Docket #: S15-282

# **Probes for mycobacterium detection**

This invention describes the designing of biochemical probes for acid-fast bacteria detection. This probe will measure the presence of acid-fast bacteria in a biological matrix.

#### Stage of the Research:

Preliminary proof-of-concept demonstration has been achieved.

#### **Ongoing Research:**

Further validation and testing with more complex biological samples including clinical samples.

Clinical trials are being planned.

### **Applications**

• Clinical diagnosis of microbial diseases.

#### **Advantages**

- Simple assay workflow
- Relatively fast staining
- Potential for good sensitivity
- Potentially compatible with existing clinical microbiology instrumentation

#### **Publications**

• Cheng, Y. et al. <u>Rapid and specific labeling of single live Mycobacterium</u> <u>tuberculosis with a dual-targeting fluorogenic probe</u> *Sci. Transl. Med.* 10 eaar44 15 August 2018.

• U.S. Patent Application Serial No. 15/001,591

### Patents

- Published Application: 20170044593
- Published Application: WO2017027062
- Issued: <u>10,370,538 (USA)</u>

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