

Supplementary Materials: Biological *Diabrotica* Management and Monitoring of *Metarhizium* Diversity in Austrian Maize Fields Following Mass Application of the Entomopathogen *Metarhizium brunneum*

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1. Supplementary Information

Table S1. Radial growth (mm) of production strain BIPESCO 5 and isolates from Styria after 14d incubation on Sabouraud-4%-Glucose agar media. Each isolate was tested three times per temperature. Exact temperatures of climate chambers were 19.6 °C (± 0.1), 24.7 °C (± 0.6), 30.2 °C (± 1.0) and 35.3 °C (± 0.5).

Isolate	Species	Incubation temperature			
		20 °C	25 °C	30 °C	35 °C
BIPESCO 5	<i>Metarhizium brunneum</i>	48.7 (± 0.6)	66.7 (± 0.6)	41.2 (± 0.8)	0.0 (± 0.0)
MLG 7	<i>Metarhizium robertsii</i>	37.0 (± 1.0)	49.7 (± 0.6)	50.2 (± 0.3)	4.7 (± 0.8)
MLG 9	<i>Metarhizium lepidiotae</i>	20.2 (± 0.8)	32.3 (± 0.6)	64.3 (± 0.6)	13.3 (± 0.6)
MLG 11	<i>Metarhizium lepidiotae</i>	21.0 (± 0.0)	37.3 (± 0.6)	36.2 (± 0.3)	6.0 (± 0.0)
MLG 12	<i>Metarhizium lepidiotae</i>	11.0 (± 0.0)	19.3 (± 0.6)	32.0 (± 0.0)	11.7 (± 0.6)
MLG 15	<i>Metarhizium brunneum</i>	47.0 (± 0.0)	57.8 (± 1.6)	53.3 (± 0.6)	0.0 (± 0.0)
MLG 25	<i>Metarhizium robertsii</i>	48.3 (± 1.5)	67.3 (± 0.6)	67.5 (± 0.5)	1.3 (± 1.5)
MLG 31	<i>Metarhizium robertsii</i>	45.8 (± 0.4)	66.8 (± 1.8)	65.0 (± 1.0)	2.8 (± 1.8)
MLG 32	<i>Metarhizium brunneum</i>	38.3 (± 0.6)	48.3 (± 1.2)	51.7 (± 1.2)	1.0 (± 0.0)

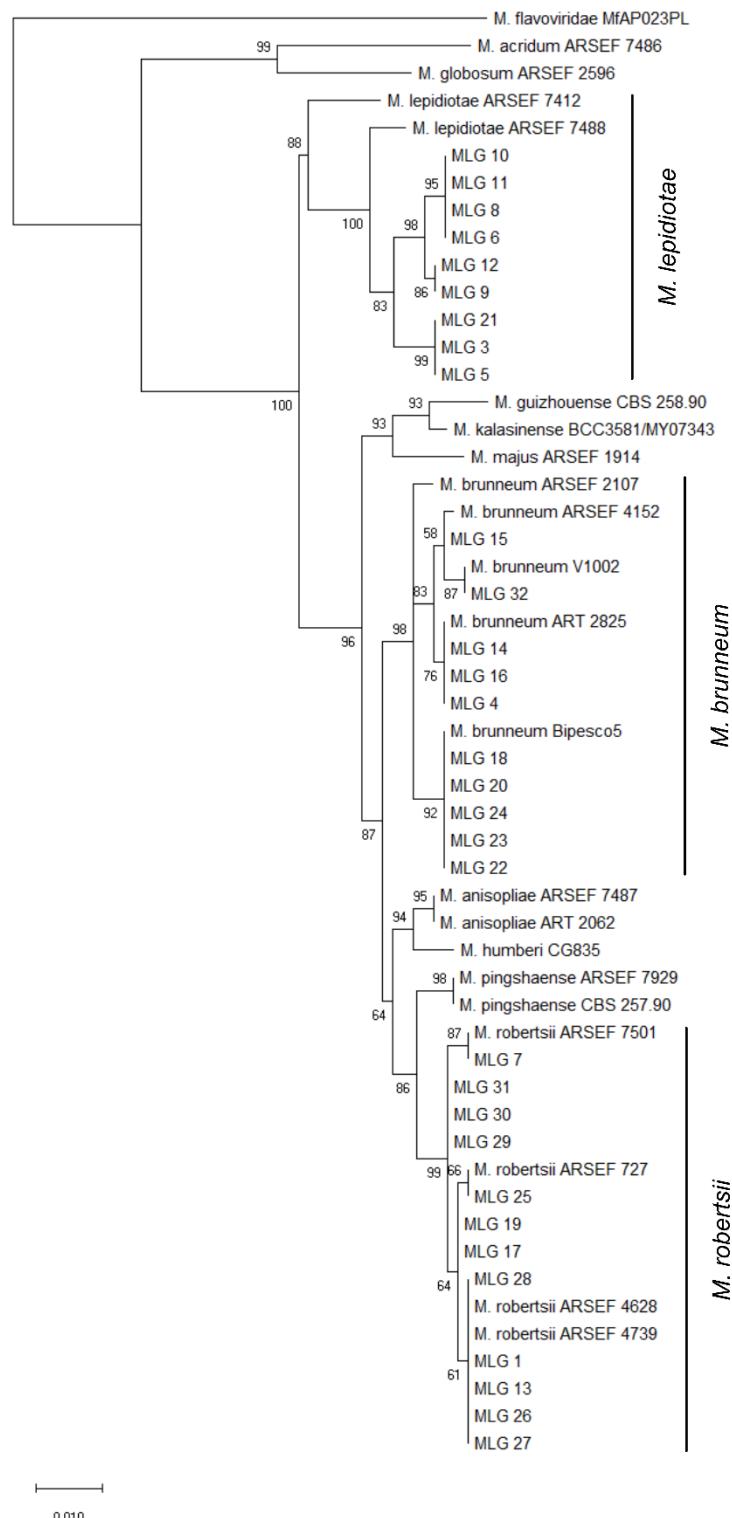


Figure S1. Maximum likelihood phylogenetic tree based on the alignment of 5'-TEF-1 α sequences representing 31 different multilocus genotypes (MLG) isolated from the soil (MLG 24 representing the applied strain BIPESCO 5) and reference strains with a total of 672 positions in the final dataset.