Panel Discussion : NIH AREA R15 grant

Friday February 12th 2021 - 12:00 pm (Central Time)



Seetharama Jois is a Professor at the School Basic Pharm & Toxicol Sci – ULM.

Dr. Jois' research interest is to modulate the protein-protein interactions (PPI) using peptides and peptidomimetics. He has worked extensively on the design of peptide/peptidomimetic molecules to target proteins important in human diseases such as cancer and rheumatoid arthritis using computational and experimental methods. His research group is interested in structural aspects of epidermal growth factor receptor (EGFR) extracellular domains, which have important implications in cancer. He has designed novel peptidomimetics that target human epidermal growth factor receptors (EGFRs) and inhibit the dimerization of HER2 with other receptors such as EGFR and HER3. This research was supported by NCI (R15 CA188225-01A1, 2015-2019). In this project, Dr. Jois and his group investigate the molecular mechanism of inhibition of dimerization of peptides using in vitro and in vivo models of non-small cell lung cancer. Recently, he designed grafted peptides of these peptidomimetics using sunflower-trypsin inhibitors as a template to inhibit the PPI of EGFRs.



LBRN 19th Annual Meeting