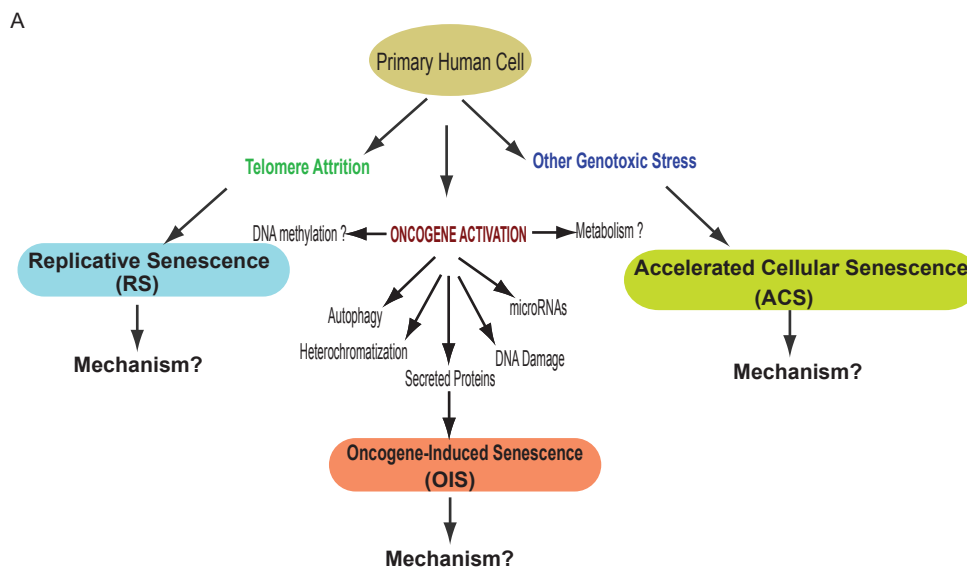
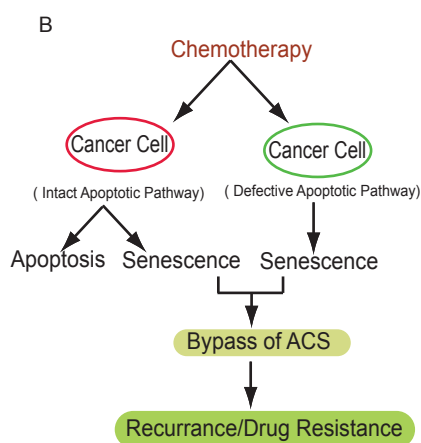


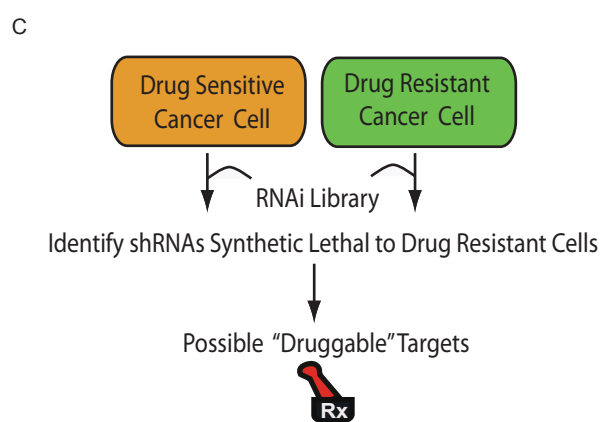
Identification of Regulators of Cellular Senescence in Primary Human and Cancer cells and Targeting them for Cancer Treatment



Primary human cell can undergo different forms of cellular senescence depending upon the stimuli. Many regulatory pathways are associated with induction of cellular senescence still many others need to be identified. Understanding of Cellular senescence has direct implication in human aging, cancer, stem cell biology and other human diseases.



Bypass of ACS is now being recognized as a mechanism by which cancer recurs and cancer cell become drug resistance. The genes that regulate ACS can be potential “druggable” targets.



We are performing a genome-wide RNAi screen wherein we are trying to identify genes that are possibly “synthetic lethal” to drug resistant cancer cells only.