

Supplementary file 2. Vouchers and GenBank accession numbers of sequences used in the phylogenetic analyses in the present study^a

Taxon	Country	Voucher	Herbarium	GenBank accession no.	
				ITS	ETS
<i>Clibadium alatum</i> H.Rob.	Ecuador	<i>Panero</i> 3039	US	*AY303406.1	AY303468.1
<i>Oblivia mikanioides</i> (Britton) Strother	Venezuela	<i>Panero</i> 2617	TX	*AY303433.1	AY303495.1
<i>Otopappus verbesinoides</i> Benth.	Mexico	<i>Panero</i> 3125	TX	*AY303435.1	AY303497.1
<i>Podachaenium eminens</i> (Lag.) Sch. Bip.	Mexico	<i>Panero</i> 2577	TX	*AF171949/AF171988	AF172027
<i>Squamopappus skutchii</i> (S.F.Blake) R.K.Jansen, N.A.Harriman & Urbatsch	Mexico	<i>Panero</i> 3097	TX	*AF171952/AF171991	AF172030
<i>Helianthus annuus</i> L.	USA	<i>Schilling</i> 660	TX	*AF047924	HQ688886
<i>Montanoa revealii</i> H.Rob.	Mexico	<i>Panero</i> 2480	TX	*AY038142/AY038174	AY038109
<i>Verbesina abscondita</i> Klatt	Mexico	<i>Panero</i> 2398	TX	OM986753	ON035788
<i>Verbesina alata</i> L.	Caribbean	<i>Robert et al.</i> 12052	MO	OM986754	ON035789
<i>Verbesina allophylla</i> S.F.Blake	Bolivia	<i>Nee</i> 48512	TX	OM986755	ON035790
<i>Verbesina arborea</i> Kunth	Ecuador	<i>Panero</i> 2999	TX	OM986756	ON035791
<i>Verbesina auriculata</i> DC.	Mexico	<i>Panero</i> 2501	TX	OM986757	ON035792
<i>Verbesina ayabacensis</i> Sagást.	Ecuador	<i>Panero</i> 2965	TX	OM986758	ON035793
<i>Verbesina baccharifolia</i> Mattf.	Brazil	<i>Harley et al.</i> 4307	HUEFS	OM986759	ON035794
<i>Verbesina barclayae</i> H.Rob.	Ecuador	<i>Panero</i> 2943	TX	OM986760	ON035795
<i>Verbesina bipinnatifida</i> Baker	Brazil	<i>Moreira</i> 116	CEN	OM986761	ON035796
<i>Verbesina breedlovei</i> B.Turner	Mexico	<i>Panero</i> 2513	TX	OM986762	ON035797
<i>Verbesina caracasana</i> B.L.Rob. & Greenm.	Venezuela	<i>Panero</i> 2623	TX	OM986763	ON035798
<i>Verbesina centroboyacana</i> S.Díaz	Colombia	<i>Funk</i> 12021	TX	OM986764	ON035799
<i>Verbesina coahuilensis</i> A.Gray ex S.Watson	Mexico	<i>Panero</i> 2167	TX	OM986765	ON035800
<i>Verbesina contumacensis</i> Sagást.	Peru	<i>Sagastegui</i> 16053	TX	OM986766	ON035801
<i>Verbesina corral-diazii</i> B.L.Turner	Mexico	<i>Panero</i> 2241	TX	OM986767	ON035802
<i>Verbesina crassipes</i> B.L.Rob. & Greenm.	Mexico	<i>Panero</i> 2473	TX	OM986768	ON035803
<i>Verbesina crocata</i> (Cav.) Less.	Mexico	<i>Panero</i> 2331	TX	OM986769	ON035804
<i>Verbesina curatella</i> McVaugh	Mexico	<i>Panero</i> 2857	TX	OM986770	ON035805
<i>Verbesina cymbipalea</i> S.F.Blake	Mexico	<i>Panero</i> 2578	TX	OM986771	ON035806

<i>Verbesina dissita</i> A.Gray	Mexico	<i>Panero</i> 2802	TX	OM986772	ON035807
<i>Verbesina eggertii</i> Hieron.	Ecuador	<i>Panero</i> 2985	TX	OM986773	ON035808
<i>Verbesina encelioides</i> (Cav.) Benth. & Hook.f. ex A.Gray	Mexico	<i>Robert et al.</i> 11621	MO	OM986774	ON035809
<i>Verbesina encelioides</i> subsp. <i>exauriculata</i> (B.L.Rob. & Greenm.) J.R.Coleman	USA	<i>Robert et al.</i> 12447	MO	OM986775	ON035810
<i>Verbesina fayi</i> B.L.Turner	Mexico	<i>Panero</i> 2483	TX	OM986776	ON035811
<i>Verbesina flavovirens</i> R.E.Fr.	Bolivia	<i>Spooner</i> 6600	TX	OM986777	ON035812
<i>Verbesina floribunda</i> Gardner	Brazil	<i>Moreira</i> 101	CEN	OM986778	ON035813
<i>Verbesina furfuracea</i> McVaugh	Mexico	<i>Panero</i> 2565	TX	OM986779	ON035814
<i>Verbesina fuscicaulis</i> Sagást.	Peru	<i>Campos</i> 14436	TX	OM986780	ON035815
<i>Verbesina glabrata</i> Hook. & Arn.	Brazil	<i>Moreira</i> 107	CEN	OM986781	ON035816
<i>Verbesina glaucophylla</i> S.F.Blake	Mexico	<i>Panero</i> 2865	TX	OM986782	ON035817
<i>Verbesina gracilipes</i> B.L.Rob.	Mexico	<i>Panero</i> 2319	TX	OM986783	ON035818
<i>Verbesina helianthoides</i> Michx.	USA	<i>Stevens</i> 36370	MO	OM986784	ON035819
<i>Verbesina hypargyrea</i> B.L.Rob. & Greenm.	Mexico	<i>Panero</i> 2521	TX	OM986785	ON035820
<i>Verbesina klattii</i> B.L.Rob. & Greenm.	Mexico	<i>Campos</i> 4566	TX	OM986786	ON035821
<i>Verbesina longifolia</i> A.Gray	Mexico	<i>Panero</i> 2199	TX	OM986787	ON035822
<i>Verbesina luetzelburgii</i> Mattf.	Brazil	<i>Moreira</i> 117	CEN	OM986788	ON035823
<i>Verbesina macdonaldii</i> B.L.Turner	Mexico	<i>Panero</i> 2738	TX	OM986789	ON035824
<i>Verbesina macrophylla</i> (Cass.) S.F.Blake	Brazil	<i>Moreira</i> 110	CEN	OM986790	ON035825
<i>Verbesina mandonii</i> Sch.Bip.	Bolivia	<i>Buchtien</i> 9195	CEN	OM986791	–
<i>Verbesina mcvaughii</i> B.L.Turner	Mexico	<i>Panero</i> 5027	TX	OM986792	ON035826
<i>Verbesina nelidae</i> Cabrera	Bolivia	<i>Spooner</i> 6648	TX	OM986793	ON035827
<i>Verbesina neotenoriensis</i> B.L.Turner	Mexico	<i>Panero</i> 2310	TX	OM986794	ON035828
<i>Verbesina nicotianifolia</i> Baker	Brazil	<i>Proença</i> 865	UB	OM986795	ON035829
<i>Verbesina oligocephala</i> I.M.Johnst.	Mexico	<i>Panero</i> 2832	TX	OM986796	ON035830
<i>Verbesina pantoptera</i> S.F.Blake	Mexico	<i>Panero</i> 2194	TX	OM986797	ON035831
<i>Verbesina pedunculosa</i> B.L.Rob.	Mexico	<i>Panero</i> 2195	TX	OM986798	ON035832
<i>Verbesina petrophila</i> Brandegee	Mexico	<i>Panero</i> 2597	TX	OM986799	ON035833
<i>Verbesina pietatis</i> McVaugh	Mexico	<i>Panero</i> 2426	TX	OM986800	ON035834

<i>Verbesina pterocarpha</i> S.F.Blake	Mexico	<i>Panero</i> 2556	TX	OM986801	ON035835
<i>Verbesina saubinetioides</i> S.F.Blake	Peru	<i>Dillon</i> 4667	TX	OM986802	ON035836
<i>Verbesina seatonii</i> S.F.Blake	Mexico	<i>Panero</i> 2309	TX	OM986803	ON035837
<i>Verbesina sericea</i> Kunth & C.D.Bouché	Mexico	<i>Panero</i> 2499	TX	OM986804	ON035838
<i>Verbesina sodiroi</i> Hieron.	Ecuador	<i>Panero</i> 2916	TX	OM986805	ON035839
<i>Verbesina sordescens</i> DC.	Brazil	<i>Marodin</i> s.n.	ICN	OM986806	ON035840
<i>Verbesina sousae</i> J.J.Fay	Mexico	<i>Panero</i> 6227	TX	OM986807	ON035841
<i>Verbesina sphaerocephala</i> A.Gray ou A.Gray ex S.Wats.	Mexico	<i>Panero</i> 2562	TX	OM986808	ON035842
<i>Verbesina subdiscoidea</i> Toledo	Brazil	<i>Magalhães</i> et al. 494	CEN	OM986809	ON035843
<i>Verbesina tapantiana</i> Poveda & Hammel	Costa Rica	<i>Panero</i> 2709	TX	OM986810	ON035844
<i>Verbesina tetraptera</i> (Ortega) A.Gray	Mexico	<i>Panero</i> 2440	TX	OM986811	ON035845
<i>Verbesina turbacensis</i> Kunth	Nicaragua	<i>Stevens</i> 32267	MO	OM986812	ON035846

ETS, external transcribed spacer; ITS, internal transcribed spacer.

^a ITS GenBank accessions preceded by * are ITS1 sequences, and where a separate ITS2 sequence is available, the number is preceded by /; otherwise, all *Verbesina* ITS sequences cover the full ITS1 + 5.8S + ITS2 region and were obtained in the present study.