

### Diseases and Their Biomarkers

Type	Disease	Proteins	Genes
Viral	a) HIV	p24 antigen, gp41/gp120 (glycoproteins), HIV 1-2 antibodies	gag (group-specific antigen), pol (polymerase), env (envelope)
Viral	b) Hepatitis-B	HBsAg (Hepatitis B surface antigen), HBeAg (e antigen), Anti-HBs (antibody)	B-DNA (Hepatitis B viral DNA)
Bacterial	a) Tuberculosis	ESAT-6 (Early Secreted Antigenic Target-6), CFP-10 (Culture Filtrate Protein-10)	IS6110 (Insertion Sequence 6110)
Bacterial	b) Pneumonia	CRP (C-reactive protein), IL-6 (Interleukin 6)	Pneumococcal (Streptococcus pneumoniae genes)
Fungal	a) Candidiasis	(1,3)-beta-D-glucan (fungal wall component), Cytochrome C (fungal enzyme)	18S rRNA (18S ribosomal RNA)
Fungal	b) Aspergillosis	Galactomannan (fungal polysaccharide), beta-D-glucan (cell wall component)	18S rRNA, ITS (Internal Transcribed Spacer)
Parasitic	a) Malaria	HRP2 (Histidine-Rich Protein 2)	Plasmodium 18S rRNA (ribosomal RNA of Plasmodium species)
Parasitic	b) Leishmaniasis	K39 antigen (Leishmania-specific kinesin-related protein), HSP70 (Heat Shock Protein 70)	KDNA (kinetoplast DNA), SSU rRNA (Small Subunit ribosomal RNA)

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