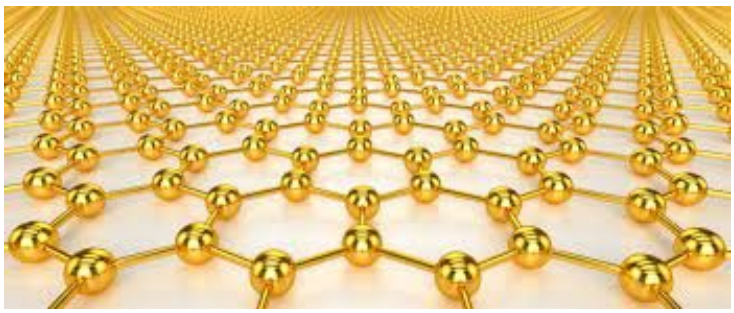
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Gold nanoparticle-based drug delivery solution to improve cancer management

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A novel site-specific drug delivery method using gold nanoparticles can improve management and treatment of cancer



Researchers at Amity University Rajasthan, Jaipur have developed therapeutic agents with the help of nano-biotechnological approaches using a unique solution of ‘gold nanoparticles’ that helps in improving the site-specific drug delivery for cancer disease management and its effective treatment.

The results have revealed that the appropriate surface corona on the gold nanoparticles was essential for effective cancer treatment in a selective manner.

The research was extended toward lung cancer cells using functional silver nanoparticles and selective anti-cancer effect originating from surface chemistry of silver nanoparticles was demonstrated in a recent publication.

Both the studies have provided deeper understanding regarding the mechanism of anti-cancer actions of the functional nanoparticles.

The research was a global effort with researchers from University of Miyazaki, Japan; and RMIT University, Australia actively participating in it. Now, the team is planning clinical studies on the formulated nanoparticles.

The study will open new opportunities for better cancer management and treatment, and pave a way for future nanomedicine even beyond cancer.