 DOI: 10.1086/707322

Appendix from R. D. Briscoe Runquist et al., "Context Dependence of Local Adaptation to Abiotic and Biotic Environments: A Quantitative and Qualitative Synthesis" (Am. Nat., vol. 195, no. 3, p. 000)

Table A1: Articles included in the meta-analysis and the metasynthesis

Citation	DOI	Focal species	Local-foreign contrast	Biotic influence contrast	Fitness contrasts in abiotic/biotic environments	Metasynthesis
Abdala-Roberts and Marquis 2007	https://doi.org/10.1007/s00442-007-0831-y	*Chamaecrista fasciculata*	Y	Y	Y	Y
Alexander et al. 2015	https://doi.org/10.1038/nature14952	*Anthyllis vulneria* ssp. *alpestris*			Y	Y
		Plantago atrata				
		Pulsatilla vernalis				
		Scabiosa lucida				
Antunes et al. 2011	https://doi.org/10.1111/j.1469-8137.2010.03480.x	*Poa pratensis*	Y		Y	Y
		Cynodon dactylon				
Ariza and Tielbörger 2011	https://doi.org/10.1111/j.1365-2435.2011.01848.x	*Biscutella didyma*			Y	Y
		Hymenocarpos circinnatus				
Ayres et al. 2009	https://doi.org/10.1111/j.1365-2745.2009.01539.x	*Populus temuloides*				Y
		Pinus contorta				
		Picea engelmannii				
Bankier 2016	https://spiral.imperial.ac.uk/handle/10044/1/44556	*Pseudomonas fluorescens*				Y
Barton 1993	https://doi.org/10.2307/2937151	*Pinus leiophylla*				Y
		Pinus discolor				
		Pinus engelmannii				
Bischoff et al. 2006	https://doi.org/10.1111/j.1365-2745.2006.01174.x	*Holcus lanatus*	Y	Y	Y	Y
		Lotus corniculatus				
		Plantago lanceolata				
Bohrer et al. 2003	https://doi.org/10.1016/S0140-1963(03)00047-8	*Vangueria infausta*				Y
Braco 2009	www.jstor.org/stable/41495824	*Quercus ilex* ssp. *ballota*	Y	Y	Y	Y
Bray et al. 2018	https://doi.org/10.1098/rstb.2018.0020	Salt-sensitive and salt-tolerant invertebrate communities from freshwater and brackish river systems				Y
Bryner and Rigling 2011	www.jstor.org/stable/10.1086/657620	*Cryphonectria parasitica*				Y
Buser et al. 2012	https://doi.org/10.1007/s10452-012-9397-9	*Daphnia magna*			Y	Y
Castro et al. 2013	https://doi.org/10.1111/1365-2745.12125	*Medicago truncatula*				Y
Colautti and Barrett 2013	https://doi.org/10.1126/science.1242121	*Lythrum salicaria*				Y
Compagnoni and Adler 2014	https://doi.org/10.1890/ES14-00047.1	*Bromus tectorum*	Y*	Y	Y	Y
Crémieux et al. 2008	https://doi.org/10.1111/j.1469-8137.2008.02545.x	*Holus lanatus*				Y
		Plantago lanceolata				
Cunningham et al. 2009	https://doi.org/10.1111/j.1365-2656.2008.01468.x	*Plethedon glutinosus*	Y		Y	Y

De Block et al. 2013	https://doi.org/10.1111/gcb.12089	*Daphnia magna*	Y		Y	Y
Donohue et al. 2001	https://doi.org/10.1111/j.0014-3820.2001.tb00805.x	*Impatiens capensis*	Y		Y	Y
Donohue et al. 2000	https://doi.org/10.1111/j.0014-3820.2000.tb01240.x	*Impatiens capensis*				Y
Doubková et al. 2012	https://doi.org/10.1016/j.soilbio.2011.09.011	*Knautia arvensis*	Y		Y	Y
Echaubard et al. 2014	https://doi.org/10.1111/eva.12169	*Lithobates pipiens*				Y
		Lithobates sylvaticus				
Egea-Serrano et al. 2014	https://doi.org/10.1098/rspb.2013.3266	*Rana arvalis*	Y	Y	Y	Y
Ehlers et al. 2012	https://doi.org/10.1002/ece3.270	*Medicago truncatula*				Y
Ehlers and Thompson 2004	https://doi.org/10.1007/s00442-004-1663-7	*Bromus erectus*				Y
Eränen and Kozlov 2009	https://doi.org/10.1007/s11258-008-9441-y	*Betula pubescens* ssp. *czerepanovii*				Y
Espeland and Rice 2007	https://doi.org/10.1890/06-1217.1	*Plantago erecta*				Y
Fey and Cottingham 2011	https://doi.org/10.1111/j.1365-2427.2011.02646.x	*Daphnia lumholtzi*			Y	Y
Fine et al. 2004	https://doi.org/10.1126/science.1098982	*Oxandra xylopoides*				Y
		Oxandra euneura				
		Tetragrastris panamensis				
		Protium subserratum				
		Protium nodulosum				
		Protium paniculatum				
		Protium opcacum				
		Protium calanense				
		Protium trifoliolaum				
		Protium krukoffii				
		Protium heptaphyllum ssp. *ulei*				
		Protium hebetatum				
		Pachira insignis				
		Pachira brevipes				
		Mabea pulcherrima				
		Mabea subsessilis				
		Swartzia arborescens				
		Swartzia cardiosperma				
		Parkia multijuga				
		Parkia igneiflora				
Germain et al. 2016	https://doi.org/10.1098/rspb.2016.0047	*Bromus carinatus*			Y	Y
		Chenopodium berlandieri				
		Eschscholzia caespitosa				
		Lasthenia glabrata				
		Lupinus bicolor				
		Monolepis nuttalliana				

Table A1 (*Continued*)

Citation	DOI	Focal species	Local-foreign contrast	Biotic influence contrast	Fitness contrasts in abiotic/biotic environments	Metasynthesis
		Phacelia campanularia				
		Salvia columbariae				
		Uropappus lindleyi				
		Vulpia microstachys				
Germain et al. 2018	https://doi.org/10.1098/rsbl.2018.0460	*Bromus carinatus*				Y
		Chenopodium berlandieri				
		Eschscholzia caespitosa				
		Lasthenia glabrata				
		Lupinus bicolor				
		Monolepis nuttalliana				
		Phacelia campanularia				
		Salvia columbariae				
		Uropappus lindleyi				
		Vulpia microstachys				
Gómez-Mestre and Tejedo 2002	https://doi.org/10.1890/0012-9658(2002)083[2102:GVIACA]2..CO;2	*Bufo bufo*				Y
Gorter et al. 2016	https://doi.org/10.1098/rsbl.2015.0879	*Psuedomonas fluorescens*				Y
Grassein et al. 2014	https://doi.org/10.1111/gcb.12445	*Bromus erectus*				Y
		Dactylis glomerata				
		Sesleria caerulea				
		Carex sempevirens				
		Festuca paniculata				
Heath et al. 2010	https://doi.org/10.1111/j.1420-9101.2010.02092.x	*Medicago truncatula*			Y	Y
Hufford and Mazer 2012	https://doi.org/10.1111/j.1526-100X.2011.00843.x	*Nassella pulchra*	Y		Y	Y
Hufford et al. 2008	https://doi.org/10.1111/j.1526-100X.2007.00262.x	*Elymus glaucus*	Y		Y	Y
		Bromus carinatus				
Hughes et al. 2017	https://doi.org/10.1002/ece3.2614	*Crassostrea virginica*	Y	Y	Y	Y
Johnson et al. 2010	https://doi.org/10.1073/pnas.0906710107	*Andropogon gerardii*				Y
Jurjavcic et al. 2002	https://doi.org/10.1007/s00442-001-0845-9	*Vulpia microstachys*				Y
Kardol et al. 2014	https://doi.org/10.1098/rsos.140141	*Bistorta vivpara*	Y		Y	Y
Kindell et al. 1996	http://www.jstor.org/stable/2261336	*Aristida stricta*				Y
King et al. 2011	https://doi.org/10.1111/j.1600-0706.2011.19241.x	*Potamopyrgus antipodarum*				Y
Knight and Miller 2004	http://www.evolutionary-ecology.com/abstracts/v06/1613.html	*Hydrocotyle bonariensis*				Y

Koutecká and Lepš 2013	https://doi.org/10.1139/cjb-2012-0214	*Myosotis caespitosa*				Y
		Myosotis palustria ssp. *laxiflora*				
		Myosotis palustris				
Laine 2008	https://doi.org/10.1111/j.1461-0248.2007.01146.x	*Plantago lanceolata*				Y
Landis et al. 2012	https://doi.org/10.1371/journal.pone.0030658	*Syngnathus typhle*				Y
Lankau 2013	https://doi.org/10.1890/12-0675.1	*Pilea pumila*	Y	Y	Y	Y
Lehndal and Ågren 2015	https://doi.org/10.1371/journal.pone.0135939	*Lythrum salicaria*				Y
Liancourt et al. 2013	https://doi.org/10.1890/12-0780.1	*Festuca lenensis*				Y
Liancourt and Tielbörger 2009	https://doi.org/10.1111/j.1365-2435.2008.01497.x	*Bromus fasciculatus*	Y		Y	Y
		Brachypodium distachyon				
Lopez Pascua et al. 2012	https://doi.org/10.1111/j.1420-9101.2011.02416.x	*Pseudomonas fluorescens*				Y
McCoy et al. 2002	http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.417.9289&rep=rep1&type=pdf	*Ixodes uriae*				Y
Menke et al. 2007	https://doi.org/10.1890/07-0122.1	*Linepithema humile*				Y
Mitchell et al. 2005	https://doi.org/10.1111/j.0014-3820.2005.tb00895.x	*Daphnia magna*				Y
Molina-Montenegro et al. 2013	https://doi.org/10.1111/j.1600-0587.2012.07758.x	*Taraxacum officinale*				Y
Muhamed et al. 2013	https://doi.org/10.1016/j.foreco.2013.02.023	*Quercus robur*				Y
		Quercus suber				
		Quercus ilex				
O'Brien et al. 2018	https://doi.org/10.1101/395624	*Drosophila birchii*				Y
		Drosophila bunnanda				
Ortegón-Campos et al. 2012	https://doi.org/10.1007/s10682-011-9507-5	*Ruellia nudiflora*	Y		Y	Y
Padfield et al. 2019	https://doi.org/10.1101/554717	*Pseudomonas fluorescens*				Y
Pahl et al. 2013	https://doi.org/10.1093/aob/mct246	*Impatiens glandulifera*				Y
Pánková et al. 2014	https://doi.org/10.1007/s12224-013-9183-z	*Aster amellus*				Y
Parain et al. 2016	https://doi.org/10.1002/ece3.2236	Inquiline bacteria community from pitcher plant, *Sarracenia purpurea*	Y*	Y	Y	Y
Pellissier et al. 2014	https://doi.org/10.1111/ecog.00833	*Plantago lanceolata*				Y
Pickles et al. 2015	https://doi.org/10.1111/nph.13360	*Pseudotsuga menziesii* var. *glauca*				Y
Poisot et al. 2011	https://doi.org/10.1098/rsbl.2010.0774	*Psuedomonas fluorescens*				Y
Rice and Knapp 2008	https://doi.org/10.1111/j.1526-100X.2007.00257.x	*Elymus glaucus*				Y
		Nassella pulchra				
Rodl and Ward 2002	https://doi.org/10.1046/j.0269-8463.2001.00592.x	*Plicosepalus acaciae*				Y
Rolán-Alvarez et al. 1997	http://www.jstor.org/stable/2411006	*Littorina saxatilis*				Y
Sambatti and Rice 2006	https://doi.org/10.1111/j.0014-3820.2006.tb01149.x	*Helianthus exilis*	Y	Y	Y	Y
Scharf et al. 2011	https://doi.org/10.1111/j.1095-8312.2011.01638.x	*Leptothorax acervorum*				Y
		Leptothorax muscorum				

Table A1 (*Continued*)

Citation	DOI	Focal species	Local-foreign contrast	Biotic influence contrast	Fitness contrasts in abiotic/biotic environments	Metasynthesis
Schoebel et al. 2010	https://doi.org/10.1111/j.1420-9101.2010.02097.x	*Daphnia galeata*				Y
Schoen et al. 1986	http://www.jstor.org/stable/4218023	*Impatiens capensis*				Y
		Impatiens pallida				
Schwarzer and Joshi 2017	https://doi.org/10.1016/j.ppees.2017.03.001	*Sphagnum magellanicum*				Y
Sherrard and Maherali 2012	https://doi.org/10.1007/s10682-011-9518-2	*Bromus inermis*	Y	Y	Y	Y
Sikes et al. 2014	https://doi.org/10.1007/s00572-013-0531-x	*Calamovilafa longifolia*				Y
		Deschampsia flexuosa				
Skelly 1995	http://www.jstor.org/stable/1940638	*Pseudacris triseriata*			Y	Y
		Pseudacris crucifer				
Smith and Ruiz 2004	http://www.eckerd.edu/academics/marinescience/files/smith/NSmith_Ruiz_MEPS_2004.pdf	*Cerithidea scalariformis*				Y
Stanton-Geddes et al. 2012	https://doi.org/10.1890/11-1701.1	*Chamaecrista fasciculata*	Y	Y	Y	Y
Sullivan and Faeth 2008	https://doi.org/10.1007/s00248-007-9312-4	*Festuca arizonica*				Y
Taheri and Bever 2010	https://doi.org/10.1016/j.apsoil.2010.03.004	*Andropogon virginicus*				Y
		Plantago lanceolata				
Thompson et al. 1991	https://doi.org/10.1111/j.1469-8137.1991.tb00952.x	*Spartina anglica*	Y	Y	Y	Y
Thrall et al. 2008	https://doi.org/10.1111/j.1365-2745.2008.01381.x	*Acacia brachybotrya*				Y
		Acacia hakeiodes				
		Acacia ligulate				
		Acaia mearnsii				
		Acacia pendula				
		Acacia pycnantha				
		Acacia rigens				
		Acacia salicina				
		Acacia stenophylla				
Tomiolo et al. 2015	https://doi.org/10.1890/14-1445.1	*Biscutella didyma*				Y
		Urospermum picroides				
		Brachypodium distachyon				
		Stipa capensis				
Traxler and Joern 1999	http://www.jstor.org/stable/3546739	*Hesperotettix viridis*				Y
Vinebrooke 1996	http://www.jstor.org/stable/1467280	Periphyton (27 most abundant spp.): *Aphanocapsa* spp.				Y

		Calothrix spp.				
		Homoeothrix Juliana				
		Bulbochaete spp.				
		Coleochaete scutata				
		Oedogonium spp.				
		Pediastrum spp.				
		Mougeotia spp.				
		Spirogyra spp.				
		Zygogonium ericetorum				
		Zygognium tunetatum				
		Actinotaenium curcubita				
		Cosmarium spp.				
		Cylindrocystis brebissonii				
		Euastrum spp.				
		Spondylosium planum				
		Achnanthidium minitissimum				
		Brachysira serians				
		Cymbella microcephala				
		Eunotia spp.				
		Fragilaria acidobionotica				
		Frustulia rhomboids				
		Gomphonema acuminatrum				
		Pinnularia spp.				
		Surirella spp.				
		Synedra spp.				
		Tabellaria quadrisepta				
Volis et al. 2002	https://doi.org/10.1007/s00442-002-0999-0	*Hordeum spontaneum*				Y
Welk et al. 2014	https://doi.org/10.1371/journal.pone.0111023	*Carlina vulgaris*	Y	Y	Y	Y
		Calina bibersteinii				
		Centaurea scabiosa				
		Centaurea stoebe				
		Dianthus deltoides				
		Dianthus carthuianorum				
		Inula conyzae				
		Inula hirta				
		Koeleria pyramidata				
		Koeleria macrantha				
		Scabiosa columbaria				
		Scabiosa ochroleuca				

Table A1 (*Continued*)

Citation	DOI	Focal species	Local-foreign contrast	Biotic influence contrast	Fitness contrasts in abiotic/biotic environments	Metasynthesis
		Silene nutans				
		Silene otites				
Wendling and Wegner 2015	https://doi.org/10.1098/rspb.2014.2244	*Crassostrea gigas*	Y*		Y	Y
Yang et al. 2016	https://doi.org/10.1007/s00572-016-0701-8	*Fragaria nubicola*				Y
		Trollius ranunculoides				
		Tibetia himalaica				
		Geranium sibiricum				
		Poa crymophila				
		Phloomis younghusbandii				

Note: For the local-foreign contrasts, asterisks indicate that the study was conducted in the exotic range of the focal species.