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Screening for simple sequence repeat markers in *Puccinia striiformis tritici* based on genomic sequence

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Key words: Microsatellites, Simple sequence repeat, Stripe rust

Research Summary

Based on 100 Stripe Rust assembled sequences , 100 pairs of SSR primers were designed by Primer 5 software to detect 32 strains from seven countries, eventually screened 20 pairs of microsatellite markers. These markers should be highly effective for studying genetic diversity, evolution, genetic segregation, and mapping avirulence genes in Pst population genetics in the future.

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Innovation points

Based on stripe rust genome, 100 pairs of candidate simple sequence repeat (SSR) primers were designed , and 20 polymorphic microsatellite markers were polymorphic.

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