

Supporting information

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Conservation genomics of the fringed orchids (*Platanthera*) in the eastern US – species boundaries and genetic structure across landscapes

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Table S1. Locality information for 549 samples from the orange complex in *Platanthera* section *Blephariglottis* targeted for 3RADseq analysis.

Morphological ID	Pop ID	State	County	# Samples for 3RADseq
<i>P. blephariglottis</i>	BRP	Florida	Okaloosa	6
<i>P. blephariglottis</i>	DLP	Florida	Walton	12
<i>P. blephariglottis</i>	SAN	Georgia	Taylor	1
<i>P. blephariglottis</i>	NAS	Maryland	Worcester	12
<i>P. blephariglottis</i>	NJT	Maryland	Worcester	8
<i>P. blephariglottis</i>	CRA	New Jersey	Burlington	11
<i>P. blephariglottis</i>	PIS	New Jersey	Burlington	6
<i>P. blephariglottis</i>	BS	North Carolina	Columbus	12
<i>P. blephariglottis</i>	VAB	Pennsylvania	Hazleton	8
<i>P. chapmanii</i>	RES	Florida	Nassau	5
<i>P. chapmanii</i>	252	Georgia	Camden	4
<i>P. chapmanii</i>	NEW	Georgia	Charlton	9
<i>P. chapmanii</i>	KSF	Texas	Tyler	14
<i>P. chapmanii</i>	WP	Texas	Tyler	12
<i>P. ciliaris</i>	MLO	Alabama	Calhoun	3
<i>P. ciliaris</i>	MAW	Florida	Santa Rosa	14
<i>P. ciliaris</i>	MOCR	Florida	Santa Rosa	14
<i>P. ciliaris</i>	MOD	Georgia	Appling	12
<i>P. ciliaris</i>	BUR	Georgia	Camden	1
<i>P. ciliaris</i>	FMO	Georgia	Murray	8
<i>P. ciliaris</i>	CBB	Georgia	Tattnall	5
<i>P. ciliaris</i>	SAN	Georgia	Taylor	6
<i>P. ciliaris</i>	157	Georgia	Walker	13
<i>P. ciliaris</i>	MIM	Georgia	Walker	7
<i>P. ciliaris</i>	STL	Kentucky	Powell	10
<i>P. ciliaris</i>	HZL	Kentucky	Pulaski	7
<i>P. ciliaris</i>	WSP	Maryland	Frederick	15
<i>P. ciliaris</i>	GSP	North Carolina	Brunswick	9
<i>P. ciliaris</i>	SSS	North Carolina	Brunswick	7
<i>P. ciliaris</i>	VAB	Pennsylvania	Hazleton	8
<i>P. ciliaris</i>	BLD	Tennessee	Bledsoe	7
<i>P. ciliaris</i>	SAG	Tennessee	Grundy	10
<i>P. ciliaris</i>	SAGW	Tennessee	Grundy	1
<i>P. ciliaris</i>	MOH	Tennessee	Van Buren	14
<i>P. ciliaris</i>	SPC	Tennessee	Van Buren	1
<i>P. ciliaris</i>	BEAcil	West Virginia	Barbour	1
<i>P. cristata</i>	MIL	Delaware	Sussex	1
<i>P. cristata</i>	CTR	Florida	Camden	5
<i>P. cristata</i>	FCLC	Florida	Nassau	15
<i>P. cristata</i>	FCQ	Florida	Nassau	5
<i>P. cristata</i>	BCR	Florida	Okaloosa	15

<i>P. cristata</i>	SHS	Florida	Okaloosa	14
<i>P. cristata</i>	MOD	Georgia	Appling	11
<i>P. cristata</i>	FMO	Georgia	Murray	3
<i>P. cristata</i>	NAS	Maryland	Worcester	5
<i>P. cristata</i>	NJT	Maryland	Worcester	8
<i>P. cristata</i>	PIS	New Jersey	Burlington	1
<i>P. cristata</i>	GSP	North Carolina	Brunswick	7
<i>P. cristata</i>	LI	North Carolina	Brunswick	13
<i>P. cristata</i>	SSS	North Carolina	Brunswick	5
<i>P. cristata</i>	BLD	Tennessee	Bledsoe	2
<i>P. cristata</i>	SAGWcri	Tennessee	Grundy	4
<i>P. cristata</i>	MOH	Tennessee	Van Buren	7
<i>P. cristata</i>	SNF	Texas	Sabine	2
<i>P. integrilabia</i>	MLO	Alabama	Calhoun	3
<i>P. integrilabia</i>	LYL	Georgia	Carrolton	15
<i>P. integrilabia</i>	MVS	Kentucky	Pulaski	10
<i>P. integrilabia</i>	BLD	Tennessee	Bledsoe	8
<i>P. integrilabia</i>	SAGint	Tennessee	Grundy	15
<i>P. integrilabia</i>	SAGW	Tennessee	Grundy	4
<i>P. integrilabia</i>	MOH	Tennessee	Van Buren	15
<i>P. integrilabia</i>	SPC	Tennessee	Van Buren	5
<i>P. pallida</i>	LOI	New York	Suffolk	2
<i>P. x bicolor</i>	GSP	North Carolina	Brunswick	10
<i>P. x bicolor</i>	VAB	Pennsylvania	Hazleton	16
<i>P. x canbyi</i>	NAS	Maryland	Worcester	6
<i>P. x canbyi</i>	PIS	New Jersey	Burlington	10
<i>P. x rhinehartii</i>	MLO	Alabama	Calhoun	1
<i>P. x rhinehartii</i>	HZLrhi	Kentucky	Pulaski	13

Table S2. Locality information for the 288 samples from the purple complex in *Platanthera* subgenus *Fimbriata* targeted for 3RADseq analysis.

Morphological ID	Pop ID	State	County	# Samples for 3RADseq
<i>P. grandiflora</i>	HAT	Georgia	Gilmer	5
<i>P. grandiflora</i>	COO	Georgia	Union	2
<i>P. grandiflora</i>	DOP	Maryland	Frederick	1
<i>P. grandiflora</i>	GHS	Maryland	Frederick	3
<i>P. grandiflora</i>	BNR	New Hampshire	Carrol	6
<i>P. grandiflora</i>	FBR	New Hampshire	Carrol	16
<i>P. grandiflora</i>	TUF	New Hampshire	Carrol	12
<i>P. grandiflora</i>	CD	Pennsylvania	Cumberland	2
<i>P. grandiflora</i>	NES2	Pennsylvania	Luzerne	7
<i>P. grandiflora</i>	TIO	Pennsylvania	Tioga	14
<i>P. grandiflora</i>	CNC	West Virginia	Pocahontas	3
<i>P. grandiflora</i>	ECT	West Virginia	Pocahontas	2
<i>P. grandiflora</i>	MMR	West Virginia	Pocahontas	11
<i>P. grandiflora</i>	POC	West Virginia	Pocahontas	3
<i>P. grandiflora</i>	TEA	West Virginia	Pocahontas	4
<i>P. grandiflora</i>	WAT	West Virginia	Pocahontas	4
<i>P. grandiflora</i>	WRR	West Virginia	Pocahontas	12
<i>P. lacera</i>	NEC	Delaware	New Castle	1
<i>P. lacera</i>	BTP	Maryland	Anne Arundel	2
<i>P. lacera</i>	SERC	Maryland	Anne Arundel	1
<i>P. lacera</i>	MAY	Maryland	Montgomery	3
<i>P. lacera</i>	GUN	New Hampshire	Belknap	7
<i>P. lacera</i>	MAH	New Hampshire	Belknap	11
<i>P. lacera</i>	TAM	New Hampshire	Carrol	1
<i>P. lacera</i>	SUM	West Virginia	Greenbrier	8
<i>P. lacera</i>	TEA	West Virginia	Pocahontas	13
<i>P. peramoena</i>	MBP	Maryland	Ellicott	2
<i>P. peramoena</i>	BRM	North Carolina	Watauga	2
<i>P. peramoena</i>	CNC2	West Virginia	Pocahontas	2
<i>P. psycodes</i>	WOG	Georgia	Union	15
<i>P. psycodes</i>	HAR	Maryland	Worcester	1
<i>P. psycodes</i>	CAS	Minnesota	Cook	15
<i>P. psycodes</i>	GPK	Minnesota	Itasca	15
<i>P. psycodes</i>	113a	New Hampshire	Carrol	2
<i>P. psycodes</i>	GAR	New Hampshire	Carrol	15
<i>P. psycodes</i>	KEI	New Hampshire	Carrol	6

<i>P. psycodes</i>	RIL	North Carolina	Clay	15
<i>P. psycodes</i>	BRM	North Carolina	Watauga	3
<i>P. psycodes</i>	NES	Pennsylvania	Luzerne	9
<i>P. psycodes</i>	RNC	Wisconsin	Ozaukee	4
<i>P. shriveri</i>	DOP	Maryland	Frederick	4
<i>P. shriveri</i>	BRM	North Carolina	Watauga	4
<i>P. shriveri</i>	APP	West Virginia	Pocahontas	3
<i>P. shriveri</i>	WRR	West Virginia	Pocahontas	6
<i>P. x enigma</i>	CHO	New Hampshire	Carrol	9
<i>P. x keenani</i>	CNC	West Virginia	Pocahontas	2



Fig S1. Examples of floral morphology in the *P. shriveri*/*P.grandiflora*/*P.psycodes* complex. Field ID: a) *P. shriveri* from West Virginia, b) *P. grandiflora* from West Virginia, c) *P. grandiflora* from New Hampshire, d) *P. grandiflora* from North Carolina, e) *P. x enigma* from New Hampshire, f) *P. psycodes* from New Hampshire, g) *P. psycodes* from New Hampshire, h) *P. psycodes* from Minnesota. Photos: The authors, Jim Fowler and David Remucal.