Novel noninvasive method for diagnosis of visceral leishmaniasis of sputum samples

Salient features of the technology:

- Immunoglobulin G (IgG)-antibody detection using recombinant antigen in sputum samples is a patient friendly and ideal qualitative test for diagnosis of kala-azar (visceral leishmaniasis).
- Kala-azar detection is very simple, rapid, safe and purely non-invasive method by using sputum samples.
- The test is most convenient for collection with high sensitivity & specificity and also economical.
- It's more useful in the rural or difficult field conditions across the world that can be easily performed and acceptable at community level for routine diagnosis of kala-azar (VL).
- Instead of splenic or bone marrow aspirates / and whole blood or serum, sputum is only required and the test has no need for special equipment or sophisticated laboratory technology and easily interpretable results can be read visually within 10 to 15 min.
- It has been developed up to laboratory scale and can be upgraded to rural field scale.
- 3rd party validation is under progress.
- This technology has been developed by RMRIMS, Patna (an ICMR institute).