

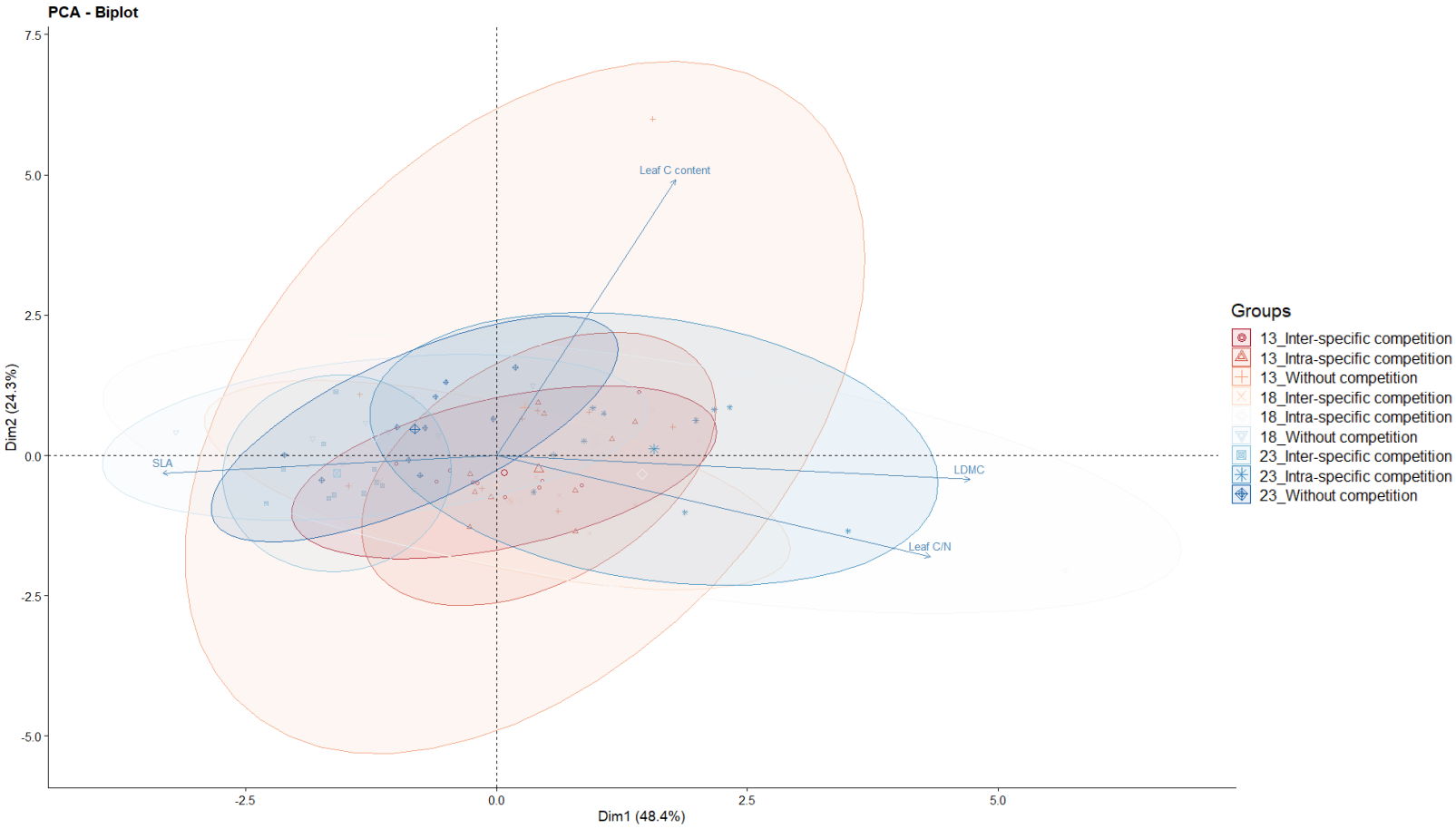
Appendix A.1. Locations (red points) of the sampling sites on the French sub-Antarctic Iles Kerguelen (48°30–50°S, 68°27–70°35E). Red points indicate locations where seeds and ramets were collected; violet points indicate locations where only seeds were collected. Pond habitats are only present along the coast of the Kerguelen archipelago. Sampling locations were chosen to display similar climatic conditions, but also to be the most widely distributed to maximize the genetic variability of individuals. Black point: technical and scientific station.

Appendix B.1. Eigenvector scores for the first axis of a principal component analysis (PCA) of leaf traits. The highest eigenvector scores are indicated in bold. The variance accounted for by the axes is indicated in brackets.

Leaf traits	PCA Axis 1 (48.4%)	PCA Axis 2 (24.3%)
LCC	0.33	0.92
Leaf C:N	0.80	-0.05
SLA	-0.62	-0.08
LDMC	0.88	-0.33

LCC, Leaf Carbon Content; SLA, Specific Leaf Area ; LDMC, Leaf Dry Matter Content.

Appendix C.1. PCA results for the four leaf traits and temperature x plant–plant interaction. Ellipse centroids are indicated by larger points; their coordinates on PCA axis 1 were used as proxies for the nine litter qualities.



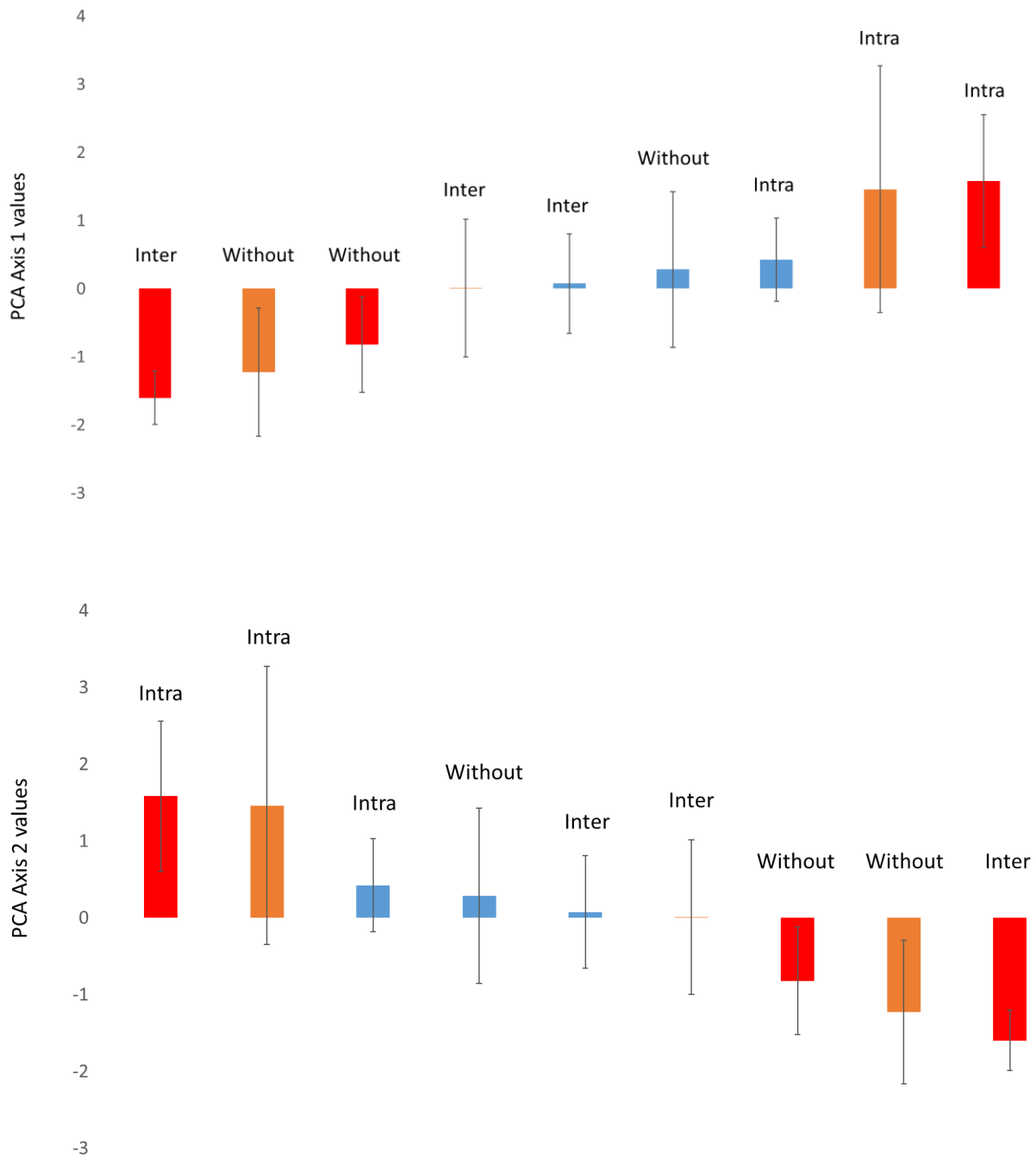
Appendix D.1. ANOVA results indicating significant differences among temperature × plant–plant interaction treatments in litter characteristics (as depicted by the first two axes of a PCA based on leaf trait values).

	n	F	d.f.
PCA Axis 1	88	13.11***	8

	n	F	d.f.
PCA Axis 2	88	2.46*	8

* $p < 0.05$, *** $p < 0.001$.

Appendix E.1. Mean characteristics (\pm SD) of the litters produced from the nine temperature \times plant–plant interaction treatments, as depicted by PCA axes 1 and 2. PCA axis 1 values were related positively to the leaf C:N ratio and LDMC and negatively to the SLA. PCA axis 2 values were related positively to the LCC. Blue, orange, and red bars indicate litter produced from plants cultivated at 13°C, 18°C, and 23°C, respectively. Without, no interaction; Intra, intraspecific interaction; Inter, interspecific interaction.



Appendix F.1. Decay rates as functions of the leaf carbon content (PCA axis 2). Values in bold differ significantly from zero.

	Intercept	Slope
<i>k</i>		
Axis2 [13°C]	0.161 ***	0.044 **
Axis2 [18°C]	0.291 **	0.020 ^{n.s.}
Axis2 [23°C]	0.153 ***	-0.032 *

* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$; ns, not significant.