

Table S1. The species used for Phylogenetic analysis.

Species	Family	Order	Genbank number	accession
<i>Coniothyrium glycines</i>	<i>Coniothyriaceae</i>	Pleosporales	NC_040008	
<i>Corynespora cassicola</i>	<i>Corynesporascaceae</i>	Pleosporales	NC_056323	
<i>Didymella pinodes</i>	<i>Didymellaceae</i>	Pleosporales	NC_029396	
<i>Phaeosphaeria nodorum</i>	<i>Phaeosphaeriaceae</i>	Pleosporales	NC_009746	
<i>Pithomyces chartarum</i>	<i>Astrosphaeriellaceae</i>	Pleosporales	NC_035636	
<i>Shiraia bambusicola</i>	<i>Shiraiaceae</i>	Pleosporales	NC_026869	
<i>Stemphylium lycopersici</i>	<i>Pleosporaceae</i>	Pleosporales	NC_036039	
<i>Paraconiothyrium</i> sp.	<i>Didymosphaeriaceae</i>	Pleosporales	OM617730	
<i>Bipolaris sorokiniana</i>	<i>Pleosporaceae</i>	Pleosporales	NC_047242	
<i>Bipolaris oryzae</i>	<i>Pleosporaceae</i>	Pleosporales	NC_057095	
<i>Bipolaris cookei</i>	<i>Pleosporaceae</i>	Pleosporales	NC_036417	
<i>Rhynchosporium orthosporum</i>	<i>Ploettnerulaceae</i>	Helotiales	NC_023127	

Table S2. Base composition and skew of the mitochondrial genome.

	A%	T%	G%	C%	AT%	GC%	AT skew	GC skew
whole genome	35.84	36.29	13.78	14.09	72.13	27.87	-0.006	-0.01
PCGs	32.93	38.33	14.78	13.96	71.26	28.74	-0.07	0.03

Table S3. The genome size and the number of introns of four species from Pleosporales.

Species	Mitochondrial genome size (bp)	Number of introns
<i>Shiraia bambusicola</i>	39,030	1
<i>Phaeosphaeria nodorum</i>	49,761	5
<i>Didymella pinodes</i>	55,973	15
<i>Bipolaris cookei</i>	135,790	33