

TB Alliance Portfolio

Discovery

TARGET OR CELL-BASED SCREENING

LEAD IDENTIFICATION

LEAD OPTIMIZATION

Preclinical Development

Clinical Development

CLINICAL PHASE I

CLINICAL PHASE II

CLINICAL PHASE III

Natural Products
IMCAS

Whole-Cell Hit to Lead Program
GSK

Mycobacterial Gyrase Inhibitors
GSK

Nitroimidazoles
U. of Auckland/
U. Ill Chicago

PA-824
Novartis

Moxifloxacin (+ H, R, Z)
Bayer

Protease Inhibitors
IDRI

Malate Synthase Inhibitors
GSK/TAMU

InhA Inhibitors
GSK

Preclinical TB Regimen Development
JHU/U. Ill Chicago

TMC207
Tibotec

Moxifloxacin (+ R, Z, E)
Bayer

TB Drug Discovery Portfolio
NITD

Diarylquinolines
Tibotec/U. of Auckland

PA-824/Pyrazinamide

Topoisomerase I Inhibitors
AZ/NYMC

Gyrase B Inhibitors
AZ

Riminophenazines
IMM/BTTTRI

TMC207/Pyrazinamide

Folate Biosynthesis Inhibitors
AZ

Pyrazinamide Analogs
Yonsei

**PA-824/
Moxifloxacin/
Pyrazinamide**

Whole-Cell Hit to Lead Program
AZ

RNA Polymerase Inhibitors
AZ

Energy Metabolism Inhibitors
AZ/U. Penn

Phenotypic Hit to Lead Program
U. Ill Chicago

Menaquinone Biosynthesis Inhibitors
CSU

Novel TB regimen development

Current first-line TB treatment consists of Isoniazid (H) + rifampicin (R) + pyrazinamide (Z) + ethambutol (E)

OUR R&D PARTNERS

- AstraZeneca (AZ)
- Bayer Healthcare AG (Bayer)
- Beijing Tuberculosis and Thoracic Tumor Research Institute (BTTTRI)
- Colorado State University (CSU)
- GlaxoSmithKline (GSK)
- Infectious Disease Research Institute (IDRI)
- Institute of Materia Medica (IMM)
- Institute of Microbiology, Chinese Academy of Sciences (IMCAS)
- Johns Hopkins University (JHU)
- Johnson & Johnson/Tibotec (Tibotec)
- New York Medical College (NYMC)
- Novartis Institute for Tropical Diseases (NITD)
- Novartis Pharmaceutical (Novartis)
- Texas A&M University (TAMU)
- University of Auckland (U. of Auckland)
- University of Illinois at Chicago (U. Ill Chicago)
- University of Pennsylvania School of Medicine (U. Penn)
- Yonsei University (Yonsei)



TB ALLIANCE

GLOBAL ALLIANCE FOR TB DRUG DEVELOPMENT

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