

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)

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.
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.
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.
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**].
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.
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.
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.
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.
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.
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**].
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**].

12. **Subhajit Maity**, Arghya Acharyya, Abhay Sankar Chakraborti. Flavonoid-based Polymeric Nanoparticles: A Promising Approach for Cancer and Diabetes Treatment, European Polymer Journal (2022).
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.

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 supervision):

- ✓ None as of now.