

FDIs and Body Size GLM Results

Table 1 All FDis GLM results. No value means that the predictor was not included in the best model, which was based on AIC_c values. Light grey indicates a significantly positive association, and darker grey indicates a significantly negative association

Trait	<i>Flower Density</i>			<i>Flower Richness</i>			<i>Relative Apis</i>			<i>Imp.Surface.1000</i>			<i>Imp.Surface.500</i>		
	Res. Dev	t	Est.	Res. Dev	t	Est.	Res. Dev	t	Est.	Res. Dev	t	Est.	Res. Dev	t	Est.
Body Size										.0069715	1.316	0.11674			
Diet							0.035605	-2.772	-0.4109*	0.018308	-2.572	-0.4206*			
Sociality							0.015389	-1.682	-0.20085 ^N						
Seasonality	0.004712	8.287	0.0003741***	0.0002754	2-8.933	-0.03937***	0.0163155	-8.768	-0.194*	0.0052805	-5.414	-0.1805***			
Type of nesting	0.018281	2.379	0.005629*							0.033067	-2.376	-0.4064522			
Tongue Length							0.013168	-2.024	-0.22352*						
Nest Building										0.060023	1.351	0.3515			
Pollen Strategy							0.023664	-1.012	-0.14981						
All Traits							0.003435	-2.523	-0.14233*						

Significance levels: ^N near significant, $p = \text{between } 0.05 \text{ and } 0.1$, * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$.

Table 2 All body size GLM results. F is for female, M is for Male, T is for thorax, and H is for head. No value means that the predictor was not included in the best model, which was based on AIC_c values. Light grey indicates a significantly positive association, and darker grey indicates a significantly negative association

Species	F/ M	T/ H	Flower Density			Flower Diversity			Relative Apis			Imp.Surface.1000			Imp.Surface.500		
			Res. Dev	t	Est.	Res. Dev	t	Est.	Res. Dev	t	Est.	Res. Dev	t	Est.	Res. Dev	t	Est.
<i>Agapostemon virescens</i>	F	T				4.98 8	1.20 2	-0.073	4.982	1.004	0.208	4.93 7	0.920	1.405	4.914	-0.692	-0.515
<i>Agapostemon virescens</i>	F	H				1.62 8	2.25 1	-0.077	1.628	1.190	0.139	1.60 5	1.731	1.495	1.573	-1.461	-0.615
<i>Agapostemon virescens</i>	M	T										10.3 59	3.698	5.672*	9.694	-2.645	-3.133 ^N
<i>Agapostemon virescens</i>	M	H										4.24 8	3.618	3.562*	3.954	-2.741	-2.084 ^N
<i>Andrena imitatrix</i>	M	T	4.334	3.68 4	-0.002*	4.06 6	2.26 3	0.092	3.985	1.137	0.278						
<i>Andrena imitatrix</i>	M	H	3.296	3.92 1	-0.003 ^N	2.98 4	2.74 7	0.150 ^N				2.87 4	0.978	1.255	2.765	-1.500	-1.075
<i>Andrena nasonii</i>	F	T										4.11 5	-3.149	-0.523	3.964	3.421	0.356* [*]
<i>Andrena nasonii</i>	F	H	2.171	1.90 2	-0.001*				2.154	-1.289	-0.066	2.13 9	-0.429	-0.100	2.134	0.803	0.106
<i>Anthidium oblongatum</i>	F	T				5.43 9	2.53 6	0.158 ^N				5.43 5	-1.485	-1.538	5.321	1.508	0.672
<i>Anthidium oblongatum</i>	F	H				2.66 0	1.67 2	0.040							2.638	0.946	0.125
<i>Anthidium oblongatum</i>	M	T	14.062	1.75 4	0.001										13.955	-0.932	-0.306
<i>Anthidium oblongatum</i>	M	H	7.186	2.15 9	0.001 ^N							7.18 6	0.861	0.475	7.056	-1.443	-0.440
<i>Augochlorella aurata</i>	F	T	2.692	0.65 1	0.001				2.576	0.430	0.205 ^N	2.53 9	2.639	0.900	2.442	-2.265	-0.671 ^N
<i>Augochlorella aurata</i>	F	H	1.016	4.34 0	-0.001				0.896	-5.246	-0.780*	0.83 7	3.026	0.387*			
<i>Bombus bimaculatus</i>	F	T				7.09 2	0.15 0	-0.006	7.075	0.368	0.159						
<i>Bombus bimaculatus</i>	F	H	2.405	1.36 4	0.001	2.35 6	1.08 6	-0.033									
<i>Bombus griseocollis</i>	F	T	28.389	3.57 2	0.004 ^N	23.2 98	1.77 7	0.203*				23.2 97	2.247	2.918	19.848	-3.681	-2.151* [*]

<i>Bombus griseocollis</i>	F	H	9.191	3.146	0.003 ^N	7.876	1.669	0.111*				7.865	2.459	1.859	6.719	-3.648	-1.240*
<i>Bombus griseocollis</i>	M	T				9.796	1.803	0.059	8.964	2.567	1.669 ^N						
<i>Bombus griseocollis</i>	M	H				3.091	2.368	0.044	2.956	1.803	0.673						
<i>Bombus impatiens</i>	F	T	167.560	2.090	0.001	148.340	2.588	0.122**	147.790	0.905	0.211				146.110	-2.486	-0.494 ^N
<i>Bombus impatiens</i>	F	H	70.499	1.811	0.001	62.477	2.481	0.076**	61.937	1.663	0.2513				61.261	-2.432	-0.313 ^N
<i>Bombus impatiens</i>	M	T	6.499	1.212	-0.001							6.490	1.278	2.168	6.375	-1.236	-1.161
<i>Bombus impatiens</i>	M	H	3.289	1.874	-0.001	3.280	1.572	-0.070				3.274	3.068	4.281	2.915	-3.214	-2.304*
<i>Bombus rufocinctus</i>	F	T	63.764	2.296	0.001				63.008	2.052	0.480						
<i>Bombus rufocinctus</i>	F	H	23.212	1.625	0.000				22.866	2.305	0.325 ^N						
<i>Bombus rufocinctus</i>	M	T							28.694	3.599	1.879*	28.495	2.081	2.751	27.907	-1.909	-1.580
<i>Bombus rufocinctus</i>	M	H							7.116	2.271	0.594 ^N	7.036	1.171	0.775	7.001	-0.928	-0.384
<i>Halictus confusus</i>	F	T										4.703	1.009	0.252	4.698	-0.489	-0.077
<i>Halictus confusus</i>	F	H	3.595	1.468	0.000				3.594	0.561	0.053	3.588	1.425	0.466	3.559	-1.294	-0.233
<i>Halictus confusus</i>	M	T				1.814	0.429	0.017				1.809	0.619	0.415	1.793	-0.864	0.415
<i>Halictus confusus</i>	M	H				0.800	1.449	0.036	0.794	0.923	0.133	0.791	-0.504	-0.083			
<i>Halictus ligatus</i>	F	T	8.902	1.278	0.000	8.769	1.093	-0.028	8.698	1.088	0.227	8.697	-0.808	-0.546	8.658	0.891	0.310
<i>Halictus ligatus</i>	F	H	9.834	1.172	0.000	9.735	1.488	-0.036							9.702	0.773	0.084
<i>Lasioglossum leucozonium</i>	F	T				2.758	1.137	0.07164	2.5242	1.148	0.65123				2.4666	0.851	0.26931
<i>Lasioglossum leucozonium</i>	F	H	1.3274	1.721	0.002397	1.3232	1.616	0.138732				1.3026	-1.336	0.928261	1.1000	2.350	1.121129 ^N
<i>Megachile rotundata</i>	F	T	6.111	2.457	0.002 ^N							5.790	1.793	1.002			
<i>Megachile rotundata</i>	F	H	3.007	1.623	0.001 ^N				2.930	0.317	0.108	2.781	1.748	0.768			
<i>Megachile rotundata</i>	M	T				3.771	1.725	0.112	3.618	2.270	0.895	3.420	-1.847	-0.816			
<i>Megachile rotundata</i>	M	H							2.517	1.653	0.386	2.424	-1.521	-0.382			
<i>Nomada bethunei</i>	F	T	7.146	1.763	0.004	7.026	2.157	-0.452	6.376	-2.125	0.917 ^N	2.317	2.167	5.779 ^N			

<i>Nomada bethunei</i>	F	H	5.154	1.76 1	0.003 ^N	5.02 7	2.25 0	-0.394	4.666	-1.799	-0.649	4.03 0	2.864	2.237*			
<i>Osmia conjuncta</i>	F	T							2.0522	-0.815	0.5289	2.01 66	-0.890	-0.7420	1.9752	0.949	0.4170
<i>Osmia conjuncta</i>	F	H	1.2565	1.50 4	0.0015 52	1.21 88	1.90 5	0.1667 89							1.1511	1.590	0.4926 86
<i>Xylocopa virginica</i>	F	T	20.41	0.60 2	-0.001	20.1 11	0.97 3	-0.053	19.804	-1.331	-1.123						
<i>Xylocopa virginica</i>	F	H	10.658	1.68 4	-0.001				10.312	-1.965	-1.160						

Significance levels: ^N near significant, p = between 0.05 and 0.1, *p < 0.05, **p < 0.01, ***p < 0.001

