TB Modelling and Analysis Consortium

Dear <<First Name>>,

Welcome to the latest TB Modelling and Analysis Consortium(TB MAC) newsletter, with information for TB modellers, epidemiologists, and decision-makers. Please see below the exciting TB job opportunities, and publications from our community.

Job WHO Global Tuberculosis Programme Team Lead [Closing date 17 June]
The WHO are looking for a new full-time TB programme team lead to be based in Geneva, Switzerland. For more information see link.

PhD position in TB/HIV modelling at Zurich Graduate School [Closing date 1 July]
PhD Position on Mathematical Modeling and Systems Epidemiology of HIV/Tuberculosis transmission and drug resistance at life sciences Zurich Graduate School. For more information see link.

Post Doc TB mathematical modelling University of Tennessee System
This role will be full-time and include 1) developing and analyzing mathematical models of Mtb dynamics in mice, 2) analyzing experimental data on Mtb dynamics and Mtb-specific T cell response, 3) testing which mathematical models are consistent and which are not consistent with experimental data. **Earliest starting date is Aug 1st, 2022.** For more information see link.

University of Washington Assistant Professor (without tenure) in TB modelling
The Division of Allergy and Infectious Diseases (AID) in the Department of Medicine at the University of Washington is seeking applicants for a full-time faculty position with an anticipated **start date in July 2022**. This position will be at the Assistant Professor level, without tenure for reasons of funding, and will have clinical, teaching, and research responsibilities. They will complete ongoing independent research on tuberculosis transmission modelling and obtain independent research funding from federal and private sources. For more information see link

Recent publications from our community
Horsburgh et al estimated the contribution of reinfection to annual rate of tuberculosis infection (ARI) and incidence of TB disease
Khundi et al used adjusted neighbourhood prevalence-to-notification ratio in Blantyre, Malawi to identify hotspots of under-diagnosis
Wen et al modelled the effect of different interventions for latent TB infection in China

Vesga et al modelled the effect of different attributes of preventive therapy regimens in four countries: South Africa, Kenya, India and Brazil.
Dodd et al estimated country-level and global effects and cost-effectiveness of household contact management for child contacts of MDR/RR-TB cases.
Capeding et al estimated unit costs using top-down and bottom-up approaches for TB prevention and treatment in the Philippines
Xue et al used a seasonal age-structured model to evaluating strategies for achieving WHO targets in China
Majumder et al estimated the impact of saturated treatments on HIV-TB as a consequence of COVID-19
Yang et al evaluated the cost-effectiveness of a medication event monitoring system in Morocco
Panchal et al built a noninteger order SEITR dynamical model for TB
Bandekar and Ghosh analysed a co-infection model of TB and COVID-19
Joslyn et al used a host model of M.tb infection to identify early immune events as predictors of infection outcomes
Zhang constructed deterministic and stochastic in-host tuberculosis models for bacterium-directed and host-directed therapy combination

As always, please email us with relevant news for the community and let us know if you have any recently published TB modelling papers that you would like us to highlight in our future newsletters, email us with details.

For more information on TB MAC, or to get involved, please contact any of the TB MAC Committee, visit www.tb-mac.org or email us directly at tb-mac@lshtm.ac.uk.

Best wishes,
Richard, Finn, Madeleine and the TB MAC Committee
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GDPR compliance
In line with the new European data protection regulations (GDPR), we would like to make sure that you still want to hear from us and keep receiving the newsletter. Subscription to the newsletter means we have your name, email and organisation details stored in a private mailing list. If you no longer like us to keep this information or no longer wish to receive newsletters please click on unsubscribe below. Should you choose not to unsubscribe we will take this as your acceptance to continue receiving newsletters from us.