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**Professor**

Dr. Ray is an M.Pharm (Pharmaceutics) & PhD from Jadavpur University, Kolkata. She is having 14 years work experience in pharmaceutical education & 10 years of research experience. She also qualified GATE in the year of 1999. She has successfully guided more than twenty five post graduate students. She is also running a scientific project sponsored by AICTE.

**Area of Research:** Development of novel delivery devices.

**Publication Details:**

1. Smart reticulated hydrogel of functionally decorated gellan copolymer for prolonged delivery of salbutamol sulphate to the gastro-luminal milieu. Maiti S, Ghosh S, Mondol R, **Ray S**, Sa B. **J Microencapsul.** 2012 May 17
2. Al<sup>+3</sup> ion cross-linked and acetalated gellan hydrogel network beads for prolonged release of glipizide. Sabyasachi Maiti, Somdipta Ranjit, Ranjit Mondol, **Somasree Ray**, Biswanath Sa. **Carbohydrate polymer.** vol 85(1). 2011.164-172
3. 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. **Ray S**, Banerjee s, Maiti S, Laha B, Barik S, Sa B, Bhattacharyya UK. **Drug Delivery.** 2010 sep-oct;17(7):508-19.
4. Polyethyleneimine-treated xanthan beads for prolonged release of diltiazem: in vitro and in vivo evaluation. **Ray S**, Maiti S, Sa B. **Arch Pharm Res.** 2010 apr;33(4):575-83.

5. Tailoring of locust bean gum and development of hydrogel beads for controlled oral delivery of glipizide. Maiti S, Dey P, Banik A, Sa B, **Ray S**, Kaity S. **Drug Delivery**, 2010; 17(5): 288–300.
6. Controlled delivery of bovine serum albumin from carboxymethyl xanthan microparticles. Maiti S, **Ray S**, Sa B. **Pharm Dev Technol**. 2009;14(2):165-72.
7. Investigation on processing variables for the preparation of fluconazole-loaded ethyl cellulose microspheres by modified multiple emulsion technique. Maiti S, Dey P, Kaity S, **Ray S**, Maji S, Sa B. **Aaps Pharmscitech**. 2009;10(3):703-15.
8. Effect of formulation variables on entrapment efficiency and release characteristics of bovine serum albumin from carboxymethyl xanthan microparticles. Sabyasachi Maiti, **Somasree Ray**, Biswanath Sa. *Polymers for advanced technologies*. **19(7)**, 2008. 922 – 927.
9. Adipic acid dihydrazide treated partially oxidized alginate beads for sustained oral delivery of flurbiprofen. Maiti S, Singha K, **Ray S**, Dey P, Sa B. **Pharm Dev Technol**. 2009;14(5):461-70.
10. Preliminary investigation on the development of diltiazem resin complex loaded carboxymethyl xanthan beads. **Ray S**, Maiti S, Sa B. **Aaps Pharmscitech**. 2008;9(1):295-301
11. Carboxymethyl xanthan microparticles as a carrier for protein delivery. Maiti S, **Ray S**, Mandal B, Sarkar S, Sa B. **J Microencapsul**. 2007; 24(8):743-56.
12. Release and skin permeation studies of naproxen from hydrophilic gels and effect of terpenes as enhancers on its skin permeation. **Ray S**, Ghosal SK. **Bolletino Chimico Farmaceutico**. 142-n-3-april 2003.
13. Polymeric nanocarriers: a promising research avenue for the delivery of antihiv drugs. Ranjit Mondol, Sayon Paul, **Somasree Ray**, Sabyasachi Maiti. **International Journal of Applied Pharmaceutics**. 2(2), 2010.
14. Influence of microenvironmental pH of alginate facilitated ethyl cellulose microspheres on entrapment efficiency and release characteristics of fluconazole. Sabyasachi Maiti, Paramita Dey, Biswanath Sa, **Somasree Ray**. **International Journal of Current Pharmaceutical Research**. 2(2), 2010.
15. Self-emulsification of poorly soluble and highly permeable drugs: an overview. Paramita Dey, Sabyasachi Maiti, **Somasree Ray**, Biswanath Sa, Kalyan Sen. **International journal of pharma recent research** 1(1), 2009.