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Office of the Registrar  
(Press & Publicity Cell)

Date: 07.02.2019

## 'Nanomedicine offers ray of hope to breast cancer patients'

**VARANASI:** A team of scientists from IIT- BHU's department of pharmaceutical engineering and technology has developed a nano-medicine which targets only cancer cells without affecting healthy cells. They named the formulation targeted therapy which is very effective in treating breast cancer. In this therapy, a low dose of medicine is required.

Dr MS Muthu, who headed the team, said that the current treatment of cancer available basically targets both normal as well as cancer cells. "To address the issue, we developed nano-medicine and named it target therapy for treatment of breast cancer. Under the therapy, nanomedicines or nano drug particles are administered to a patient intravenously. These nanomedicine particles travel fast to the cancer cells and destroy only those, without affecting healthy cells, he said. The nanodrug particles adhere to the cancer cells and these particles remain there for a longer period due to which the therapy is very effective in curing breast cancer, he added.

He said that pre-clinical trials have been successful and now they were planning to seek permission for clinical trials. He said that the nano-medicine may lead to a possible clinical application and help in improving the life quality in breast cancer patients.

HTC