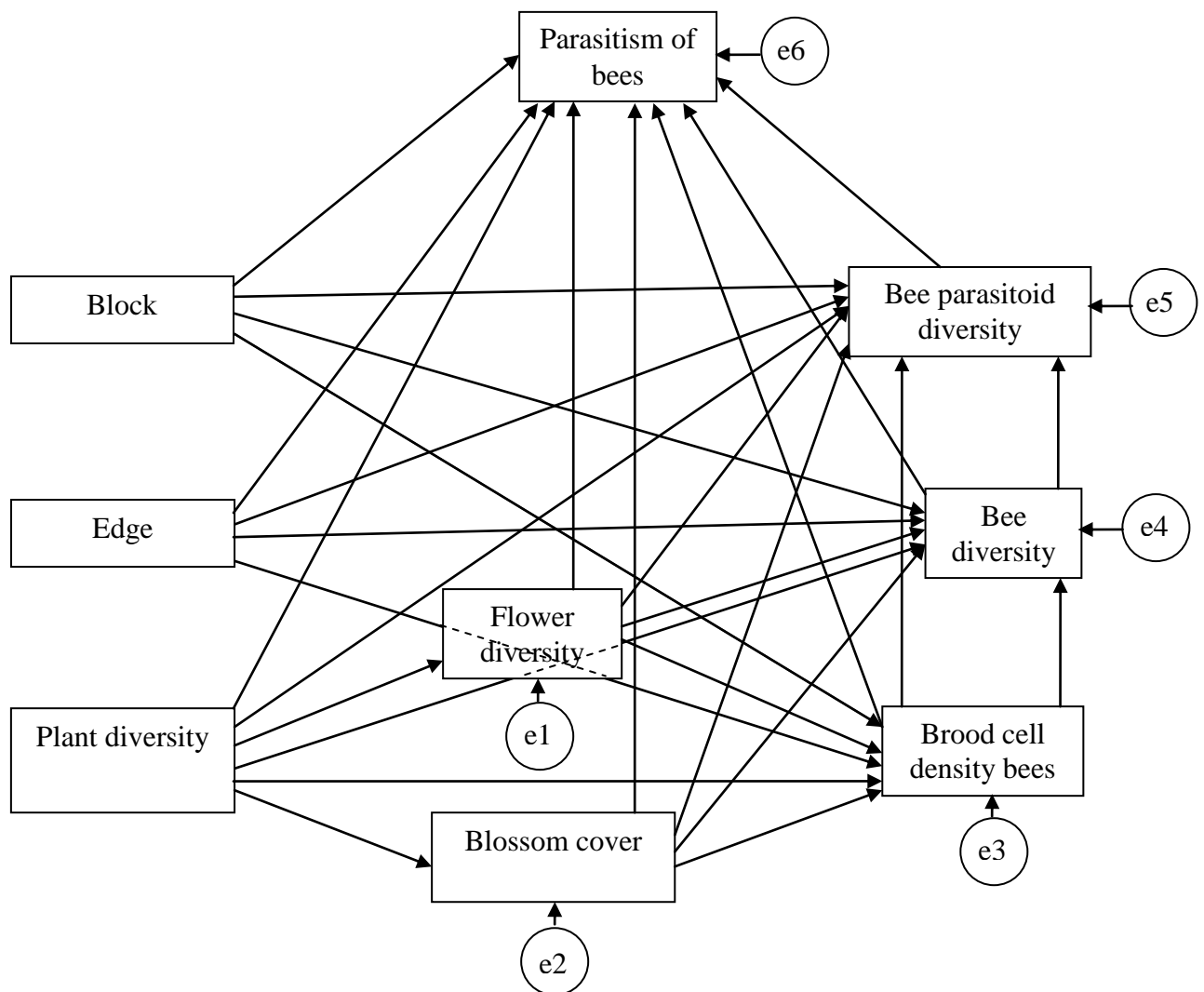


ESM 1. Detailed information about the original and final models for effects of plant and flower diversity on cavity-nesting bees, their parasitoids and parasitism rate

Initial model for effects on cavity nesting bees, their parasitoids and parasitism rate

Parameters	Cmin	DF	P	AIC	BCC
46	18.05	8	0.021	110.05	123.78



Final model for effects on cavity nesting bees, their parasitoids and parasitism rate (Fig. 4 A)

Parameters	Cmin	DF	P	AIC	BCC
18	17.25	9	0.611	43.25	46.85

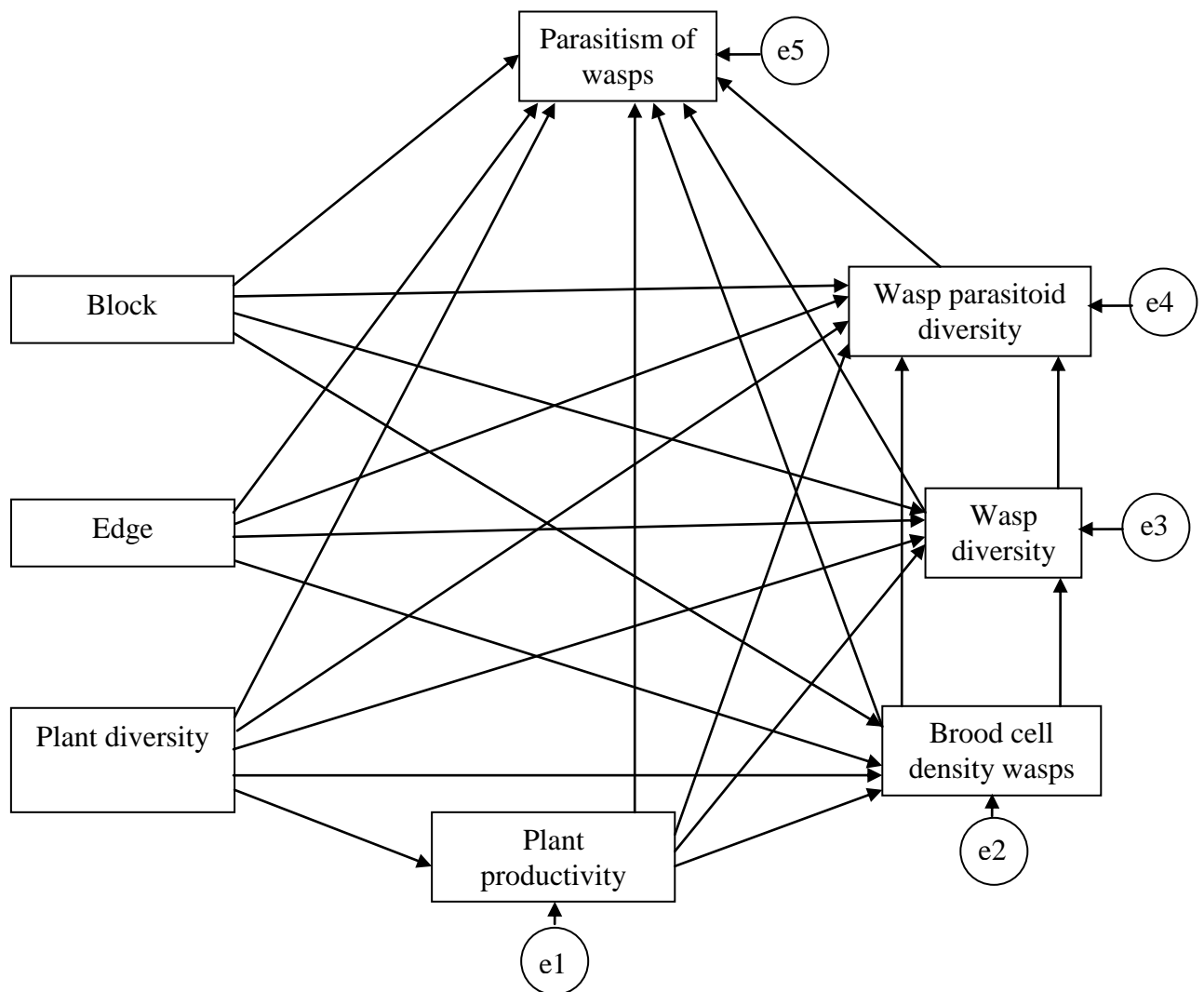
Final model: Standardized direct and indirect effects of plant and flower diversity on cavity-nesting bees, their parasitoids and parasitism rate

	Plant diversity		Flower diversity		Brood cells density bees		Bee diversity		Bee parasitoid diversity	
	<i>direct</i>	<i>indirect</i>	<i>direct</i>	<i>indirect</i>	<i>direct</i>	<i>indirect</i>	<i>direct</i>	<i>indirect</i>	<i>direct</i>	<i>indirect</i>
Flower diversity	0.80	0	-	-	-	-	-	-	-	-
Brood cells density bees	0	0.26	0.33	0	-	-	-	-	-	-
Bee diversity	0	0.19	0	0.23	0.72	0	-	-	-	-
Bee parasitoid diversity	0	0.13	0	0.17	0.51	0	0	0	-	-
Parasitism bees	0	-0.01	0	-0.01	-0.47	0.46	0	0	0.90	0

ESM 2. Detailed information about the original and final models for effects of plant diversity on cavity-nesting wasps, their parasitoids and parasitism rate

Initial model for effects on cavity nesting wasps, their parasitoids and parasitism rate

Parameters	Cmin	DF	P	AIC	BCC
35	1.94	5	0.857	79.94	90.27



Final model (Fig. 4 B)

Parameters	Cmin	DF	P	AIC	BCC
25	8.87	10	0.554	58.77	64.57

Final model: Standardized direct and indirect effects of plant diversity on cavity-nesting wasps, their parasitoids and parasitism rate

	Block		Edge		Plant diversity		Brood cells density wasps		Wasp diversity		Wasp parasitoid diversity	
	<i>direct</i>	<i>indirect</i>	<i>direct</i>	<i>indirect</i>	<i>direct</i>	<i>indirect</i>	<i>direct</i>	<i>indirect</i>	<i>direct</i>	<i>indirect</i>	<i>direct</i>	<i>indirect</i>
Brood cells density wasps	-0.46	0	0.26	0	0	0	-	-	-	-	-	-
Wasp diversity	0	-0.28	0.47	0.15	0.18	0	0.56	0	-	-	-	-
Wasp parasitoid diversity	0	-0.33	0	0.28	0	0.06	0.55	0.19	0.34	0	-	-
Parasitism wasps	0.26	-0.29	0	0.10	0	-0.04	0.44	0.17	-0.39	0.18	0.54	0

ESM 3. Bee species, their respective number of all occupied brood cells, and the natural enemy species and parasitism rates found in 2005/2006.

Subfamily	Genus	Species	Brood cells	Parasitised brood cells %	Natural enemy species
Megachilinae	<i>Osmia</i>	<i>rufa</i>	232	3.0	<i>Melittobia acasta</i> , <i>Cacoxenus indagator</i> , <i>Megatoma undata</i>
		<i>brevicornis</i>	184	1.1	<i>Cacoxenus indagator</i>
		<i>leaiana</i>	80	8.7	<i>Melittobia acasta</i> , <i>Megatoma undata</i>
		<i>adunca</i>	10	0.0	
		<i>caerulescens</i>	115	5.2	<i>Sapyga quinquepunctata</i>
		<i>parietana</i>	8	0.0	
		<i>fulviventris</i>	31	0.0	
		<i>cf tuberculata</i>	6	0.0	
		spp.	192	10.4	<i>Melittobia acasta</i> , <i>Megatoma undata</i> , <i>Sapyga quinquepunctata</i>
	<i>Chelostoma</i>	<i>rapunculi</i>	146	6.1	Ichneumonidae Gen sp. 1, <i>Melittobia acasta</i> , <i>Gasteruption</i> sp. 1
		<i>florisomne</i>	81	0.0	
		<i>distinctum</i>	410	3.9	<i>Gasteruption</i> sp. 1, Ichneumonidae Gen sp. 1, <i>Melittobia acasta</i>
		<i>campanularum</i>	9	11.1	<i>Melittobia acasta</i>
		spp.	182	9.9	Ichneumonidae Gen sp. 1, <i>Melittobia acasta</i>
	<i>Megachile</i>	<i>centuncularis</i>	46	0.0	
		spp.	16	12.5	Unidentified species
	<i>Heriades</i>	<i>truncorum</i>	63	9.5	Ichneumonidae Gen sp. 1, <i>Melittobia acasta</i>
		spp.	19	5.3	
	Colletinae	<i>Anthidium</i>	<i>lituratum</i>	52	11.5
<i>Hylaeus</i>		<i>communis</i>	100	5.0	<i>Gasteruption</i> sp. 1
		<i>confusus</i>	11	9.1	<i>Gasteruption</i> sp. 1
		<i>annulatus</i>	47	0.0	
		<i>angustatus</i>	2	50.0	<i>Gasteruption</i> sp. 1
		<i>difformis</i>	27	0.0	
		<i>cf punctulatissimus</i>	7	0.0	
		<i>cf lineolatus</i>	1	0.0	
		sp.1	3	0.0	
		spp.	438	27.9	<i>Gasteruption</i> sp. 1, Ichneumonidae Gen sp. 1, <i>M. acasta</i> , <i>Trichodes apiarius</i>

ESM 4. Wasp species, their respective number of all occupied brood cells, and the natural enemy species and parasitism rates found in 2005/2006.

Family	Genus	Species	Brood cells	Parasitised brood cells %	Natural enemies	
Sphecidae	<i>Trypoxylon</i>	<i>figulus</i>	2552	17.9	<i>Chrysis cyanea</i> , Ichneumonidae Gen. sp.1, <i>Megatoma undata</i> , <i>Melittobia acasta</i>	
		<i>clavicerum</i>	59	1.7	<i>Chrysis cyanea</i>	
		<i>minus</i>	44	15.9	<i>Chrysis cyanea</i> , <i>Melittobia acasta</i>	
		spp.	883	51.4	<i>Chrysis cyanea</i> , <i>Megatoma undata</i> , <i>Melittobia acasta</i> , <i>Chrysis ignita</i>	
	<i>Passaloecus</i>	<i>insignis</i>	4	0.0		
		<i>gracilis</i>	156	9.6	<i>Omalus auratus</i> , <i>Melittobia acasta</i>	
		<i>eremita</i>	2	0.0		
		<i>corniger</i>	7	14.3	<i>Melittobia acasta</i>	
		spp.	124	15.3	<i>Omalus auratus</i> , <i>Melittobia acasta</i>	
		<i>Spilomena troglodytes</i>	419	1.4	<i>Omalus auratus</i> , <i>Melittobia acasta</i> , <i>Megatoma undata</i>	
	<i>Nitela borealis</i>	1	0.0			
	<i>Pemphredon morio</i>	4	25.0	<i>Chrysis cyanea</i>		
	Eumenidae	<i>Ancistrocerus</i>	<i>claripennis</i>	7	0.0	
			<i>parietum</i>	3	66.7	<i>Chrysis ignita</i>
<i>gazella</i>			90	13.3	<i>Chrysis ignita</i> , <i>Gasteruption</i> sp. 1, <i>Melittobia acasta</i>	
<i>nigricornis</i>			13	38.5	<i>Chrysis</i> sp. 1	
spp.		4	0.0			
spp.		105	27.6	<i>Melittobia acasta</i> , <i>Chrysis</i> sp. 1, <i>Gasteruption</i> sp. 1, Ichneumonidae Gen. sp. 1		
<i>Symmorphus</i>		<i>gracilis</i>	5	0.0		
		<i>bifasciatus</i>	10	0.0		
<i>Gymnomerus laevipes</i>		5	0.0			
Pompilidae		<i>Dipogon</i>	<i>bifasciatus</i>	11	0.0	
	spp.		16	0.0		
Tenthredinidae	Gen.	sp. 1	2	0.0		