Prof. Nihar Ranjan (PI)

Name	**Prof. Nihar Ranjan**
Qualifications	Ph.D. (Chemistry)
Designation	Professor, Department of Pharmaceutical Analysis/Medicinal Chemistry
Institute	National Institute of Pharmaceutical Education and Research (NIPER) – Raebareli

Date of Birth	01/02/1983
Domain Expertise	Anti-cancer Drug Development, Drug-design
Number of articles in Pub Med (Past 10 years)	31
H-index	20

- **Maximum of 10 primary research publications related to the proposal**

Publication details in AMA style	**Impact factor of journal**	**Policy/programme/ protocol document or patent/ commercialization of products where cited.**
Singh L, Metangle S, Tiwari R, Ranjan N*. Beyond Telomeric G-Quadruplexes: Remarkable Binding of PhenQE8 to Promoter Sequences. *New J Chem*. 2025;49(7):2925-2934. doi:10.1039/D4NJ02016B	2.5	NA
Sur S, Pujari S, Ranjan N, Temgoua LA, Wicks SL, Conner A, Arya, DP. Enhanced Sequence-Specific DNA Recognition Using Oligodeoxynucleotide-Benzimidazole Conjugates. *ACS Bio Med Chem Au.* 2024;4(3):154-164. doi:10.1021/acsbiomedchemau.3c00074	3.8	NA
Metangle S, Ranjan N*. Preferential Binding of a Red Emissive Julolidine Derivative to a Promoter G-Quadruplex. *ChemBioChem*. 2024;25(3):e202300527. doi:10.1002/cbic.202300527	2.6	NA
Patidar RK, Tiwari R, Srivastava N, Ranjan N*. Nile Blue: A Red-Emissive Fluorescent Dye That Displays Differential Self-Assembly and Binding to G-Quadruplexes. *J Phys chem B*. 2023;127(46):9915-9925. doi:10.1021/acs.jpcb.3c05084	3.4	NA
Ranjan N, Arya, DP. Parallel G-quadruplex recognition by neomycin, *Front Chem.* 2023;11:1232514. doi:10.3389/fchem.2023.1232514	3.8	NA

Singh L, Ranjan N*. Highly selective and sensitive detection of nitrite ion by an unusual nitration of a fluorescent benzimidazole. *J Am Chem Soc*. 2023;145 (5):2745-2749. doi:10.1021/jacs.2c10850	14.4	NA
Verma S, Patidar RK, Tiwari R, Velayutham R, Ranjan N*. Fragment-Based Design of Small Molecules to Study DNA Minor Groove Recognition. *J Phys Chem B.* 2022;126(38):7310-7320. doi:10.1021/acs.jpcb.2c04825	2.8	NA
Ghosh A, Ranjan N, Jiang L, Ansari AH, Degyatoreva N, Ahluwalia S, Arya DP, Maiti S. Fine-tuning miR-21 expression and inhibition of EMT in breast cancer cells using aromatic-neomycin derivatives. *Mol Ther Nucleic Acids.* 2022;27:685-698. doi:10.1016/j.omtn.2021.12.027	6.5	NA
Xue L, Ranjan N, Arya DP. Synthesis and Spectroscopic Studies of the Aminoglycoside (Neomycin)-Perylene Conjugate Binding to Human Telomeric DNA. *Biochemistry.* 2011;50 (14):2838-2849. doi:10.1021/bi1017304	3.0	NA
Ranjan N, Andreasen KF, Kumar S, Hyde-Volpe D, Arya DP. Aminoglycoside Binding to *Oxytricha Nova* Telomeric DNA. *Biochemistry*. 2010;49(45):9891-9903. doi:10.1021/bi101517e	3.0	NA

*(*Publications as corresponding author)*

Experience as Investigator:

Short title of project (Max. 10 words)	**Role Co-PI**	**Funding agency**	**Amount of funding (in INR)**	**Reference of main publications**
Detection of food pathogens by novel fluorescent molecules using Foldscope	PI	DBT	8,00,000	. *J Phys chem B*. 2023, 127(46):9915-9925
Aminoglycoside (Tobramycin) Based Hybrid Small Molecules Targeting Bacterial rRNA A-site for Developing New Anti- tuberculosis Agents.	PI	SERB	41,10,000	*J Phys Chem B.* 2022;126(38):7310-7320. doi:10.1021/acs.jpcb.2c04825
Development of multiple guanidine modified small molecules as inhibitors of drug-resistant bacteria: Synthesis, nucleic acid binding and antimicrobial studies against ESKAPE pathogens.	PI	CSTUP	11,00,000	