



MRC CiC

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[www.gbdbio.com](http://www.gbdbio.com)

# GBDbio: Towards a True POC

“It is particularly important to look **beyond the technology**, and understand current diagnostic practices and the health systems within which POC testing has to get scaled up. At the country level, POC diagnostics ultimately need to be **integrated within health systems**, supported by **financing** (who will pay and how much?), incentives (do various stakeholders benefit from the economics?), and **training and information technology (ICT)**. **These factors (the “business model”) may be as important as the POC technology itself...**”

*Point of Care Testing for Infectious Diseases: Diversity, Complexity, and Barriers in Low- and Middle-Income Countries, Pai, et. al. PLOS Medicine, September 2012*



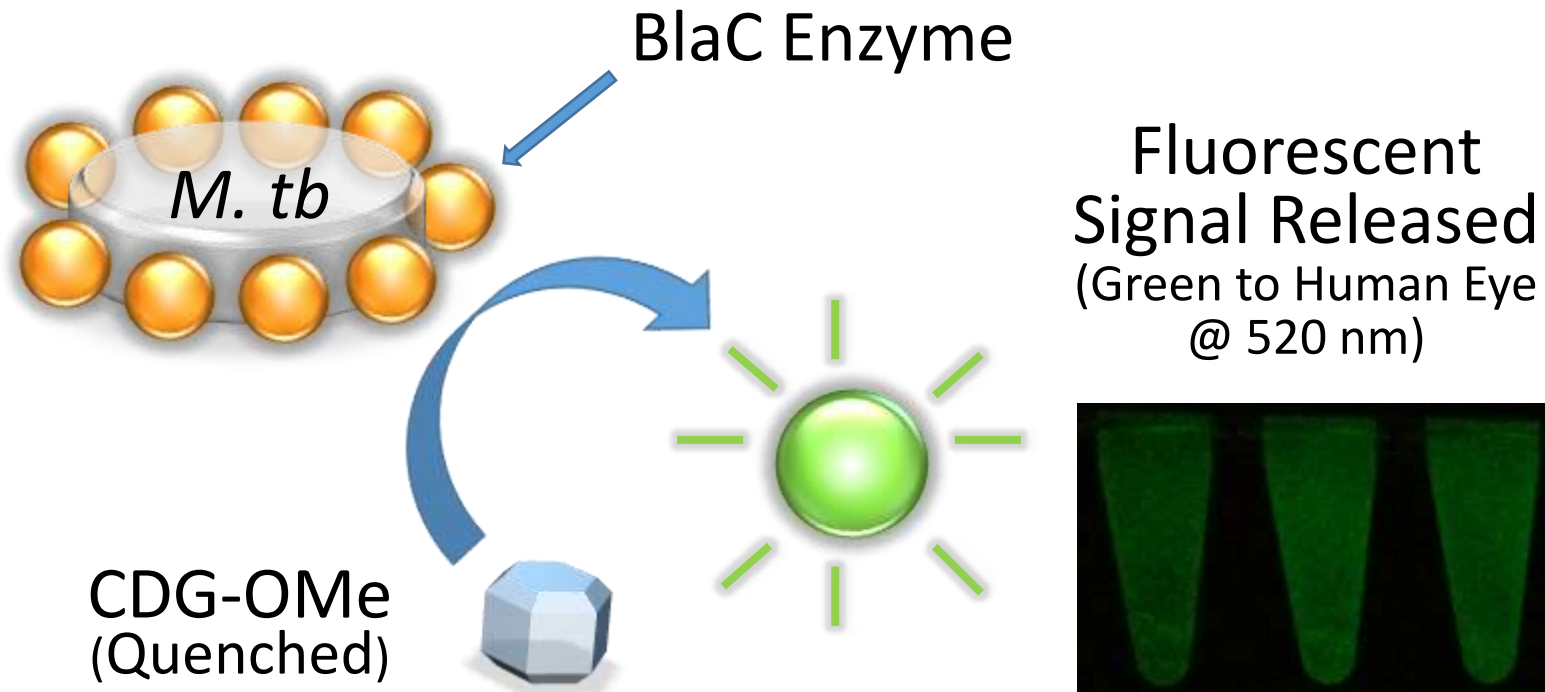
# GBDbio Strategic Relationships

- **Wellcome Trust** – \$4.3m Funding to GBDbio
- **Foundation for Innovative New Diagnostics (FIND)** – \$580k Funding to GBDbio
- **Bill and Melinda Gates Foundation** – \$5+m Research Funding to Texas A&M/Stanford
- **Clinton Health Access Initiative (CHAI)** – MOU signed
- **Emmanuel Healthcare Association (EHA)** - India
- **TB Department of WHO/Stop TB**
- **Médecines Sans Frontières (MSF)**
- **TB Lab of Thailand** – Research Collaboration
- **London School of Hygiene and Tropical Medicine (LSHTM)** – Liz Corbett – Wellcome Trust Steering Group Member
- **University of Cape Town** – conducting first external validation trial

The logo for Wellcome Trust, featuring the word "wellcome" in a bold, lowercase, sans-serif font, followed by "trust" in a smaller, lowercase, sans-serif font. The entire logo is set against a light gray rectangular background.The logo for the Foundation for Innovative New Diagnostics (FIND). It features the word "FIND" in a large, blue, sans-serif font with a red dot above the "i". Below it, the words "foundation for innovative new diagnostics" are written in a smaller, blue, sans-serif font. The logo is set against a white background with a thin gray border.The logo for the Clinton Health Access Initiative (CHAI). It features the words "CLINTON HEALTH ACCESS INITIATIVE" in a blue, sans-serif font, centered within a white oval shape. The oval is surrounded by a decorative border of blue stars. The logo is set against a white background with a thin gray border.The logo for the Bill & Melinda Gates Foundation. It features the words "BILL & MELINDA GATES foundation" in a white, serif font, centered on a solid red square background.The logo for Médecins Sans Frontières (MSF). It features a stylized red figure of a person walking, with the words "MEDECINS SANS FRONTIERES" in a bold, black, sans-serif font below it.The logo for the London School of Hygiene & Tropical Medicine (LSHTM). It features the words "LONDON SCHOOL of HYGIENE & TROPICAL MEDICINE" in a black, serif font, arranged in four lines.

# IP built around identification of TB blaC Enzyme

## Reporter Enzyme Fluorescence (REF)



# Current Status – Target for Triage Test

		Sensitivity		
	Source	Sm+ /C+	Sm-/C+	Specificity
160 samples (maximizing specificity)	100 FIND/ 60 Houston	93%	88%	85%

- Above results obtained at Texas A&M
- Fully transferred from University to commercial development
- Reader prototype fully developed
- Substrate chemistry production transferred to commercial vendors
- Reduced cost assay + reader protocol prototyped and in first external evaluation
- External evaluation being conducted by FIND and University of Cape Town – results expected in March/April 2015

# Expected Sputum Based POC Protocol

