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Supplementary Table 1. Accession numbers of GenBank records used in the phylogenetic reconstruction with information on its taxonomic designation, host and country origin (international three letter code).

Pathogen	Host	Country	GenBank acc. no.
<i>Golovinomyces bolayi</i>	<i>Campanula rapunculoides</i>	CHE	AB769465
<i>Erysiphe alphitoides</i>	<i>Quercus robur</i>	ARG	AB292699
<i>Erysiphe alphitoides</i>	<i>Quercus robur</i>	LTU	AB292710
<i>Erysiphe ampelopsidis</i>	<i>Parthenocissus quinquefolia</i>	USA	OQ821250
<i>Erysiphe ampelopsidis</i>	<i>Parthenocissus quinquefolia</i>	USA	OQ821251
<i>Erysiphe begoniae</i> / <i>Erysiphe aquilegiae</i> s. lat.	<i>Begonia x hiemalis</i>	CHN	MZ958710
<i>Erysiphe aquilegiae</i> s. lat.	<i>Cardiospermum halicacabum</i>	TWN	OM368492
<i>Erysiphe aquilegiae</i>	<i>Knautia arvensis</i>	UKR	LC010042
<i>Erysiphe aucubae</i>	<i>Aucuba japonica</i>	JPN	LC121920
<i>Erysiphe aucubae</i>	<i>Aucuba japonica</i>	JPN	LC121919
<i>Erysiphe betae</i>	<i>Dysphania ambrosioides</i>	MEX	LC777865
<i>Erysiphe betae</i>	<i>Fagopyrum tataricum</i>	TWN	OM033348
<i>Erysiphe corylacearum</i>	<i>Corylus avellana</i>	AUT	MW031866
<i>Erysiphe corylacearum</i>	<i>Corylus avellana</i>	AZE	LC270863
<i>Erysiphe cruciferarum</i>	<i>Orychophragmus violaceus</i>	CHN	OQ195144
<i>Erysiphe cruciferarum</i>	<i>Raphanus sativus</i>	JPN	LC009943
<i>Erysiphe epigena</i>	<i>Quercus variabilis</i>	JPN	AB292717
<i>Erysiphe epigena</i>	<i>Quercus variabilis</i>	JPN	AB292718
<i>Erysiphe eschscholziae</i>	<i>Eschscholzia californica</i>	CHE	MW600365
<i>Erysiphe eschscholziae</i>	<i>Eschscholzia californica</i>	CHE	MW600373
<i>Erysiphe fallax</i>	<i>Carica papaya</i>	MEX	LC228608
<i>Erysiphe fallax</i>	<i>Carica papaya</i>	MEX	LC777886
<i>Erysiphe fallax</i>	<i>Macroptilium lathyroides</i>	USA	MH560056
<i>Erysiphe ipomoeae</i>	<i>Ipomoea aquatica</i>	TWN	OM368491
<i>Erysiphe ipomoeae</i>	<i>Ipomoea obscura</i>	TWN	OM033354
<i>Erysiphe miranda</i>	<i>Viburnum opulus</i>	KOR	MN431605
<i>Erysiphe miranda</i>	<i>Viburnum opulus</i>	KOR	MN431613
<i>Erysiphe necator</i>	<i>Azadirachta indica</i>	DOM	PX397429, PX397430
<i>Erysiphe necator</i>	<i>Vitis coignetiae</i>	JPN	LC028995
<i>Erysiphe necator</i>	<i>Vitis vinifera</i>	JPN	LC028996
<i>Erysiphe necator</i>	<i>Vitis vinifera</i>	MEX	LC777882
<i>Erysiphe paeoniae</i>	<i>Paeonia lactiflora</i>	JPN	AB257438
<i>Erysiphe paeoniae</i>	<i>Paeonia</i> sp.	USA	KX842353
<i>Erysiphe quercicola</i>	<i>Bauhinia purpurea</i>	IDN	LC128426
<i>Erysiphe quercicola</i>	<i>Cassia fistula</i>	BRA	MN165987
<i>Erysiphe quercicola</i>	<i>Durio zibethinus</i>	IDN	LC128424
<i>Erysiphe thaxteri</i>	<i>Berberis darwinii</i>	ARG	LC010017
<i>Erysiphe thaxteri</i>	<i>Berberis linearifolia</i>	ARG	LC010024

Supplementary Table 2. GenBank records showing greatest similarities with *Erysiphe necator* ITS (100%) or 28S nucleotide sequences (99.88%), derived from the M17 sample found on *Azadirachta indica* in the Dominican Republic. For each Genbank Acc. No., the host, country of origin, and relevant literature source are listed.

Nucleotide region	Host	Country	GenBank acc. no.	Reference
ITS	<i>Vitis vinifera</i>	Azerbaijan	LC270853	Abasova <i>et al.</i> , 2018
			LC270854	Abasova <i>et al.</i> , 2018
		Canada	AY818345	Sholberg <i>et al.</i> , 2005
		France	DQ189089 PQ350425	Péros <i>et al.</i> , 2005 Jaswa <i>et al.</i> , 2026
		Hungary	OQ709802	Pintye <i>et al.</i> , 2023
		Israel	MT920428	Gur <i>et al.</i> , 2021
		Mexico	LC777882	Gregorio-Cipriano <i>et al.</i> , 2026
		New Zealand	MK432754	Cooper <i>et al.</i> , 2015
		Pakistan	PQ013090	Gul <i>et al.</i> , 2025
			PQ013086	Gul <i>et al.</i> , 2025
		Taiwan	OM033353	Hsiao <i>et al.</i> , 2022
		Thailand	LC175812	Meeboon and Takamatsu, 2017
		USA	GQ255473*	Brewer and Milgroom, 2010
			OQ821280	Bradshaw <i>et al.</i> , 2023
	<i>V. aestivalis</i>	USA	GQ255473*	Brewer and Milgroom, 2010
	<i>V. coignetiae</i>	Japan	LC028995	Takamatsu <i>et al.</i> , 2015
	<i>V. flexuosa</i>	South Korea	PV167892	Park <i>et al.</i> , 2026
	<i>V. labrusca</i>	USA	GQ255473*	Brewer and Milgroom, 2010
	<i>V. riparia</i>	USA	GQ255473*	Brewer and Milgroom, 2010
	<i>V. rotundifolia</i>	USA	GQ255473*	Brewer and Milgroom, 2010
28S	<i>Vitis</i> sp.	USA	PV416659	LaGreca <i>et al.</i> , 2025
	<i>Carica papaya</i>	Hungary	MT658725	Serress <i>et al.</i> , 2021
	<i>Caryocar brasiliense</i>	Brazil	LC228609	Braun <i>et al.</i> , 2017
	<i>V. vinifera</i>	Mexico	LC777882	Marmolejo <i>et al.</i> , 2018
	<i>V. flexuosa</i>	South Korea	PV167923	Park <i>et al.</i> , 2026
			PV167922	Park <i>et al.</i> , 2026

* Note, that GenBank acc. no. GQ255473 represents the haplotype of *E. necator*, which the authors (Brewer and Milgroom, 2010) identified on *Vitis aestivalis*, *V. labrusca*, *V. riparia*, *V. rotundifolia* and *V. vinifera* in the United States of America.