

TB Alliance Portfolio

Discovery			Preclinical Development	Clinical Development		
TARGET OR CELL-BASED SCREENING	LEAD IDENTIFICATION	LEAD OPTIMIZATION		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/Rutgers					
	Energy Metabolism Inhibitors AZ/U. Penn					
	Phenotypic Hit to Lead Program U. Ill Chicago					
	Menaquinone Biosynthesis Inhibitors CSU					

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)
- Rutgers: The State University of New Jersey (Rutgers)
- 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)

Novel TB regimen development

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

