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Nano anti-cancer drugs: Hope for future

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Routine chemotherapy for cancer treatment has several side and toxic effects. Recently, a new approach of nano anti-cancer drug has been developed and only few drugs are available in the market today. The unique features of these drugs are targeted action on cancer cells only without any side effect and, hence, called magic drugs. The important molecules used for preparation of nano anti-cancer drugs are cisplatin, carboplatin, bleomycin, 5-fluorouracil, doxorubicin, dactinomycin, 6-mercaptopurine, paclitaxel, topotecan, vinblastin and etoposide etc. The most commonly used materials for preparing nano particles carriers are dendrimers, polymeric, liposomal, micelles inorganic, organic etc. The proposed lecture will comprise the-of-art of nano drugs in cancer chemo-therapy including preparation, types of drugs, mechanism, future perspectives etc.

Biography

He is a world recognized academician and researcher. He completed his Ph.D. from Indian Institute of Technology Roorkee, Roorkee, India. Prof. Ali is known globally due to his great contribution in anti-cancer and chiral drugs development and water treatment. He has published 350 papers in reputed journals including papers in Nature and Chemical Reviews. He has also five books published by Marcel Dekker, Inc., USA; Taylor & Francis, USA; John Wiley & Sons, USA; John Wiley & Sons, UK; Elsevier, The Netherlands. His citation is 112000 with H index 46.

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