सी.एस.आई.आर.-केन्द्रीय औषधि अनुसंधान संस्थान, लखनऊ
(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्)
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To Whomsoever It May Concern

I hereby certify that the research work under reference submitted for the SUN Pharma Award 2024 has not been given any award in the past. Being the corresponding and lead author of all the manuscripts submitted, I have conceptualized the idea, designed and supervised the experiments. The data interpretation and critical evaluation thereof were carried out by me. The contributions of other authors have also been furnished below in separate research publications.

S. No.	Publication Details	IF
1.	PratikshaTiwari, Ravi Prakash Shukla Krishna Yadav, Neha Singh, Disha Marwaha, Shalini Gautam, Avijit Kumar Bakshi Nikhil Rai, Ankit Kumar, Deepak Sharma, **Prabhat Ranjan Mishra***, Dacarbazine-primed carbon quantum dots coated with breast cancer cell-derived exosomes for improved breast cancer therapy ***J. Controlled Rel.*** 365; 43-59 (2024) **(Corresponding author)** **Specific contribution:** As a team leader lead author, I have conceptualized the idea, designed the experiment and supervised this study as well as carried out data analysis finally wrote and communicated the article. PratikshaTiwari (one of my PhD students) has isolated and developed exosome coated carbon quantum dots & established quality control parameters along with cell uptake through flow cytometry and imaging studies. Ravi Prakash Shukla & Krishna Yadav (Research assistant) helped in characterization, manuscript correction and formatting. Neha Singh and Deepak Sharma (Technical assistant) helped in analytical part. Avijit Kumar Bakshi, Nikhil Rai & Ankit Kumar helped in maintenance of cell culture studies and and statistical analysis. Disha and Shalini helped in developing tumor model and tumor regression & histopathology.	**10.8**
2.	Venkatesh Teja Banala, Shweta Sharma, Puja Barnwal, Sandeep Urandur, Ravi P Shukla, Naseer Ahmad, Naresh Mittapalley, Gitu Pandey, Monika Dwivedi, Navodayam Kalleti, Kalyan Mitra, Srikanta Kumar Rath, Ritu Trivedi, **Prabhat Ranjan Mishra*** (2018) Synchronized Ratiometric Co-Delivery of Metformin and Topotecan Through Engineered Nanocarrier Facilitate In-Vivo Synergistic Precision Levels at Tumor Site ***Adv.Healthcare Mater.*** 7(19):e1800300 ***(Corresponding author)*** **Specific contribution:** As a corresponding author and lead author I have conceptualized the idea, designed the experiment, and supervised this study as well as carried out data analysis and finally written and communicated the article.Venkatesh T Banala (one of my PhD students) has performed experiments and established Synergy between Metformin and Topotecan. He has developed lipid bilayer–camouflaged mesoporous silica nanoparticles (LB-MSNs) and loaded drugs using hydrophobic ion pair method. He has performed in vitro and in vivo experiments and developed animal model. N. Mittapelly and G. Pandey helped in pharmaceutical characterization, MS correction and formatting. K Mitra helped in Transmission electron Microscopy while N Kalleti and SK Rath helped in In vivo optical imaging. Ravi Shukla and Gitu Pandey (PhD students) helped in developing tumor model and tumor regression studies and Ritu Trivedi provided critical inputs during experiments. Shweta Sharma and Sandeep Urandur (both PhD students) helped in in-vitro studies and statistical analysis. Puja Barnwal and Monika Dwivedi (Lab trainees) helped in sampling during in vivo studies. As a team leader and lead author, I have conceptualized the idea, designed the experiment and supervised this study as well as carried out data analysis finally written and communicated the article.	**11.12**

3.	S.Urandur, Venkatesh T.Banala, Ravi P.Shukla, N. Mittapelly, G.Pandey, N. Kalleti, K.Mitra, S.K.Rath, R.Trivedi, P.Ramarao, **P.R. Mishra*** (2018) Anisamide Anchored Lyotropic Nano Liquid Crystalline Particles with AIE Effect-A Smart Optical Beacon for Tumor Imaging and Therapy ***ACS Appl. Mater. & Interfaces*** 10(15) 12960-12974. ***(Corresponding author)*** **Specific contribution:** As a team leader and lead author I have conceptualized the idea, designed the experiment, and supervised this study as well as carried out data analysis and finally written and communicated the article. Sandeep Urandur (one of my PhD students) has synthesized and characterized Pluronic F127−Anisamide conjugate and developed Anisamide anchored NLCs. He has carried out Quasi-Elastic Light Scattering (QELS) experiments and performed complete Pharmaceutical characterization along with cell uptake through flow cytometry and imaging studies. N. Mittapelly and G. Pandey helped in pharmaceutical characterization, MS correction and formatting. P Ramarao helped in carrying out Small-Angle X-ray Scattering (SAXS) and Cryogenic Force Emission Scanning Electron Microscopy. K Mitra helped in Transmission electron Microscopy while N Kalleti and SK Rath helped in In vivo optical imaging. Ravi Shukla and Gitu Pandey (PhD students) helped in developing tumor model and tumor regression. B Venkatesh Teja (PhD students) helped in cell cycle analysis, characterization and statistical analysis.	**10.38**
4.	Sandeep Urandur, Venkatesh Teja Banala, Ravi Prakash Shukla, Shalini Gautam, Disha Marwah, Nikhil Rai, Madhu sharma, Shweta Sharma, Pratibha Ramarao, **Prabhat Ranjan Mishra*** Theranostic lyotropic liquid crystalline nanostructures for selective breast cancer imaging and therapy ***Acta Biomaterialia*** 113, 522-540 (2020) ***(Corresponding author)*** **Specific contribution:** As a team leader lead author, I have conceptualized the idea, designed the experiment and supervised this study as well as carried out data analysis finally wrote and communicated the article. Sandeep Urandur (one of my PhD students) has synthesized Manganese oleate and developed theranostic lyotropic liquid crystalline nanostructures (LCN's) bearing betulinic acid. He has performed experiments and generated data using SAXS, Cryo-TEM and Cryo-FESEM along with ex vivo and in vivo studies. P Ramarao helped in carrying out Small-Angle X-ray Scattering (SAXS) and Cryogenic Force Emission Scanning Electron Microscopy. Shweta Sharma and Venkatesh Teja Banala (PhD students) helped in in-vitro studies and statistical analysis. Disha Marwah and Nikhil Rai (PhD student) helped in pharmaceutical characterization, MS correction and formatting. Shalini Gautam helped in photostability and in vitro release studies. Ravi Shukla and Madhu Sharma (PhD students) helped in developing tumor model and tumor regression studies.	**10.63**
5.	Shweta Sharma, Ashwni Kumar Verma, Jyotsana Singh, B Venkatesh Teja, Naresh Mittapelly, Gitu Pandey, Sandeep Urandur, Ravi Shukla, Rituraj Konwar, **Prabhat Ranjan Mishra*** (2016) Vitamin B6 Tethered Endosomal pH-Responsive Lipid Nanoparticles for Triggered Intracellular Release of Doxorubicin ***ACS Appl. Mater. Interfaces*** 8 (44), 30407–30421 ***(Corresponding author)*** **Specific contribution:** As a team leader lead author I have conceptualized the idea, designed the experiment and supervised this study as well as carried out data analysis finally written and communicated the article. Shweta Sharma (a PhD student) has performed experiments and generated data while Ashwni Verma helped in performing experiments and analyzing data. Naresh Mittapelly and Gitu Pandey (PhD students) were involved pharmaceutical characterization, MS correction and formatting. Jyotsana Singh (PhD student) and Rituraj Konwar helped in tumor regression studies and provided critical inputs during experiments respectively. Ravi Shukla (PhD students) helped in cell cycle analysis while B Venkatesh Teja (PhD student) and Sandeep (PhD student) helped in characterization and statistical analysis.	**10.38**

Dr Prabhat Ranjan Mishra