detection and therapeutic monitoring. *Biomedical Material Devices* (2026). <https://doi.org/10.1007/s44174-026-00688-z>
2. Patra, S., Shand, H., Ghorai, S. The role of artificial intelligence (AI) in the early detection of women-specific cancers. *Discover Medicine* (2026); 3, 37. <https://doi.org/10.1007/s44337-026-00594-9>
3. Patra, S., Shand, H., Ghorai, S. Emerging Evidence of Viral Involvement in Testicular and Penile Carcinogenesis. *Future Virology* (2026); 1-15. <https://doi.org/10.1080/17460794.2026.2654388>

2025

4. Patra, S., Shand, H., Ghosal, S., & Ghorai, S. (2025). Harnessing Polydiacetylene (PDA): A Review of Structural Mechanics and Infectious Disease Detection. *Next Materials*, 8:100687. doi.org/10.1016/j.nxmte.2025.100687.
5. Patra, S., Shand, H., Ghosal, S., & Ghorai, S. (2025). HPV and Male Cancer: Pathogenesis, Prevention and Impact. *Journal of the Oman Medical Association*, 2(1), 4. doi.org/10.3390/joma2010004
6. Patra, S., Paul, A., Shand, H., Ghosal, S., Ghorai, S. In silico identification of anticancer flavonoids as dengue virus replication inhibitors: a molecular docking and simulation approach. *Journal of Molecular Modeling* (2025); 31, 287. <https://doi.org/10.1007/s00894-025-06516-3>

2024

7. Panda, K., Santiago, M. J., Rahman, M. S., Ghorai, S., Black, S. M., Rahman, I., Unwalla, H. J., & Chinnapaiyan, S. (2024). HIV-1 Tat Protein and Cigarette Smoke Mediated ADAM17 Upregulation Can Lead to Impaired Mucociliary Clearance. *Cells*, 13(23), 2009. <https://doi.org/10.3390/cells13232009>
8. Rahman, M. S., Ghorai, S., Panda, K., Santiago, M. J., Aggarwal, S., Wang, T., ... & Unwalla, H. J. (2024). Dr. Jekyll or Mr. Hyde: The multifaceted roles of miR-145-5p in human health and disease. *Non-coding RNA Research*.
9. Shand, H., Patra, S., & Ghorai, S. (2024). Fatty acid binding protein as a new age biomarker. *Clinica Chimica Acta*, 120029.
10. Santiago MJ, Chinnapaiyan S, Panda K, Rahman MS, Ghorai S, Lucas JH, Black SM, Rahman I, Unwalla HJ. MicroRNA mediated suppression of airway lactoperoxidase by TGF- β 1 and cigarette smoke promotes airway inflammation. *J Inflamm (Lond)*. 2024 Aug 27;21(1):31. doi: 10.1186/s12950-024-00405-x
11. Shand H, Patra S, Chandrasekhar B, Kulkarni S, Madhavan T, Ghorai S. In-silico binding affinity of a phage display library screened novel peptide against various FABPs. In *Silico Pharmacol*. 2024 Aug 21;12(2):76. doi: 10.1007/s40203-024-00251-y. PMID: 39184230; PMCID: PMC11339228.
12. Santiago MJ, Chinnapaiyan S, Panda K, Rahman MS, Ghorai S, Rahman I, Black SM, Liu Y, Unwalla HJ. Altered Host microRNAomics in HIV Infections: Therapeutic Potentials and Limitations. *Int J Mol Sci*. 2024 Aug 13;25(16):8809. doi: 10.3390/ijms25168809.
13. Ghorai S, Shand H, Patra S, Panda K, Santiago MJ, Rahman MS, Chinnapaiyan S, Unwalla HJ. Nanomedicine for the Treatment of Viral Diseases: Smaller Solution to Bigger Problems. *Pharmaceutics*. 2024 Mar 16;16(3):407. doi: 10.3390/pharmaceutics16030407. PMID: 38543301; PMCID: PMC10975899.
14. Kotal, H., Kalyani, T., Sangili, A., Mandal, R. K., Ghorai, S., & Jana, S. K. (2024). Revolutionizing hpv detection: unveiling a novel electrochemical immunosensor for ultra-sensitive hpv16 e7 oncoprotein detection based on gold-graphitic carbon nitride nanocomposite. *Journal of the Electrochemical Society*, 171(2), 027519. <https://doi.org/10.1149/1945-7111/ad281b>
15. Shand, H., Dutta, S., Patra, S., Jain, H., Mondal, R., Mandal, A. K., ... & Ghorai, S. (2023). Nanoparticle-based intervention to cardiovascular diseases (cvds). *Applied Nanoscience*, 14(1), 57-67. <https://doi.org/10.1007/s13204-023-02947-7>

2023

16. Patra, S., Ghosal, S., Shand, H., Mondal, R., Rath, A., Jana, S. K., & Ghorai, S. (2023). Function of gamma delta ($\gamma\delta$) T cell in cancer with special emphasis on cervical cancer. *Human Immunology*, 84(12). doi:10.1016/j.humimm.2023.110724
17. Ghorai S (2023) Editorial: Reviews in neglected tropical infectious diseases. *Front. Microbiol*. 14:1196838. doi: 10.3389/fmicb.2023.1196838
18. Dutta R, Rajendran K, Jana SK, Saleena LM, Ghorai S. Use of Graphene and Its Derivatives for the Detection of Dengue Virus. *Biosensors*. 2023; 13(3):349. <https://doi.org/10.3390/bios13030349>

2022

19. Mondal R, Dam P, Chakraborty J, Paret ML, Kati A, Altuntas S, Sarkar R, Ghorai S, Gangopadhyay D, Mandal AK, Husen A. Potential of nanobiosensor in sustainable agriculture: the state-of-art. *Heliyon*. 2022 Dec 8;8(12):e12207. doi:10.1016/j.heliyon.2022.e12207.
20. P. Dam, S. Altuntas, R. Mondal, J.R.V. Baudrit, A. Kati, S. Ghorai, A. Sadat, D. Gangopadhyay, S. Shaw, O.L. Franco, N. Temur, Y.N. Ertas, A.M. Mandal, I. Ocoy. Silk-based nano-biocomposites scaffolds for skin organogenesis. *Mater. Lett.*, 327 (2022), Article 133024. <https://doi.org/10.1016/j.matlet.2022.133024> [Get rights and content](#)
21. Nesa J, Jana SK, Sadat A, Biswas K, Kati A, Kaya O, Mondal R, Dam P, Thakur M, Kumar A, Hossain M, Lima LR, Rezende SB, Bhattacharjya D, Gangopadhyay D, Ghorai S, Altuntas S, Panda AK, Chakrabarti P, Swarnakar S, Chakraborty J,

Yilmaz B, Macedo MLR, Franco OL, Cardoso MH, Mandal AK. Antimicrobial potential of a ponicin-like peptide isolated from *Bombyx mori* L. hemolymph in response to *Pseudomonas aeruginosa* infection. *Sci Rep.* 2022 Sep 15;12(1):15493. doi: 10.1038/s41598-022-19450-8. PMID: 36109567; PMCID: PMC9477818.

22. KT, R. D., Karthick, D., Saravanaraj, K. S., Jaganathan, M. K., Ghorai, S., & Hemdev, S. P. (2022). The Roles of MicroRNA in Pancreatic Cancer Progression. *Cancer Investigation*, 40(8), 700–709. <https://doi.org/10.1080/07357907.2022.2057526>

23. Shand H, Dutta S, Rajakumar S, James Paulraj S, Mandal AK, KT RD and Ghorai S (2022) New Age Detection of Viruses: The Nano-Biosensors. *Front. Nanotechnol.* 3:814550. doi: 10.3389/fnano.2021.814550

24. Pradhan S, Hore S, Maji SK, Manna S, Maity A, Kundu PK, Maity K, Roy S, Mitra S, Dam P, Mondal R, Ghorai S, Jawed JJ, Dutta S, Das S, Mandal S, Mandal S, Kati A, Sinha S, Maity AB, Dolai TK, Mandal AK, Ince İA. Study of epidemiological behaviour of malaria and its control in the Purulia district of West Bengal, India (2016-2020). *Sci Rep.* 2022 Jan 12;12(1):630. doi: 10.1038/s41598-021-04399-x. PMID: 35022476; PMCID: PMC8755807.

2021

25. Reshmi Dutta, Lilly M Saleena, Suvankar Ghorai. DENV host interaction and altered antiviral pathway during DENV infection. Abstracts of National Conference on Biological, Biochemical, Biomedical, Bioenergy, and Environmental Biotechnology. <https://doi.org/10.21467/abstracts.109>.

2020

26. Dutta R, Thangapandi K, Mondal S, Nanda A, Bose S, Sanyal S, Jana SK, Ghorai S. Polyaniline Based Electrochemical Sensor for the Detection of Dengue Virus Infection. *Avicenna J Med Biotechnol.* 2020 Apr-Jun;12(2):7784.

27. Gopalakrishnan D, Sumithaa C, Madan Kumar A, Bhuvanesh N. S. P, Ghorai S, Das P, and Ganeshpandian M. Encapsulation of a Ru(η^6 -p-cymene) complex of the antibacterial drug trimethoprim into a polydiacetylene-phospholipid assembly to enhance its in vitro anticancer and antibacterial activities. *New J. Chem.*, 2020, 44, 20047-20059. <https://doi.org/10.1039/D0NJ03664A>

28. Dhal A, Kalyani T, Ghorai S, Sahu N. K, and Jana S. K. Recent development of electrochemical immunosensor for the diagnosis of dengue virus NSI protein: A review. *Sensors International*, 2020: 100030. <https://doi.org/10.1016/j.sintl.2020.100030>.

2019

29. Sivagnanam S, Amutha Arul A, Ghosh S, Dey A, Ghorai S*, and Das P. Concentration-dependent fabrication of short-peptide-based different self-assembled nanostructures with various morphologies and intracellular delivery property. *Mater. Chem. Front.*, 2019, 3, 2110-2119. DOI: <https://doi.org/10.1039/C9QM00363K>

2018

30. Taye N, Alam A, Ghorai S, Chatterji DG, Parulekar A, Mogare D, Singh S, Sengupta P, Chatterjee S, Bhat MK, Santra MK, Salunkhe PB, Finston SK, Chattopadhyay S. SMAR1 inhibits Wnt/ β -catenin signaling and prevents colorectal cancer progression. *Oncotarget.* 2018 Apr 20;9(30):21322-21336. doi: 10.18632/oncotarget.25093. PMID: 29765542; PMCID: PMC5940383.

2017

31. Dapp MJ, Kober KM, Chen L, Westfall DH, Wong K, Zhao H, Hall BM, Deng W, Sibley T, Ghorai S, Kim K, Chen N, McHugh S, Au L, Cohen M, Anastos K, Mullins JI. Patterns and rates of viral evolution in HIV-1 subtype B infected females and males. *PLoS One.* 2017 Oct 18;12(10):e0182443. doi: 10.1371/journal.pone.0182443.

32. Paul D, Ghorai S, Dinesh US, Shetty P, Chattopadhyay S, Santra MK. Cdc20 directs proteasome-mediated degradation of the tumor suppressor SMAR1 in higher grades of cancer through the anaphase promoting complex. *Cell Death Dis.* 2017 Jun 15;8(6):e2882. doi: 10.1038/cddis.2017.270. PMID: 28617439; PMCID: PMC5520925.

33. Biswas A, Khandelwal P, Das R, Salunke G, Alam A, Ghorai S, Chattopadhyay S, Poddar P. Oxidant mediated one-step complete conversion of multi-walled carbon nanotubes to graphene quantum dots and their bioactivity against mammalian and bacterial cells. *J Mater Chem B.* 2017 Jan 28;5(4):785-796. doi: 10.1039/c6tb02446g. Epub 2017 Jan 5. PMID: 32263847.

2016

34. Mathai J, Mittal SP, Alam A, Ranade P, Mogare D, Patel S, Saxenam S, Ghorai S, Kulkarni AP, Chattopadhyay S. SMAR1 binds to T(C/G) repeat and inhibits tumor progression by regulating miR-371-373 cluster. *Sci Rep.* 2016 Sep 27;6:33779. doi: 10.1038/srep33779.

2015

35. Sunshine JE, Larsen BB, Maust B, Casey E, Deng W, Chen L, Westfall DH, Kim M, Zhao H, Ghorai S, Lanxon-Cookson E, Rolland M, Collier AC, Maenza J, Mullins JI, Frahm N. Fitness-Balanced Escape Determines Resolution of Dynamic Founder Virus Escape Processes in HIV-1 Infection. *J Virol.* 2015 Oct;89(20):10303-18. doi: 10.1128/JVI.01876-15. Epub 2015 Jul 29. PMID: 26223634; PMCID: PMC4580195.

36. Mirlekar B, Ghorai S, Khetmalas M, Bopanna R, Chattopadhyay S. Nuclear matrix protein SMAR1 control regulatory T-cell fate during inflammatory bowel disease (IBD). *Mucosal Immunol.* 2015 Nov;8(6):1184-200. doi: 10.1038/mi.2015.42. PMID: 25993445;

37. Herbeck J, Ghorai S, Chen L, Rinaldo CR, Margolick JB, Detels R, Jacobson L, Wolinsky S, Mullins JI. p21(WAF1/CIP1) RNA expression in highly HIV-1 exposed, uninfected individuals. *PLoS One.* 2015 Mar 6;10(3):e0119218. doi: 10.1371/journal.pone.0119218.

38. Padhye P, Alam A, Ghorai S, Chattopadhyay S, and Poddar P. Doxorubicin-conjugated β - NaYF₄:Gd³⁺/Tb³⁺ multifunctional,

phosphor nanorods: a multi-modal, luminescent, magnetic probe for simultaneous optical and magnetic resonance imaging and an excellent pH-triggered anti-cancer drug delivery nanovehicle. *Nanoscale*, 2015,7, 19501-19518. <https://doi.org/10.1039/C5NR04473A>

2014

39. Agarwalla H, Taye N, Ghorai S, Chattopadhyay S, Das A. A novel fluorescence probe for estimation of cysteine/histidine in human blood plasma and recognition of endogenous cysteine in live Hct116 cells. *Chem Commun (Camb)*. 2014 Sep 7;50(69):9899-902. doi: 10.1039/c4cc04214j. PMID: 25027189.

2012

40. Roy S, Ravipati VR, Ghorai S, Chakrabarti M, Das AK, Ghosh AK. Kinetic analysis, expression pattern, and production of a recombinant fungal protease inhibitor of tasar silkworm *Antheraea mylitta*. *Appl Biochem Biotechnol*. 2012 Nov;168(5):1076-85. doi: 10.1007/s12010-012-9842-1. Epub 2012 Aug 31. PMID: 22935928.

2010

41. Chakrabarti M, Ghorai S, Mani SK, Ghosh AK. Molecular characterization of genome segments 1 and 3 encoding two capsid proteins of *Antheraea mylitta* cytoplasmic polyhedrosis virus. *Virology*. 2010 Aug 4;7:181. doi: 10.1186/1743-422X-7-181. PMID: 20684765; PMCID: PMC2927528.

42. Ghorai S, Chakrabarti M, Roy S, Chavali VR, Bagchi A, Ghosh AK. Molecular characterization of genome segment 2 encoding RNA dependent RNA polymerase of *Antheraea mylitta* cytoplasmic polyhedrosis virus. *Virology*. 2010 Aug 15;404(1):21-31. doi: 10.1016/j.virol.2010.04.019. Epub 2010 May 20. PMID: 20488502; PMCID: PMC7111928.

43. Maity S, Goel SI, Roy S, Ghorai S, Bhattacharyya S, Venugopalan A, Ghosh AK. Analysis of Transcripts Expressed in One-Day-Old Larvae and Fifth Instar Silk Glands of Tasar Silkworm, *Antheraea mylitta*. *Comp Funct Genomics*. 2010;2010:246738. doi: 10.1155/2010/246738. Epub 2010 May 4. PMID: 20454581; PMCID: PMC2864506.

2009

44. Mukherjee S, Maity S, Roy S, Ghorai S, Chakrabarti M, Agarwal R, Dutta D, Ghosh AK, Das AK. Cloning, overexpression, purification, crystallization and preliminary X-ray diffraction analysis of glyceraldehyde-3-phosphate dehydrogenase from *Antheraea mylitta*. *Acta Crystallogr Sect F Struct Biol Cryst Commun*. 2009 Sep 1;65(Pt 9):937-40. doi: 10.1107/S174430910903214X.

2008

45. Chavali VR, Madhurantakam C, Ghorai S, Roy S, Das AK, Ghosh AK. Genome segment 6 of *Antheraea mylitta* cypovirus encodes a structural protein with ATPase activity. *Virology*. 2008 Jul 20;377(1):7-18. doi: 10.1016/j.virol.2008.03.038.

Books and Book Chapters

46. Patra, S., Shand, H., Dutta, S., Mondal, R., & Ghorai, S. (2025). Enzymatic Nanobiosensor Strategies to Contain the Spread of Infectious Diseases. *Nano-Biosensor Technologies for Diagnosis of Infectious Diseases*, 231-240. doi.org/10.1002/9781394287697.ch7

47. Genc, D., Kati, A., Mandal, A. K., Ghorai, S., Salami, H., ElHefnawi, S. N. K., & Altuntas, S. (2025). Respiratory System-Based In Vitro Antiviral Drug Repurposing Strategies for Sars-Cov-2. In *Organoid Technology: Disease Modelling, Drug Discovery, and Personalized Medicine* (pp. 144-158). Bentham Science Publishers.

48. Chapter 18 - Plant response-driven fertilizer nutrient development: Harshita Shand and Rittick Mondal and Pankaj Mandal and Soumendu Patra and Suvankar Ghorai and Amit Kumar Mandal. <https://doi.org/10.1016/B978-0-443-16082-0.00011-4>.

49. Functionalized Smart Nanomaterials for Point-of-Care Testing: Amit Kumar Mandal, Suvankar Ghorai, Azamal Husen. *Smart Nanomaterials Technology*. Springer, Singapore. https://doi.org/10.1007/978-981-99-5787-3_8.

50. Maize Waste Utilization for Nanoparticles Synthesis and Their Various Application. In: Husen, A. (eds) *Nanomaterials from Agricultural and Horticultural Products*. Shand, H., Mondal, R., Ghorai, S., Mandal, A.K. (2023). *Smart Nanomaterials Technology*. Springer, Singapore. https://doi.org/10.1007/978-981-99-3435-5_9

51. Flower-Based Compounds and Their Role in Nanomaterials Synthesis and Applications. Shand, H., Mondal, R., Patra, S., Dam, P., Ghorai, S., Mandal, A.K. (2023). In: Husen, A. (eds) *Secondary Metabolites Based Green Synthesis of Nanomaterials and Their Applications*. *Smart Nanomaterials Technology*. Springer, Singapore. https://doi.org/10.1007/978-981-99-0927-8_12

52. Chapter 5 - Lipid-based cubosome nanoparticle mediated efficient and controlled vesicular drug delivery for cancer

therapy. Rittick Mondal and Harshita Shand and Anoop Kumar and Hanen Sellami and Suvankar Ghorai and Amit Kumar Mandal and Azamal Husen. *Advances in Smart Nanomaterials and their Applications*: Elsevier. <https://doi.org/10.1016/B978-0-323-99546-7.00021-5>.

Paper presented in National and International Symposium/Seminar

1. *Antheraea mylitta* cytoplasmic polyhedrosis virus RNA dependent RNA polymerase (2010). **Ghorai S** and Ghosh AK Presented at a National Symposium of the RNA group of India. January 18-19. University of Pune India.
2. Elevated p21/WAF1 RNA Expression Is Associated with Resistance to HIV Infection. J Herbeck, **Suvankar Ghorai***, L Chen, C Rinaldo, L Jacobson, R Detels, S Wolinsky, J Margolick, and J Mullins. Univ of Washington, Seattle, US; Univ of Pittsburgh, PA, US; Johns Hopkins Univ, Baltimore, MD, US; Univ of California, Los Angeles, US; and Northwestern Univ, Chicago, IL, US. CROI-2012. Seattle. USA. * **Young Scientist awardee**.
3. The Natural History of HIV-1 Infection In Women: Study Of The WIHS Cohort. Lennie Chen, **Suvankar Ghorai**, Michael J Dapp, Dylan Westfall, Kim Wong, Hong Zhao, Breana M Hall, Sarah McHugh, Katie Kim, Lily Au, Natalie Chen, Daniel Holmes, Kord M. Kober, Mardge Cohen, Kathy Anastos and James I Mullins. HIVDE-2014.
4. Screening of small peptide against ischemic Fatty-Acid Binding Protein (FABP). Shairee Sanyal, Shreyashi Bose, Sumantra Mondal and **Suvankar Ghorai**. International Conference on emerging perspectives in Bioengineering and biomedical informatics with special relevance to ethnomedicine in human health, organized by Sathyabama Institute of Science and Technology, Chennai, Tamil Nadu, India. **Best poster awardee**.
5. DENV host interaction and altered antiviral pathway during DENV infection. Reshmi Dutta, Lilly M Saleena and **Suvankar Ghorai**. AIJR Publisher in "Abstracts of National Conference on Biological, Biochemical, Biomedical, Bioenergy, and Environmental Biotechnology" Published by January 29-30, 2021, organized by Department of Biotechnology, National Institute of Technology Warangal, India. ISBN:978-81-947843-4-0.

Research Grants and Funding

1. Development of DNA Aptamer/peptide-based Dengue Virus paper based diagnostic kit-Funded by ICMR, India.
2. HPV Associated Cervical cancer early screening kit development-Funded by DBT, India.
3. Altered pathway analysis by RT2 profiling array upon CRISPR/Cas9 Knockout of BANP gene in BHK 21 cells followed by Dengue virus Infection. Funded by UGC, India.
4. An integrated approach for developing a liposome-based point of care paper diagnostic kit for dual detection of Dengue virus infection- Funded by MHRD, India.

Research Mentors & Guidance

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|--------------------|---------------|------------|---------------------|-------------|
| 1. PhD Mentorship: | Completed and | Awarded- 3 | Thesis submitted: 1 | On-Going- 2 |
| 2. M.Tech: | Completed-4 | | | |
| 3. B. Tech: | Completed-14 | | | |
| 4. B.Sc. | Completed- 8 | | | |
| 5. M. Sc: | Completed- 4 | | | |

Address of Communication

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