1 Supplementary Figures

2

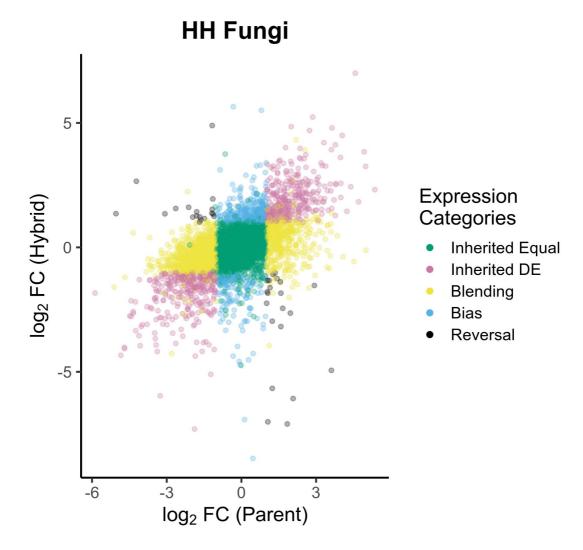
3

4

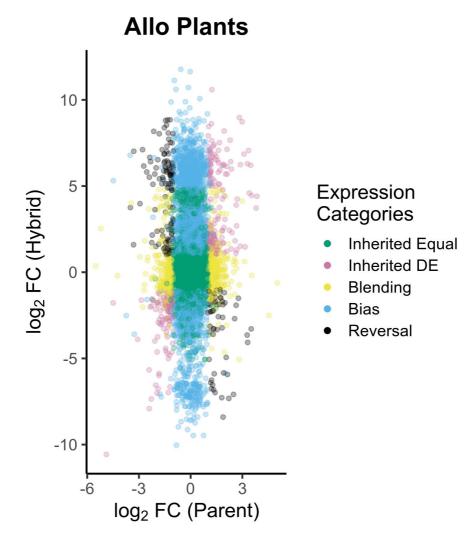
7

Allo Fungi 10 5 Expression log₂ FC (Hybrid) Categories Inherited Equal Inherited DE Blending Bias Reversal -5 -10 5 -5 0 log₂ FC (Parent)

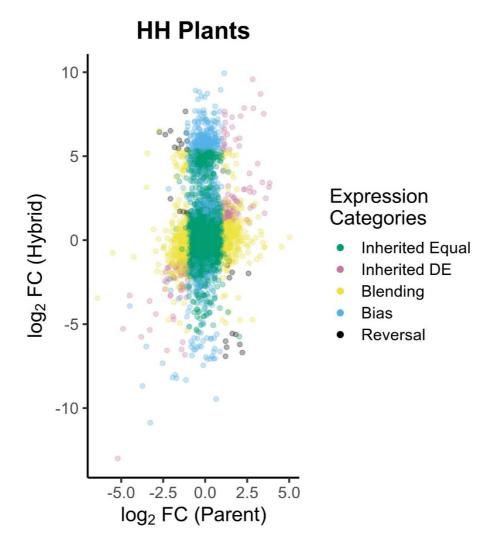
- 5 Supplementary Figure 1: Distribution of allopolyploid fungi parental and hybrid log2
- 6 **fold change (FC) in expression.** x and y axes have an equal aspect ratio (1:1).



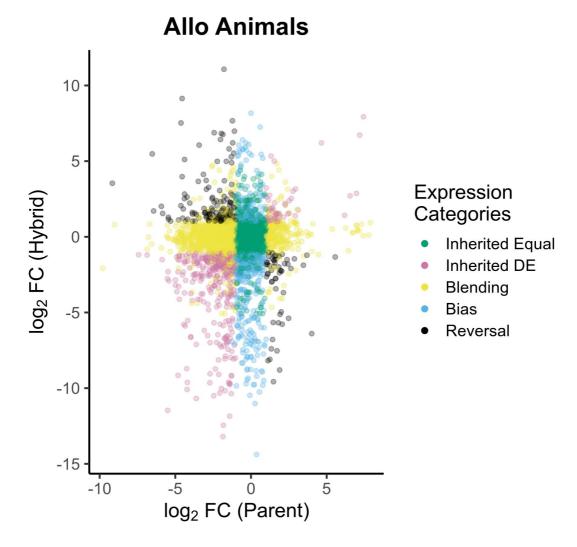
- 4 Supplementary Figure 2: Distribution of homoploid hybrid fungi parental and hybrid
- 5 log2 fold change (FC) in expression. x and y axes have an equal aspect ratio (1:1).



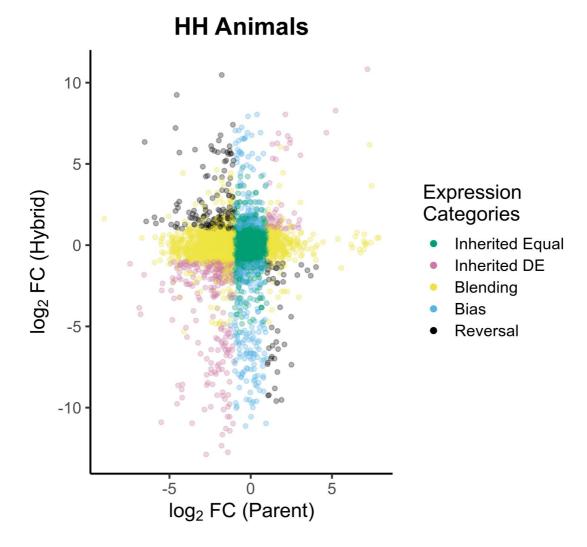
- ${\bf 4} \qquad {\bf Supplementary\ Figure\ 3:\ Distribution\ of\ allopolyploid\ plants\ parental\ and\ hybrid\ log 2}$
- fold change (FC) in expression. x and y axes have an equal aspect ratio (1:1).



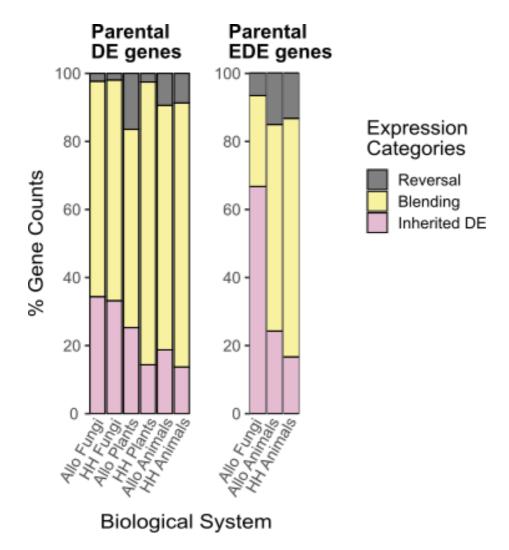
- 4 Supplementary Figure 4: Distribution of homoploid hybrid plants parental and hybrid
- **log2 fold change (FC) in expression.** x and y axes have an equal aspect ratio (1:1).



- $4\qquad Supplementary\ Figure\ 5:\ Distribution\ of\ allopolyploid\ animals\ parental\ and\ hybrid\ log 2$
- fold change (FC) in expression. x and y axes have an equal aspect ratio (1:1).



- 4 Supplementary Figure 6: Distribution of homoploid hybrid animals parental and
- **hybrid log2 fold change (FC) in expression.** x and y axes have an equal aspect ratio (1:1).



4

- Supplementary Figure 7: Rates of reversal occur similarly among differentially
- 5 **expressed and extremely differentially expressed parental genes.** Expression category
- 6 percentages for differentially expressed parental genes (left) and extremely differentially
- 7 expressed parental genes (right). Only systems with more than one extremely differentially
- 8 expressed parental gene are shown. Extreme differential expression was defined as > 50-fold
- 9 difference in expression.