Molecular Diagnostics / Biomarkers – Identification of specific miRNAs or miRNA expression based signatures that can act as biomarkers for various diseases/pathologies.

1. Make accurate and detailed clinical diagnosis
2. Determine prognosis and predict treatment efficacy
3. Monitor and assess the effects of environmental and other toxicants

miRNA profiling of plasma may provide a molecular signature for tumor metastasis in pancreatic cancer

miRNA expression patterns can distinguish between renal cell carcinoma subtypes

miR-215 is a tumour suppressor in renal cell carcinoma metastasis

miR-215 is a tumour suppressor in renal cell carcinoma metastasis

Endogenous human miRNAs that suppress breast cancer metastasis

Drug Discovery / Therapeutics – Identification of miRNAs that play essential roles in disease to act as drugs or possible therapeutic targets inhibitors.

1. miRNAs as tumor suppressor drugs
2. miRNAs as drug targets
3. Study of miRNAs to understand chemo/radio resistance

Restoring miR-342 - a novel therapeutic approach to sensitizing and suppressing the growth of tamoxifen resistant breast tumors