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(71) Applicants *(for all designated States except US)*: **BAYLOR RESEARCH INSTITUTE** [US/US]; 3434 Live Oak Street, Suite 125, Dallas, TX 75204 (US). **THE NATIONAL INSTITUTE FOR MEDICAL RESEARCH** [GB/GB]; The Ridgeway, Mill Hill, London NW7 1AA (GB). **IMPERIAL COLLEGE HEALTHCARE NHS TRUST** [GB/GB]; The Bays, South Wharf Road, St. Mary's Hospital, London W2 1NY (GB).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **BANCHEREAU, Jacques, F.** [FR/US]; 6730 Northaven Road, Dallas, TX 75230 (US). **CHAUSSABEL, Damien** [FR/US]; 4532 Southpointe Drive, Richardson, TX 75082 (US). **O'GARRA, Anne** [GB/GB]; 116 Greenfield Gardens, London NW2 1HY (GB). **BERRY, Matthew** [GB/GB]; 303c West End Lane, London NW6 1RD (GB). **KON, Onn, Min** [GB/GB]; 60 Llanvanor Road, London NW2 2AP (GB).

(74) Agent: **CHALKER, Daniel, J.**; Chalker Flores, LLP, 2711 LBj Freeway, Suite 1036, Dallas, TX 75234 (US).

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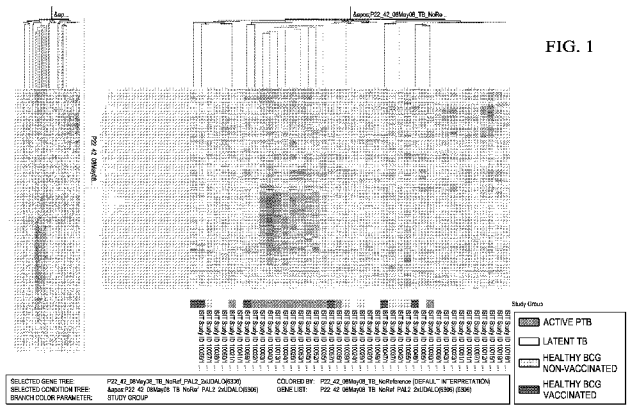

FIG. 1

(57) Abstract: The present invention includes methods, systems and kits for distinguishing between active and latent mycobacterium tuberculosis infection in a patient suspected of being infected with mycobacterium tuberculosis, and distinguishing such patients from uninfected individuals, the method including the steps of obtaining a gene expression dataset from a whole blood obtained sample from the patient and determining the differential expression of one or more transcriptional gene expression modules that distinguish between infected and non-infected patients, wherein the dataset demonstrates an aggregate change in the levels of polynucleotides in the one or more transcriptional gene expression modules as compared to matched non- infected patients, thereby distinguishing between active and latent mycobacterium tuberculosis infection.

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