

CURRICULUM VITAE



SUBHAJIT MAITY

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Date of birth: 12th October, 1987

Citizenship: Indian

Sex: Male

Category: Unreserved

Marital status: Married

Father's name: Dilip Kumar Maity

Father's status: Retired Govt. Engineer

Professional objective: To utilize my background and expertise in teaching.

Present professional attachments:

Serving as Assistant Professor of Zoology Stage 1 at Netaji Mahavidyalaya, University of Burdwan since 29.12.23

Past professional attachments:

State Aided College Teacher, GoWB (Zoology UG & PG) in Rahara Ramakrishna Mission Vivekananda Centenary College since January 2020.

Education:

2005-2008 B. Sc. Zoology (Honours) [allied subjects Botany & Chemistry] **67% (Hons) and 68.8% (total)** University of Calcutta, West Bengal, India.

2008-2010 M. Sc. Zoology (Specialization in Parasitology & Immunology) **75.2%** University of Calcutta, West Bengal, India.

2011- Qualified GATE (95.7 percentile) and Joint CSIR-UGC NET (UGC NET JRF rank- 57).

2012–2018 PhD Thesis submitted & awarded (in Diabetes) at Biophysics, Molecular Biology & Bioinformatics; University of Calcutta. Supervisor: **Prof. Abhay Sankar Chakraborti** (Professor in Department of Biophysics, Molecular Biology & Bioinformatics, University of Calcutta) & Joint Supervisor: **Dr. Partha Chakrabarti** (Senior Scientist at IICB, Kolkata).

Specialization:

Endocrinology, animal physiology, protein biochemistry, toxicology, clinical pharmacology and diabetic nano-biotechnology

Postdoctoral fellowship:

DBT-RAship, GoI (July 2018-Dec 2019) at IPGMER, Kolkata.

Thesis title: Studies On Naringenin As A Herbal Antidiabetic Agent In Free And Encapsulated State In Polymeric Vehicles.

Publications:

1. **Subhajit Maity**, Piyasi Mukhopadhyay, Patit Paban Kundu, Abhay Sankar Chakraborti. Alginate coated chitosan core-shell nanoparticles for efficient oral delivery of naringenin in diabetic animals-An in vitro and in vivo approach, Carbohydrate Polymers 170 (2017) 124–132 [IF-12.5].
2. **Subhajit Maity**, Sandipan Chakraborty, Abhay Sankar Chakraborti. Critical insight into the interaction of naringenin with human haemoglobin: A combined spectroscopic and computational modelling approaches, Journal of Molecular Structure 1129 (2017) 256-262 [IF- 4.7].
3. **Subhajit Maity**, Abhay Sankar Chakraborti. Formulation, physico-chemical characterization and antidiabetic potential of naringenin-loaded poly D, L lactide-co-glycolide (N-PLGA) nanoparticles, European Polymer Journal 134 (2020) 109818 [IF- 6].
4. Susanta Sadhukhan, **Subhajit Maity**, Sandipan Chakraborty, Silpita Paul, Dinesh Munian, Arup Kumar Pattanayak, Biman Jana Madhusudan Das. Structural insight into the effect of polymorphic variation on the functional dynamics of methionine synthase reductase: Implications in neural tube defects, Chemical Biology & Drug Design (2020) doi.org/10.1111/cbdd.13780 [Joint 1st author] [IF- 3].
5. Sauradipa Banerjee, **Subhajit Maity**, Abhay Sankar Chakraborti. Methylglyoxal-induced modification causes aggregation of myoglobin, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 155 (2016) 1–10 [IF- 4.4].
6. Piyasi Mukhopadhyay, **Subhajit Maity**, Sandipan Chakraborty, Ruchira Rudra, Hiral Ghodadara, Manisha Solanki, Abhay Sankar Chakraborti, A. K. Prajapati, P. P. Kundu. Oral delivery of quercetin to diabetic animals using novel pH responsive carboxypropionylated chitosan/alginate microparticles, RSC Advances 6 (2016) 73210-73221 [IF- 3.9].
7. Soham Mitra, Tarun Keswani, Nabanita Ghosh, Suranjana Goswami, Anuradha Datta, Salomie Das, **Subhajit Maity**, Arindam Bhattacharyya. Copper induced immunotoxicity promote differential apoptotic pathways in spleen and thymus, Toxicology 306 (2013) 74– 84 [IF- 4.5].
8. Piyasi Mukhopadhyay, **Subhajit Maity**, Sudipto Mandal, Abhay Sankar Chakraborti, A.K. Prajapati, P.P. Kundu. Preparation, characterization and in vivo evaluation of pH sensitive, safe quercetin-succinylated chitosan-alginate core-shell-corona nanoparticle for diabetes treatment, Carbohydrate Polymers 182 (2018) 42–51 [IF- 11.2].
9. **Subhajit Maity**, Partha Chakraborti, Abhay Sankar Chakraborti. Naringenin Ameliorates Palmitic Acid-induced Fatty Acid Stress in Hepatocytes, The Natural Products Journal 10 (2021) DOI: 10.2174/2210315511666210121154928 [IF- 0.8].
10. Susanta Sadhukhan, **Subhajit Maity**, Sandipan Chakraborty, Silpita Paul, Dinesh Munian, Arup Kumar Pattanayak, Biman Jana, Madhusudan Das. Molecular Insight into the Effect of a Single-Nucleotide Polymorphic Variation on the Structure and Dynamics of Methionine Synthase Reductase and Its Association with Neural Tube Defects, ACS Omega 6 (2021) 26372–26380 [Joint 1st authorship] [IF- 4.1].
11. Susanta Sadhukhan, Mahammed Moniruzzaman, **Subhajit Maity**, Sudakshina Ghosh,

- Arup Kumar Pattanayak, Suman Bhusan Chakraborty, Biswanath Maity, Madhusudan Das. Organometallic Folate Gold Nanoparticles Ameliorate Lipopolysaccharide-Induced Oxidative Damage and Inflammation in Zebrafish Brain, ACS Omega 7 (2022) 9917–9928 [**Joint 1st authorship**] [**IF- 4.1**].
12. **Subhajit Maity**, Arghya Acharyya, Abhay Sankar Chakraborti. Flavonoid-based Polymeric Nanoparticles: A Promising Approach for Cancer and Diabetes Treatment, European Polymer Journal (2022) [**IF- 6**].
 13. Shuvam Sengupta, Somyajit Pal, Aritra Pal, **Subhajit Maity**, Kunal Sarkar, Madhusudan Das, A review on synthesis, toxicity profile and biomedical applications of graphene quantum Dots (GQDs), Inorganica Chimica Acta 557 (2023) 121677 [**IF- 2.8**].
 14. **Subhajit Maity**, Susanta Sadhukhan, Sudakshina Ghosh, Madhusudan Das, A review on the applications of graphene quantum dots (GQDs) in diabetic complications October 2025 Discover Chemistry 2(1) DOI: 10.1007/s44371-025-00338-1
 15. Banerjee A, Das S, Roy K, and **Maity S**, Citrus-derived bioflavonoids: an alternative approach towards treating diabetes, neurodegenerative diseases and cancer, Proceedings of the 6th International Conference on Food, Nutrition, Health and Lifestyle, Vol.3, Issue.1, 2024, pp.24-43, DOI: <https://doi.org/10.17501/24246778.2024.3102>
 16. Jaya Bhattacharyya, **Subhajit Maity**, Prevention of aggregation of substrate proteins by glyoxal and methylglyoxal without the formation of chemical adducts November 2024 DOI: 10.1109/IIPeM62726.2024.10925710 Conference: 2024 International Conference on Intelligent & Innovative Practices in Engineering & Management (IIPeM)
 17. **Subhajit Maity**, Chitosan nanoparticles for insulin delivery in type 1 diabetes: Overcoming challenges in bioavailability and long-term control January 2025 Next Nanotechnology 8: 100254 DOI: 10.1016/j.nxnano.2025.100254
 18. Arkaprava Mukhopadhyay, Bishal Kumar Dey, Subhankar Chowdhury, **Subhajit Maity**, A Critical Review on Varied Aspects of Gestational Diabetes Mellitus (GDM) and It's Associations with Placenta April 2025 Indian Journal of Endocrinology and Metabolism 29(2):160-167 DOI: 10.4103/ijem.ijem_453_24
 19. **Subhajit Maity**, PLGA Nanoparticles for Targeted Drug Delivery in Breast Cancer: A Comprehensive Review of Current Challenges and Future Directions July 2025 SSR Institute of International Journal of Life Sciences 11(4):8005-8012 DOI: 10.21276/SSR-IJLS.2025.11.4.31

Abstract and poster Presentation:

Attended many conferences and symposia.

- 1) Abstract Symposium (Poster presentation), Exploring biological systems: cell to organism, 1st and 2nd March 2016, University of Calcutta. Naringenin-loaded poly (D, L-lactide-co-glycolide) nanoparticles: Preparation, characterization and therapeutic efficacy in experimental diabetes by **Subhajit Maity** and Abhay Sankar Chakraborti.
- 2) Abstract conference (Poster presentation), National conference on nanoscience and nanotechnology, 18th and 19th September 2014, University of Calcutta. Formulation, characterization and antidiabetic potential of naringeninloaded poly D, L lactide-co-glycolide nanoparticles by **Subhajit Maity** and Abhay Sankar Chakraborti.
- 3) Abstract conference (Poster presentation), 100th Indian Science Congress Conference Proceedings, 3rd-7th January 2013, Jointly by University of Calcutta and Bose Institute. Quercetin-loaded poly (D, L-lactide-co-glycolide) nanoparticles: Preparation,

characterization and therapeutic efficacy in experimental diabetes by Rajat Pal, **Subhajit Maity** and Abhay Sankar Chakraborti.

Research projects:

- ✓ Strategies to overcome metformin side-effects in rodents and its uptake in OCT1 site directed mutagenesis hepatocytes and intestinal epithelial cells (DBT, GoI).
- ✓ Studies on naringenin as a herbal anti-diabetic agent in free and encapsulated state in polymeric vehicles (UGC, GoI).

PhD registration (under my joint supervision):

- ✓ Three (3) [1 from JU & 2 from CU]

Academic Patents:

- ✓ Two (2), Patent office, GoI dated 9.5.2025 and 5.8.2025 respectively

S.No	Patent Title	Name of Applicant(s)	Patent No.	Award Date	Agency/Country	Status
1.	Fatty liver Diagnostic Device	Dr Susanta Sadhukhan, Dr Subhajit Maity, Sujit Pal, Dr Jaypal Rajput, Dr Santanu Koley	No.468534-001	5.8.2025	Indian	Published
2.	AI-AUGMENTED SYSTEMS AND METHODS FOR PRECISION GENE EDITING	1)Dr. Archana Mehrotra 2)Dr. Keshawanand Tripathi 3)Dr. Shamba Chatterjee 4)Dr. Subhajit Maity 5)Dr. Uday Kiran Avasthi 6)Dr. Ananya Das Mahapatra 7)Dr. Akhil Kumar 8)Kanchan Bhatt 9)Poushali Das	202521037922A	9.5.2025	Indian	Published

Books/chapters published:

SI No.	Name of Faculty	Category: Books	Title	Name of the publisher
1	Subhajit Maity (Editor)	ISBN: 9349311003	Nanobiotechnology and diseases	White falcon publishing International
2	Subhajit Maity, Abhay Sankar Chakraborti	9780443248221 (Book chapter)	Therapeutic Applications of Phytoconstituent Nanomedicines	Elsevier Academic Press S& T

As Reviewer:

- ✓ Scientific Reports
- ✓ Journal of Biomaterials Science, Polymer Edition

As Editorial office member:

- ✓ Journal of advanced scientific education and research

As Invited speaker:

- ✓ International Conference at Swami Vivekananda University 2024

As External paper setter, examiner and moderator (PG, UG):

- ✓ The University of Burdwan
- ✓ RKMVCC, Rahara, WBSU
- ✓ Dinabandhu Andrews Institute of Technology and Management, MAKAUT
- ✓ Brainware University
- ✓ SSC micro-observer

As Judge:

- ✓ DST Children Science Congress 2015
- ✓ THK Jain college, CU extempore 2022