Detection of *Schistosoma mansoni* and *Schistosoma haematobium* by Real-Time PCR with High Resolution Melting Analysis

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**Abstract:** The present study describes a real-time PCR approach with high resolution melting-curve (HRM) assay developed for the detection and differentiation of *Schistosoma mansoni* and *S. haematobium* in fecal and urine samples collected from rural Yemen. The samples were screened by microscopy and PCR for the *Schistosoma species* infection. A pair of degenerate primers were designed targeting partial regions in the cytochrome oxidase subunit I (coxl) gene of *S. mansoni* and *S. haematobium* using real-time PCR-HRM assay. The overall prevalence of schistosomiasis was 31.8%; 23.8% of the participants were infected with *S. haematobium* and 9.3% were infected with *S. mansoni*. 