Appendix S2. Table of downloaded transcriptome and genome data. Taxa used for the analyses, where the raw reads or the assembly were downloaded from. If raw reads were downloaded, then assembly method is listed.

Identifier for study	Family	Genus	Specific epithet	Species author	Publication where assembly was taken from	Source of Assembly	Title of Publication	Number of read pairs (If assembled for this study)	Assembly Method (if assembled during this study)	Translation Method (if conducted for this study)
MJM1677	Achatocarpaceae	*Phaulothamnus*	*spinescens*	A.Gray	SRX998856 (Brockington 2015 NewPhytologist)	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	Lineage-specific gene radiations underlie the evolution of novel betalain pigmentation in Caryophyllales	N/A	N/A	N/A
GJNX	Aizoaceae	*Cypselea*	*humifusa*	Turpin	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
BJKT	Aizoaceae	*Delosperma*	*echinatum*	Schwantes	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
HZTS	Aizoaceae	*Sesuvium*	*portulacastrum*	L.	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
EDIT	Aizoaceae	*Sesuvium*	*verrucosum*	Raf.	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
BERS	Aizoaceae	*Zaleya*	*pentandra*	C. Jeffrey	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
Mecr	Aizoaceae	*Mesembryanthemum*	*crystallinum*	L.	NCBI SRA (SRR1698355+SRR1701857) Christin et al. 2015	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	Genetic Enablers Underlying the Clustered Evolutionary Origins of C4 Photosynthesis in Angiosperms	N/A	N/A	N/A
Trpo	Aizoaceae	*Trianthema*	*portulacastrum*	L.	NCBI SRA (SRR1698227+SRR1698228) Christin et al. 2015	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	Genetic Enablers Underlying the Clustered Evolutionary Origins of C4 Photosynthesis in Angiosperms	N/A	N/A	N/A
HDSY	Amaranthaceae	*Aerva*	*javanica*	Juss.	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
PDQH	Amaranthaceae	*Aerva*	*lanata*	(L.) Juss. Ex Schult	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
ZBPY	Amaranthaceae	*Alternanthera*	*brasiliana*	Kuntze	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
OHKC	Amaranthaceae	*Alternanthera*	*caracasana*	Kunth	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
BWRK	Amaranthaceae	*Alternanthera*	*sessilis*	(L.) R.Br. ex DC	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
EYRD	Amaranthaceae	*Alternanthera*	*tenella*	Colla	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
XSSD	Amaranthaceae	*Amaranthus*	*cruentus*	Willd. Ex Roxb.	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
WMLW	Amaranthaceae	*Amaranthus*	*retroflexus*	L.	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
CUTE	Amaranthaceae	*Blutaparon*	*vermiculare*	(L.) Mears	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
MJM1807	Amaranthaceae	*Goszypianthus*	*lanuginosus*	(Poir.) Moq.	Yang et al. 2017	http://dx.doi.org/10.5061/dryad.st3gt	Improved transcriptome sampling pinpoints 26 ancient and more recent polyploidy events in Caryophyllales, including two allopolyploidy events	N/A	N/A	N/A
MJM2445	Amaranthaceae	*Guilleminea*	*densa*	(Humb. & Bonpl. ex Schult.) Moq.	Yang et al. 2017	http://dx.doi.org/10.5061/dryad.st3gt	Improved transcriptome sampling pinpoints 26 ancient and more recent polyploidy events in Caryophyllales, including two allopolyploidy events	N/A	N/A	N/A
MJM2259	Amaranthaceae	*Tidestromia*	*lanuginosa*	(Nutt.) Standl.	Yang et al. 2017	http://dx.doi.org/10.5061/dryad.st3gt	Improved transcriptome sampling pinpoints 26 ancient and more recent polyploidy events in Caryophyllales, including two allopolyploidy events	N/A	N/A	N/A
MJM1665	Amaranthaceae	*Froelichia*	*latifolia*	R.A.McCauley	SRX998855 (Brockington 2015 NewPhytologist)	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	Lineage-specific gene radiations underlie the evolution of novel betalain pigmentation in Caryophyllales	N/A	N/A	N/A
Amtr	Amaranthaceae	*Amaranthus*	*tricolor*	L.	NCBI SRA(SRR924083)	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	N/A	N/A	N/A	N/A
Alph	Amaranthaceae	*Alternanthera*	*philoxeroides*	Griseb.	NCBI SRA (SRR1661509) N/A	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	N/A	N/A	N/A	N/A
Amhy	Amaranthaceae	*Amaranthus*	*hypochondriacus*	L.	resource.ibab.ac.in/Plant_Genomics_(Sunil et al. 2014)	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	The Draft Genome and Transcriptome of Amaranthus hypochondriacus: A C4 Dicot Producing High-Lysine Edible Pseudo-Cereal	N/A	N/A	N/A
Anfi	Anacampserotaceae	*Anacampseros*	*filamentosa*	(Haw.) Sims	NCBI SRA (SRR1698105) Christin et al. 2015	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	Genetic Enablers Underlying the Clustered Evolutionary Origins of C4 Photosynthesis in Angiosperms	N/A	N/A	N/A
MJM2940	Ancistrocladaceae	*Ancistrocladus*	*robertsoniorum*	J.Leonard	Walker et al. 2017	http://dx.doi.org/10.5061/dryad.vn730/1	Widespread paleopolyploidy, gene tree conflict, and recalcitrant relationships among the carnivorous Caryophyllales	N/A	N/A	N/A
CTYH	Basellaceae	*Basella*	*alba*	L.	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
AncoSFB	Basellaceae	*Anredera*	*cordifolia*	(Ten.) Steenis	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
CPKP	Cactaceae	*Lophophora*	*williamsii*	(Lem.) J.M.Coult.	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
JLOV	Cactaceae	*Pereskia*	*aculeata*	Mill.	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
Opst	Cactaceae	*Opuntia*	*streptacantha*	Lem.	NCBI SRA (SRR3478183) Delgado-Sanchez et al. 2012	This Study	Effect of fungi and light on seed germination of three Opuntia species from semiarid lands of central Mexico	37,200,683	Trinity v2.0.3	transdecoder to blastp
Pegr	Cactaceae	*Pereskia*	*grandifolia*	Haw.	NCBI SRA (SRX800778) Christin et al. 2015	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	Genetic Enablers Underlying the Clustered Evolutionary Origins of C4 Photosynthesis in Angiosperms	N/A	N/A	N/A
Noco	Cactaceae	*Opuntia*	*cochenillifera=Opuntia*	(L.) Salm-Dyck	NCBI SRA (SRR1698231+SRR1698229) Christin et al. 2015	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	Genetic Enablers Underlying the Clustered Evolutionary Origins of C4 Photosynthesis in Angiosperms	N/A	N/A	N/A
Lely	Cactaceae	*Leuenbergeria*	*lychnidiflora*	(DC.) Lode	NCBI SRA (SRR1698113) Christin et al. 2015	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	Genetic Enablers Underlying the Clustered Evolutionary Origins of C4 Photosynthesis in Angiosperms	N/A	N/A	N/A
Lebl	Cactaceae	*Leuenbergeria*	*bleo*	(Kunth) Lode	NCBI SRA (SRR1698112) Christin et al. 2015	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	Genetic Enablers Underlying the Clustered Evolutionary Origins of C4 Photosynthesis in Angiosperms	N/A	N/A	N/A
Ecpe	Cactaceae	*Echinocereus*	*pectinatus*	(Scheidw.) Engelm.	NCBI SRA (SRR1698109) Christin et al. 2015	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	Genetic Enablers Underlying the Clustered Evolutionary Origins of C4 Photosynthesis in Angiosperms	N/A	N/A	N/A
Hyle	Cactaceae	*Hylocereus*	*lemairei=polyrhizus*	Britton & Rose	NCBI SRA (SRR3203780) Qingzhu et al. 2016	This Study	Transcriptomic Analysis Reveals Key Genes Related to Betalain Biosynthesis in Pulp Coloration of Hylocereus polyrhizus	33,561,511	Trinity v2.0.3	transdecoder to blastp
MJM2911	Cactaceae	*Opuntia*	*arenaria*	Engelm.	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
MJM2938	Cactaceae	*Rhipsalis*	*baccifera*	(J.S.Muell.) Stearn	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A

Grbr1013	Cactaceae	Grusonia	bradtiana	Britton & Rose	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
Code1013	Cactaceae	Copiapoa	desertorum	F. Ritter	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
Maco1013	Cactaceae	Maihueniopsis	conoidea	(Backeb) F. Ritter	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
Pubo1013	Cactaceae	Tephrocactus	bonnieae	D.J. Ferguson & R. Kiesling	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
Tali11	Cactaceae	Tacinga	lilae	Majure & R. Puente	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
Gymi06	Cactaceae	Gymnocalycium	mihanovichii	Britton & Rose	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
Tuco07	Cactaceae	Tunilla	corrugata	(Salm-Dyck) D.R.Hunt & Iliff	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
Asmy08	Cactaceae	Astrophytum	myriostigma	Lem.	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
Ecau09	Cactaceae	Echinopsis	aurea	Britton & Rose	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
Tear12	Cactaceae	Tephrocactus	articulatus	Lem.	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
Maau13	Cactaceae	Matucana	aurantiaca	(Vaupel) F. Ritter	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
Stco14	Cactaceae	Stetsonia	coryne	(Salm-Dyck) Britton & Rose	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
Asas15	Cactaceae	Astrophytum	asterias	Lem.	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
Opbr17	Cactaceae	Opuntia	bravoana	Eastw.	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
Ceyu18	Cactaceae	Stenocereus	yunkeri	Mill.	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
Arre20	Cactaceae	Ariocarpus	retusus	Scheidw.	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
Ptru21	Cactaceae	Pterocactus	tuberosus	(Pfeiff.) Britton & Rose	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
Paga22	Cactaceae	Pachycereus	gatesii	(M.E. Jones) D.R.Hunt	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
Mapo24	Cactaceae	Maihuenia	poeppigii	F.A.C. Weber	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
Sasa26	Cactaceae	Salmiopuntia	salmiana	(J. Parm. ex Pfeiff.) Guiggi	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
Coma28	Cactaceae	Coryphantha	maiz-tablasensis	Fritz Schwarz	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
Pecu29	Cactaceae	Peniocereus	cuixmalensis	Sanchez-Mej	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
Erwa30	Cactaceae	Eriosyce	wagenecknii	N/A	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
Legu31	Cactaceae	Leuenbergeria	guanacho	(F.A.C. Weber) Lode	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
Fela32	Cactaceae	Ferocactus	latispinus	(Haw.) Britton & Rose	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
Sino	Caryophyllaceae	*Silene*	*noctiflora*	L.	NCBI SRA (SRX353048) Sloan, 2013	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	Cytonuclear interactions and relaxed selection accelerate sequence evolution in organelle ribosomes	N/A	N/A	N/A
Sico	Caryophyllaceae	*Silene*	*conica*	hort. ex Fenzl	NCBI SRA (SRX353031) Sloan, 2013	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	Cytonuclear interactions and relaxed selection accelerate sequence evolution in organelle ribosomes	N/A	N/A	N/A
Aggi	Caryophyllaceae	*Agrostemma*	*githago*	L.	NCBI SRA (SRX352988) Sloan, 2013	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	Cytonuclear interactions and relaxed selection accelerate sequence evolution in organelle ribosomes	N/A	N/A	N/A
Sipa	Caryophyllaceae	*Silene*	*paradoxa*	Lapeyr.	NCBI SRA (SRX353049) Sloan, 2013	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	Cytonuclear interactions and relaxed selection accelerate sequence evolution in organelle ribosomes.	N/A	N/A	N/A
RXEN	Caryophyllaceae	*Polycarpaea*	*repens*	Asch. & Schweinf. ex Asch.	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
SKNL	Caryophyllaceae	*Saponaria*	*officinalis*	L.	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
OLES	Caryophyllaceae	*Schiedea*	*membranacea*	H.St.John	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
TJES	Caryophyllaceae	*Spergularia*	*media*	(L.) Griseb.	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
Coqu	Caryophyllaceae	*Colobanthus*	*quitensis*	(Kunth) Bartl.	NCBI TSA (GCIB01000001-GCIB01165386) Arthofer et al. 2015	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	Genomic Resources Notes accepted 1 February 2015 – 31 March 2015	N/A	N/A	N/A
MJM1164	Caryophyllaceae	*Arenaria*	*serpyllifolia*	Bourg. ex Willk. & Lange	Yang et al. 2017	http://dx.doi.org/10.5061/dryad.st3gt	Improved transcriptome sampling pinpoints 26 ancient and more recent polyploidy events in Caryophyllales, including two allopolyploidy events	N/A	N/A	N/A
MJM1163	Caryophyllaceae	*Cerastium*	*fontanum*	Baumg.	Yang et al. 2017	http://dx.doi.org/10.5061/dryad.st3gt	Improved transcriptome sampling pinpoints 26 ancient and more recent polyploidy events in Caryophyllales, including two allopolyploidy events	N/A	N/A	N/A
CorSFB	Caryophyllaceae	*Corrigiola*	*littoralis*	L.	Yang et al. 2017	http://dx.doi.org/10.5061/dryad.st3gt	Improved transcriptome sampling pinpoints 26 ancient and more recent polyploidy events in Caryophyllales, including two allopolyploidy events	N/A	N/A	N/A
MJM2503	Caryophyllaceae	*Drymaria*	*subumbellata*	I.M.Johnst.	Yang et al. 2017	http://dx.doi.org/10.5061/dryad.st3gt	Improved transcriptome sampling pinpoints 26 ancient and more recent polyploidy events in Caryophyllales, including two allopolyploidy events	N/A	N/A	N/A
AP35665	Caryophyllaceae	*Eremogone*	*hookeri subsp. Desortum*	(Nutt. ex Torr. & A.Gray) W.A.Weber	Yang et al. 2017	http://dx.doi.org/10.5061/dryad.st3gt	Improved transcriptome sampling pinpoints 26 ancient and more recent polyploidy events in Caryophyllales, including two allopolyploidy events	N/A	N/A	N/A
AreSFB	Caryophyllaceae	*Arenaria*	*procera*	(Spreng.) Rchb.	Yang et al. 2017	http://dx.doi.org/10.5061/dryad.st3gt	Improved transcriptome sampling pinpoints 26 ancient and more recent polyploidy events in Caryophyllales, including two allopolyploidy events	N/A	N/A	N/A
GypSFB	Caryophyllaceae	*Gypsophila*	*repens*	L.	Yang et al. 2017	http://dx.doi.org/10.5061/dryad.st3gt	Improved transcriptome sampling pinpoints 26 ancient and more recent polyploidy events in Caryophyllales, including two allopolyploidy events	N/A	N/A	N/A
HerSFB	Caryophyllaceae	*Herniaria*	*latifolia*	Lapeyr.	Yang et al. 2017	http://dx.doi.org/10.5061/dryad.st3gt	Improved transcriptome sampling pinpoints 26 ancient and more recent polyploidy events in Caryophyllales, including two allopolyploidy events	N/A	N/A	N/A
HoncSFB	Caryophyllaceae	*Honckenya*	*peploides*	(L.) Ehrh.	Yang et al. 2017	http://dx.doi.org/10.5061/dryad.st3gt	Improved transcriptome sampling pinpoints 26 ancient and more recent polyploidy events in Caryophyllales, including two allopolyploidy events	N/A	N/A	N/A
IlleSFB	Caryophyllaceae	*Illecebrum*	*verticillatum*	L.	Yang et al. 2017	http://dx.doi.org/10.5061/dryad.st3gt	Improved transcriptome sampling pinpoints 26 ancient and more recent polyploidy events in Caryophyllales, including two allopolyploidy events	N/A	N/A	N/A
LepySFB	Caryophyllaceae	*Lepyrodiclis*	*stellarioides*	Fisch. & C.A.Mey.	Yang et al. 2017	http://dx.doi.org/10.5061/dryad.st3gt	Improved transcriptome sampling pinpoints 26 ancient and more recent polyploidy events in Caryophyllales, including two allopolyploidy events	N/A	N/A	N/A
SclSFB	Caryophyllaceae	*Scleranthus*	*polycarpos*	L.	Yang et al. 2017	http://dx.doi.org/10.5061/dryad.st3gt	Improved transcriptome sampling pinpoints 26 ancient and more recent polyploidy events in Caryophyllales, including two allopolyploidy events	N/A	N/A	N/A
AP01224	Caryophyllaceae	*Silene*	*acaulis subsp. subacaulescens*	(L.) Jacq.	Yang et al. 2017	http://dx.doi.org/10.5061/dryad.st3gt	Improved transcriptome sampling pinpoints 26 ancient and more recent polyploidy events in Caryophyllales, including two allopolyploidy events	N/A	N/A	N/A
TelSFB	Caryophyllaceae	*Telephium*	*imperati*	L.	Yang et al. 2017	http://dx.doi.org/10.5061/dryad.st3gt	Improved transcriptome sampling pinpoints 26 ancient and more recent polyploidy events in Caryophyllales, including two allopolyploidy events	N/A	N/A	N/A
VeleSFB	Caryophyllaceae	*Velezia*	*rigida*	L.	Yang et al. 2017	http://dx.doi.org/10.5061/dryad.st3gt	Improved transcriptome sampling pinpoints 26 ancient and more recent polyploidy events in Caryophyllales, including two allopolyploidy events	N/A	N/A	N/A
MJM1767	Caryophyllaceae	*Cerastium*	*arvense*	L.	SRX998858 (Brockington 2015 NewPhytologist)	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	Lineage-specific gene radiations underlie the evolution of novel betalain pigmentation in Caryophyllales	N/A	N/A	N/A
LCMsn	Caryophyllaceae	*Drymaria*	*cordata*	(L.) Willd. ex Schult.	SRX998854 (Brockington 2015 NewPhytologist)	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	Lineage-specific gene radiations underlie the evolution of novel betalain pigmentation in Caryophyllales	N/A	N/A	N/A
Sivu	Caryophyllaceae	*Silene*	*vulgaris*	(Moench) Garcke	NCBI SRA (SRR342041) N/A	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	N/A	N/A	N/A	N/A

Pshe	Caryophyllaceae	*Pseudostellaria*	*heterophylla*	(Miq.) Pax	NCBI SRA (SRR3225572) N/A	This Study	N/A	143,520,489	Trinity v2.0.3	transdecoder to blastp
Sila	Caryophyllaceae	*Silene*	*latifolia*	Hornem.	NCBI SRA(SRR404980-SRR404985) Muyle et al. 2012	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	Rapid De Novo Evolution of X Chromosome Dosage Compensation in Silene latifolia, a Plant with Young Sex Chromosomes	N/A	N/A	N/A
Dica	Caryophyllaceae	*Dianthus*	*caryophyllus*	L.	http://carnation.kazusa.or.jp/ Yagi et al. 2014	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	Sequence analysis of the genome of carnation (Dianthus caryophyllus L.).	N/A	N/A	N/A
Haam	Chenopodiaceae	*Haloxylon*	*ammodendron*	Bunge	NCBI SRA (SRR1697346) Long et al. 2014	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	De novo assembly of the desert tree Haloxylon ammodendron (C. A. Mey.) based on RNA-Seq data provides insight into drought response, gene discovery and marker identification	N/A	N/A	N/A
Cham	Chenopodiaceae	*Chenopodium*	*giganteum*	D. Don	NCBI SRA (SRR503600) Zhang et al. 2012	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	De novo foliar transcriptome of Chenopodium amaranticolor and analysis of its gene expression during virus-induced hypersensitive response	N/A	N/A	N/A
ONLQ	Chenopodiaceae	*Atriplex*	*hortensis*	L.	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
AAXJ	Chenopodiaceae	*Atriplex*	*prostrata*	R.Br.	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
CBJR	Chenopodiaceae	*Atriplex*	*rosea*	L.	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
WGET	Chenopodiaceae	*Bassia*	*scoparia*	(L.) A.J. Scott	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
FVXD	Chenopodiaceae	*Beta*	*maritima*	L.	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
Beta	Chenopodiaceae	*Beta*	*vulgaris*	L.	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
SMMC	Chenopodiaceae	*Chenopodium*	*quinoa*	Willd.	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
Sptu	Chenopodiaceae	*Spinacia*	*turkestanica*	Iljin	NCBI SRA (SRR1766334,SRR1766333,SRR1766332) Xu et al. 2017	This Study	Draft genome of spinach and transcriptome diversity of 120 Spinacia accessions	16,640,543 & 15,485,184 & 9,580,222	Trinity v2.0.3	transdecoder to blastp
Spte	Chenopodiaceae	*Spinacia*	*tetrandra*	Roxb.	NCBI SRA (SRR1766329,SRR1766330,SRR1766331) Xu et al. 2017	This Study	Draft genome of spinach and transcriptome diversity of 120 Spinacia accessions	11,220,670 & 9,301,545 & 11,968,303	Trinity v2.0.3	transdecoder to blastp
MJM3214	Chenopodiaceae	*Extriplex*	*californica*	Moq.	Yang et al. 2017	http://dx.doi.org/10.5061/dryad.st3gt	Improved transcriptome sampling pinpoints 26 ancient and more recent polyploidy events in Caryophyllales, including two allopolyploidy events	N/A	N/A	N/A
MJM3268	Chenopodiaceae	*Grayia*	*spinosa*	(Hook.) Moq.	Yang et al. 2017	http://dx.doi.org/10.5061/dryad.st3gt	Improved transcriptome sampling pinpoints 26 ancient and more recent polyploidy events in Caryophyllales, including two allopolyploidy events	N/A	N/A	N/A
MJM2311	Chenopodiaceae	*Krascheninnikovia*	*lanata*	(Pursh) A.Meeuse & A.Smit	Yang et al. 2017	http://dx.doi.org/10.5061/dryad.st3gt	Improved transcriptome sampling pinpoints 26 ancient and more recent polyploidy events in Caryophyllales, including two allopolyploidy events	N/A	N/A	N/A
MJM1679	Chenopodiaceae	*Suaeda*	*linearis*	(Elliott) Moq.	Yang et al. 2017	http://dx.doi.org/10.5061/dryad.st3gt	Improved transcriptome sampling pinpoints 26 ancient and more recent polyploidy events in Caryophyllales, including two allopolyploidy events	N/A	N/A	N/A
Hagl	Chenopodiaceae	*Halogeton*	*glomeratus*	(M.Bieb.) Ledeb.	NCBI SRA (SRX643376)	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	N/A	N/A	N/A	N/A
Oxru	Chenopodiaceae	*Oxybasis*	*rubra*	(L.) S. Fuentes, Uotila & Borsch	NCBI SRA (SRR2913184) N/A	This Study	N/A	31,166,862	Trinity v2.0.3	transdecoder to blastp
Spol	Chenopodiaceae	*Spinacia*	*oleracea*	L.	http://bvseq.molgen.mpg.de/ Dohm et al. 2014	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	The genome of the recently domesticated crop plant sugar beet (*Beta vulgaris*)	N/A	N/A	N/A
Bisi	Chenopodiaceae	*Bienertia*	*sinuspersici*	Akhani	http://bvseq.molgen.mpg.de/ Dohm et al. 2014	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	The genome of the recently domesticated crop plant sugar beet (Beta vulgaris)	N/A	N/A	N/A
Saeu	Chenopodiaceae	*Salicornia*	*europaea*	L.	NCBI TSA (GAIA01000001-GAIA01083157) Fan, 2013	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	Transcriptome Analysis of Salicornia europaea under Saline Conditions Revealed the Adaptive Primary Metabolic Pathways as Early Events to Facilitate Salt Adaptation	N/A	N/A	N/A
Suma	Chenopodiaceae	*Suaeda*	*maritima*	Dumort.	NCBI SRA (SRR3218589) Gharat et al. 2016	This Study	Transcriptome Analysis of the Response to NaCl in Suaeda maritima Provides an Insight into Salt Tolerance Mechanisms in Halophytes	151,755,204	Trinity v2.0.3	transdecoder to blastp
Sufr	Chenopodiaceae	*Suaeda*	*fruticosa*	Dumort.	NCBI SRA(SRR1946833) Diray-Arce, 2015	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	Transcriptome assembly, profiling and differential gene expression analysis of the halophyte Suaeda fruticosa provides insights into salt tolerance.	N/A	N/A	N/A
Agsq	Chenopodiaceae	*Agriophyllum*	*squarrosum*	Moq.	NCBI SRA (SRR1559276) Zhao et al. 2014	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	Transcriptomic analysis of a psammophyte food crop, sand rice (Agriophyllum squarrosum) and identification of candidate genes essential for sand dune adaptation.	N/A	N/A	N/A
DBG1987030102 01Z	Didiereaceae	*Alluaudia*	*dumosa*	(Drake) Drake	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
DBG1974022911	Didiereaceae	*Alluaudia*	*humbertii*	Choux	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
DBG1956574402 3G	Didiereaceae	*Alluaudia*	*procera*	(Drake) Drake	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
AlmarSFB	Didiereaceae	*Alluaudiopsis*	*marnieriana*	Rauh	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
CerpySFB	Didiereaceae	*Ceraria*	*pygmaea*	(Pillans) G.D.Rowley	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
MJM2944	Didiereaceae	*Decarya*	*madagascariensis*	Choux	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
DBGDima	Didiereaceae	*Didierea*	*madagascariensis*	Baill.	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
DBG2948002402 02G	Didiereaceae	*Didierea*	*trollii*	Capuron & Rauh	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
DBG1988058302 1G	Didiereaceae	*Portulacaria*	*afra*	Jacq.	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
MJM1652	Droseraceae	*Aldrovanda*	*vesiculosa*	L.	SRX998847 (Brockington 2015 NewPhytologist)	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	Lineage-specific gene radiations underlie the evolution of novel betalain pigmentation in Caryophyllales	N/A	N/A	N/A
Dimu	Droseraceae	*Dionaea*	*muscipula*	J. Ellis	NCBI SRA(SRR916183) Jensen et al. 2015	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	Transcriptome and Genome Size Analysis of the Venus Flytrap	N/A	N/A	N/A
DrobinSFB	Droseraceae	*Drosera*	*binata*	Labill.	Walker et al. 2017	http://dx.doi.org/10.5061/dryad.vn730/1	Widespread paleopolyploidy, gene tree conflict, and recalcitrant relationships among the carnivorous Caryophyllales	N/A	N/A	N/A
DrolusSFB	Drosophyllaceae	*Drosophyllum*	*lusitanicum*	(L.) Link	Walker et al. 2017	http://dx.doi.org/10.5061/dryad.vn730/1	Widespread paleopolyploidy, gene tree conflict, and recalcitrant relationships among the carnivorous Caryophyllales	N/A	N/A	N/A
WPYJ	Frankeniaceae	*Frankenia*	*laevis*	F. Muell.	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
LimaeSFB	Limeaceae	*Limeum*	*aethiopicum*	Burm. f.	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A

YNFJ	Microteaceae	*Microtea*	*debilis*	Sw.	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
RNBN	Molluginaceae	*Mollugo*	*cerviana*	(L.) Ser.	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
SCAO	Molluginaceae	*Mollugo*	*nudicaulis*	Lam.	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
HURS	Molluginaceae	*Mollugo*	*pentaphylla*	L.	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
NXTS	Molluginaceae	*Mollugo*	*verticillata*	L.	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
GhloSFB	Molluginaceae	*Glinus*	*lotoides var. virens*	L.	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
PhaexSFB	Molluginaceae	*Pharnaceum*	*exiguum*	Adamson	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
SuecaSFB	Molluginaceae	*Suessenguthiella*	*caespitosa*	Friedrich	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
CagrSFB	Montiaceae	*Calandrinia*	*grandiflora_or_procumbens*	Lindl.	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
MJM3165	Montiaceae	*Calyptridium*	*pygmaeum*	(Parish ex Rydberg) Hershkovitz	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
MJM3142	Montiaceae	*Calyptridium*	*umbellatum*	(Torr.) Hershkovitz	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
CigrSFB	Montiaceae	*Cistanthe*	*grandiflora*	(Lindl.) Schltdl.	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
TRS2027	Montiaceae	*Claytonia*	*nevadensis*	S.Watson	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
MJM1156	Montiaceae	*Claytonia*	*virginica*	L.	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
MJM3168	Montiaceae	*Lewisia*	*nevadensis*	(A.Gray) B.L.Rob.	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
MJM3167	Montiaceae	*Montia*	*chamissoi*	(Ledeb. ex Spreng.) Greene	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
MJM2214	Montiaceae	*Phemeranthus*	*parviflorus*	(Nutt.) Kiger	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
Neam	Nepenthaceae	*Nepenthes*	*ampullaria*	Jack	NCBI SRA (SRR2866506, SRR2866512, SRR2866533) Wan Zakaria et al. 2016	http://datadryad.org/resource/doi:10.5061/dryad.vn730/1	RNA-seq Analysis of Nepenthes ampullaria	N/A	N/A	N/A
NepSFB	Nepenthaceae	*Nepenthes*	*alata*	Blanco	Walker et al. 2017	http://dx.doi.org/10.5061/dryad.vn730/1	Widespread paleopolyploidy, gene tree conflict, and recalcitrant relationships among the carnivorous Caryophyllales	N/A	N/A	N/A
SFB32	Nyctaginaceae	*Bougainvillea*	*stipitata var. grisebachian*	Griseb.	SRX718672 (Yang 2015 MBE)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
SFB28	Nyctaginaceae	*Pisonia*	*aculeata*	L.	SRX718389 (Yang 2015 MBE)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
SFB27	Nyctaginaceae	*Guapira*	*obtusata*	(Jacq.) Little	SRX718384 (Yang 2015 MBE)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
MJM1070	Nyctaginaceae	*Anulocaulis*	*leiosolenus var. gypsogenus*	(Torr.) Standl.	SRX717838 (Yang 2015 MBE)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
EGOS	Nyctaginaceae	*Allionia*	*incarnata*	L.	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
VJPU	Nyctaginaceae	*Boerhavia*	*burbidgeana*	Hewson	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
JAFJ	Nyctaginaceae	*Bougainvillea*	*spectabilis*	Willd.	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
Boco	Nyctaginaceae	*Boerhavia*	*coccinea*	Mill.	NCBI SRA (SRR1698115+SRR1698114) Christin et al. 2015	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	Genetic Enablers Underlying the Clustered Evolutionary Origins of C4 Photosynthesis in Angiosperms	N/A	N/A	N/A
MJM2189	Nyctaginaceae	*Abronia*	*bigelovii*	Heimerl	Yang et al. 2017	http://dx.doi.org/10.5061/dryad.st3gt	Improved transcriptome sampling pinpoints 26 ancient and more recent polyploidy events in Caryophyllales, including two allopolyploidy events	N/A	N/A	N/A
MJM2246	Nyctaginaceae	*Acleisanthes*	*chenopodioides*	(A.Gray) R.A.Levin	Yang et al. 2017	http://dx.doi.org/10.5061/dryad.st3gt	Improved transcriptome sampling pinpoints 26 ancient and more recent polyploidy events in Caryophyllales, including two allopolyploidy events	N/A	N/A	N/A
MJM2362	Nyctaginaceae	*Anulocaulis*	*eriosolenus*	(A.Gray) Standl.	Yang et al. 2017	http://dx.doi.org/10.5061/dryad.st3gt	Improved transcriptome sampling pinpoints 26 ancient and more recent polyploidy events in Caryophyllales, including two allopolyploidy events	N/A	N/A	N/A
MJM2201	Nyctaginaceae	*Boerhavia*	*purpurascens*	A.Gray	Yang et al. 2017	http://dx.doi.org/10.5061/dryad.st3gt	Improved transcriptome sampling pinpoints 26 ancient and more recent polyploidy events in Caryophyllales, including two allopolyploidy events	N/A	N/A	N/A
MJM2202	Nyctaginaceae	*Boerhavia*	*torreyana*	(S.Watson) Standl.	Yang et al. 2017	http://dx.doi.org/10.5061/dryad.st3gt	Improved transcriptome sampling pinpoints 26 ancient and more recent polyploidy events in Caryophyllales, including two allopolyploidy events	N/A	N/A	N/A
MJM2585	Nyctaginaceae	*Nyctaginia*	*capitata*	Choisy	Yang et al. 2017	http://dx.doi.org/10.5061/dryad.st3gt	Improved transcriptome sampling pinpoints 26 ancient and more recent polyploidy events in Caryophyllales, including two allopolyploidy events	N/A	N/A	N/A
MJM3267	Nyctaginaceae	*Tripterocalyx*	*crux-maltae*	(Kellogg) Standl.	Yang et al. 2017	http://dx.doi.org/10.5061/dryad.st3gt	Improved transcriptome sampling pinpoints 26 ancient and more recent polyploidy events in Caryophyllales, including two allopolyploidy events	N/A	N/A	N/A
MJM1714	Nyctaginaceae	*Cyphomeris*	*gypsophiloides*	(M.Martens & Galeotti) Standl.	SRX998857 (Brockington 2015 NewPhytologist)	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	Lineage-specific gene radiations underlie the evolution of novel betalain pigmentation in Caryophyllales	N/A	N/A	N/A
SFB29	Nyctaginaceae	*Pisonia*	*umbellifera*	(J.R.Forst. & G.Forst.) Seem.	SRX998852 (Brockington 2015 NewPhytologist)	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	Lineage-specific gene radiations underlie the evolution of novel betalain pigmentation in Caryophyllales	N/A	N/A	N/A
MJM1771	Nyctaginaceae	*Mirabilis*	*multiflora*	(Torr.) A.Gray	SRX998851 (Brockington 2015 NewPhytologist)	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	Lineage-specific gene radiations underlie the evolution of novel betalain pigmentation in Caryophyllales	N/A	N/A	N/A
MJM1751	Nyctaginaceae	*Abronia*	*nealleyi*	Standl.	SRX998850 (Brockington 2015 NewPhytologist)	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	Lineage-specific gene radiations underlie the evolution of novel betalain pigmentation in Caryophyllales	N/A	N/A	N/A
MJM1741	Nyctaginaceae	*Acleisanthes*	*lanceolata var. lanceolata*	(Wooton) R.A.Levin	SRX998849 (Brockington 2015 NewPhytologist)	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	Lineage-specific gene radiations underlie the evolution of novel betalain pigmentation in Caryophyllales	N/A	N/A	N/A
MJM1697	Nyctaginaceae	*Acleisanthes*	*obtusa*	(Choisy) Standl.	SRX998848 (Brockington 2015 NewPhytologist)	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	Lineage-specific gene radiations underlie the evolution of novel betalain pigmentation in Caryophyllales	N/A	N/A	N/A
Mija	Nyctaginaceae	*Mirabilis*	*jalapa*	L.	NCBI SRA (ERR324436) N/A	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	N/A	N/A	N/A	N/A
Cor	Outgroups	Davidia	involucrata	Baill.	NCBI SRA (SRX1038897) Li et al. 2016	This Study	*De novo* transcriptome sequencing and gene expression analysis reveal potential mechanisms of seed abortion in dove tree (*Davidia involucrata*Baill.)	32,123,084	Trinity v2.0.3	transdecoder to blastp
Tani	Outgroups	Taxillus	nigrans	(Hance) Danser	NCBI SRA (SRX2755388) Miao et al. 2017	This Study	Development of EST-SSR markers for Taxillus nigrans (Loranthaceae) in southwestern China using next-generation sequencing	18,907,403	Trinity v2.0.3	transdecoder to blastp

Caac	Outgroups	Camptotheca	acuminata	Decne.	NCBI SRA (SRX055436) Gongora-Castillo et al. 2012	This Study	Development of transcriptomic resources for interrogating the biosynthesis of monoterpene indole alkaloids in medicinal plant species	25,101,356	Trinity v2.0.3	transdecoder to blastp
Ilpa	Outgroups	Ilex	paraguariensis	A.St.-Hil.	NCBI SRA (SRX1798938) Debat, 2014	This Study	Exploring the Genes of Yerba Mate (Ilex paraguariensis A. St.-Hil.) by NGS and De Novo Transcriptome Assembly	15,878,954	Trinity v2.0.3	transdecoder to blastp
Kiwi	Outgroups	Actinidia	deliciosa	(A.Chev.) C.F.Liang & A.R. Ferguson	NCBI SRA (SRX1759265)	This Study	N/A	20,505,140	Trinity v2.0.3	transdecoder to blastp
Acoerulea	Outgroups	Aquilegia	coerulea	E. James	https://phytozome.jgi.doe.gov/ Goodstein et al. 2012	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	Phytozome: a comparative platform for green plant genomics.	N/A	N/A	N/A
Mguttatus	Outgroups	Mimulus	guttatus	Fisch.	https://phytozome.jgi.doe.gov/ Goodstein et al. 2012	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	Phytozome: a comparative platform for green plant genomics.	N/A	N/A	N/A
Slycopersicum	Outgroups	Solanum	lycopersicum	L.	https://phytozome.jgi.doe.gov/ Goodstein et al. 2012	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	Phytozome: a comparative platform for green plant genomics.	N/A	N/A	N/A
Vvinifera	Outgroups	Vitis	vinifera	L.	https://phytozome.jgi.doe.gov/ Goodstein et al. 2012	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	Phytozome: a comparative platform for green plant genomics.	N/A	N/A	N/A
Blue	Outgroups	Vaccinium	corrymbosum	L.	NCBI SRA (SRX2728597) Walworth et al. 2016	This Study	Transcript Profile of Flowering Regulatory Genes in VcFT-Overexpressing Blueberry Plants	60,438,736	Trinity v2.0.3	transdecoder to blastp
SFB30	Petiveriaceae	*Seguieria*	*aculeata*	Jacq.	SRX718486 (Yang 2015 MBE)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
MJM1651	Petiveriaceae	*Rivina*	*humilis*	L.	SRX718277 (Yang 2015 MBE)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
SFKQ	Petiveriaceae	*Hilleria*	*latifolia*	H. Walter	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
AZBL	Petiveriaceae	*Petiveria*	*alliacea*	L.	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
MonechSFB	Petiveriaceae	*Monococcus*	*echinophorus*	F.Muell.	Yang et al. 2017	http://dx.doi.org/10.5061/dryad.st3gt	Improved transcriptome sampling pinpoints 26 ancient and more recent polyploidy events in Caryophyllales, including two allopolyploidy events	N/A	N/A	N/A
RUUB	Physenaceae	*Physena*	*madagascariensis*	Steud.	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
BKQU	Phytolaccaceae	*Phytolacca*	*americana*	L.	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
MRKX	Phytolaccaceae	*Phytolacca*	*bogotensis*	Kunth	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
SFB31	Phytolaccaceae	*Phytolacca*	*dioica*	L.	SRX998853 (Brockington 2015 NewPhytologist)	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	Lineage-specific gene radiations underlie the evolution of novel betalain pigmentation in Caryophyllales	N/A	N/A	N/A
MJM1649	Phytolaccaceae	*Ercilla*	*volubilis*	(Bertero) Moq.	SRX998846 (Brockington 2015 NewPhytologist)	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	Lineage-specific gene radiations underlie the evolution of novel betalain pigmentation in Caryophyllales	N/A	N/A	N/A
AniSFB	Phytolaccaceae	*Anisomeria*	*littoralis*	(Poepp. & Endl.) Moq.	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
MJM3360	Plumbaginaceae	*Plumbago*	*auriculata*	Lam.	Walker et al. 2017	http://dx.doi.org/10.5061/dryad.vn730/1	Widespread paleopolyploidy, gene tree conflict, and recalcitrant relationships among the carnivorous Caryophyllales	N/A	N/A	N/A
Fasa	Polygonaceae	*Fallopia*	*sachalinensis*	(F.Schmidt) Ronse Decr.	NCBI SRA (DRR036753) Yamaguchi et al. 2016	This Study	Cytochrome P450 CYP71AT96 catalyses the final step of herbivore-induced phenylacetonitrile biosynthesis in the giant knotweed, Fallopia sachalinensis	25,234,290	Trinity v2.0.3	transdecoder to blastp
Pocu	Polygonaceae	*Reynoutria*	*japonica*	Houtt.	NCBI SRA (SRR292345) Hao, 2012	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	De novo characterization of the root transcriptome of a traditional Chinese medicinal plant Polygonum cuspidatum	N/A	N/A	N/A
FYSJ	Polygonaceae	*Fallopia*	*convolvulus*	(L.) A. Love	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
Fata	Polygonaceae	*Fagopyrum*	*tataricum*	(L.) Drejer	NCBI SRA (SRR1552215) Zhu et al. 2015	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	Genome-wide transcriptomic and phylogenetic analyses reveal distinct aluminum-tolerance mechanisms in the aluminum-accumulating species buckwheat (Fagopyrum tataricum)	N/A	N/A	N/A
MJM1811	Polygonaceae	*Antigonon*	*leptopus*	Hook. & Arn.	SRX998859 (Brockington 2015 NewPhytologist)	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	Lineage-specific gene radiations underlie the evolution of novel betalain pigmentation in Caryophyllales	N/A	N/A	N/A
Faes	Polygonaceae	*Fagopyrum*	*esculentum*	Moench	NCBI SRA (SRX112838) N/A	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	N/A	N/A	N/A	N/A
Rhrh	Polygonaceae	*Rheum*	*rhabarbarum*	L.	NCBI SRA (SRR867377) N/A	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	N/A	N/A	N/A	N/A
Poti	Polygonaceae	*Persicaria*	*tinctoria*	(Ait.) H.Gross	NCBI SRA (SRR1565474) N/A	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	N/A	N/A	N/A	N/A
Pomi	Polygonaceae	*Persicaria*	*minor*	(Huds.) Mozaff	NCBI SRA (SRR1536192) N/A	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	N/A	N/A	N/A	N/A
Rhno	Polygonaceae	*Rheum*	*nobile*	Hook.f. & Thomson	NCBI SRA (SRR1449867) N/A	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	N/A	N/A	N/A	N/A
Ruha	Polygonaceae	*Rumex*	*hastatulus*	Raf.	NCBI SRA (SRR1266797) N/A	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	N/A	N/A	N/A	N/A
Rupa	Polygonaceae	*Rumex*	*palustris*	Sm.	NCBI SRA (ERR216276+ERR216277) N/A	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	N/A	N/A	N/A	N/A
Ruac	Polygonaceae	*Rumex*	*acetosa*	L.	NCBI SRA (ERR216274+ERR216275) N/A	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	N/A	N/A	N/A	N/A
RuprSFB	Polygonaceae	*Ruprechtia*	*salicifolia*	(Cham. & Schltdl.) C.A.Mey.	Walker et al. 2017	http://dx.doi.org/10.5061/dryad.vn730/1	Widespread paleopolyploidy, gene tree conflict, and recalcitrant relationships among the carnivorous Caryophyllales	N/A	N/A	N/A
LDEL	Portulacaceae	*Portulaca*	*amilis*	Speg.	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
LLQV	Portulacaceae	*Portulaca*	*cryptopetala*	Speg.	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
CPLT	Portulacaceae	*Portulaca*	*grandiflora*	Hook.	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
UQCB	Portulacaceae	*Portulaca*	*molokiniensis*	R.W. Hobdy	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
IWIS	Portulacaceae	*Portulaca*	*pilosa*	L.	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
GCYL	Portulacaceae	*Portulaca*	*suffrutescens*	Engelm.	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
KDCH	Portulacaceae	*Portulaca*	*umbraticola*	Kunth	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
Pool	Portulacaceae	*Portulaca*	*oleracea*	L.	NCBI SRA (SRR1698123+SRR1698125) Christin et al. 2015	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	Genetic Enablers Underlying the Clustered Evolutionary Origins of C4 Photosynthesis in Angiosperms	N/A	N/A	N/A

CVDF	Simmondsiaceae	*Simmondsia*	*chinensis*	C.K.Schneid.	1KP (Assembly from Yang et. al 2015)	http://datadryad.org/resource/doi:10.5061/dryad.33m48	Dissecting molecular evolution in the highly diverse plant clade Caryophyllales using transcriptome sequencing	N/A	N/A	N/A
Tapo	Talinaceae	*Talinum*	*portulacifolium*	Asch. ex Schweinf.	NCBI SRA (SRX800788) Christin et al. 2015	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	Genetic Enablers Underlying the Clustered Evolutionary Origins of C4 Photosynthesis in Angiosperms	N/A	N/A	N/A
Tafr	Talinaceae	*Talinum*	*fruticosum*	(L.) Juss.	NCBI SRA (SRR2545595,SRX1299268) Brilhaus et al. 2016	Wang et al. 2017	Reversible Burst of Transcriptional Changes during Induction of Crassulacean Acid Metabolism in Talinum triangulare	N/A	N/A	N/A
MJM1789	Talinaceae	*Talinum*	*paniculatum*	(Jacq.) Gaertn.	Wang et al. In prep	Wang et al. In prep	Wang et al. In prep	N/A	N/A	N/A
Tama	Tamaricaceae	*Tamarix*	*hispida*	Willd.	NCBI SRA (SRR522908+SRR527758+SRR527759+SRR527762+SRR527765+SRR527772+SRR527773+SRR527780) N/A	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	N/A	N/A	N/A	N/A
Retr	Tamaricaceae	*Reaumuria*	*trigyna*	Maxim.	NCBI SRA (SRR350859+SRR364263) N/A	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	N/A	N/A	N/A	N/A
Reso	Tamaricaceae	*Reaumuria*	*soongarica*	Maxim.	NCBI SRA (SRR1232022) N/A	http://datadryad.org/resource/doi:10.5061/dryad.st3gt	N/A	N/A	N/A	N/A

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