Restoration of Tumour Suppressors miRNAs

- Let-7a-1, miR-34a, miR-143, miR-145

Under Expression of Oncogenic mRNAs
- Ras, Bcl2, c-myc, FLI1, DNMT3A, Axl

- Reduced cell viability, cell growth, colony formation, migration & invasion
- Increased chemosensitivity

DICER

- Processing

RISC

- Active loading with RISC

mRNA mimics competing with mature miRNA for RISC

Synthetic miRNA mimics

miRNA transcription gene linked to virus construct e.g. Adenovirus-associated vector (AAV)

Target mRNA Binding Proteins

Decoy Activity