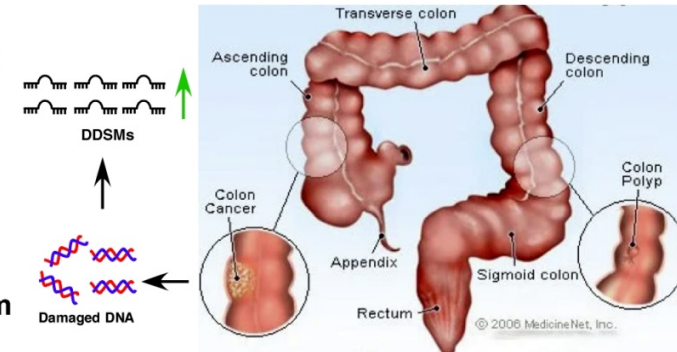


# "Expression of Interest" for Technology Transfer

## **DNA Damage Sensitive MicroRNAs (DDSMs): a sensitive tool to detect the earliest Stage I colon cancer**

- Colon cancer is the third most common cancer in men and second most common in women in India
- A six microRNA signature (called DDSM) has been discovered in colon cancer tissues which detects even Stage I patients
- The microRNA signature responds to the damaged DNA present in the cancer cells and degrades the mRNAs of multiple proteins involved in maintaining genome integrity
- The functioning of the DDSMs validated in multiple preclinical mouse models
- The microRNA signatures have been validated in the tissues and serum of 54 colon cancer patients from AIIMS, New Delhi and 410 colon cancer patient microRNA signatures present in The Cancer Genome Atlas (TCGA)



Priya et al., Journal of Cell Science 134(15): jcs258601 (2021)  
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Patent: PCT/IN2020/050776

**Get in touch: [submissions\\_cpiicc@nii.ac.in](mailto:submissions_cpiicc@nii.ac.in)**