Table A1. A list of studies assessing the spatial scale of pathogen local adaptation. Evidence for local (mal)adaptation in one of the measured traits is taken in classification:'+' = pathogen locally adapted; '–' parasite locally maladapted; '()' = adaptation only in some cases; 'NS' = no significant adaptation or maladaptation.

Reference	Species	Spatial unit	Replication (Host / Pathogen)	Experiment	trait measured	Pathogen local adaptation
Altizer 2001	*Danaus plexippus* (monarch butterfly) ~ *Ophryocystis elektroscirrha* (neogragarine protozoan parasite)	population	3	inoculations	aggressiveness	NS
Bevan, Crute & Clarke 1993b	*Senecio vulgaris* (groundsel) ~ *Erysiphe fischeri* (powdery mildew fungus)	population	2	inoculations	infectivity / aggressiveness	NS*
Capelle & Neema 2005	*Phaseolus vulgaris* (Common bean) ~ *Colletotrichum lindemuthianum* (fungal pathogen)	individual	12	inoculations	infectivity / aggressiveness	+
Carius. Little & Ebert 2001	*Daphnia magna* (planktonic crustacean) ~ *Pasteuria ramosa* (bacterial endoparasite)	individual	9 (for each of two populations)	inoculations	infectivity	+
Carlsson-Granér 1997	*Silene dioica* (red campion) – *Microbotryum violaceum* (anther-smut fungus)	population	3	transplanting (host)	infectivity	(+)*
Davelos, Alexander & Slade 1996	*Spartina pectinata* ~ *Puccinia seymouriana* and *Puccinia sparganioides* (rust fungi)	population	5	transplanting (host)	infectivity / aggressiveness	NS
Ebert 1994	*Daphnia magna* (planktonic crustacean) ~ *Glugoides intestinalis* (microsporidium)	population	9/3	inoculations	aggressiveness	+
Ebert, Zschokke-Rohringer & Carius 1998	*Daphnia magna* (planktonic crustacean) ~ *Pasteuria ramosa* (bacterial endoparasite)	population	4	inoculations	infectivity / aggressiveness	NS
Ennos & McConnell 1995	*Pinus sylvestris* (Scots pine) ~ *Crumenulopsis sororia* (fungal canker)	population	3	transplanting (pathogen)	relative performance of strains in mixed inocula	NS
Ericson, Burdon & Müller 2002	*Filipendula ulmaria* (meadowsweet) ~ *Triphragmium ulmariae* (rust fungus)	population	6/4	inoculation	infectivity / aggressiveness	NS

Reference	Species	Spatial unit	Replication (Host / Pathogen)	Experiment	trait measured	Pathogen local adaptation
Ganz & Washburn 2006	*Ochlerotatus sierrensis* (tree hole mosquito) ~ *Lambornella clarki* (protozoan parasite)	population	4/2 and 8/1	inoculations	infectivity / aggressiveness	+
Geffroy *et al.* 1999	*Phaseolus vulgaris* (Common bean) ~ *Colletotrichum lindemuthianum* (fungal pathogen)	region	3	inoculations	infectivity	+
Hatcher, Hogg & Dunn 2005	*Gammarus duebeni* (crustacean) ~ *Nosema granulosis* (microsporidian)	population	4	inoculations	infectivity / aggressiveness	+
Imhoof & Schmid-Hempel	*Bombus terrestris* (bumblebee) ~ *Crithidia bombi* (trypanosome intestinal parasite)	a) region b) population	a) 3, b) 3	inoculations	infectivity / aggressiveness	a) NS, b) NS
Jarosz & Burdon 1991	*Linum marginale* (wild flax) ~ *Melampsora lini* (rust fungus)	population	9	inoculations	infectivity	+*
Kaltz & Shykoff 2002	*Silene latifolia* (white campion) ~ *Microbotryum violaceum* (anther-smut fungus)	population	14	inoculations	aggressiveness	–
Kaltz *et al.* 1999	*Silene latifolia* (white campion) ~ *Microbotryum violaceum* (anther-smut fungus)	population	6/4 and 14/14	inoculations	infectivity / aggressiveness	–
Laine 2005	*Plantago lanceolata* (ribwort plantain) ~ *Podosphaera plantaginis* (fungal pathogen)	population	20/4	inoculations	infectivity / aggressiveness	+
Laine 2008	*Plantago lanceolata* (ribwort plantain) ~ *Podosphaera plantaginis* (fungal pathogen)	population	3	inoculations	infectivity / aggressiveness	+
Meyer, Nelson & Clement 2001	*Bromus tectorum* (cheatgrass) ~ *Ustilago bullata* (head smut fungus)	population	4	inoculations	infectivity	+
Niemi *et al.* 2006	*Salix triandra* (almond willow) ~ *Melampsora amygdalinae* (rust fungus)	population	3	inoculations	infectivity	+
Oppliger, Vernet & Baez 1999	*Gallotia galloti* (Canarian lizard) ~ haemogregarine genus (blood parasite)	population	3	inoculations	aggressiveness	–

Reference	Species	Spatial unit	Replication (Host / Pathogen)	Experiment	trait measured	Pathogen local adaptation
Parker 1985	*Amphicarpaea bracteata* (hog peanut) ~ *Synchytrium decipiens* (fungal pathogen)	population	1	transplanting (host)	infectivity / aggressiveness	+
Parker 1989	*Podophyllum peltatum* (mayapple) ~ *Puccinia podophylli* (rust fungus)	population	6	transplanting (host)	infectivity / aggressiveness	NS
Roslin, Laine & Gripenberg 2007	*Quercus robur* (pedunculate oak) ~ *Erysiphe alphitoides* (oak powdery mildew)	individual	4	inoculations	infectivity	+
Roy 1998	*Arabis holboellii* (rockcress) ~ *Puccinia monoica* and *P. thlaspeos (rust fungi)*	population	3	transplanting (host)	infectivity	–
Sicard *et al.* 2007	*Phaseolus vulgaris* (Common bean) and *P. coccineus* ~ *Colletotrichum lindemuthianum* (fungal pathogen)	population	3/3 and 3/2	inoculations	infectivity / agressiveness	+ (*P. vulgaris*), NS (*P. coccineus*)
Springer 2007	*Hesperolinon californicum* (California dwarf flax) ~ *Melampsora lini* (rust fungus)	population	10	inoculations	infectivity	+
Thrall, Burdon & Bever 2002	*Linum marginale* (wild flax) ~ *Melampsora lini* (rust fungus)	a) region b) population	a) 3 and b) 6	inoculations	infectivity	a) +, b) +
Wennström & Ericson 1994	*Lactuca sibirica* (lettuce) ~ *Puccinia minussensis* (rust fungus)	population	5/1	inoculations	infectivity / agressiveness	+

* As reported by Kaltz & Shykoff 1998