

Last update 06/2024	Novelty					Development Stage									
AMR Accelerator Project	Asset Owner	Programme	New Class	New MoA	Mode of Action (MoA)	Description	Discovery	(Pre)-Hit to Lead	Lead to Candidate	Candidate to Phase I	Phase I	Phase 2a - alone or in combination	Phase 2b - Dose ranging	Phase 2b - Regimen selection	Phase 2c - Duration randomization
GNA NOW €31 m	NOSOPHARM	NOSO-502	✓	✓	Inhibition bacterial ribosome	NOSO-502 is the first clinical candidate in the novel antibiotic class called Odiharhaddins, inhibiting the bacterial ribosome with a new mechanism of action.			➡						
TRIC-TB €8 m	BioVersys and GSK	Alpibectir	✓	✓	Transcriptional modulator	Boosting Ethionamide efficacy and lowering the dose with small molecule transcriptional modulators to overcome multi-drug resistant tuberculosis infections and define a new place for Ethionamide in 1st-line tuberculosis treatments.						➡*			
AB-Direct €4 m	GSK	Gepotidacin tissue distribution	✓	✓	Topoisomerase type II inhibitor	Demonstrating penetration of gepotidacin in tonsillar and prostate tissues.					➡				
ERA4TB €208 m		ERA4TB-01	✓	✓	Cholesterol catabolism of mycobacteria	Molecule targeting cholesterol catabolism of mycobacteria.					➡				
		ERA4TB-02	✓	✓	Mycobacterium tuberculosis tryptophan synthase	Compound targeting Mycobacterium tuberculosis tryptophan synthase, enzyme that catalyses the final two steps in the biosynthesis of tryptophan.			➡						
		ERA4TB-03			Energy metabolism	Compounds targeting energy metabolism (electron chain transport).					➡				
		ERA4TB-04	✓	✓	Lysine transfer RNA synthase	Compound targeting lysine transfer RNA synthase (Rv3598c), which is an essential gene as assessed by transposon mutagenesis.			➡						
		ERA4TB-06	✓	✓	MmpI3	Mycobacterial membrane protein Large 3 (MmpI3) compounds with potent in vitro inhibitory and bactericidal activity against Mycobacterium tuberculosis.			➡						
		ERA4TB-09	✓	✓	Not known	Natural product analogs active against Mycobacterium tuberculosis.			➡						
		ERA4TB-10	✓	✓	DprE1	Piperazinobenzothiazinone derivative as anti-mycobacterial compound that targets and covalently inhibits the enzyme Decaprenyl-phosphoryl-ribose 2'-epimerase (DprE1).					➡				
		ERA4TB-11	✓	✓	LeuRS	Small molecule oxaborole inhibitor of Mtb leucyl tRNA synthetase						Phase II of clinical development. Phase I in ERA4TB			
		ERA4TB-13	✓	✓	Cholesterol catabolism of mycobacteria	Targets cholesterol catabolism of Mycobacterium tuberculosis (Mtb)					➡				
		ERA4TB-14	✓	✓	Inhibits new target within a known pathway (Mtb energy metabolism) via a novel mode of inhibition	Small molecule compound that inhibits the mycobacterial cytochrome bc1 complex in the cellular respiration pathway, leading to the depletion of ATP, in three mycobacterial species, M. tuberculosis, M. leprae, and M. ulcerans					➡				
		ERA4TB-15	✓	✓	Inhibits new target within a known pathway (Mtb mycolic acid biosynthesis) via a novel mode of inhibition	Novel class of small-molecule antibiotics shown to covalently inhibit the acyl transferase domain of Mtb Pks13, a polyketide synthase involved in the mycolic acid biosynthetic pathway			➡						
		ERA4TB-16	✓	✓	Inhibits new target within a known pathway (Mtb mycolic acid biosynthesis) via a novel mode of inhibition	Novel class of small-molecule antibiotics shown to covalently inhibit the acyl transferase domain of Mtb Pks13, a polyketide synthase involved in the mycolic acid biosynthetic pathway			➡						
		ERA4TB-17	✓	✓	Inhibits a new target within a known pathway (Mtb mycolic acid biosynthesis)	Novel class of small-molecule antibiotics that inhibits FadD32, a key enzyme at the interface between the fatty acid synthase and polyketide synthase biosynthetic pathways and involved in the synthesis of mycolic acid			➡						
	ERA4TB-18	✓	✓	H3D-012895 inhibits a new target within a known pathway (Mtb mycolic acid biosynthesis)	Novel class of small-molecule antibiotics that inhibits FadD32, a key enzyme at the interface between the fatty acid synthase and polyketide synthase biosynthetic pathways and involved in the synthesis of mycolic acid			➡							
RespiriTB €9 m	JANSSEN	BC1 back up	✓	✓	BC1	Lead optimization program on BC1 inhibitors			➡						
		RespiriTB	✓	✓	Mtr	Mtr target exploration.	➡								
		BC1 back up	✓	✓	BC1	Lead optimization program on BC1 inhibitors			➡						
		MenG	✓	✓	MenG	H2L medChem for novel menG inhibitors			➡						
		BDQ LAI	✓	✓	ATPase	Novel long acting injectable formulation of bedaquiline for Tb preventive therapy					➡				
		PASA	✓		DHFR	Novel PAS analogues			➡						
		HDT	✓		Various	Exploring of known host directed therapies for TB treatment	➡								
		Mtr	✓	✓	Mtr	Mtr target exploration.	➡								
RespiriNTM €8 m	TBA				not known	Progress novel assets (one FIH start) for Non-Tubercular Mycobacterium (NTM) that may act synergistically with Bedaquiline and cytochrome bc Drugs.		➡							
UNITE4TB €185 m	GSK	GSK656	✓	✓	LeuRS	A first-in-class investigational antitubercular agent which is being developed for the treatment of tuberculosis as part of a future combination regimen. New MoA/not regulatory approved product with this MoA. Suppresses protein synthesis in Mycobacterium tuberculosis (Mtb) by inhibiting the enzyme leucyl t-RNA synthetase (LeuRS).								➡	
	Leibniz-HKI/LMU	BTZ-043	✓	✓	Cell wall synthesis	A first-in-class investigational antitubercular agent which is being developed for the treatment of tuberculosis as part of a future combination regimen. New MoA/not regulatory approved product with this MoA. BTZ-043 inhibits an enzyme (BTZ-043) with is essential for cell wall synthesis in mycobacteria tuberculosis						➡	➡		
Accelerating scientific discoveries in the antimicrobial resistance (AMR) field															
COMBINE €25 m	Providing learnings derived from shared vaccine and/or antibacterial clinical trial data, and improving understanding of variability and translatability of animal models of bacterial infection.														
PrIMAVeRa €9 m	Developing a decision-making tool accessing health and economic outcomes of vaccines on the reduction of AMR.														
*This Phase 2a proof of concept trial is funded by the European & Developing Countries Clinical Trials Partnership and supported by the European Union.															