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Year of Registration: 2016

Project Supervisor

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Research Abstract

Tumor relapse and metastasis are major challenges to cure triple negative breast cancer (TNBC). Presence of breast cancer stem cells (BCSCs) and epithelial–mesenchymal transition (EMT) are the responsible factors for the aggression of TNBC. Conventional therapeutic agents cannot address these major challenges as they target only bulk tumor cells (non-BCSCs). Notch and STAT3 signalling pathways play key role in maintenance of BCSCs and induction of EMT. However, the efficacy of Notch and STAT3 inhibitors is limited due to off-target effects and poor intracellular uptake. Compelling body of evidences suggest that, there is over expression of sialic acid (SA) receptors and Death receptor-5 specifically in TNBC cells, and they are attractive targets for tumor specific delivery. My current research focus is, therefore, to improve selectivity and therapeutic efficacy of Notch and STAT3 inhibitors in TNBC cells (non-BCSCs and BCSCs) by formulating active targeted nanocarriers against SA receptors and Death receptor-5 (SA-Niclo-SLN). (Pindiprolu et al., 2017), (Pindiprolu et al., 2018).

Fellowships (Govt.)

- CSIR-Senior Research Fellowship
- ICMR-Senior Research Fellowship

Awards & Scholarships

- Tony B. Academic travel award from SLAS, USA
(<https://www.slas2019.org/awards/academic-travel-awards/slas2019-tony-b-academic-travel-award-winners/>)
- International Travel Grant from DST-SERB
- International Travel Grant from ICMR, New Delhi
- International Travel Grant from CICS, Chennai
- Qualified GPAT with All India Rank 1565

Way Forward

In the coming years, I would like to see myself in a promising position that offers both a challenge and opportunity to utilize my scientific skills & knowledge.