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Educational Qualification: M. Pharm (Pharmacology)

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Research Abstract: Triple-Negative Breast Cancer (TNBC) is the highly heterogenous and aggressive breast cancer with high rate of metastasis, drug resistance and poor prognosis. TNBC suffers with poor cellular bioavailability, drug resistance, and undesirable off-site toxicities. Notch signalling in TNBC regulates cell proliferation, differentiation, apoptosis, regeneration and other cellular actions. GSIs (γ -secretase inhibitors) used in the treatment of TNBC suffers with drug resistance and off-target effects. So, targeted combination therapy is one of the strategies to block notch signalling in a sequential manner. Therefore, we hypothesize that the active targeting by conjugating ligand-directed antibodies (DLL4 and DR5) on the surface of Solid lipid nanoparticles (SLNs) is an attractive strategy for selective delivery of GSI to tumour site and also for minimizing the off-target effects.

Fellowships: Govt, AICTE-NDF

Awards & Scholarships:

- Received AICTE- National Doctorate Fellowship to support my research work.
- Received gold medal in B. Pharmacy from Himachal Pradesh Technical University, Hamirpur.
- First rank in M. Pharmacy, Department of Pharmacology, Punjab Technical University.
- Qualified in GPAT 2017 examination conducted by AICTE, New Delhi.

Way Forward: In five years, I would like to see myself as an expert in the field of cancer so that I can contribute my research for the new discoveries in cancer.