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)

Innovators

- Jianghong Rao
- Yunfeng Cheng
- Jinghang Xie

Licensing Contact

Hyunjin Kim

Licensing Manager, Life Sciences

Email