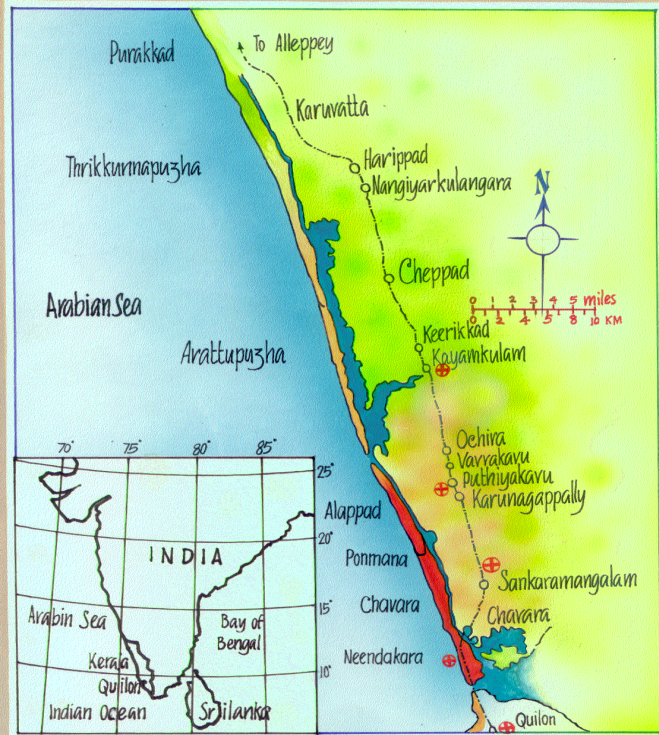
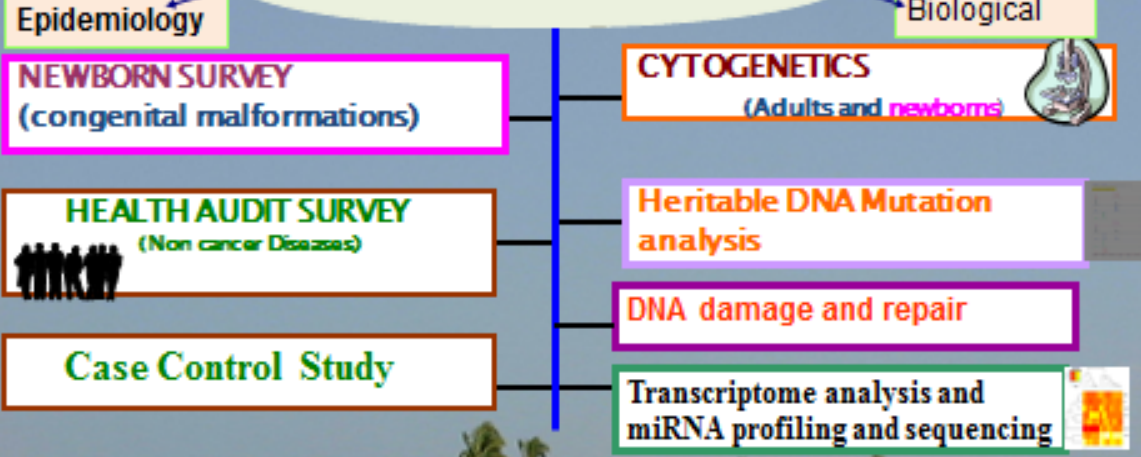


# Research activities at high level natural radiation areas of Kerala coast

## Study Area



## KERALA HLNRA STUDIES



- ❖ Approx. 55x0.5 sq km strip along the south-west coast of India.
- ❖ Thickly populated (~400,000 population)
- ❖ Inhabited for generations.
- ❖ study the effects of radiation directly on humans.
- ❖ Ideal for dose-response studies.

- ❖ Radiation source - Thorium (and its decay products) containing monazite sand.
- ❖ Radiation dose rates ranges from < 1 to 45 mGy /yr
- ❖ NLNRA: Normal Level Natural Radiation Area ( $\leq 1.5$  mGy/year)
- ❖ HLNRA: High Level Natural Radiation Area (> 1.5 mGy/year)

