

# PCR PRIMERS FOR THE DETECTION OF SCHISTOSOMA JAPONICUM CERCARIAE

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## ABSTRACT

Location and time-specific variability in *Schistosoma japonicum* cercarial density has been shown to be high in the mountainous regions of Sichuan Province, China. A polymerase chain reaction (PCR) assay for the detection of schistosome cercariae in these environments would aid in the determination of environmental risk, and the identification of individual-level risk factors. Here the authors present a highly sensitive and specific PCR assay for the detection of *S. japonicum* cercariae in laboratory samples. As few as 1 and as many as 300 cercariae, from both laboratory and field-collected *S. japonicum* strains, produced positive amplification results, and repeated assays showed no positive result for *S. mansoni* nor for non-japonicum cercariae isolated from infected snails collected in Sichuan Province. There was no difference found between the Chinese and Philippine *S. japonicum* strains. The results presented demonstrate the successful PCR amplification of a target sequence within the SjR2 retrotransposon from samples of *S. japonicum* cercariae, with the potential for application to natural water samples from endemic areas.

Development of a novel PCR assay capable of detecting a single *Schistosoma japonicum* cercaria recovered from *Oncomelania hupensis*.

2005. *Parasitology*.131:497-500

## RELATED MATERIALS

» Development of a novel PCR assay capable of detecting a single *Schistosoma japonicum* cercaria recovered from *Oncomelania hupensis*.; Driscoll AJ, Kyle JL, Remais J.; *Parasitology*. 2005 Oct;131(Pt 4):497-500

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