









FIGURE 6.2. OVERVIEW OF TB DIAGNOSTIC ASSAYS THAT ARE CURRENTLY IN DEVELOPMENT, CATEGORIZED BY DEVELOPMENT PHASE AND LEVEL OF COMPLEXITY.

	Early development	Late or completed development	On pathway to WHO evaluation	
High complexity assays	MOLECULAR-DETECTION/DST			
	New TruArray MDR-TB (Akkoni) COBAS TaqMan MTB + DST(Roche) Hydra 1K (Insilixa) Mycobacterium Real-time MDR (CapitalBio) MTB Detect (Great Basin Scientific) Aries (Luminex) PNAclap (Panagene) AccuPower TB&MDR (Bioneer)	TRC Rapid MTB (Tosoh) VereMTB (Veredus Laboratories) LiPA Pyrazinamide (Nipro) Fluorotype MTBDR (Hain) TBMDx (Abbott) Meltpro (Zeesan) Mycobacteria RT PCR (CapitalBio) REBA MTB-XDR (YD Diagnostics) EasyNAT TB (Ustar) BD Max (BD)	GenoTYPE MTBDRsl (Hain) REBA MTB-Rifa (YD Diagnostics)	
	CULTURE-BASED-DETECTION/DST			
	BNP Middlebrook (NanoLogix) Rapid colorimetric DST	TREK Sensitive MYCOTB (Trek)		
Moderate complexity assays	MOLECULAR-DETECTION/DST			
	Xtend XDR (Cepheid) Alere Q (Alere) Enigma ML (Enigma Diagnostics) Q-POC (QuantuMDx) EOSCAPE (Wave80) TBDx system (KGI) XI (Xagenic) MTB Detection (Tangen Biosciences) TB POC (Qiagen) Savanna (NWGHF/Quidel)	Genedrive MTB/RIF (Epistem) Truelab/Truenat MTB (Molbio) Xpert Ultra/Omni platform (Cepheid)	TB LAMP (Eiken)	
	CELLULAR RESPONSE-DETECTION/LATENT AND LATENT TO ACTIVE PROGRESSION			
	T-Track TB (Lophius) TAM-TB (LMU/Alere) ESAT-6/CFP-10 skin test (SSI)		QuantiFERON-TB PLUS (Qiagen) Diaskin (Generium)	
	BREATH BIOMARKER-DETECTION			
	BreathLink (Menssana) Prototype breathalyzer (Next Dimensions Tech) TB Breathalyser (Rapid Biosensor Systems) Aeonose (The eNose Company) Breath analysis instrument (Metabolomx)			
	AUTOMATED MICROSCOPY & IMAGING-DETECTION			
	TBDx (Applied Visual Sciences) Fluorescent microscopy (ID-FISH Tech.) Automatic TB Screener (Fluorobot) Cellscope (UCSF)	Microimager (BD) CAD4TB (Delft Imaging Systems)		
Low complexity assays	ANTIGEN, ANTIBODY AND BIOMARKER-DETECTION			
	LAM in sputum (Standard Diagnostics) IRISA-TB-pleural/pericardial/ascitic fluid (Antrum Biotec)		Alere Determine TB-LAM in urine (Alere)	
	ENZYMATIC-DETECTION/DST			
	β -lactamase reporter (Global BioDiagnostics)			

