

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. [Rapid and specific labeling of single live Mycobacterium tuberculosis with a dual-targeting fluorogenic probe](#) *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: [10,370,538 \(USA\)](#)

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