

Simplified molecular diagnosis for leishmaniasis

Problem

Leishmaniasis is a global public health problem and presents symptoms similar to other diseases which makes it essential to confirm suspected cases through laboratory diagnosis. Molecular diagnosis based on the polymerase chain reaction (PCR) technique is highly accurate. However, its use is restricted to reference laboratories due to the need for a complex laboratory infrastructure and qualified professionals.

Solution

The proposed technology consists of the creation of a new set of primers and method for the Loop-mediated Isothermal Amplification (LAMP) assay to quickly and accurately detect and identify Leishmania DNA in biological samples from human patients with visceral leishmaniasis, and integumentary, and in dogs with visceral leishmaniasis. As it is easy to perform and interpret, the test can be carried out in laboratories with less complexity by local professionals, and in basic health units.

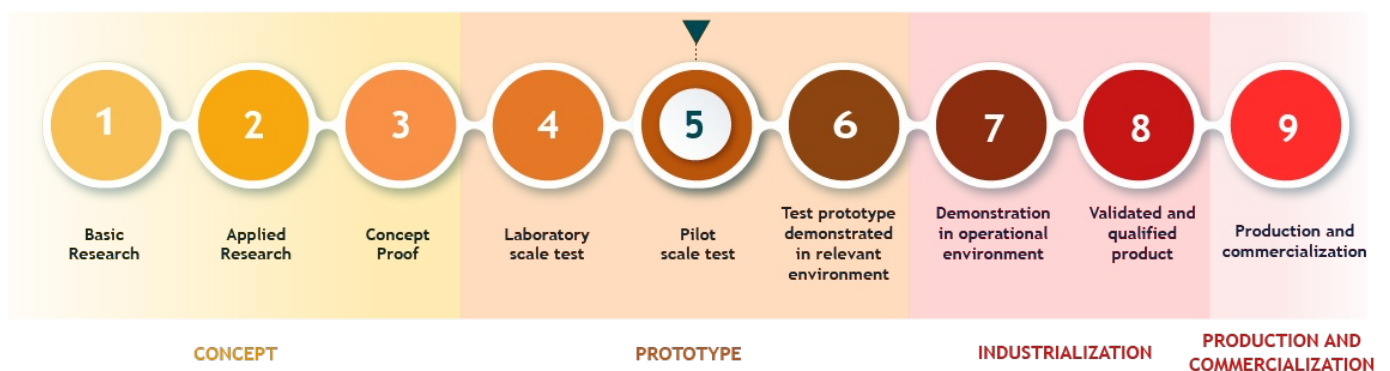
Differential

High accuracy

Simple execution

Cost reduction

Development stage



What we are searching for

Co-development or technology licensing agreement.

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Inventors

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Intellectual Property

Type
Invention Patent



Description
Patent application filed in Brazil, China and India

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