

**Supplementary material**

## Appendix 1

**Table A1:** AICc of the different models tested.

Models	Anti-KLH	Body mass	Tarsus size	Wing size
Age + Sex + MatAb + Food + Food*MatAb + MAtAb*Age + Food*Age + Food*Age*MAtAb	1369.7	<b>5269.0</b>	1813.3	<b>4281.1</b>
Age + Sex + MatAb + Food + Food*MatAb + MAtAb*Age + Food*Age	1371.6	5301.7	1813.8	4305.3
Age + Sex + MatAb + Food + Food*MatAb + Food*Age	1381.1	532600	1810.8	4321.9
Age + Sex + MatAb + Food + MAtAb*Age + Food*Age	1370.3	5312.9	1815.4	4310.3
Age + Sex + MatAb + Food + Food*MatAb + MAtAb*Age	1362.9	5327.6	1808.6	4324.9
Age + Sex + MatAb + Food + MAtAb*Age	<b>1361.7</b>	5338.7	1810.2	4329.9
Age + Sex + MatAb + Food + Food*Age	1379.9	5337.1	1812.5	4326.9
Age + Sex + MatAb + Food + Food*MatAb	1372.2	5351.5	<b>1805.4</b>	4342.3
Age + Sex + MatAb + Food	1371.0	5362.7	1807.0	4347.3