

Annexures

Annexure I

List of publications

1. **Rahul Kumar**, Divya, Supratim Mahapatra, Vikash Kumar Dubey, **Pranjal Chandra***, N-acetyl-d-glucosamine decorated nano-lipid-based carriers as theranostics module for targeted anti-cancer drug delivery. *Materials Chemistry and Physics*, 125956, 2022.
2. **Rahul Kumar**, Neelima Varshney, Supratim Mahapatra, Sanjeev Kumar Mahto, Vikash Kumar Dubey, **Pranjal Chandra***, Design and development of lactoferrin conjugated lipid-polymer nano-bio-hybrid for cancer theranostics. *Materials Today Communications*, 31, 103548, 2022.
3. **Rahul Kumar**, Dhiraj Kumar Choudhary, Mira Debnath*. Development of BSA conjugated on modified surface of quercetin- loaded lipid nanocarriers for breast cancer treatment, *Material Research Express*, 7, 015411, 2020.
4. **Rahul Kumar**, Daphika S Dkhar, Rohini Kumari, Divya, Supratim Mahapatra, Vikash Kumar Dubey, **Pranjal Chandra***. Lipid based nanocarriers: production techniques, concepts, and commercialization aspect, *Journal of Drug Delivery Science and Technology*, 103526, 2022.
5. **Rahul Kumar**, Daphika S Dkhar, Rohini Kumari, Divya, Supratim Mahapatra, Ananya Srivastava, Vikash Kumar Dubey, **Pranjal Chandra***, Ligand conjugated lipid-based nanocarriers for cancer theranostics. *Preprint, Authorea, Netherlands*, 2022.
6. **Rahul Kumar**, Daphika S Dkhar, Rohini Kumari, Divya, Supratim Mahapatra, Ananya Srivastava, Vikash Kumar Dubey, **Pranjal Chandra***, Ligand conjugated lipid-based nanocarriers for cancer theranostics. *Biotechnology and Bioengineering*, 2022

7. Divya, Daphika S Dkhar, Rohini Kumari, Supratim Mahapatra, **Rahul Kumar, Pranjal Chandra***, Ultrasensitive Aptasensors for the Detection of Viruses Based on Opto-Electrochemical Readout Systems, *Biosensors*, 12 (2), 81, 2022.
8. Aditi Sammi[^], Divya[^], Supratim Mahapatra, **Rahul Kumar, Pranjal Chandra***, Nano-Bio-Engineered Silk Matrix based Sensing devices for Molecular Bioanalysis, *Biotechnology and Bioengineering*, 119, 3, 2022.
9. Rohini Kumari, Daphika S Dkhar, Supratim Mahapatra, Divya, **Rahul Kumar, Pranjal Chandra***, Nano-bioengineered Sensing Technologies for Real-time Monitoring of Reactive Oxygen Species in *in vitro* and *in vivo* models, *Microchemical Journal*, 107615, 2022.
10. Daphika S Dkhar, Rohini Kumari, Supratim Mahapatra, Divya, **Rahul Kumar, Pranjal Chandra***, Antibody-receptor Bioengineering and its Implication in Designing Bioelectronics Devices. *International Journal of Biological Macromolecules*, 2022.
11. Darshna, **Rahul Kumar**, Pradeep Srivastava, **Pranjal Chandra***, (2022). Bioreactor for Bone Tissue Engineering: A perspective in Modulation of Mechano-sensitivity in Bone. *Biotechnology and Bioengineering*. (Submitted).
12. Vinish Ranjan Srivastava, **Rahul Kumar**, Daphika S Dkhar, Rohini Kumari, Divya, Supratim Mahapatra, **Pranjal Chandra***, (2022). Design and Development of lipid-polymer hybrid system for controlled drug release in cancer microenvironment (Under preparation).

Annexure II

Conferences/Symposium/workshop attended

1. **10th National Symposium for young Researchers on Drug Discovery to Delivery 2022.** **Organizer:** National Institute of pharmaceutical education & Research (NIPER) Guwahati & Royal Society of Chemical (UK) -Local Section Deccan (RSC-LSD) **(Oral presentation).**
2. **Emerging Trends in Biotechnology on march 10-12, 2022.** **Organizer:** Department of Biotechnology, Motilal Nehru National Institute of Technology Allahabad, Prayagraj, India. **(Poster presentation).**
3. **Third Indian Materials Conclave (Ind Mac) and 32nd Annual Meetings of MRSI on 20-23 December, 2021:** **Organizer:** Indian Institute of Technology, Madras. **(Poster presentation).**
4. **Health 2021 Virtual international conference on “cancer biology: Advance & Challenges on November 11-13th, 2021.** **Organizer:** Indian Council of Medical Research. **(Poster presentation).**
5. **International Online conference on Materials science & Technology (ICMT 2021) 12th-14th November Kottayam, Kerala, India.** **Organizer:** Mahatma Gandhi University, Kottayam, kerala, India & Gdansk University of technology, Gdansk, Poland and Wroclaw & University of Technology, Wroclaw, Poland. **(Short Invited Talk).**
6. **RSC-IIT Desktop Seminar with JMC-A, October, 28,2021** **Organizer:** Royal Society of Chemistry.

7. **International Conference on Nanomaterials in Biology February 2-5, 2022**
Organizer: Soft Material Research Society Jaipur & Department of zoology, University of Rajasthan. **(Flash talk).**
8. **The National Academy of Sciences, India, 91st Annual Session & Symposium on ‘Interface Between Biological and Physical Sciences Towards Atmanirbhar Bharat’ Date: 4-6 December. 2021.**
9. **Workshop on AKTA held on August 10-11,2017 at IIT BHU Campus, Varanasi**
Organizer: GE Healthcare, India.
10. **QIP Short Term Course on Bioprocess Instrumentation and Control in Bioreactor Design during November 7-13, 2017 at School of Biochemical Engineering IIT (BHU), Varanasi. Organizer: AICTE, New Delhi.**
11. **Participated one day training on on Application of Flow Cytometer held on 12th may 2022 at School of Biochemical Engineering IIT (BHU), Varanasi. Organizer: Beckman Coulter India Pvt. Ltd.**

Annexure III



Won award for best presentation in flash talk on “**N-acetyl-D-glucosamine decorated lipid nanocarriers system for breast cancer treatment**” organized by soft material research society, NIT Jaipur and University of Rajasthan, Jaipur, Rajasthan.