

Supporting information

Tables

Table S1. Sampling sites of parasitoids associated with the *Yucca - Tegeticula* system in the Baja California Peninsula. The site name, longitude, and latitude are provided, along with the associated moth and plant species, the ecoregion of distribution, the number of individuals sampled per locality (N), and the identified parasitoid wasp genus.

Site ID	Longitude	Latitude	Tegeticula	Yucca	Ecoregion	N	Genera
DgL020	-116,3844	32,5819	<i>mojavella</i>	<i>schidigera</i>	Sierra Juarez	6	<i>Digonogastra</i>
DgL021	-116,3083	32,5161	<i>mojavella</i>	<i>schidigera</i>	Sierra Juarez	2	<i>Digonogastra</i>
DgL065	-116,1174	32,4103	<i>mojavella</i>	<i>schidigera</i>	Sierra Juarez	2	<i>Digonogastra</i>
DgL063	-116,1169	32,4099	<i>mojavella</i>	<i>schidigera</i>	Sierra Juarez	1	<i>Digonogastra</i>
DgL053	-116,0925	31,9135	<i>mojavella</i>	<i>schidigera</i>	Sierra Juarez	2	<i>Digonogastra</i>
DgL059	-116,1797	31,9029	<i>mojavella</i>	<i>schidigera</i>	Sierra Juarez	1	<i>Digonogastra</i>
DgL056	-115,614	31,2088	<i>mojavella</i>	<i>schidigera</i>	Sierra SPM	3	<i>Digonogastra</i>
DgL057	-115,651	31,1636	<i>mojavella</i>	<i>schidigera</i>	Sierra SPM	10	<i>Digonogastra</i>
DgL061	-115,7624	31,0412	<i>mojavella</i>	<i>schidigera</i>	Sierra SPM	8	<i>Digonogastra</i>
DgL062	-115,5978	30,9669	<i>mojavella</i>	<i>schidigera</i>	Sierra SPM	5	<i>Digonogastra</i>
DgL084	-115,2115	30,2124	<i>mojavella</i>	<i>schidigera</i>	Chaparral	7	<i>Digonogastra</i>
DgL083	-115,2207	30,1967	<i>mojavella</i>	<i>schidigera</i>	Chaparral	10	<i>Digonogastra</i>
DgL016	-114,1682	29,2520	<i>baja</i>	<i>valida</i>	Central Desert	1	<i>Digonogastra</i>
DgL015	-114,1496	29,1175	<i>baja</i>	<i>valida</i>	Central Desert	2	<i>Digonogastra</i>
DgL026	-114,0085	29,0586	<i>baja</i>	<i>valida</i>	Central Desert	4	<i>Digonogastra</i>
DgL105	114,1252	28,8370	<i>baja</i>	<i>valida</i>	Central Desert	5	<i>Digonogastra</i>
DgL104	114,0316	28,6586	<i>baja</i>	<i>valida</i>	Central Desert	4	<i>Digonogastra</i>
DgL041	-113,1831	28,2237	<i>baja</i>	<i>valida</i>	Central Desert	2	<i>Digonogastra</i>
DgL014	-114,0006	28,2081	<i>baja</i>	<i>valida</i>	Central Desert	4	<i>Digonogastra</i>
DgL002	-113,4869	27,6346	<i>baja</i>	<i>valida</i>	Central Desert	2	<i>Digonogastra</i>
DgL040	-113,3097	27,5291	<i>baja</i>	<i>valida</i>	Central Desert	2	<i>Digonogastra</i>
DgL060	-112,78	27,3328	<i>baja</i>	<i>valida</i>	Central Desert	7	<i>Bassus</i>
DgL006	-113,2103	27,2459	<i>baja</i>	<i>valida</i>	Central Desert	1	<i>Digonogastra</i>
DgL071	-110,9756	24,1595	<i>baja</i>	<i>valida x capensis</i>	Magdalena Plains	1	<i>Digonogastra</i>
DgL072	-110,9807	24,1136	<i>baja</i>	<i>valida x capensis</i>	Magdalena Plains	4	<i>Digonogastra</i>
DgL089	-110,6328	24,0456	<i>baja</i>	<i>valida x capensis</i>	Magdalena Plains	7	<i>Digonogastra</i>
DgL087	-110,7799	24,0266	<i>baja</i>	<i>valida x capensis</i>	Magdalena Plains	1	<i>Digonogastra</i>
DgL088	-110,9100	24,0097	<i>baja</i>	<i>valida x capensis</i>	Magdalena Plains	3	<i>Digonogastra</i>

DgL077	-110,5894	24,0073	<i>baja</i>	<i>valida x capensis</i>	Magdalena Plains	2	<i>Digonogastra</i>
DgL075	-110,8543	24,0000	<i>baja</i>	<i>valida x capensis</i>	Magdalena Plains	2	<i>Digonogastra</i>
DgL092	-110,7397	23,8801	<i>baja</i>	<i>valida x capensis</i>	Magdalena Plains	2	<i>Digonogastra</i>
DgLCap	-110,0184	23,7223	<i>baja</i>	<i>Y. capensis</i>	Cape Region	1	<i>Digonogastra</i>
DgLDic	-110,0184	23,7223	<i>baja</i>	<i>Y. capensis</i>	Cape Region	3	<i>Digono / Bassus</i>
DgL28B	-109,9945	23,7057	<i>baja</i>	<i>Y. capensis</i>	Cape Region	1	<i>Digonogastra</i>
DgL110	-110,1133	23,3865	<i>baja</i>	<i>Y. capensis</i>	Cape Region	1	<i>Digonogastra</i>

Figures

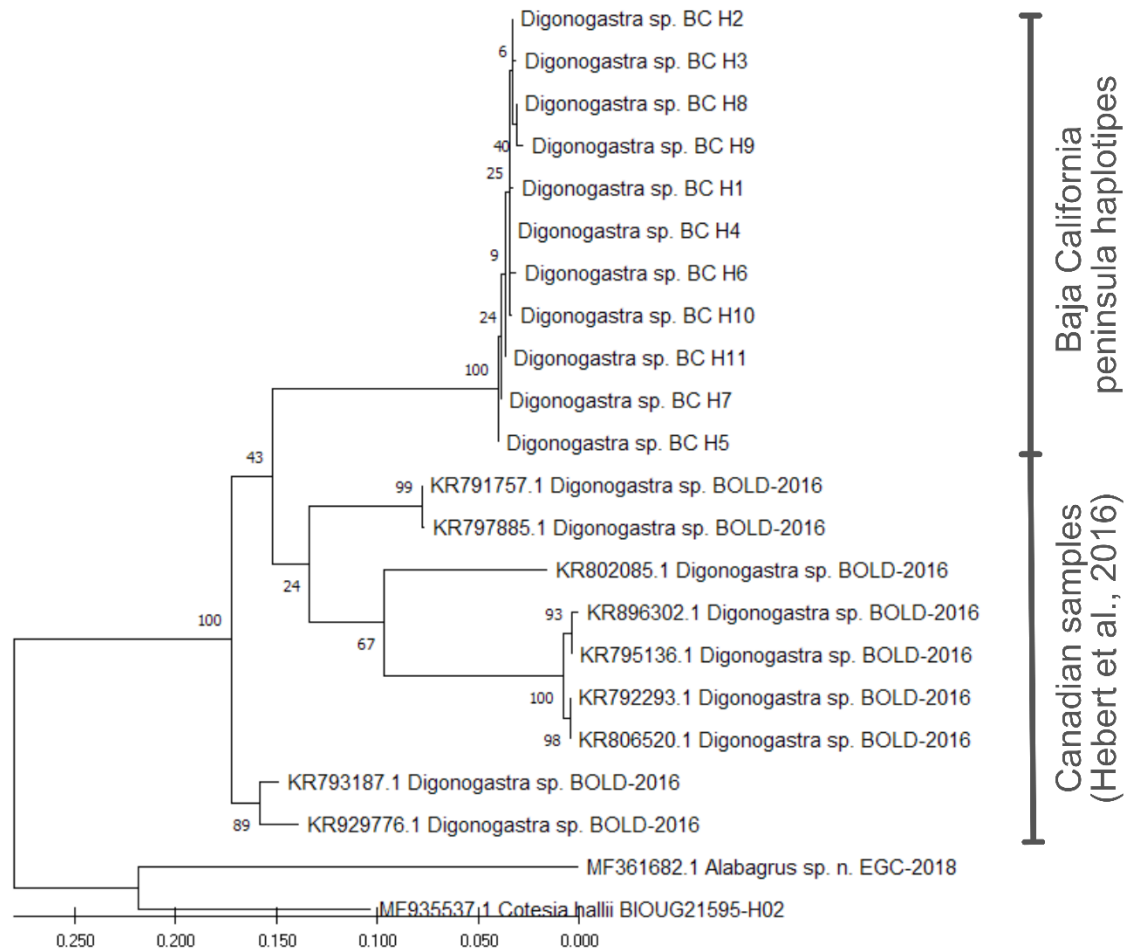


Figure S1. Phylogenetic tree of *Digonogastra* spp. with haplotypes from the Baja California Peninsula and records from Canada (Hebert et al., 2016). The Maximum Likelihood method,

with 1000 bootstrap repetitions and the HKY+I substitution model (highest AIC value), was used for its construction. The genera *Alabagrus* (Sharkey & Chapman, Unpublished; GenBank: MF361682.1) and *Cotesia* (Hebert et al., 2016) were used as outgroups.

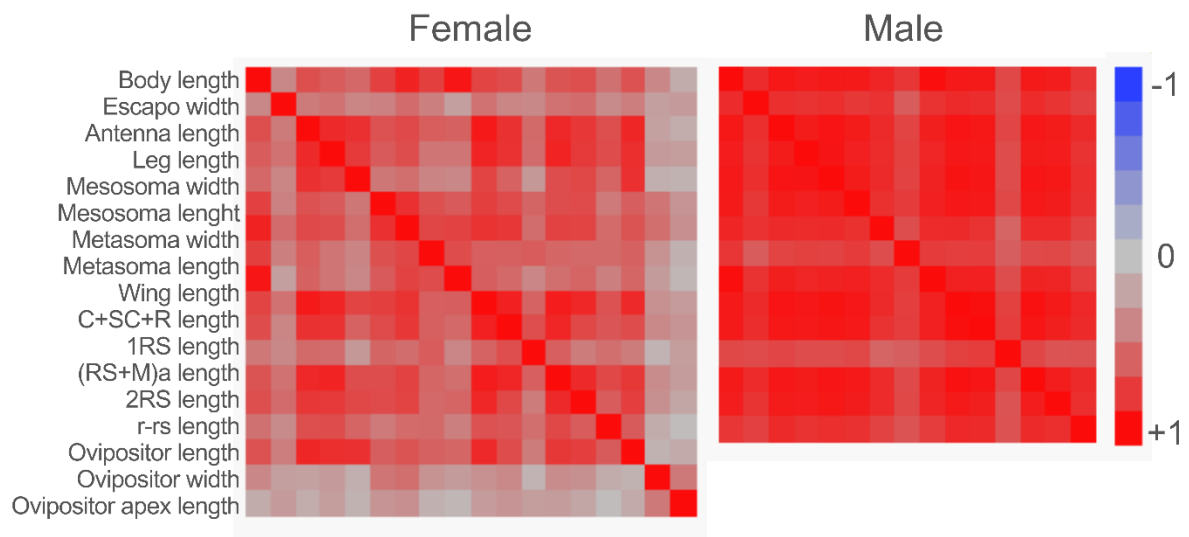


Figure S2. Correlation Heat Map of the 18 morphometric traits evaluated for females and males of *Digonogastra sp.* from the Baja California Peninsula.