

Chemical Sciences Seminar

Speaker	Dr. Amit A. Vernekar Birla Institute of Technology and Science – Pilani, Hyderabad
Title	Plant Viruses for the Delivery of Platinum Anticancer Therapeutics
Date	Wednesday, July 11, 2018
Time & Venue	2.30 P.M. in AG-69

Abstract

Platinum-based anticancer drugs such as cisplatin, carboplatin, and oxaliplatin are used in the treatment of nearly half of the population of the cancer patients undergoing chemotherapy. These drugs, however, lack selectivity and have dose-limiting toxicities, low bio-availability, rapid clearance from the body, and may encounter drug resistance mechanisms, leading to the recurrence of the cancer. Therefore, efficient loading of drugs in novel delivery agents has the potential to substantially improve therapy by directly targeting the diseased tissue and avoiding unwanted side effects. Given that the development of new drugs is expensive, reducing toxicity caused by existing drugs by packaging them into delivery vehicles is attractive and can be achieved by controlled and targeted methodologies. Although presently available nano-sized delivery agents impart safety, their limited efficacy and inability to penetrate tissue adequately are some of the limitations. Consequently, development of new drug delivery methods has been a subject of recent burgeoning interest.

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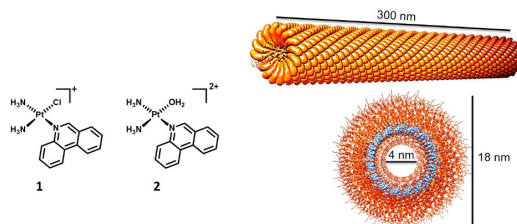


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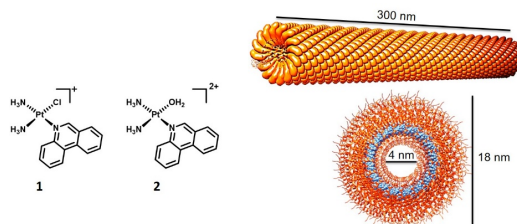


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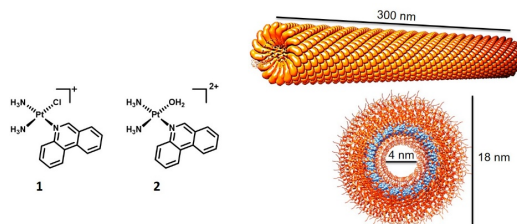


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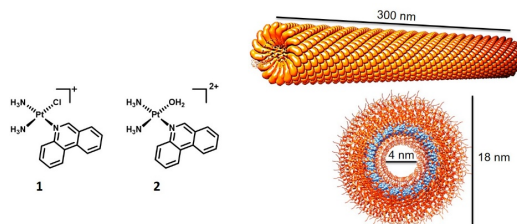


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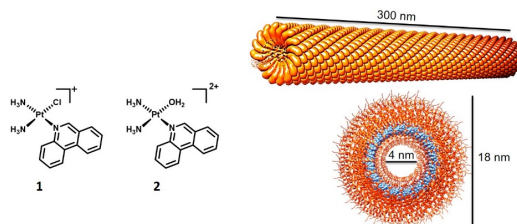


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