

Supplemental Material

Bipolar, not tetrapolar: Mating system determination in *Inonotus hispidus* through genomic and phenotypic analysis

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[illegible]

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Fig. S1 Nucleotide sequence alignment of three *HD* and four *PR* genes between strains 921 and 929. The sequences labeled 921 in the sequence name were from strain 921, while labeled 929 in the sequence name were from strain 929.

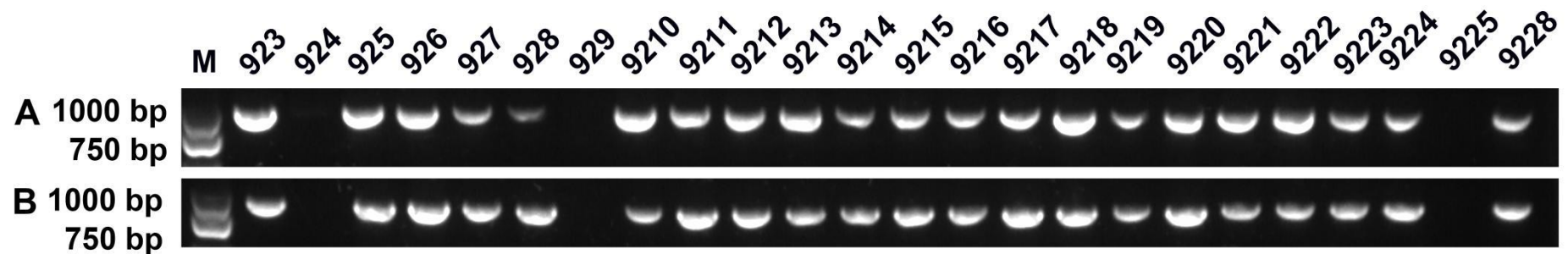
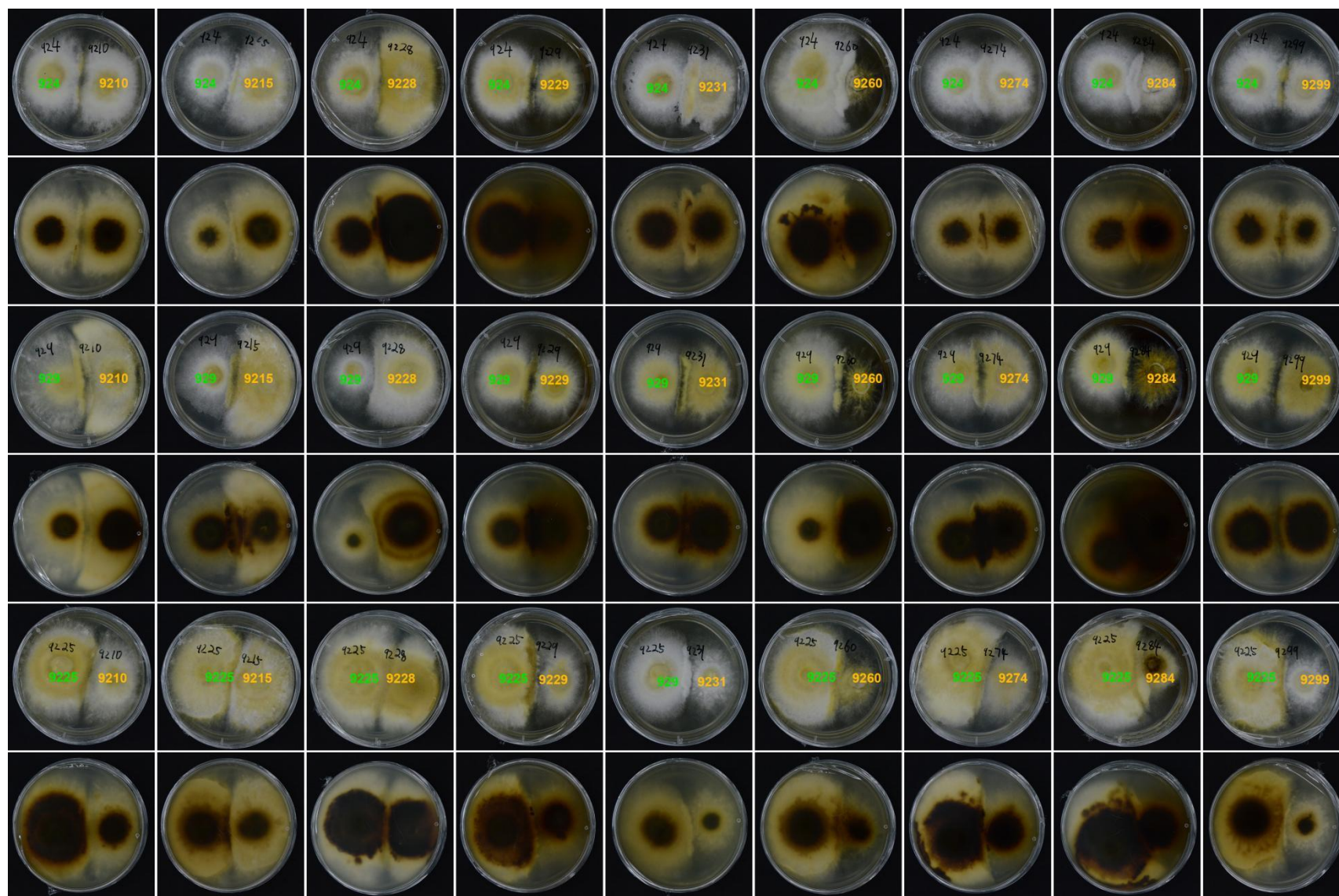
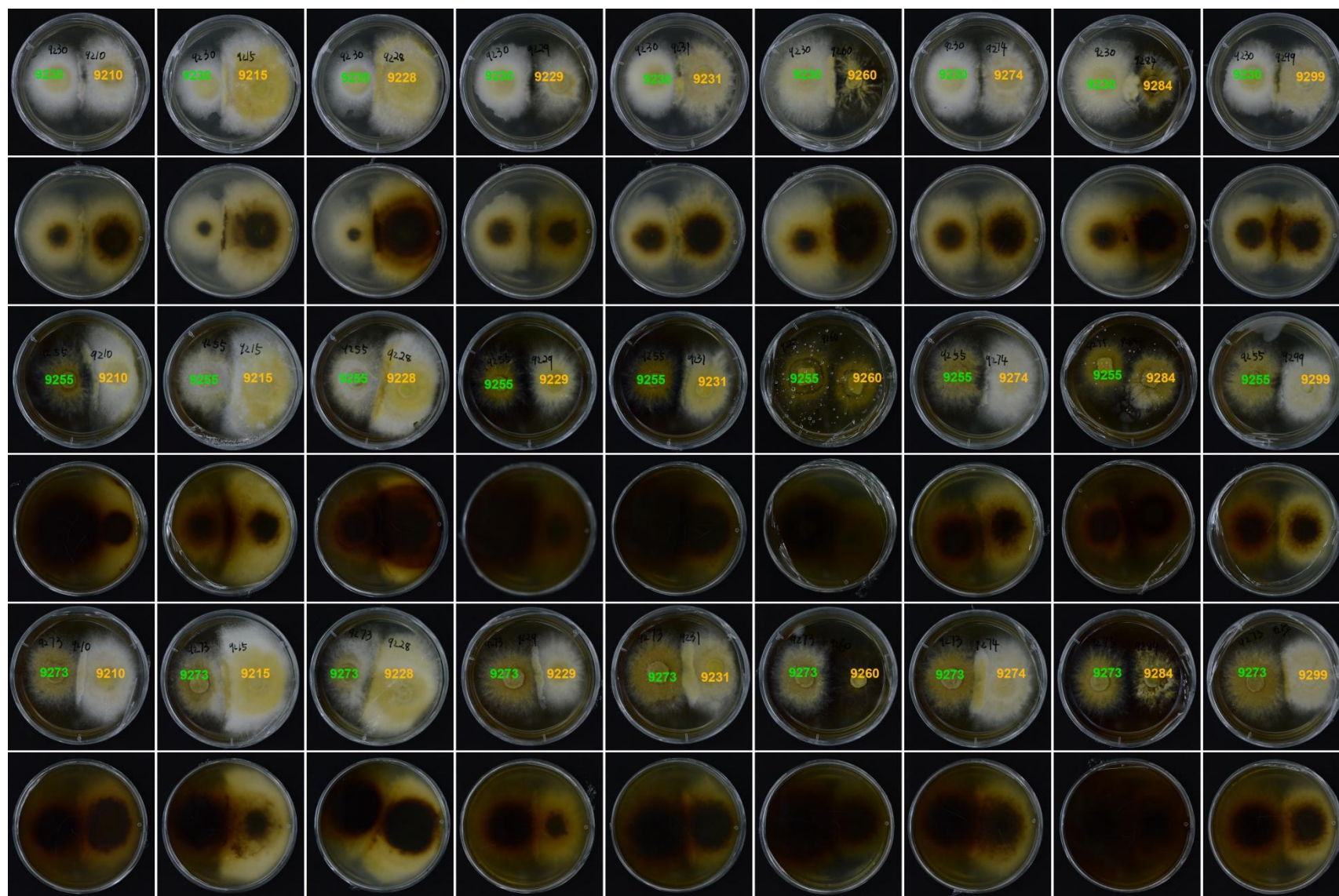


Fig. S2 PCR verification of the linkage of mating type genes *HD1* and *HD1.2*. (A) Strains that successfully amplified with primers A1-HD1F1/R1. (B) Strains that successfully amplified with primers A1-HD1.2F1/R1. M indicates the 2-kb size marker.





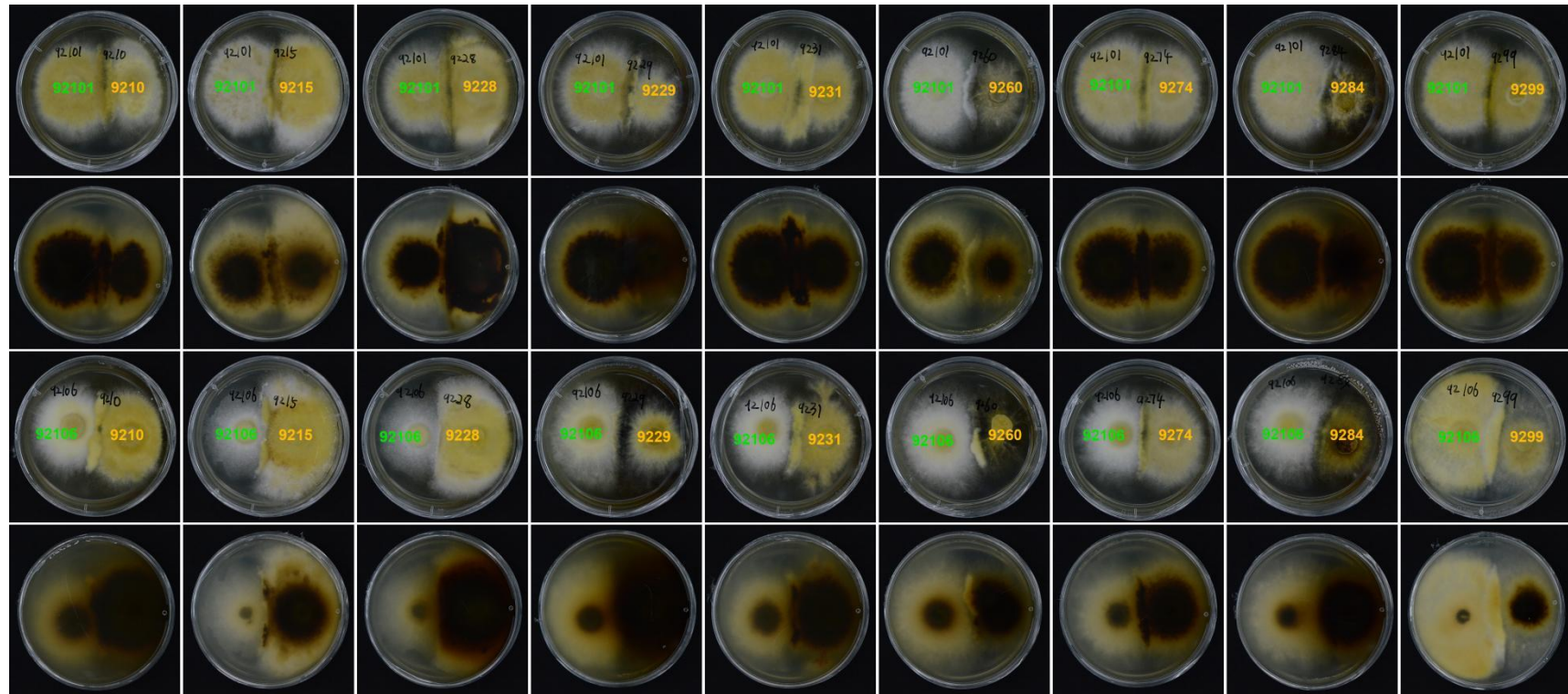


Fig. S3 Mating reactions of SSIs. Orange labels indicate homokaryotic strains with mating type *A1*; green labels indicate homokaryotic strains with mating type *A2*.

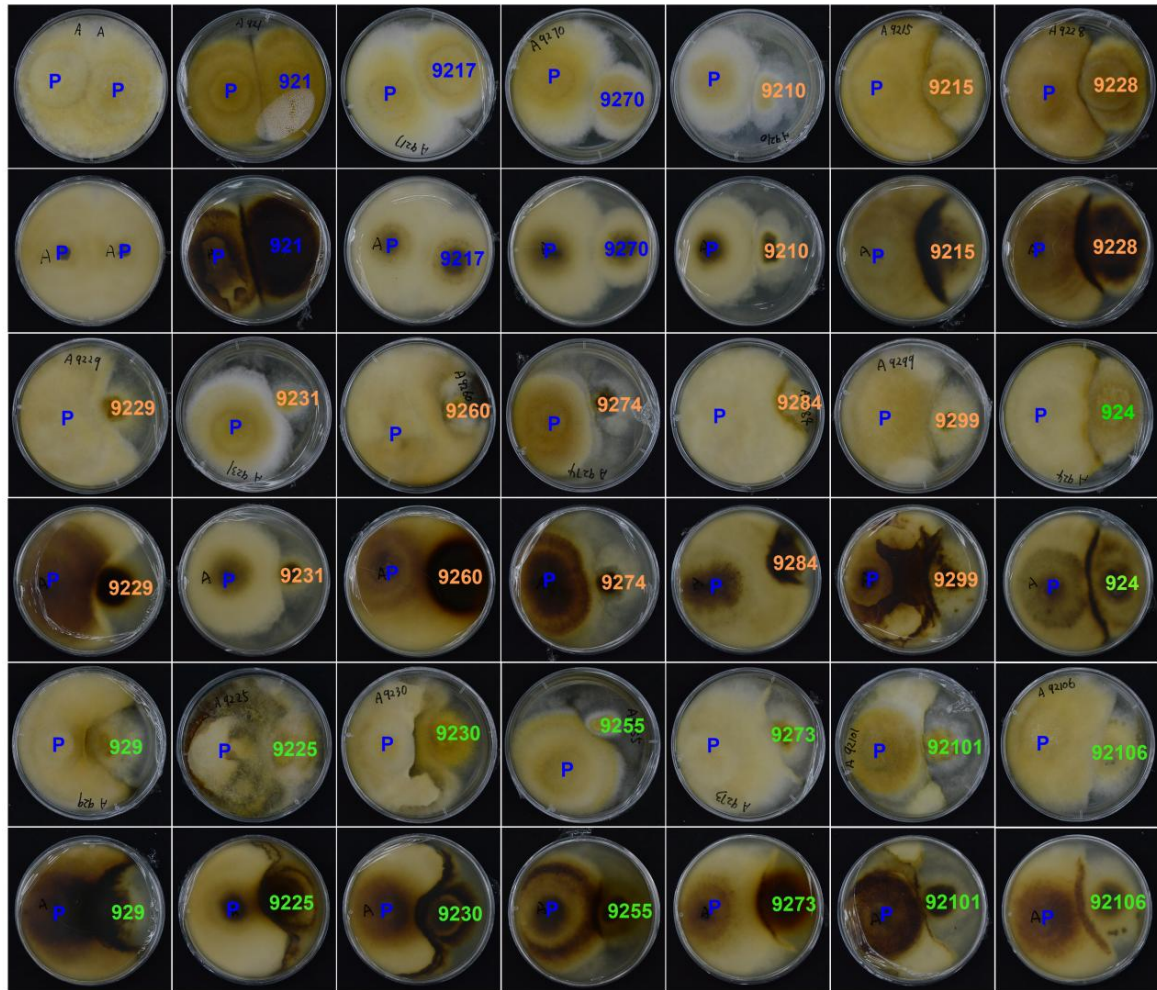


Fig. S4 Antagonistic reactions between the heterokaryotic parent strain and single spore strains. P indicates the heterokaryotic parent strain. Blue labels indicate heterokaryotic strains; orange labels indicate homokaryotic strains with mating type *A1*; green labels indicate homokaryotic strains with mating type *A2*.