

# Curriculum Vitae



**DR. PARAMITA PAUL (DUA)**

**Designation** Assistant Professor

**Mailing Address** Department of Pharmaceutical Technology, University of North Bengal, P.O.- NBU, Dist- Darjeeling, West Bengal, Pin -734013, India.

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**Subject Specialization:** Pharmaceutics

## **Academic qualification:**

2007: B.Pharm, Jadavpur University, India

2010: M.Pharm, Jadavpur University, India

2019: Ph.D in Pharmacy, Jadavpur University, India

## **Professional experiences:**

### **Teaching Experience: 6.5 years**

August 11, 2010 to January 29, 2011 : Assistant Professor, Columbia Institute of Pharmacy, Raipur, C.G., India

February 1, 2011 to September 8, 2012 : Lecturer, GRY Institute of Pharmacy, Borawan, Khargone, M.P., India

May 2, 2018 to February 19, 2019 : Assistant Professor, NSHM Knowledge Campus, Kolkata- Group of Institutions, Kolkata, India

February 20, 2019 to till date : Assistant Professor, Department of Pharmaceutical Technology, University of North Bengal, Darjeeling, W.B., India

### **Research Experience: 5 years 7 months**

September 10, 2012- September 22, 2014 Senior Research Fellow, DBT Twinning Program, Govt. of India

August 20, 2015- May 1, 2018 DST Women Scientist -A, Govt. of India

**Areas of Research Interest:** Novel drug delivery system, liposomal drug delivery, transdermal drug delivery

**No. of Ph.D. students:** (a) Supervised: 0 (b) Ongoing: 00

**No. of M.Pharm. students:** (a) Supervised: 06 (b) Ongoing: 03.

**No. of Publications:** (a) Journal(s): 21 (b) Book(s): 3 (c) Book chapter(s): 13

**List of Publications:**

***Research papers:***

1. Sumit Basu, Biswajit Mukherjee, Samrat Roy Chowdhury, **Paramita Paul**, Rupak Choudhury, Ajeet Kumar, Laboni Mondal, Chowdhury Mobaswar Hossain, Ruma Maji. Colloidal gold-loaded, biodegradable, polymer-based stavudine nanoparticle uptake by macrophages: an in vitro study. **International Journal of Nanomedicine**. 2012;7:6049–6061. **(Impact factor 7.033)**
2. Biswajit Mukherjee, Chowdhury M. Hossain, Laboni Mondal, **Paramita Paul** and Miltu K. Ghosh. Obesity and Insulin Resistance: An Abridged Molecular Correlation. **Lipid Insights**. 2013;6:1–11.
3. R. Manasadeepa, **Paramita Paul**, Biswajit Mukherjee. Pressure sensitive mucoadhesive polymer based dental patches to treat periodontal diseases: an *in vitro* study. **Drug delivery**. 2013; 20(6): 258–267. **(Impact factor 6.819)**
4. Biswajit Mukherjee, Laboni Mondal, Samrat Chakraborty, **Paramita Paul**, Chowdhury Mobaswar Hossain, Ankan Choudhury, Sanchari bhattacharya. (2014) Size dependant variations in systemic activity of lipid based vesicular drug carriers. **Current Pharmaceutical Biotechnology**, 2015;16(4):380-91. **(Impact factor 2.829)**
5. Pranab Jyoti Das<sup>‡</sup>, **Paramita Paul**<sup>‡</sup>, Biswajit Mukherjee, Bhaskar Mazumder, Laboni Mondal, Rinku Baishya, Mita Chatterjee Debnath, Kumar Saurav Dey. Pulmonary Delivery of Voriconazole Loaded Nanoparticles Providing A Prolonged Drug Level in Lungs- A Promise For Treating Fungal Infection. **Molecular Pharmaceutics**, 2015; 12(8):2651-64. **(Impact factor 5.364)**
6. Mukherjee, Biswajit, **Paramita Paul**, Ankan Choudhury, Sanchari Bhattacharya, Ruma Maji, and Lopamudra Dutta. Variation of Pharmacokinetic Profiles of Some Antidiabetic Drugs from Nanostructured Formulations Administered Through Pulmonary Route. **Current Drug Metabolism** 2016;17(3):271-8. **(Impact factor 3.408)**
7. Tapan Kumar Shaw, Dipika Mandal, Goutam Dey, Murari Mohan Pal, **Paramita Paul**, Samrat Chakraborty, Asraf Kazi Ali, Biswajit Mukherjee, Amal Kumar Bandyopadhyay, and Mahitosh Mandal. Successful delivery of docetaxel to rat brain using experimentally

- developed nanoliposome: a treatment strategy for brain tumor. **Drug Delivery**. 2017 Nov;24(1):346-357. (**Impact factor 6.819**)
8. **Paramita Paul**, Soma Sengupta, Biswajit Mukherjee, Tapan K Shaw, Raghuvir H. Gaonkar, Mita Chatterjee Debnath. Chitosan coated nanoparticles enhanced lung pharmacokinetic profile of voriconazole upon pulmonary delivery in mice. **Nanomedicine (Lond)**. 2018;13(5):501-520. (**Impact factor 6.096**)
  9. Sengupta, Soma, **Paramita Paul**, Biswajit Mukherjee, Raghuvir H. Gaonkar, Mita Chatterjee Debnath, Rhitabrita Chakraborty, Nobila Khatun, and Somdatta Roy. Peripheral nerve targeting by procaine-conjugated ribavirin-loaded dual drug nanovesicle. **Nanomedicine (Lond.)** (2018) 13(23), 3009–3023. (**Impact factor 6.096**)
  10. Gouhar Jahan Ashraf, Priya Das, Tarun Kumar Dua, **Paramita Paul**, Gouranga Nandi, Ranabir Sahu\* High-performance thin-layer chromatography based approach for bioassay and ATR-FTIR spectroscopy for the evaluation of antioxidant compounds from *Asparagus racemosus* Wild. aerial parts. **Biomedical Chromatography** 2021;35(12):e5230. DOI: 10.1002/bmc.5230 (**Impact factor 1.911**)
  11. Tapan Kumar Shaw, **Paramita Paul**. Recent approaches and success of liposome-based nanodrug carriers for the treatment of brain tumor. **Current drug delivery** 2022. Doi: 10.2174/1567201818666211213102308 (**Impact factor 3.758**)
  12. Simran Giri, Ranabir Sahu, **Paramita Paul**, Gouranga Nandi, and Tarun Kumar Dua. "An updated review on Eupatorium adenophorum Spreng.[Ageratina adenophora (Spreng.)]: traditional uses, phytochemistry, pharmacological activities and toxicity." **Pharmacological Research-Modern Chinese Medicine** 2022: 100068.
  13. Simran Giri, Sanjukta Sen, Rohan Singh, **Paramita Paul**, Ranabir Sahu, Gouranga Nandi, and Tarun Kumar Dua. Current challenges in different approaches to control COVID-19: a comprehensive review. **Bulletin of the National Research Centre**. 2022;46(1):1-3.
  14. Tarun Kumar Dua; Sangita Palai; Abani Roy; **Paramita Paul**. Protective effect of probiotics against acetaminophen induced nephrotoxicity. **Molecular Biology Reports**. 2022, 1-5. (**Impact factor 2.742**)
  15. Priya Das, Gouhar Jahan Ashraf, Tania Baishya, Tarun Kumar Dua, **Paramita Paul**, Gouranga Nandi, Ranabir Sahu\*. High-performance thin-layer chromatography coupled total reflectance–Fourier transform infrared and NMR spectroscopy-based identification of  $\alpha$ -amylase inhibitor from the aerial part of *Asparagus racemosus* wild. **Phytochemical Analysis** 2022 (**Impact factor 3.024**)

16. Saikat Dewanjee\*, Tarun Kumar Dua, **Paramita Paul**, Abhijit Dey, Jayalakshmi Vallamkondu, Sonalinandini Samanta, Ramesh Kandimalla, Vincenzo De Feo\*. Probiotics: evolving as a potential therapeutic option against acetaminophen-induced hepatotoxicity. **Biomedicines**. 2022. (Impact factor 4.757)
17. Ipsa Padhy<sup>#</sup>, **Paramita Paul**<sup>#</sup>, Tripti Sharma, Sabyasachi Banerjee, Arijit Mondal. Molecular mechanisms of action of Eugenol in cancer: Recent trends and advancement. **Life**. 2022; 12, 1795. (Impact factor 3.251)
18. Tapan Kumar Shaw, **Paramita Paul**\*, Bappaditya Chatterjee. Research-based findings on scope of liposome-based cosmeceuticals: An updated review. **Future Journal of Pharmaceutical Sciences**. 2022; 8: 46.
19. Tania Baishya, Priya Das, Gouhar Jahan Ashraf, Tarun Kumar Dua, **Paramita Paul**, Gouranga Nandi, Malay Bhattacharya, and Ranabir Sahu.. Tissue specific changes of phytochemicals, antioxidant, antidiabetic and anti-inflammatory activities of tea [Camellia sinensis (L.)] extracted with different solvents. Zeitschrift für Naturforschung C. 2022 Dec 26. (Accepted) (Impact factor 1.885)
20. Ankita Mallick, Ranabir Sahu, Gouranga Nandi, Tarun Kumar Dua, Tapan Kumar Shaw, Ankita Dhar, Aditya Kanu, **Paramita Paul**\*. Development of Liposomal Formulation for Controlled Delivery of Valacyclovir: an In Vitro Study. **Journal of Pharmaceutical Innovation** 2023. <https://doi.org/10.1007/s12247-022-09706-1> (Impact factor 2.538)
21. Tarun Kumar Dua<sup>1</sup>, Simran Giri<sup>1</sup>, Gouranga Nandi<sup>1</sup>, Ranabir Sahu<sup>1</sup>, Tapan Kumar Shaw<sup>2</sup>, **Paramita Paul**<sup>1\*</sup>. Green synthesis of silver nanoparticles using Eupatorium adenophorum leaf extract: Characterizations, antioxidant, antibacterial, and photocatalytic activities. **Chemical Papers** 2023(Accepted). (Impact factor 2.146)

### ***Book***

1. Tarun Kumar Dua and **Paramita Paul**. **Nutraceuticals: Role of food as medicine**. Lap Lambert Academic publications. 2021. (ISBN: 978-620-4-20310-2)
2. **Paramita Paul**, Anindita Mondal Gantait, Ranabir Sahu, Gouranga Nandi. **Fundamentals of Pharmacotherapeutics for Diploma** (As per PCI New Syllabus). 2021. Everest Publishing House. Pune. (Upcoming- In Press) (Paperback edition ISBN: 978-81-949281-2-6; eBook Digital ISBN: 978-81-949281-3-3).
3. **Paramita Paul**, Saikat Dewanjee, Gouranga Nandi, Tarun Kumar Dua. **Fundamentals of Biochemistry and Clinical Pathology for D.Pharm Students**. Everest Publishing House. Pune (Paperback edition ISBN: 978-93-94683-11-2).

***Book Chapters:***

1. Biswajit Mukherjee\*, Niladri Shekhar Dey, Ruma Maji, Priyanka Bhowmik, Pranab Joyti Das, **Paramita Paul**. (2014) Current status and future scope for nanomaterials in drug delivery. In: Application of nanotechnology in drug delivery, **In Tech**. (ISSN/ISBN NO. 978-953-51-1628-8) DOI: 10.5772/58450
2. Biswajit Mukherjee \*, Ghosh Shampa, Mondal Laboni and **Paul Paramita**. (2015) Virus and Nanosized Viral Scaffolds as Drug Delivery Systems. Medical Nanobiotechnology. Vol. 5, Chapter 6, Studium Press LLC, Texas, USA. (ISSN/ISBN NO. 1-62699-055-7).
3. Biswajit Mukherjee, **Paramita Paul**, Lopamudra Dutta, Samrat Chakraborty, Moumita Dhara, Laboni Mondal, and Soma Sengupta. Pulmonary administration of biodegradable drug nanocarriers for more efficacious treatment for fungal infections in lungs: insights based on recent findings. Chapter 14. In Multifunctional system for combined delivery, Biosensing and diagnostic; Grumezescu, A.M., Ed.; Elsevier: Netherlands, 2017, p 261-280. <https://doi.org/10.1016/B978-0-323-52725-5.00014-9>
4. Biswajit Mukherjee, Ashique Al Hoque, Shreyasi Chakraborty, Leena Kumari, Somdatta Roy, and **Paramita Paul**. Nanomedicine: Could It Be a Boon for Pulmonary Fungal Infections?. In Nanomedicine for the Treatment of Disease: From Concept to Application, pp. 141-164. Apple Academic Press Inc., Florida, USA, 2019. (ISBN 13: 978-0-42942-571-4)
5. Saikat Dewanjee, **Paramita Paul**, Tarun K. Dua, Shovonlal Bhowmick, and Achintya Saha. "Big Leaf Mahogany Seeds: Swietenia macrophylla Seeds Offer Possible Phytotherapeutic Intervention Against Diabetic Pathophysiology." In Nuts and Seeds in Health and Disease Prevention, pp. 543-565. Academic Press, 2020. (ISBN: 978-0-12-818553-7) <https://doi.org/10.1016/B978-0-12-818553-7.00038-3>
6. Tarun Kumar Dua, and **Paramita Paul**\*. "Naturally Occurring Coloring and Flavoring Agents." In Plant-derived Bioactives, pp. 549-569. Springer, Singapore, 2020. (ISBN 978-981-15-1760-0) [https://doi.org/10.1007/978-981-15-1761-7\\_23](https://doi.org/10.1007/978-981-15-1761-7_23)
7. **Paramita Paul**, and Gouranga Nandi. "In Situ Polymeric Gels for Topical Drug Delivery." In Advanced Biopolymeric Systems for Drug Delivery, pp. 83-114. Springer, Cham, 2020. [https://doi.org/10.1007/978-3-030-46923-8\\_4](https://doi.org/10.1007/978-3-030-46923-8_4)
8. Anindita Mondal Gantait, Yazan A. Bataineh, Hiba Salim Surchi, Arunava Gantait, G. Tulja Rani, **Paramita Paul**, Sarah Falah Kokaz et al. "Neuropeptides and Neurotransmission." In Frontiers in Pharmacology of Neurotransmitters, pp. 553-577.

Springer, Singapore, 2020. (ISBN 978-981-15-3555-0) [https://doi.org/10.1007/978-981-15-3556-7\\_16](https://doi.org/10.1007/978-981-15-3556-7_16)

9. Dipika Mandal, **Paramita Paul** and Manas Bhowmik. Stimulus-responsive gold nanotheranostic platforms for targeting the tumor microenvironment. In Multifunctional Theranostic Nanomedicines in Cancer 2021 Jan 1 (pp. 201-232). Academic Press. <https://doi.org/10.1016/B978-0-12-821712-2.00003-7>
10. **Paramita Paul\***, Sanchita Mandal, Tarun K. Dua, Dipika Mandal, Manasa Deepa. Smart multifunctional nanosystem: Next-generation drug delivery platform for drug-resistant breast cancer. In Multifunctional Theranostic Nanomedicines in Cancer 2021 Jan 1 (pp. 177-199). Academic Press. <https://doi.org/10.1016/B978-0-12-821712-2.00012-8>
11. **Paramita Paul**, Gouranga Nandi, Mohammed A. Abosheasha, Hriday Bera. Alginate based systems for protein and peptide delivery. In Tailor-Made and Functionalized Biopolymer Systems For Drug Delivery and Biomedical Applications. **2021** (pp. 85-113) Woodhead Publishing (Elsevier).
12. Arijit Mondal, **Paramita Paul**, Sabyasachi Banerjee. Applications of metal oxide nanoparticles in cancer therapy. In: Advances in Nanotechnology-Based Drug Delivery Systems. **2022** (pp. 471-515) Matthew Deans (Elsevier).
13. **Paramita Paul\***, Tapan K Shaw, Ankita Mallick, Ankita Dhar, Aditya Kanu. Lipid-based nanocosmeceuticals with antiaging potential. In Nanocosmeceuticals: Innovation, Application and Safety. 2022 Jan 1 (pp. 277-305). Academic Press. (Elsevier). ISBN: 978-0-323-91077-4

***Patents:***

1. Mukherjee Biswajit, Sengupta Soma, **Paul Paramita**. Process and carrier for targeting drugs/diagnostics of peripheral and central nervous system. Application No: 201731033454 A; Date 21.09.2017. (Published on 20.10.2017)
2. Gouranga Nandi, Tarun Kumar Dua, Ranabir Sahu, Saikat Dewanjee, **Paramita Paul**. Ionotropic hydrogel and hydrogel bead forming capacity of polysaccharide obtained from stolon part of taro (*Colocasia esculenta*). Application No: 202231032990; Date 09.06.2022.

### Research Projects:

Sl. No	Title of the Project	Funding Agency	Year of Sanction and duration	Cost (INR)	PI or Co-PI	Status
1.	Pulmonary delivery of mucoadhesive nanoparticles of an antifungal agent using Dry Powder Inhaler	DST WOS- A, DST Women Scientist Scheme	2015, 3 years	25.96 Lakhs	PI	Completed

\*As Principal Investigator (PI)

### Achievement & Awards:

1. Awarded University Grants Commission (UGC) fellowship to pursue M. Pharm course at Jadavpur University, Kolkata after securing **98.39%** in national level GATE 2008.
2. Won the **best poster award** for the poster presented at 3rd IAPST Annual Convention on Novel Drug Delivery System conducted at Manipal University, Manipal, Karnataka in November, 2009.
3. Awarded **DST Women Scientists Scheme –A** as Principal Investigator at Department of Pharmaceutical Technology, Jadavpur University, Kolkata
4. Won the **best poster award** for the poster presented at One day national Seminar on “Novel Pharmaceutical Technologies: Challenges and Opportunities” conducted at Manipal University in 15<sup>th</sup> November, 2015.
5. Won the **1<sup>st</sup> position award** for the Oral presentation at **International conference** on “Current Scenario in Pharmaceutical Technology & Healthcare: A Move Towards Patient-Centric Approach” March 9-10, 2018. NSHM College of Pharmaceutical Technology & Department of Healthcare Management, Kolkata.

### Membership of Learned Societies:

1. Indian Association of Pharmaceutical Scientists and Technologists
2. Association of Pharmaceutical Teachers of India

### Professional Responsibilities

1. Reviewer of Biomedical Chromatography, Plosone.
2. Review Editor of Frontiers in Respiratory Drug Delivery.