

Medical application of gold nanoparticles

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Rich history of gold that goes back thousands of years and rediscovering various possibilities of use of this metal especially in some medical and pharmaceutical branches focus attention of scientists from all over the world. More and more researches over potential of Gold Nanoparticles (GNPs) in therapies of tumors are being done. Results of experiments comparing properties of different nanoparticles forms and their modifications emerge every year. Maybe it will be possible soon to create a form of gold completely safe as a medicine that could destroy illnesses towards which mankind is still largely helpless. Anyway, gold nanoparticles and some gold complex compounds may have future in oncology ahead. What is more, novel ways GNPs synthesis are being developed, especially those using plants. Some forms of gold are successfully applied in wound healing therapies and regenerative medicine as well as towards various pathogenic microorganisms. Among all kinds of gold forms, high hopes are bound especially to gold nanoparticles as they may be applied in many ways, not only as a remedy, but also used in diagnostic techniques. Gold is recognized as biocompatible material, but more research towards possible side effects is needed. This work presents information set concerning connections between gold applications in different medical fields.

Biography

Agata K Kolodziej-Macczak has her expertise in wound healing and active dressings. She has worked as a Pharmacist, Master degree in Pharmacy and studying medicine as her second Faculty.

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