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Professor

Dr. Maiti is an M.Pharm(Pharmaceutics) & Ph.D from Jadavpur University, Kolkata having 10 years of research & 12 years teaching experience. He qualified GATE examination in the year 2001. He is associated with various professional bodies like Indian Pharmaceutical Association (IPA), Association of Pharmaceutical Teachers of India (APTI), Indian Science Congress Association (ISCA), Indian Chemical Society (ICS). He is reviewer of various international journals. He has successfully guided nineteen post graduate students and one Ph.D fellow. He has several central government projects in his sleeves.

Area of Research: Biomaterial Science, Nanoscale Drug Delivery System Design

Publication Details:

1. Paramita Dey, **Sabyasachi Maiti**. Orodispersible tablets: A new trend in drug delivery. Journal of Natural Science, Biology and Medicine 2010; 1(1):2-5.
2. Paramita Dey, Prabuddha Basu, **Sabyasachi Maiti**. Studies of macromolecular prodrugs of different categories of drugs: an overview. Inventi Rapid: Pharm Tech 2010; 1(1):1-5.

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5. Ranjit Mondol, Sayon Paul, Somasree Ray, **Sabyasachi Maiti**. Polymeric nanocarriers: a promising research avenue for the delivery of anti-HIV drugs. *International Journal of Applied Pharmaceutics* 2010; 2(2):1-5.
6. Paramita Dey, **Sabyasachi Maiti**, Somasree Ray, Biswanath Sa, Kalyan Sen. Self-emulsification of poorly soluble and highly permeable drugs: An overview. *International Journal of Pharma Recent Research* 2009; 1(1):67-72.
7. **Sabyasachi Maiti**. Liquid-crystal and nano-crystal technology for solubilization of poorly water soluble drugs. *Journal of PharmaSciTech* 2012; 2(1):1-4.
8. Paramita Dey, **Sabyasachi Maiti**, Biswanath Sa. Locust bean gum and its application in pharmacy and biotechnology: an overview. *International Journal of Current Pharmaceutical Research* 2011; 4(1):7-11.
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12. Sayon Paul, Ranjit Mondol, Somdipta Ranjit, **Sabyasachi Maiti**. Antiglaucomatic niosomal system: recent trend in ocular drug delivery research. *International Journal of Pharmacy and Pharmaceutical Sciences* 2010; 2(2):15-18. [2010 IF: 0.38]
13. **Sabyasachi Maiti**, Paramita Dey, Biswanath Sa, Somasree Ray. Influence of microenvironmental pH of alginate facilitated ethyl cellulose microspheres on entrapment efficiency and release characteristics of fluconazole. *International Journal of Current Pharmaceutical Research* 2010; 2(2):17-23.
14. **Sabyasachi Maiti**, and Biswanath Sa. Preparation and characterization of ibuprofen-loaded alginate microspheres using ethylenediamine as a crosslinker. *Oriental Pharmacy and Experimental Medicine* 2008; 8(2):178-186.
15. **Sabyasachi Maiti**, Somasree Ray, Balaram Mandal, Srimanta Sarkar and Biswanath Sa. Carboxymethyl xanthan microparticles as a carrier for protein delivery. *J Microencapsul* 2007; 24(8):743-756. [2007 IF: 1.168]
16. **Sabyasachi Maiti**, Somasree Ray, Biswanath Sa. Effect of formulation variables on entrapment efficiency and release characteristics of bovine serum albumin from carboxymethyl xanthan microparticles. *Polymers for Advanced Technology* 2008; 19(7):922-927. [2008 IF: 2.017]
17. Somasree Ray, **Sabyasachi Maiti** and Biswanath Sa. Preliminary investigation on the development of diltiazem resin complex loaded carboxymethyl xanthan beads. *AAPS PharmSciTech* 2008; 9(1):295-301. [2008 IF: 1.445]

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19. **Sabyasachi Maiti**, Kamalika Singha, Somasree Ray, Paramita Dey, Biswanath Sa. Adipic acid dihydrazide treated partially oxidized alginate beads for sustained oral delivery of flurbiprofen. *Pharmaceutical Development and Technology* 2009; 14(5): 461-470. [2009 IF: 0.895]
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22. Sabyasachi Maiti, Paramita Dey, Arunava Banik, Biswanath Sa, Somasree Ray, Santanu Kaity. Tailoring of locust bean gum and development of hydrogel beads for controlled oral delivery of glipizide. *Drug Delivery* 2010; 17(5):288-300. [2010 IF: 1.246]
23. Somasree Ray, Subham Banerjee, **Sabyasachi Maiti**, Bibek Laha, Saikat Barik, Biswanath Sa, Uttam Kumar Bhattacharyya. Novel interpenetrating network microspheres of xanthan gum-poly(vinyl alcohol) for the delivery of diclofenac sodium to the intestine-in vitro and in vivo evaluation. *Drug Delivery* 2010; 17(7): 508-519. [2010 IF: 1.246]

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26. **Sabyasachi Maiti**, Sayon Paul, Ranjit Mondol, Somasree Ray and Biswanath Sa. Nanovesicular formulation of brimonidine tartrate for the management of glaucoma: *in vitro* and *in vivo* evaluation. *AAPS PharmSciTech* 2011; 12(2):755-763. [2011 IF: 1.432]
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immediate release of diclofenac sodium. *Journal of Drug Targeting* 2013; 21(3):265-76. [2011 IF: 2.696].

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35. **Sabyasachi Maiti**, Susweta Mukherjee, Rana Datta. Core–shell nano-biomaterials for controlled oral delivery and pharmacodynamic activity of glibenclamide. *International Journal of Biological Macromolecules* 2014; 70: 20-25. [IF: 3.096]
36. **Sabyasachi Maiti**, Susweta Mukherjee. Controlled drug delivery attributes of co-polymer micelles and xanthan-*O*-carboxymethyl hydrogel particles. *International Journal of Biological Macromolecules* 2014; 70: 37-43. [IF: 3.096]
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43. Sayantan Sadhukhan, Paromita Bakshi, Rana Datta, **Sabyasachi Maiti**. Poly(ethylene oxide)-*g*-gellan polysaccharide nanocarriers for controlled gastrointestinal delivery of simvastatin. Journal of Applied Polymer Science 132 (2015) 42399. [IF: 1.768]
44. Paromita Bakshi, Sayantan Sadhukhan, **Sabyasachi Maiti**. Design of modified xanthan mini-matrices for monitoring oral discharge of highly soluble Soluplus®-glibenclamide dispersion. Materials Science and Engineering C 54 (2015) 169-175. [IF: 3.09]

Conferences:

1. AICTE sponsored national conference “Biopolymers, Bioactive Agents & Delivery Strategies” (7-8 April, 2012). Paramita Dey, Amrita Chakraborty, Sabyasachi Maiti, Biswanath Sa. Carboxymethyl locust bean gum –alginate hydrogel network for controlled delivery of glipizide (Oral Presentations). (Asansol, West Bengal)
2. AICTE sponsored national conference “Biopolymers, Bioactive Agents & Delivery Strategies” (7-8 April, 2012). Moumita Chowdhury, Sabyasachi Maiti. Fast disintegrating hydrogel beads of modified locust bean gum for quick relief of pain (Oral presentation). (Asansol, West Bengal)
3. 2nd international seminar on “Recent development in pharmaceutical education and research” (20-21 February, 2012). Sabyasachi Maiti, Ranjit Mondol. Evaluation of carboxymethyl locust bean nanoparticles and their drug targeting potential (Oral Presentation) (Uluberia, West Bengal)
4. National seminar in collaboration with APTI Bengal Branch on “Strategies to combat diseases threatening the Nation’s health” (5th September, 2013). Krishna Gopal Mondal, Sabyasachi Banerjee, Sankhadip Bose, Sabyasachi Maiti. Antibacterial and anti-pimple activity of *Murraya koenigii* leaves by using human volunteers (poster presentation) (Asansol, West Bengal).
5. National seminar in collaboration with APTI Bengal Branch on “Strategies to combat diseases threatening the Nation’s health” (5th September, 2013). Ishita Chatterjee, Indrila Saha, Paramita Dey, Sabyasachi Maiti. Interpenetrating polysaccharide network hydrogels for the management of diabetes (poster presentation) (Asansol, West Bengal).

6. 2nd Pharm. Tech. IAPST International Conference on “New Insights into Diseases and Recent Therapeutic Approaches”. Sayantan Sadhukhan, Paromita Bakshi, Sabyasachi Maiti. Smart hydrogel particles of poly (acrylamide)-*g*-gellan polysaccharide for oral delivery of salbutamol sulphate (poster presentation) (Kolkata, West Bengal).
7. AICTE sponsored National Conference on “Complex Diseases, Novel Therapeutics & Delivery Challenges” (23-24 January, 2014). Paromita Bakshi, Sayantan Sadhukhan, Sayon Paul, Sabyasachi Maiti. Nanovesicles of brimonidine tartrate in glaucoma treatment (poster presentation) (Asansol, West Bengal).
8. AICTE sponsored National Conference on “Complex Diseases, Novel Therapeutics & Delivery Challenges” (23-24 January, 2014). Sayantan Sadhukhan*, Paromita Bakshi, Moumita Chowdhury, Sabyasachi Maiti, Rana Datta. Sulfated locust bean gum-aluminium complex of diclofenac sodium with gastroucler protective activity (poster presentation) (Asansol, West Bengal).

Books & Book Chapters

1. Sabyasachi Maiti. Functionally modified alginate particles for oral delivery of NSAIDs, Concepts, Methods and Evaluation. Lambert Academic Publishing, Germany (ISBN: 978-3-659-58119-9). (Book)
2. Sabyasachi Maiti & Kalyan Kumar Sen (Editors). Biotargets & Drug Delivery Approaches. To be published by CRC Press. (Book)
3. Sabyasachi Maiti. Tailored bio-polysaccharide nanomicelles for targeted drug delivery (Chapter 16). In: Nanoparticles’s promises and Risks: Characterization, manipulation, and potential hazards to Humanity and the environment” (M. Lungu, A. Neculae, M.

Bunoiu, C. Biris editors), Springer publisher, 2015. (ISBN: 978-3-319-11727-0) (Book Chapter).

4. Sabyasachi Maiti, Paromita Bakshi, Sayantan Sadhukhan. Ocular preservatives: risks and recent trends in its applications in ODD. In: Nano-Bio-Materials for Ophthalmic Drug Delivery (Y. Pathak, Vijaykumar B. Sutariya, Anjali Hirani, Editors). Submitted to Press. To be Published by Springer.
5. Leena Kumari, Sabyasachi Maiti. Smart Nanopolysaccharides for the Delivery of Bioactives. Alexandru Mihai Grumezescu, Editor, To be published by Springer, Manuscript submitted.
6. Sabyasachi Maiti. In: Handbook of Research on Bio-Inspired Materials. Mohamed Bououdina, Editor. To be published by IGI-Global, Manuscript submitted.
7. Kalyan Kumar Sen, Sabyasachi Maiti, Biswanath Sa. Basic Concepts in Drug Targeting. In: Biotargets & drug delivery approaches. (S. Maiti, KK Sen, Editors), To be published by CRC press. In Progress.
8. Manabendra Dhua, Kalyan Kumar Sen, Sabyasachi Maiti. Functionally Decorated Polysaccharides and their Novel Therapeutic Targets. (S. Maiti, KK Sen, Editors), To be published by CRC press. In Progress.
9. Sabyasachi Maiti. Nanoemulsification Technology in Improving Bioavailability of Lipophilic Functional Food-Grade Ingredients and Quality of Food Products. In: Nanotechnology in Food Industry, Alexandru Mihai Grumezescu, Editor, To be published by Springer. In progress.