

Table S1. Vouchers, hosts, and sequences used in this study.					
Species	Host	Voucher	Country	GenBank accession numbers	
				ITS	LSU
<i>Erysiphe adunca</i>	<i>Populus nigra</i>	GLM-F-119062	Germany	MT952872	MT952872
<i>Erysiphe adunca</i>	<i>Populus</i> sp.	GUM 1753	Iran	MW077663	–
<i>Erysiphe adunca</i> (currently <i>E. capreae</i>)	<i>Salix futura</i>	MUMH 171	Japan	LC028968	LC028968
<i>Erysiphe adunca</i> var. <i>adunca</i> (currently <i>E. capreae</i>)	<i>Salix rhododendrifolia</i>	HMNWAFU-CF2009259	China	KR048056	KR048118
<i>Erysiphe adunca</i> var. <i>adunca</i> (currently <i>E. capreae</i>)	<i>Salix vulpina</i>	MUMH39	Japan	D84382	AB022374
<i>Erysiphe aphananthes</i>	<i>Aphananthe aspera</i>	MUMH 4648	Japan	AB693961	LC028971
<i>Erysiphe aphananthes</i>	<i>Aphananthe aspera</i>	MUMH 4648	Japan	LC028971	LC028971
<i>Erysiphe arcuata</i>	<i>Carpinus</i> sp.	IRAN 16841F	Iran	OM530243	OM574833
<i>Erysiphe arcuata</i>	<i>Carpinus betulus</i>	MUMH2589	Ukraine	AB252459	AB252459
<i>Erysiphe arcuata</i>	<i>Carpinus tschonoskii</i>	MUMH2741	Japan	AB252473	AB252473
<i>Erysiphe australiana</i>	<i>Lagerstroemia indica</i>	LPF 666	Brazil	KT941420	KT941422
<i>Erysiphe australiana</i>	<i>Lagerstroemia speciosa</i>	LPF 665	Brazil	KT941419	KT941421
<i>Erysiphe australiana</i>	<i>Lagerstroemia indica</i>	GUM 1716	Iran	OM574844	OM574835
<i>Erysiphe bulbouncinula</i>	<i>Koelreuteria paniculata</i>	HMJAU_PM91868	China	MT026688	–
<i>Erysiphe bulbouncinula</i>	<i>Koelreuteria paniculata</i>	HMJAU_PM91870	China	MT026689	–
<i>Erysiphe bulbouncinula</i>	<i>Koelreuteria paniculata</i>	HMJAU_PM91873	China	MT026705	–
<i>Erysiphe capreae</i>	<i>Salix</i> sp.	GUM 1755	Iran	MW077657	MW077669
<i>Erysiphe capreae</i>	<i>Salix</i> sp.	IRAN 8127F	Iran	MW077658	MW077670
<i>Erysiphe capreae</i>	<i>Salix capreae</i>	MUMH3532	Japan	MW077660	MW077672
<i>Erysiphe capreae</i>	<i>Salix aegyptiaca</i>	IRAN 5841F	Iran	MW077661	MW077673
<i>Erysiphe capreae</i>	<i>Salix</i> cf. <i>eagiptiaca</i>	IRAN15062F	Iran	MW077662	–
<i>Erysiphe capreae</i>	<i>Salix aegyptiaca</i>	GUM 1752	Iran	MW077659	MW077671
<i>Erysiphe capreae</i>	<i>Salix aegyptiaca</i>	GUM 1754	Iran	MW077656	MW077668
<i>Erysiphe carpinicola</i>	<i>Carpinus japonica</i>	MUMH243	Japan	AB252467	AB252467
<i>Erysiphe carpinicola</i>	<i>Carpinus japonica</i>	MUMH3547	Japan	AB252468	AB252468
<i>Erysiphe carpini-cordatae</i>	<i>Carpinus cordata</i>	MUMH2966	Japan	AB252465	AB252465
<i>Erysiphe carpini-cordatae</i>	<i>Carpinus cordata</i>	MUMH3408	Japan	AB252466	AB252466
<i>Erysiphe carpini-laxiflorae</i>	<i>Carpinus</i>	MUMH3640	Japan	AB252471	AB252471

	<i>laxiflora</i>				
<i>Erysiphe carpini-laxiflorae</i>	<i>Carpinus laxiflora</i>	MUMH50	Japan	AB252472	AB252472
<i>Erysiphe celtidis</i>	<i>Celtis caucasica</i>	GUM 1770	Iran	OM574855*	OM574834*
<i>Erysiphe flexuosa</i>	<i>Aesculus indica</i>	OE2015PMCS240	United Kingdom	KY660886	–
<i>Erysiphe flexuosa</i>	<i>Aesculus hippocastanum</i>	OE2015PMCS280	United Kingdom	KY660885	–
<i>Erysiphe flexuosa</i>	<i>Aesculus carnea</i> x	OE2014PM154CS	United Kingdom	KY660863	–
<i>Erysiphe kenjiana</i>	<i>Ulmus pumila</i>	KW:34763F	Ukraine	AB475119	AB475112
<i>Erysiphe kenjiana</i>	<i>Ulmus minor</i>	KW:34760F	Ukraine	AB475118	AB475111
<i>Erysiphe kenjiana</i>	<i>Ulmus glabra</i>	KW:34758F	Ukraine	AB475117	AB475110
<i>Erysiphe kenjiana</i>	<i>Ulmus pumila</i>	HMJAU-PM91841	China	MK452611	MK452684
<i>Erysiphe kusanoi</i>	<i>Celtis sinensis</i>	MUMH 20	Japan	AB475120	AB475113
<i>Erysiphe kusanoi</i>	<i>Celtis bungeana</i>	HMNWFU-CF2013124	China	KR048067	KR048129
<i>Erysiphe ljubarskii</i>	<i>Acer palmatum</i>	MUMH 404	Japan	LC028987	LC028987
<i>Erysiphe ljubarskii</i>	<i>Acer amoenum</i> var. <i>matsumurae</i>	MUMH 475	Japan	LC028986	–
<i>Erysiphe mandshurica</i>	<i>Populus</i> sp.	HMJAU-PM91908	Russia	MW071174	MW071174
<i>Erysiphe mandshurica</i>	<i>Populus adenopoda</i>	HMJAU-PM91909	China	MW071173	MW071173
<i>Erysiphe michikoeae</i>	<i>Celtis jessoensis</i>	MUMH 5055	Japan	AB693963	AB693965
<i>Erysiphe necator</i>	<i>Hevea brasiliensis</i>	isolate SMBR	Brazil	MT182958	MT182949
<i>Erysiphe necator</i>	<i>Vitis coignetiae</i>	MUMH s141	N.A.**	LC028995	LC028995
<i>Erysiphe necator</i>	<i>Vitis vinifera</i>	MUMH 530	Japan	LC028996	LC028996
<i>Erysiphe necator</i>	<i>Anacardium occidentale</i>	OID158	Brazil	MK240383	MK240390
<i>Erysiphe necator</i>	<i>Carica papaya</i>	MVAP06370315	USA	LC228619	–
<i>Erysiphe necator</i> var. <i>necator</i>	<i>Vitis vinifera</i>	GUM 1768	Iran	OM574832	–
<i>Erysiphe paracarpinicola</i>	<i>Carpinus cordata</i>	MUMH207	Japan	AB252464	AB252464
<i>Erysiphe paradoxa</i>	<i>Acer monspessulanum</i>	GUM 1767	Iran	OM574845*	–
<i>Erysiphe paradoxa</i>	<i>Acer hyrcanum</i>	GUM 1764	Iran	OM574846*	–
<i>Erysiphe parvifoliae</i>	<i>Ulmus parvifolia</i>	R. Kirschner 4612 (TNM)	Taiwan	MH427792	–
<i>Erysiphe parvifoliae</i>	<i>Ulmus parvifolia</i>	R. Kirschner 4572 (TNM)	Taiwan	MG954111	–
<i>Erysiphe prunastri</i> var. <i>japonica</i>	<i>Prunus maximowiczii</i>	MUMH 3575	Japan	AB709959	AB709964
<i>Erysiphe prunastri</i> var. <i>japonica</i>	<i>Prunus maximowiczii</i>	MUMH 3406	Japan	AB709958	AB709963
<i>Erysiphe prunastri</i> var. <i>prunastri</i>	<i>Prunus divaricata</i>	GUM 1766	Iran	OM530246	–
<i>Erysiphe prunastri</i> var. <i>prunastri</i>	<i>Prunus divaricata</i> spp. <i>caspica</i>	IRAN 12343F	Iran	OM530248	OM574837
<i>Erysiphe prunastri</i> var. <i>prunastri</i>	<i>Prunus</i> sp.	IRAN 10993F	Iran	OM530247	OM574836

<i>prunastri</i>					
<i>Erysiphe prunastri</i> var. <i>prunastri</i>	<i>Prunus spinosa</i>	MUMH652	Switzerland	AB046983	AB709961
<i>Erysiphe pseudoregularis</i> (currently <i>E. capreae</i>)	<i>Salix caprea</i>	HAL2395F	Germany	MT952870	MT952870
<i>Erysiphe salicis</i> var. <i>salicis</i>	<i>Salix</i> sp.	IRAN16921F	Iran	MW077655	MW077667
<i>Erysiphe salicis</i> var. <i>salicis</i>	<i>Salix</i> sp.	IRAN 5842F	Iran	MW077654	MW077666
<i>Erysiphe salicis</i> var. <i>salicis-gracilistylae</i>	<i>Salix gracilistyla</i>	MUMH 83	Japan	MW077664	MW077674
<i>Erysiphe salicis</i> var. <i>salicis-gracilistylae</i>	<i>Salix gracilistyla</i>	MUMH2097	Japan	MW077665	MW077675
<i>Erysiphe</i> sp.	<i>Celtis timorensis</i>	MUMH 5693	Indonesia	LC371303	LC371324
<i>Erysiphe</i> sp.	<i>Celtis sinensis</i>	CNUFC PWS1	South Korea	MK757876	–
<i>Erysiphe</i> sp.	<i>Celtis sinensis</i>	CNUFC PWS2	South Korea	MK757877	–
<i>Erysiphe</i> sp.	<i>Celtis sinensis</i>	CNUFC PWS3	South Korea	MK757878	–
<i>Erysiphe simulans</i> var. <i>simulans</i>	<i>Rosa multiflora</i>	TPU-3087	N.A.**	AB015926	–
<i>Erysiphe ulmi</i> var. <i>ulmi</i>	<i>Ulmus</i> sp.	GUM 1773	Iran	OM574849	–
<i>Erysiphe ulmi</i> var. <i>ulmi</i>	<i>Ulmus</i> sp.	IRAN 10827F	Iran	OM574852	OM574839
<i>Erysiphe ulmi</i> var. <i>ulmi</i>	<i>Ulmus</i> sp.	IRAN 10826F	Iran	OM574851	OM574838
<i>Erysiphe ulmi</i> var. <i>ulmi</i>	<i>Ulmus campestris</i> = <i>U. minor</i>	IRAN 11585F	Iran	OM574850	–
<i>Erysiphe ulmi</i> var. <i>ulmi</i>	<i>Ulmus</i> sp.	GUM 1775	Iran	OM574854	OM574841
<i>Erysiphe ulmi</i> var. <i>ulmi</i>	<i>Ulmus</i> sp.	GUM 1772	Iran	OM574848	–
<i>Erysiphe ulmi</i> var. <i>ulmi</i>	<i>Ulmus</i> sp.	GUM 1776	Iran	OM574853	OM574840
<i>Erysiphe ulmi</i> var. <i>ulmi</i>	<i>Ulmus glabra</i>	GUM 1769	Iran	OM574847	–
<i>Erysiphe ulmi</i>	<i>Ulmus</i> sp.	R. Kirschner 4674 (FR)	Germany	MT218387	–
<i>Erysiphe ulmi</i>	<i>Ulmus</i> cf. <i>minor</i>	R. Kirschner 4693 (FR)	Germany	MT218388	–
<i>Erysiphe ulmi</i>	<i>Ulmus</i> sp.	R. Kirschner 4795 (FR)	Germany	MT218389	–
<i>Erysiphe ulmi</i>	<i>Ulmus</i> cf. <i>minor</i>	R. Kirschner 4796 (FR)	Germany	MT218390	–
<i>Erysiphe ulmi</i>	<i>Ulmus</i> cf. <i>laevis</i>	M. Piepenbring 5423 (FR)	Germany	MT218391	–
<i>Erysiphe zelkowae</i>	<i>Zelkova serrata</i>	MUMH 403	Japan	AB475121	AB475114
<i>Leveillula taurica</i>	<i>Vicia</i> sp.	MUMH 4223	Iran	AB667884	–
<i>Phyllactinia moricola</i>	<i>Morus</i> sp.	MUMH923	Iran	AB080561	AB080459

* These sequences are deposited in the NCBI for the first time.

** Voucher specimen or Country not available.

