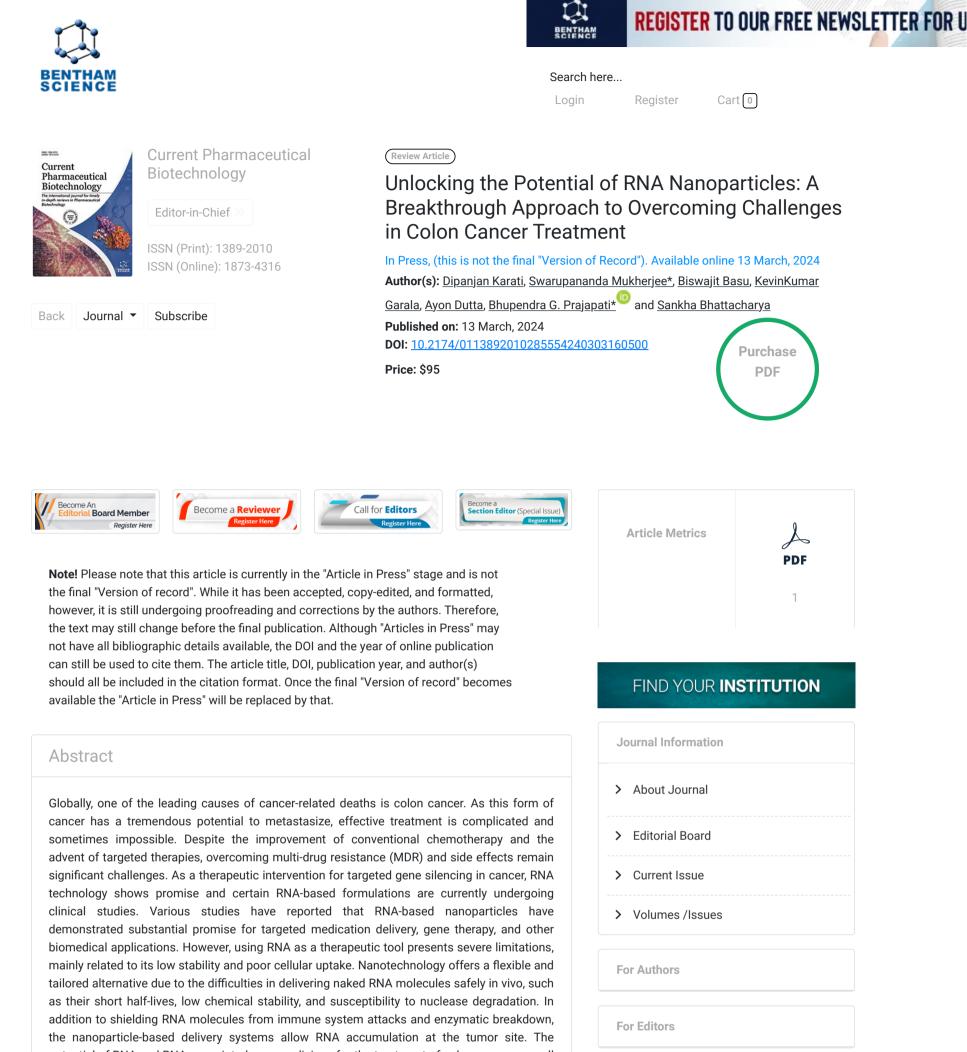
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addition to shielding RNA molecules from immune system attacks and enzymatic breakdown, the nanoparticle-based delivery systems allow RNA accumulation at the tumor site. The potential of RNA and RNA-associated nanomedicines for the treatment of colon cancer, as well as the prospects for overcoming any difficulties related to mRNA, are reviewed in this study, along with the current progress of mRNA therapeutics and advancements in designing nanomaterials and delivery strategies.

Keywords: Nano-formulation, mRNA, Polymer, Toxicity, Multi-drug resistance (MDR), Lipid-

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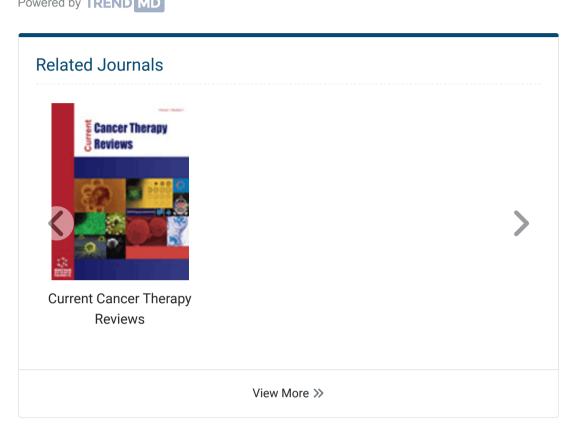
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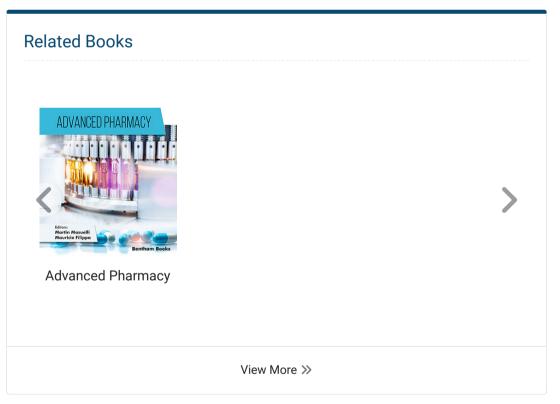
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