


NAME	Dr. Arindam Pramanik		
DESIGNATION	Assistant Professor		
EMAIL ID	apramanik@amity.edu		
CONTACT NUMBER			
RESEARCH INTERESTS	Cancer nanomedicine, Drug Targeting, Anticancer peptides, Tumor imaging, Antimicrobial agents		
EDUCATIONAL QUALIFICATIONS:			
Name of College / University	Degree	Year	
Jadavpur University, Kolkata	Doctor of Philosophy (PhD)	2016	
University of Kalyani, West Bengal	Master of Science (MSc)	2010	
Saint Joseph's College, Bangalore, India	Bachelor of Science (BSc)	2008	
Title of Ph.D. thesis: Synthesis, characterization of biodegradable polymer and metal based nanoparticles for its biological application & drug delivery.			
EXPERIENCE (in chronological order):			
Designation	Type of post held	Name of the Institute	Year (From – To)
DBT research Associate fellowship	Research	Bose Institute, Kolkata	06/2016 to 07/2016
National postdoctoral Fellow	Research	Indian Association for Cultivation of Science, Kolkata, India	07/2016 to 12/2016
Newton Postdoctoral Fellow	Research	University of Leeds, UK	01/2017 to 12/2018
Research Associate	Research	University of Leeds, UK	03/2019 to 11/2022
Assistant Professor- II	Teaching & Research	Amity University, Noida India	12/2022 to Present
PUBLICATIONS (Total 36) <i>H-index: 22</i> <i>Citation: 1634</i> <i>i-10 index: 26</i>	<ol style="list-style-type: none"> Recent Advancements in the Application of Circulating Tumor DNA as Biomarkers for Early Detection of Cancers. Mahima Mishra, Rubai Ahmed, Deepak Kumar Das, Devlina Das Pramanik, Sandeep Kumar Dash, and Arindam Pramanik. ACS Biomaterials Science & Engineering 10 (8), 4740-4756. Impact factor: 5.4 Liposomes to cubosomes: The evolution of lipidic nanocarriers and their cutting-edge biomedical applications. Nishtha Attri, Swarnali Das, Jhimli Banerjee, Shazana H Shamsuddin, Sandeep Kumar Dash, Arindam Pramanik. ACS Applied Bio Materials (2024) 7 (5), 2677-2694. Impact factor: 4.7 Talniflumate as a potential supplement in breast cancer treatment. Ritika Rampal, Arindam Pramanik, Louis Mcloughlin, Radhika Aiyappa-Maudsley, Baek Kim, Thomas Hughes. European Journal of Surgical Oncology. (2024) 1;50(2). Impact factor:3.8 		

4. Photoactive imaging and therapy for colorectal cancer using a CEA-Affimer conjugated Foslip nanoparticle. Yazan S Khaled, M Ibrahim Khot, Radhika Aiyappa-Maudsley, Thomas Maisey, **Arindam Pramanik**, Jim Tiernan, Nicole Lintern, Eiman Al-Enezi, Shazana H Shamsuddin, Darren Tomlinson, Louise Coletta, Paul A Millner, Thomas A Hughes, David G Jayne. *Nanoscale* (2023) <https://doi.org/10.1039/D3NR04118B>.
Impact factor: 8.3
5. Synthesis, antimicrobial, anticancer evaluation and molecular docking with Bax and MDM2 of dibromosterculic acid. Rahul Bose, Ayan Paul, Rajashree Dutta, Anjan Hazra, **Arindam Pramanik**, Suparna Mandal Biswas. *Natural Product Research* (2023), 1-8
Impact factor: 2.48
6. Recent developments in photodynamic therapy and its application against multidrug-resistant cancers. Debalina Bhattacharya, Mainak Mukhopadhyay, Kumar Shivam, Satyajit Tripathy, Ranjan Patra, **Arindam Pramanik**. *Biomedical Materials* (2023), 18, 062005.
Impact factor: 4.0
7. **Arindam Pramanik**, Zexi Xu, Shazana H. Shamsuddin, Yazan S. Khaled, Nicola Ingram, Thomas Maisey, Darren Tomlinson, P. Louise Coletta, David Jayne, Thomas A. Hughes, Arwen I. I. Tyler, Paul A. Millner. Affimer Tagged Cubosomes: Targeting of Carcinoembryonic Antigen Expressing Colorectal Cancer Cells using In Vitro and In Vivo Models. *ACS Applied Materials & Interfaces*. (2022) 14, 9, 11078–11091.
Impact factor: 10.38
8. **Arindam Pramanik**, Zexi Xu, Nicola Ingram, Patricia Louise Coletta, Paul A Millner, Arwen II Tyler, Thomas A Hughes. Hyaluronic acidtagged cubosomes deliver cytotoxics specifically to CD44-positive cancer cells. *Mol. Pharmaceutics* (2022), 19, 12, 4601–4611.
Impact factor: 5.36
9. Rajashree Dutta, Ekta Bhattacharya, **Arindam Pramanik**, Thomas A Hughes, Suparna Mandal Biswas. Potent nutraceuticals having antioxidant, DNA damage protecting potential and anti-cancer properties from the leaves of four Ficus species. *Biocatalysis and Agricultural Biotechnology* (2022), 102461.
10. Noha Gwili, Stacey J Jones, Waleed Al Amri, Ian M Carr, Sarah Harris, Brian V Hogan, William E Hughes, Baek Kim, Fiona E Langlands, Rebecca A Millican-Slater, **Arindam Pramanik**, James L Thorne, Eldo T Verghese,

Geoff Wells, Mervat Hamza, Layla Younis, Nevine MF El Deeb, Thomas A Hughes. Transcriptome profiles of stem-like cells from primary breast cancers allow identification of ITGA7 as a predictive marker of chemotherapy response. *British Journal of Cancer*. 125 (2021), 983-993.
Impact Factor: 7.64

11. Samantha A Hutchinson, Alex Websdale, Giorgia Ciocoloni, Hanne Røberg-Larsen, Priscilia Lianto, Baek Kim, Ailsa Rose, Chrysa Soteriou, **Arindam Pramanik**, Laura M Wastall, Bethany J Williams, Madeline A Henn, Joy J Chen, Liqian Ma, J Bernadette Moore, Erik Nelson, Thomas A Hughes, James L Thorne. 'Liver x receptor alpha drives chemoresistance in response to side-chain hydroxycholesterols in triple negative breast cancer', *Oncogene*, 40 (2021), 2872-2883.
Impact Factor: 9.27
12. Diana E Baxter, Lisa M Allinson, Waleed S Al Amri, James A Poulter, **Arindam Pramanik**, James L Thorne, Eldo T Verghese, Thomas A Hughes. 'MiR-195 and Its Target SEMA6D Regulate Chemoresponse in Breast Cancer'. *Cancers*, 13, 23, (2021) 5979.
Impact Factor: 6.57
13. Sudip Mukherjee, **Arindam Pramanik**, Subrata Kumar Pore. 'Editorial: Immunomodulatory Nanomaterials in Cancer Theranostics'. *Frontiers in Chem*. 9, (2021) 691267.
Impact Factor: 5.54
14. Rahul Bose, Ekta Bhattacharya, **Arindam Pramanik**, Thomas A Hughes, Suparna Mandal Biswas. 'Potential oil resources from underutilized seeds of *Sterculia foetida*, L. - Quality assessment and chemical profiling with other edible vegetable oils based on fatty acid composition, oxidative stability, antioxidant activity and cytotoxicity'. *Biocatalysis and Agricultural Biotechnology*, 33 (2021) 102002.
15. Muhammad Ovais, Sudip Mukherjee, **Arindam Pramanik**, Devlina Das, Anubhab Mukherjee, Abida Raza, Chunying Chen. Designing StimuliResponsive Upconversion Nanoparticles that Exploit the Tumor Microenvironment. *Advanced Materials*, 32, (2020), 2000055.
Impact Factor: 32.08
16. Rahul K Das, **Arindam Pramanik**, Megharay Majhi, Sasmita Mohapatra. 'Magnetic Mesoporous Silica Gated with Doped Carbon Dot for Site-Specific Drug Delivery, Fluorescence, and MR Imaging', *Langmuir*, 34, 18 (2018), 5253-5262.
Impact Factor: 3.882

17. Puja Paul, Sabyasachi Chatterjee, **Arindam Pramanik**, Parimal Karmakar, Subhash Chandra Bhattacharyya, Gopinatha Suresh Kumar. 'Thionine Conjugated Gold Nanoparticles Trigger Apoptotic Activity Toward HepG2 Cancer Cell Line', ACS Biomaterials Science & Engineering, 4, 2 (2017), 635-646.
Impact Factor: 5.39
18. Panchanan Pramanik, **Arindam Pramanik**, Susmita Pramanik. Copper Based Nanoparticle: A Way towards Future Cancer Therapy', Glob J Nanomed, 1, (2017) 112-114.
Impact factor: 0.94
19. **Arindam Pramanik**, Dipranjan Laha, Sandeep Kumar Dash, Sourav Chattopadhyay, Somenath Roy, Dipak Kumar Das, Panchanan Pramanik, Parimal Karmakar. 'An in-vivo study for targeted delivery of copper-organic complex to breast cancer using chitosan polymer nanoparticles', Materials Science and Engineering: C, 68 (2016), 327-337.
Impact factor: 7.328
20. Soumen Chandra, Dipranjan Laha, **Arindam Pramanik**, Angshuman Ray Chowdhuri, Parimal Karmakar, Sumanta Kumar Sahu. 'Synthesis of highly fluorescent nitrogen and phosphorus doped carbon dots for the detection of Fe³⁺ ions in cancer cells', Luminescence, 31, 1 (2016), 81-87.
Impact factor: 2.61
21. Deblina Sarkar, **Arindam Pramanik**, Subrata Jana, Parimal Karmakar, Tapan Kumar Mondal. 'Quinoline based reversible fluorescent 'turn-on' chemosensor for the selective detection of Zn²⁺: Application in living cell imaging and as INHIBIT logic gate', Sensors and Actuators B: Chemical, 209 (2015), 138-146.
Impact factor: 9.22
22. Santanu Rana, Kaberi Datta, Teegala Lakshminarayan Reddy, Emeli Chatterjee, Preeta Sen, Manika Pal-Bhadra, Utpal Bhadra, **Arindam Pramanik**, Panchanan Pramanik, Mamta Chawla-Sarkar, Sagartirtha Sarkar. 'A spatio-temporal cardiomyocyte targeted vector system for efficient delivery of therapeutic payloads to regress cardiac hypertrophy abating bystander effect', Journal of Controlled Release, 200 (2015), 167-178.
Impact factor: 11.46
23. Dipranjan Laha, **Arindam Pramanik**, Sourav Chattopadhyay, Sandip kumar Dash, Somenath Roy, Panchanan Pramanik, Parimal Karmakar. 'Folic acid modified copper oxide nanoparticles for targeted delivery in in vitro and in vivo systems', RSC Advances, 5, 83 (2015) 68169-68178.
Impact factor: 4.03

24. **Arindam Pramanik**, Dipranjan Laha, Sourav Chattopadhyay, Sandeep Kumar Dash, Somenath Roy, Panchanan Pramanik, Parimal Karmakar. 'Targeted delivery of "copper carbonate" nanoparticles to cancer cells in vivo', *Toxicology Research*, 4, 6, (2015) 1604-1612.
Impact factor: 2.68
25. Dipranjan Laha, **Arindam Pramanik**, Aparna Laskar, Madhurya Jana, Panchanan Pramanik, Parimal Karmakar. 'Shape-dependent bactericidal activity of copper oxide nanoparticle mediated by DNA and membrane damage', *Materials Research Bulletin*, 59 (2014), 185-191.
Impact factor: 5.6
26. Deblina Sarkar, **Arindam Pramanik**, Sujan Biswas, Parimal Karmakar, Tapan Kumar Mondal. 'Al³⁺ selective coumarin based reversible chemosensor: application in living cell imaging and as integrated molecular logic gate', *RSC Advances*, 4, 58, (2014) 30666-30672.
Impact factor: 4.04
27. **Arindam Pramanik**, Dipranjan Laha, Panchanan Pramanik, Parimal Karmakar. 'A novel drug "copper acetylacetonate" loaded in folic acid-tagged chitosan nanoparticle for efficient cancer cell targeting', *Journal of Drug Targeting*, 22, 1 (2014), 23-33.
Impact factor: 5.121
28. Dipranjan Laha, **Arindam Pramanik**, Jyotirindra Maity, Ananda Mukherjee, Panchanan Pramanik, Aparna Laskar, Parimal Karmakar. 'Interplay between autophagy and apoptosis mediated by copper oxide nanoparticles in human breast cancer cells MCF7', *Biochimica et Biophysica Acta (BBA) - General Subjects*, 1840, 1 (2014), 1-9.
Impact factor: 4.12
29. **Arindam Pramanik**, Dipranjan Laha, Debalina Bhattacharya, Panchanan Pramanik, Parimal Karmakar. 'A novel study of antibacterial activity of copper iodide nanoparticle mediated by DNA and membrane damage', *Colloids and Surfaces B: Biointerfaces*, 96 (2012), 50-55.
Impact factor: 5.99
30. Shouvik Mitra, Sourov Chandra, Dipranjan Laha, Prasun Patra, Nitai Debnath, **Arindam Pramanik**, Panchanan Pramanik, Arunava Goswami. 'Unique chemical grafting of carbon nanoparticle on fabricated ZnO nanorod: Antibacterial and bioimaging property', *Materials Research Bulletin*, 47, 3 (2012), 586-594.
Impact factor: 5.6

	<p>31. Sumanta Kumar Sahu, Swatilekha Maiti, Arindam Pramanik, Sudip Kumar Ghosh, Panchanan Pramanik. ‘Controlling the thickness of polymeric shell on magnetic nanoparticles loaded with doxorubicin for targeted delivery and MRI contrast agent’, Carbohydrate Polymers, 87, 4 (2012), 2593-2604. Impact factor: 10.72</p> <p>32. Dipranjan Laha, Debalina Bhattacharya, Arindam Pramanik, Chitta Ranjan Santra, Panchanan Pramanik, Parimal Karmakar. ‘Evaluation of copper iodide and copper phosphate nanoparticles for their potential cytotoxic effect’, Toxicology Research, 1, 2 (2012), 131-131. Impact factor: 2.68</p> <p>33. Santanu Rana, Arindam Pramanik, Panchanan Pramanik, Sagartirtha Sarkar. Regression of cardiac hypertrophy by cardiomyocyte specific targeted drug delivery via nano-vehicle. Journal of Hypertension, 30 (2012), e177. Impact factor: 4.8</p> <p>34. Dipankar Ghosh, Arindam Pramanik, Narattam Sikdar, Panchanan Pramanik. ‘Synthesis of low molecular weight alginic acid nanoparticles through persulfate treatment as effective drug delivery system to manage drug resistant bacteria’, Biotechnology and Bioprocess Engineering, 16, 2 (2011), 383-392. Impact factor: 2.836</p> <p>35. Dipsikha Bhattacharya, Subhankari Prasad Chakraborty, Arindam Pramanik, Ananya Bakshi, Somenath Roy, Tapas K Maiti, Sudip K Ghosh, Panchanan Pramanik. ‘Detection of total count of Staphylococcus aureus using anti-toxin antibody labelled gold magnetite nanocomposites: a novel tool for capture, detection and bacterial separation’, Journal of Materials Chemistry, 21, 43 (2011), 17273-17273. Impact factor: 6.331</p> <p>36. Dipankar Ghosh, Arindam Pramanik, Narattam Sikdar, Sudip K Ghosh, Panchanan Pramanik. Amelioration Studies on Optimization of Low Molecular Weight Chitosan Nanoparticle Preparation, Characterization With Potassium Per Sulphate and Silver Nitrate Combined Action With Aid of Drug Delivery to Tetracycline Resistant Bacteria, International Journal of Pharmaceutical Sciences and Drug Research 2, 4, (2010), 247- 253.</p>
<p>RESEARCH PROJECTS Completed: (1) Ongoing: (0)</p>	<p>Grant name: Newton International Fellowship Project title: Cancer therapy & imaging by self assembled polymer nanoparticles: an in-vivo study Funding agency: Academy of Medical Science & The Royal Society, United Kingdom Funding value: £99,000 (British Pound) Status: Completed</p>

**AWARDS & HONOURS/
DISTINCTIONS**

1. INSA visiting scientist at Indian Institute of Technology, Delhi awarded by Indian National Science Academy, New Delhi 2024-25.

2. “Joe Gray Travel Award” from Oregon State University, USA at 16th International Nanomedicine & Drug Delivery Symposium, Portland, USA – September 2018.

3. “Newton International fellowship” for 2yrs postdoctoral research at University of Leeds, UK from January 2017 to December 2018.

4. Awarded “National Postdoctoral fellowship” by Department of Science and technology, Govt of India for postdoctoral research at Indian Institute for Cultivation of Science, Kolkata, India. (2016).

5. Awarded “Research Associate fellowship” by Department of Biotechnology, Govt of India for postdoctoral research at Bose Institute, Kolkata, India (2016).

6. “Best Poster Award” in the International Conference on “Recent Advances in Cancer Prevention & Therapeutics” held at Central University of Gandhinagar, Gujarat, India in November 2013.

MEMBERSHIP with Professional/
Academic bodies

Associate Editor in Biomedical Nanotechnology (A part of Frontiers in Nanotechnology).

Editor for special issue ‘Immunomodulatory Nanomaterials in Cancer Theranostics’ in Frontiers in Chemistry.

Associate Editor for 3 STM journals: International Journal of Nanobiotechnology; International Journal of Applied Nanotechnology; Nanotrends-A Journal of NanoTechnology & Its Applications

Review editor for journals: Clinical Breast Cancer (Elsevier); BBA – General subjects (Elsevier); Nanoscience (Frontiers); Cancers; Cells; Nanomaterials; Materials; Medical Sciences; Biomedicines; Antioxidants; Molecules; Pharmaceutics; Polymers.