

CONJUGATED POLYMER NANOPARTICLES FOR NUCLEIC ACID DELIVERY.

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RNA interference as a powerful gene regulation tool necessitates efficient delivery of double-stranded RNA (dsRNA) to target cells or tissues without toxic side effects. Owing to unique aggregation structures and low charge density, conjugated polymer nanoparticles (CPNs) are promising fluorescent materials for small interfering RNA (siRNA) delivery. Herein, we present that CPNs fabricated by an acid treatment of amine-containing CPs are nontoxic and efficient siRNA carriers with the delivery visualization by fluorescent microscopic imaging.