

Additional File 11. Bacterial strains isolated in the study and used in pathology and/or antibiosis assays.

Species	Strain	Use	Source of isolation*	Nematode species if appropriate	Source	References
<i>Pseudomonas protegens</i>	CHAO ^T	Pathology, antibiosis	Tobacco	-	A. Jousset	[1,2]
	PpSg_SG6 Apo	Pathology, antibiosis	Nematode (I)	<i>S. glaseri</i> SK39	DGIMI collection	this study
	PpSw_SW4	Pathology, antibiosis	Nematode (I)	<i>S. weiseri</i> 583	DGIMI collection	this study
	PpSw_TCH07 2-2	Pathology, antibiosis	Nematode (II)	<i>S. weiseri</i> 583	DGIMI collection	this study
<i>Pseudomonas chlororaphis</i>	PpSc_PP-SC-10	Pathology, antibiosis	Nematode (III)	<i>S. carpocapsae</i> SK27	DGIMI collection	this study
	PcSg_SK39 ApoA	Pathology, antibiosis	Nematode (I)	<i>S. glaseri</i> SK39	DGIMI collection	this study
	CFBP 2132 ^T	Pathology, antibiosis	Plate contaminant	-	O. Berge	[3,4]
<i>Pseudomonas putida</i>	PpuSw_SW5	Antibiosis	Nematode (I)	<i>S. weiseri</i> 583	DGIMI collection	this study
<i>Stenotrophomonas maltophilia</i>	StmSg_SK39-2	Pathology, antibiosis	Nematode (I)	<i>S. glaseri</i> SK39	DGIMI collection	this study
	StmSw_SW1	Pathology, antibiosis	Nematode (I)	<i>S. weiseri</i> 583	DGIMI collection	this study
	StmSw_TCH07 2-3	Pathology	Nematode (II)	<i>S. weiseri</i> 583	DGIMI collection	this study
	StmSc_ALL5	Pathology, antibiosis	Nematode (III)	<i>S. carpocapsae</i> All	DGIMI collection	this study
<i>Achromobacter</i> sp.	AchSc_D7-1	Antibiosis	Nematode (III)	<i>S. carpocapsae</i> SK27	DGIMI collection	this study
	AchSg_SK39 ApoC	Antibiosis	Nematode (I)	<i>S. glaseri</i> SK39	DGIMI collection	this study
<i>Alcaligenes faecalis</i>	AlcfSc_SC	Pathology, antibiosis	Nematode (III)	<i>S. carpocapsae</i> SK27	DGIMI collection	this study
<i>Ochrobactrum</i> sp.	OchSc_ALL4	Pathology, antibiosis	Nematode (III)	<i>S. carpocapsae</i> All	DGIMI collection	this study
<i>Ochrobactrum anthropi</i>	OchaSw_SW2	Pathology, antibiosis	Nematode (I)	<i>S. weiseri</i> 583	DGIMI collection	this study
	OchaHb_B3	Pathology	Nematode (III)	<i>H. bacteriophora</i> TT01	DGIMI collection	this study
<i>Pseudochrobactrum</i> sp.	PochSc_AL3	Pathology, antibiosis	Nematode (III)	<i>S. carpocapsae</i> All	DGIMI collection	this study
<i>Xenorhabdus nematophila</i>	XnSc_F1	Pathology, antibiosis	Nematode (II)	<i>S. carpocapsae</i> SK27	DGIMI collection	[5]
<i>Xenorhabdus poinarii</i>	XpSg_G6 ^T (ATCC49121)	Pathology, antibiosis	Nematode (II)	<i>S. glaseri</i> SK39	DGIMI collection	[6,7]
<i>Xenorhabdus bovienii</i>	XbSw_CS03	Pathology, antibiosis	Nematode (II)	<i>S. weiseri</i> 583	DGIMI collection	[8]
<i>Photorhabdus luminescens</i>	PholHb_TT01	Pathology	Nematode (III)	<i>H. bacteriophora</i> TT01	DGIMI collection	[9]
<i>Escherichia coli</i>	CIP 7624	Pathology	Clinical isolate	-	Institut Pasteur Collection	[10]
<i>Micrococcus luteus</i>	CIP 103430	Antibiosis	-	-	DGIMI collection	[11]

* mode of isolation is indicated between parentheses as follows:

I: isolated from *Galleria mellonella* after IJ infestation

II: isolated from IJ by the hanging drop technique [12]

III: isolated after IJ crushing

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