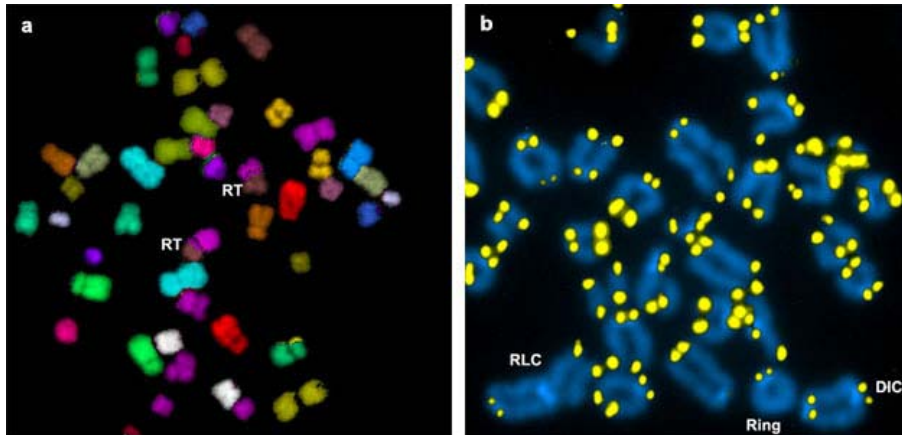


## Dr. M. Prakash Hande

### **Telomeres and Telomerase in Ageing and Cancer :**

Dr. Hande investigates the role of telomeres and telomerase in ageing and in cancer to understand the relationship between defective DNA-repair, telomere dysfunction, chromosome instability and cancer. This will strengthen the need of surveillance and early identification of tumours in high-risk groups and will help in planning effective cancer treatment.



#### Legend for the pictures:

- a. Human metaphase chromosomes showing reciprocal translocation (RT) after multicolour (24-colour) fluorescence in situ hybridisation
- b. Mouse metaphase chromosomes stained for telomeres (yellowish green) showing Robertsonian like configuration (RLC), ring like structure (Ring) and Dicentric chromosome resulted from telomere dysfunction