

## Multiple cytokine analysis based on QuantiFERON-TB Gold Plus in different tuberculosis infection status: an exploratory study

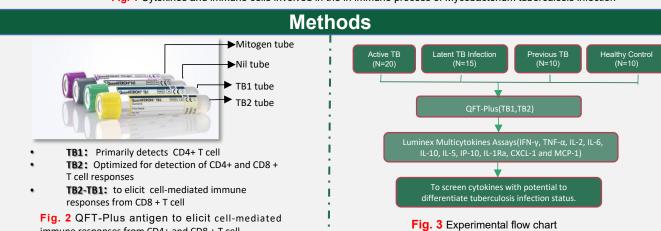
zhengrong Yang, Lifan Zhang, Qiping Ge,Yueqiu Zhang,Fengying Wu,Mengqiu Gao,Xiaoqing Liu\*
Peking Union Medical College Hospital, Chinese Academy of Medical Science, Beijing,100730, China
liuxa@pumch.cn

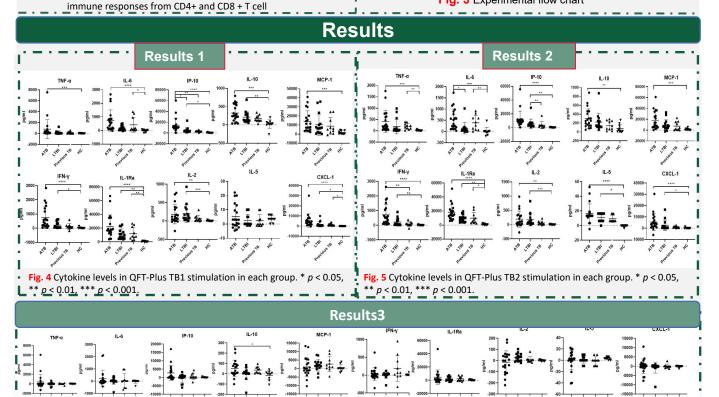
## **Objective**

To explore the differences of multiple cytokines secretion based on QuantiFERON-TB Gold Plus (QFT-Plus) antigens stimulation, and to screen cytokines with potential to differentiate tuberculosis infection status.

## Introduction pulmonary IP-10, MCP-1, CXCL1 lymph node IL-1, IL12 IFN-γ, TNFa, 12 IL-5, IL-6, IL-10 dendritic cell III-5, IL-6, IL-10 dendritic cell

Fig. 1 Cytokines and immune cells involved in the in immune process of Mycobacterium tuberculosis infection





## Conclusion

Fig. 6 Cytokine levels in QFT-Plus TB2-TB1 stimulation in each group. \* p < 0.05,

In addition to IFN-γ, the detection of IL-2, IL-1Ra, CXCL-1 by QFT-Plus may have the potential to detect tuberculosis infection. Combined detection of IP-10 and IL-6 levels may have the potential to differentiate active TB from latent TB infection.