

16TH WORLD MEDICAL NANOTECHNOLOGY CONGRESS September 03-04, 2018 Tokyo, Japan

Advanced drug delivery: Nano-targeted delivery for therapeutic and imaging

Shaker Mousa

The Pharmaceutical Research Institute-ACPHS, USA

Targeted delivery of drug incorporated nanoparticles, through conjugation of tumor-specific cell surface markers, such as tumor-specific antibodies or ligands can not only enhance the efficacy of the anticancer drug but also reduce the unwanted toxicity of the drug. Additionally, multifunctional characteristics of the nano-carrier system would allow for simultaneous imaging of tumor mass, targeted drug delivery and monitoring. A summary of recent progress in nanotechnology as it relates specifically to nanoparticles and anticancer drug delivery will be reviewed. Nano Nutraceuticals using combination of various natural products provide a great potential in cancer management. Additionally, various Nanomedicine approaches for the detection and treatment of various types of clots organ specific delivery, vascular targeting, improved PK / PD, and vaccine will be briefly discussed.

shaker.mousa@acphs.edu