

Supplementary Material

Quantitative chemical composition, antioxidant activity and inhibition of TNF release by THP-1 cells induced by extracts of *Echinodorus macrophyllus* and *Echinodorus grandiflorus*

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Supplementary Table S1. Primers used in PCR and sequencing.

Marker	Primer	Sequence 5' → 3'	TM	Reference
ITS	ITS4	TCCTCCGCTTATTGATATGC	54°C	White et al. 1990
	ITS5	GGAAGTAAAAGTCGTAACAAGG	53°C	
	ITS-ER	ATGCTTAAACTCRGCGGGTGA	59/62°C	
5S-NTS	PI	TGGGAAGTCCTYGTGTTGCA	59/62°C	Cox et al. 1992
	PII	KTMGYGCTGGTATGATCGCA	56/63°C	
Leafy	FLint2-F1	CTTCCACCTCTACGACCAGTG	60°C	Grob et al. 2004
	FLint2-R1	TCTTGGGCTTGTTGATGTAGC	58°C	
<i>matK</i>	matK-EF	GAAGAATTCCAAAARGATTT	45/47°C	Liang & Hilu 1996
	matK-ER	TCCTTGATATCGAACATAATG	49°C	
	MG1	CTACTGCAGAACTAGTCGGATGGAGTA GAT	63°C	
	MG15	ATCTGGGTTGCTAACTCAATG	55°C	
<i>psbA-</i>	psbA	GTTATGCATGAACGTAATGCTC	54°C	Sang et al. 1997
<i>trnH</i>	trnH2	CGCGCATGGTGGATTACAAATCC	64°C	Tate & Simpson 2003

References

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Supplementary Table S2. GenBank accessions and voucher data of the terminals used in the phylogenetic analyses of *Echinodorus*.

Taxon	Voucher	ITS	LEAFY	<i>psbA-trnH</i>	<i>matK-trnK</i>	5S
<i>Echinodorus africanus</i> Rataj	PR745390	KT437644	-	-	-	-
<i>Echinodorus barthii</i> H.Muehlberg	Lehtonen 702 (TUR)	KT437652	HM367221	HM367327	KT437639	-
<i>Echinodorus berteroi</i> (Spreng.) Fassett	Lehtonen & Ramirez-Garcia 412 (TUR)	EF088087	EF088181	HM367270	EF088134	EF088022
<i>Echinodorus bracteatus</i> Micheli	Lehtonen & Navarrete 491 (TUR)	EF088076	EF088170	HM367301	EF088124	EF088040
<i>Echinodorus opacus</i> Rataj	Bogner s.n. (TUR)	KT437650	KT437657	KT437643	KT437634	-
<i>Echinodorus cf. osiris</i> Rataj	Quester s.n. (TUR)	EF088094	EF088188	HM367324	-	EF088042
<i>Echinodorus cf. opacus</i> Rataj	Quester s.n. (TUR)	-	HM367214	HM367323	-	-
<i>Echinodorus cf. opacus</i> Rataj	Bogner s.n.	-	HM367214	HM367323	KT437634	-
<i>Echinodorus cordifolius</i> (L.) Griseb.	Lehtonen 457 (TUR)	EF088078	EF088172	HM367302	EF088126	EF088027
<i>Echinodorus cordifolius</i> (L.) Griseb.	Lehtonen & Ramirez-Garcia 417 (TUR)	EF088079	EF088173	HM367303	EF088127	EF088028
<i>Echinodorus decumbens</i> Kasselm.	Lehtonen 392 (TUR)	EF088069	EF088163	HM367296	EF088117	EF088018
<i>Echinodorus emersus</i> Lehtonen	Lehtonen 140 (TUR)	EF088051	EF088147	HM367286	EF088100	EF088001

<i>Echinodorus floribundus</i> (Seub.) Seub.	Lehtonen 188 (TUR)	EF088054	EF088150	HM367287	EF088103	EF088004
<i>Echinodorus gabrielii</i> Rataj	Bogner s.n. (TUR)	KT437647	HM367225	HM367329	KT437633	-
<i>Echinodorus glaucus</i> Rataj	Muhlberg s.n. (TUR)	EF088084	EF088178	HM367307	EF088132	EF088033
<i>Echinodorus grandiflorus</i> (Cham. & Schltdl.) Micheli	Lehtonen 393 (TUR)	EF088070	EF088164	HM367297	EF088118	EF088019
<i>Echinodorus grandiflorus</i> (Cham. & Schltdl.) Micheli	Lehtonen 391 (TUR)	EF088065	HM367239	HM367337	EF088113	EF088014
<i>Echinodorus grisebachii</i> Rataj Small	Lehtonen 151 (TUR)	EF088053	EF088149	HM367272	EF088102	EF088003
<i>Echinodorus heikobleheri</i> Rataj	Quester s.n. (TUR)	EF088093	EF088187	HM367274	EF088139	EF088041
<i>Echinodorus horemanii</i> Rataj	Falck 96 (TUR)	-	HM367230	HM367332	-	-
<i>Echinodorus horizontalis</i> Rataj	Lehtonen & Rodriguez Arevalo 99 (TUR)	EF088047	EF088143	HM367282	EF088096	EF087997
<i>Echinodorus inpai</i> Rataj	Muhlberg s.n. (TUR)	EF088092	EF088186	HM367310	EF088138	-
<i>Echinodorus longipetalus</i> Micheli	Lehtonen & Burguez 271 (TUR)	EF088067	EF088162	HM367284	EF088115	EF088016
<i>Echinodorus longiscapus</i> Arechav.	Lehtonen & Delfino 341 (TUR)	EF088063	EF088158	HM367292	EF088112	EF088012
<i>Echinodorus longiscapus</i> Arechav.	Lehtonen & Dematteis 204 (TUR)	EF088059	HM367245	HM367289	EF088108	EF088009
<i>Echinodorus macrophyllus</i>	Lehtonen 700 (TUR)	-	HM367206	HM367314	-	-

(Kunth) Micheli						
<i>Echinodorus maculatus</i> Somogyi	Lehtonen 719 (TUR)	KT437645	HM367238	HM367336	KT437635	-
<i>Echinodorus muricatus</i> Griseb.	Botanic Garden, Natural History Museum, UiO, #1993-30	-	-	DQ786514	-	-
<i>Echinodorus Osiris</i> Rataj	Lehtonen 698 (TUR)	KT437651	HM367222	HM367328	KF632793	-
<i>Echinodorus paniculatus</i> Micheli	Lehtonen & Pacheco 469 (TUR)	EF088082	EF088176	HM367306	EF088130	EF088031
<i>Echinodorus paniculatus</i> Micheli	Lehtonen 168 (TUR)	EF088048	EF088144	HM367285	EF088097	EF087998
<i>Echinodorus portoalegrensis</i> Rataj	TUR:Bogner s.n.	KT437648	HM367226	HM367330	KT437632	-
<i>Echinodorus pseudohorizontalis</i> Rataj	PR:PR745393	-	KT437641	-	-	-
<i>Echinodorus pubescens</i> Rataj	Harley et al. 20019 (AAU)	-	EF088193	HM367312	-	EF088045
<i>Echinodorus reptilis</i> Lehtonen	Lehtonen & Burguez 261 (TUR)	EF088061	EF088156	HM367290	EF088110	EF088010
<i>Echinodorus scaber</i> Rataj	Lehtonen & Pacheco 440 (TUR)	EF088080	EF088174	HM367304	EF088128	EF088029
<i>Echinodorus subalatus</i> Mart. ex Schult.f.) Griseb.	Lehtonen & Pacheco 472 (TUR)	EF088075	EF088169	HM367300	EF088123	EF088024
<i>Echinodorus subalatus</i> Mart. ex Schult.f.) Griseb.	Lehtonen 394 (TUR)	EF088071	EF088165	HM367298	EF088119	EF088020
<i>Echinodorus trialatus</i> Fassett	Lehtonen & Pacheco 441 (TUR)	EF088074	EF088168	HM367299	EF088122	EF088023
<i>Echinodorus tunicatus</i> Small	Lehtonen 133 (TUR)	EF088058	EF088154	HM367283	EF088107	EF088008

<i>Echinodorus</i> <i>uruguayensis</i> Arechav.	Lehtonen et al. 237(TUR)	EF088066	EF088161	HM367295	EF088114	EF088015
<i>Echinodorus viridis</i> Rataj	PR:PR745396	-	-	KT437642	-	-
<i>Echinodorus</i> sp.	Lehtonen & Burguez 275 (TUR)	EF088062	EF088157	HM367291	EF088111	EF088011
<i>Echinodorus</i> sp.	Lehtonen & Burguez 309 (TUR)	EF088085	EF088179	HM367308	EF088133	EF088034