AUA TECH TRANSFER projecTT

AUA
Agricultural University of Athens
Project of Technology Transfer

Connecting Scientific research with Business ideas

PROJECT TITLE

"Nanotechnology and Molecular Biology-Based diagnostics"

TARGET

- Tuberculosis (HUMAN / ANIMAL)
- Leishmaniasis (HUMAN / ANIMAL)
- Paratuberculosis (RUMINANTS)

APPROACH

COLORIMETRIC / FLUORESCENCE NANOTECHNOLOGY

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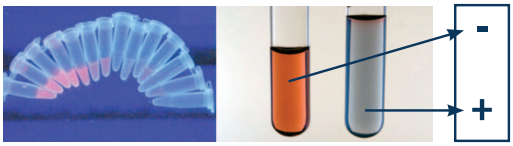
ONE-TUBE, SEMI-NESTED PCR



INNOVATION

Tuberculosis / Leishmaniasis

One-method-test-all, No dedicated equipment, Very simple to use, 1/10th of PCR cost for detection of microbial. Methods have been patented and published.

NEXT STEPS

TUBERCULOSIS / LEISHMANIASIS

PARATUBERCULOSIS

Molecular detection of microbial DNA with minimum detection limit down to single cell, immediate result conformation. The potential of profit in comparison to currently available kits is by no-means less than substantial.

TUBERCULOSIS / LEISHMANIASIS

Optics for the development of a low-cost prototype (50-300 euro) towards decreasing minimum detection limit to the level of PCR. Work is being planned in collaboration with UCL, London, Dep. of Medical Physics.

PARATUBERCULOSIS

Commercial development (intra-laboratory validation has been performed at international level).

OUR TEAM

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