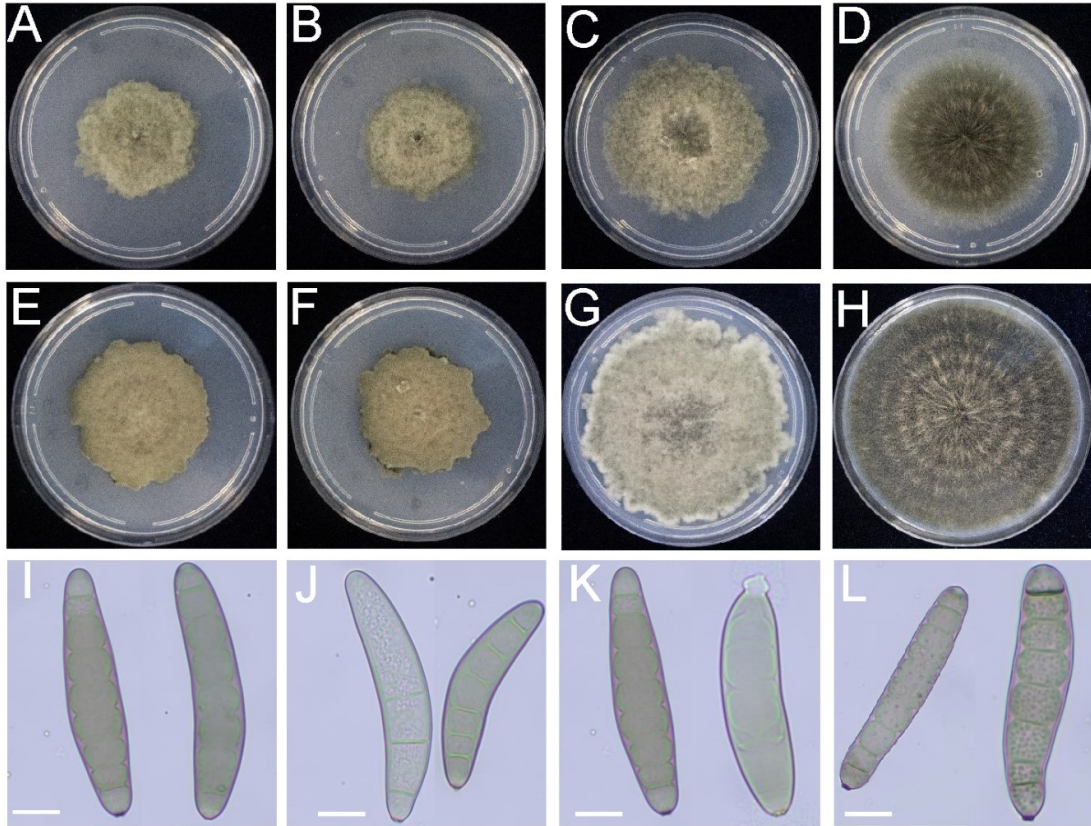
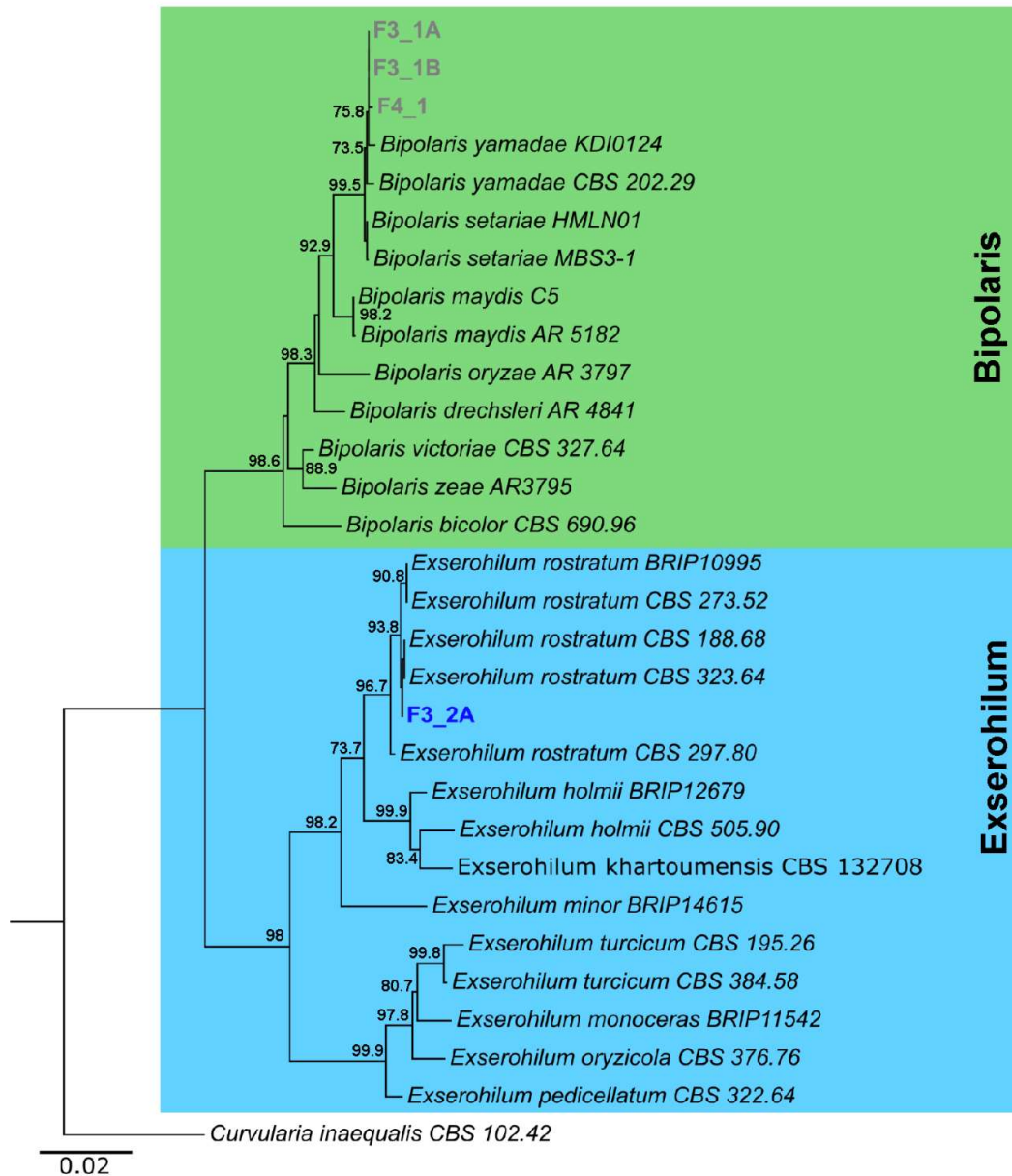


**Supplementary Figure S1. Symptoms of leaf spot diseases observed in maize in the field and after the pathogenicity assay.** A and B: Typical symptoms of maize leaf spots collected from the field caused by *Bipolaris yamadae* (A) and *Exserohilum rostratum* (B) observed in the maize field, respectively. C-G: Symptoms of the maize leaf spots observed after the pathogenicity assay. C: Control leaf with no symptoms (all controls did not have symptoms), D-F: Typical ovoid and oblong lesions with pale brown center associated with *B. yamadae*. G: Typical small narrow linear lesions associated with *E. rostratum*. Scale bar: A-G = 20 mm.



**Supplementary Figure S2. Morphological characteristics of *Bipolaris yamadae* and *Exserohilum rostratum*.** A-C: Sporulating cultures of *B. yamadae* on ¼ PDA medium at 4 days post-culture. E-G: Mature cultures of *B. yamadae* on ¼ PDA medium at 7 days post-culture. D: Culture of *E. rostratum* on ¼ PDA medium at 4 days post-culture. H: Mature culture of *E. rostratum* on ¼ PDA medium at 7 days post-culture. I-K: Conidia of *B. yamadae*. L: Conidia of *E. rostratum*. Scale bars: A-H: 60 mm diameter petri dish, I-L = 10  $\mu$ m.



**Supplementary Figure S3. Phylogenetic tree of ITS and *GAPDH* gene regions of *Bipolaris yamadae* and *Exserohilum rostratum*.** The tree was constructed based on the maximum likelihood method using the TNe+G4 nucleotide substitution model in IQ-Tree v2.1.2 (Nguyen et al., 2015) and visualized using FigTree (<http://tree.bio.ed.ac.uk/software/figtree/>). The reference sequences were retrieved from GenBank (<https://www.ncbi.nlm.nih.gov/genbank/>). Sequence alignment and concatenation were performed using MEGA 11 software (Tamura et al., 2021). Bootstrap values were based on 1000 iterations. The tree is rooted in *Curvularia inaequalis*. The numbers on the tree are the bootstrap values used to confirm clustering. *B. yamadae* isolates F3-1A, F3-1B, and F4-1 (with accession numbers PP373829 to PP373831, for the ITS region and PP405110 to PP405112, for the *GAPDH* region) were considered in this study. *E. rostratum* isolate F3-2A (with accession numbers PP373833, for the ITS region and PP405113, for the *GAPDH* region) were considered in this study. The branch lengths of the concatenated tree are proportional to the relative divergence of the different species, as estimated by IQ-Tree. Scale bar indicates 0.02 units. Green and light blue blocks show the different species in the genera *Bipolaris* and *Exserohilum* used in the phylogenetic analysis.

**Supplementary Table S1. Details of strains used in the construction of the phylogenetic tree. The ITS and GAPDH accession numbers per strain were retrieved from GenBank (<https://www.ncbi.nlm.nih.gov/genbank/>).**

Species	Strain Number	GenBank Accession Numbers	
		ITS	GAPDH
<i>Bipolaris bicolor</i>	CBS 690.96	AF120260.1	KM042893.1
<i>Bipolaris drechsleri</i>	AR4841	KF500530.1	KF500533.1
<i>Bipolaris drechsleri</i>	FIP373	KF500531.1	KF500534.1
<i>Bipolaris maydis</i>	AR 5182	KM230388.1	KM034844.1
<i>Bipolaris oryzae</i>	AR 3797	KM230392.1	KM042894.1
<i>Bipolaris victoriae</i>	CBS 327.64	NG_069233.1	KM034811.1
<i>Bipolaris zeae</i>	AR3795	KJ909786.1	KM034816.1
<i>Bipolaris setariae</i>	HMLN 01	OP703520.1	OP769217.1
<i>Bipolaris setariae</i>	MBS 3-1	OL770257.1	OL771204.1
<i>Bipolaris yamadae</i>	CBS 202.29	KJ909779	KM034830
<i>Bipolaris yamadae</i>	KDI0124	OQ505161	OQ538099
<i>Exserohilum corniculatum</i>	BRIP 11426	LT837453	LT883533
<i>Exserohilum holmii</i>	BRIP 12679	LT837846	LT882542
<i>Exserohilum holmii</i>	CBS 505.90	KT265252	LT715889
<i>Exserohilum khartoumensis</i>	CBS 132708	LT837461	LT715888
<i>Exserohilum minor</i>	BRIP 14615	LT837469	LT883544
<i>Exserohilum monoceras</i>	BRIP 11542	LT837473	LT883546
<i>Exserohilum oryzicola</i>	CBS 376.76	LT837456	LT883535
<i>Exserohilum pedicellatum</i>	CBS 322.64	KT265258	LT715902
<i>Exserohilum rostratum</i>	BRIP 10995	LT837823	LT882566
<i>Exserohilum rostratum</i>	CBS 188.68	LT837839	LT715896
<i>Exserohilum rostratum</i>	CBS 273.52	LT837830	LT882558
<i>Exserohilum rostratum</i>	CBS 297.80	KT265244	LT715895
<i>Exserohilum rostratum</i>	CBS 323.64	LT837833	LT715901
<i>Exserohilum turcicum</i>	CBS 195.26	LT837485	LT882583
<i>Exserohilum turcicum</i>	CBS 384.58	LT837481	LT883552
<i>Curvularia inaequalis</i>	CBS 102.42	MH856096.1	KM061787.1