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<p>(51) International classification</p> <p>:B82Y5/00, B82Y30/00, B82Y40/00, A61K9/51, A61K31/722, A61P35/00, A61K31/7105, A61K31/711</p> <p>(31) Priority Document No :NA (32) Priority Date :NA (33) Name of priority country :NA (86) International Application No : Filing Date :01/01/1900 (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Mrs. Swati Gautam Address of Applicant :Assistant Professor Pharmacy Academy, Faculty of Pharmacy, IFTM University, Lodhipur Rajpoot, Moradabad 244102 Uttar Pradesh India</p> <p>2)Mrs. Rekha U 3)Mansi Manoj Bhosale 4)Pulkit Baliyan 5)Dr.Neha Ronald William 6)Dr. SUNITHA V HEGDE 7)Dr Arpan K Tripathi 8)Dr. Ritesh Kumar 9)Meghana Milind Gore 10)Kiran Pralhad Gaikwad 11)Parikshit D. Shirure 12)Akash Shrikrishna Patil</p> <p>(72)Name of Inventor :</p> <p>1)Mrs. Swati Gautam 2)Mrs. Rekha U 3)Mansi Manoj Bhosale 4)Pulkit Baliyan 5)Dr.Neha Ronald William 6)Dr. SUNITHA V HEGDE 7)Dr Arpan K Tripathi 8)Dr. Ritesh Kumar 9)Meghana Milind Gore 10)Kiran Pralhad Gaikwad 11)Parikshit D. Shirure 12)Akash Shrikrishna Patil</p>
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(57) Abstract :

The present invention provides a novel mechanistically optimized trimethylated chitosan nanoparticle system for targeted therapy of metastatic colon cancer through gene regulation and pathway modulation. The platform represents a significant advancement in nanomedicine and precision oncology, offering improved therapeutic efficacy and safety compared to conventional treatments.

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