Multiple transmission routes sustain high prevalence of a virulent parasite in a butterfly host

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METADATA

A. Data set files to accompany manuscript DOI: 10.1098/rspb.2019.1630

1. Identity: Adult_data.csv, Adult_spore_transfer.csv, Larva_data.csv, Milkweed.csv.

2. Format: Comma-separated values text files, not compressed.

B. Variable definitions

Table 1. Variable definitions for **Adult_data.csv**

Variable	Definition
stage	life stage at which monarch butterflies were initially collected for sampling; binary column with A (adult) or L (larval) stage
month	numeral month of year of sampling
week	numeral week of field season of sampling
Released	date on which an individual was released back to garden plots following sampling
Sex	sex of individual sampled; binary variable with M (male) and F (female)
OE.Y.N	infection status of the sampled individual; binary variable with 0 (healthy) or 1 (infected)
Animal ID	unique identifier for each individual

Table 2. Variable definitions for **Larva _data.csv**

Variable	Definition
Month	numeral month of year of sampling
week	numeral week of field season of sampling
Collected date	date on which individual was collected for sampling
Sex	sex of individual sampled; binary variable with M (male) and F (female)
OE Y/N	infection status of the sampled individual; binary variable with 0 (healthy) or 1 (infected)
Animal ID	unique identifier for each individual

Table 3. Variable definitions for **Adult_spore_transfer.csv**

Variable	Definition
Animal ID	unique identifier for each individual
Released	date of initial release into garden plots
month	numeral month of year of initial sampling
Sex	sex of individual sampled; binary variable with M (male) and F (female)
OE0	initial infection status at first release; binary variable with 0 (healthy) or 1 (infected)
spore0	initial spore count at first release
OE1	infection status at recapture; binary variable with 0 (healthy) or 1 (infected)
spore1	spore count at recapture
time since release	number of days from release date to recapture

got spores	binary variable indicating whether animal acquired spores since initial release date
Recaptured 1	date of recapture
weekRecap	week of field season the animal was recaptured
spores acquired	count of spores acquired since release (spore1 – spore0)

Table 4. Variable definitions for **Milkweed.csv**

Variable	Definition
Start date	date of milkweed stalk collection and initialization of experimental group
week sampled	week of season milkweed plants were sampled
Month	numeral month of year of milkweed sampling
Plot	unique garden plot number from which milkweed stalks were collected
Animal ID	unique identifier for each individual animal used in the experiment
Lineage	letter indicating parental lineage of caterpillars used for the experiment
infection status	infection status of the sampled individual; binary variable with 0 (healthy), 1 (infected) or 'NA' in cases where caterpillar failed to reach adulthood
Notes	Any pertinent observations or notes regarding individual animals used in the experiment