Accomplishments

Dr. Samson Mani

I was awarded post-doctoral fellowship at International Agency for Research on Cancer (IARC), World Health Organization, France and trained in the epigenetics group. I have received four grants from the Government of India in the capacity of Principle Investigator. My research group has identified non-coding RNAs which has a potential to be used as breast cancer biomarkers. A patent has been filed for the use of non-coding RNAs as a non-invasive breast cancer biomarker. We have identified the interaction between DNA methylation and non-coding RNA regulation which can be used as therapeutic approaches in cancer. I am also in-charge of the Molecular Diagnostic unit which provides molecular and NGS-based testing services to the patients.

Key Publications:

1. Rao AK, Arvinden VR, Ramasamy D, Patel K, Meenakumari B, Ramanathan P, Sundersingh S, Sridevi V, Rajkumar T, Herceg Z, Gowda H, **Mani S*.** Identification of novel dysregulated circular RNAs in early-stage breast cancer. Journal of cellular and molecular medicine. 2021 Apr;25(8):3912-21.
2. Deva Magendhra Rao AK, Patel K, Korivi Jyothiraj S, Meenakumari B, Sundersingh S, Sridevi V, Rajkumar T, Pandey A, Chatterjee A, Gowda H*, **Mani S*.** Identification of lncRNAs associated with early-stage breast cancer and their prognostic implications. Molecular oncology. 2019 Jun;13(6):1342-55.

3. Rao AKDM, Rajkumar T, **Mani S*.** Perspectives of long non-coding RNAs in cancer. Molecular biology reports. 2017;44(2):203-18.

4. Aarthy R, Rao AK, Patel K, Sridevi V, Rajkumar T, Gowda H, **Mani S***. Alteration of miR-362-5p and miR-454-3p expression elicits diverse responses in breast cancer cell lines. Molecular biology reports. 2022 Jan;49(1):821-6.

5. **Mani S**, Szymańska K, Cuenin C, Zaridze D, Balassiano K, Lima S, Matos E, Daudt A, Koifman S, Wunsch FilhoV, Menezes A, Curado MP, Ferro G, Vaissière T, Sylla BS, Tommasino M, Pinto LFR, Boffetta P, Hainaut P, Brennan P, Herceg Z (2012). DNA methylation changes associated with risk factors in tumours of the upper aerodigestive tract from South America. Epigenetics. 7:3, 1-8.

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Google scholar link:
https://scholar.google.com/citations?user=kYyri_EAAAAJ&hl=en