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Corrigendum: Development of a polyphagous leaf beetle on different host plant species and its detoxification of glucosinolates

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A corrigendum on
Development of a polyphagous leaf beetle on different host plant species and its detoxification of glucosinolates

by Friedrichs, J., Schweiger, R., Geisler, S., Neumann, J. M., Sadzik, S. J. M., Niehaus, K., and Müller, C. (2022). *Front. Ecol. Evol.* 10:960850. doi: 10.3389/fevo.2022.960850

In the published article, there was an error in Affiliation 2. "CeBiTex" was given as the acronym for the Center for Biotechnology. This should read "CeBiTec."

There was an error in Figure 2A as published. The calculation of the water content was wrong. The corrected Figure 2 and its caption appear below.

Due to the error in the calculation of the water content, some sentences in the text must also be adjusted.

A correction has been made to the **Abstract**. This previously stated:

"Cabbage had the lowest water content, while tansy had the highest water content, C/N ratio and trichome density and the lowest SLA. Lettuce showed the lowest C/N ratio, highest SLA and no trichomes."

The corrected sentence appears below:

"Lettuce had the highest water content and SLA but the lowest C/N ratio and no trichomes. In contrast, tansy had the lowest water content and SLA but the highest C/N ratio and trichome density. Cabbage was intermediate in these traits."

A correction has been made to **Results**, "*Leaf quality traits of the different plant species*," Paragraph 1. This previously stated:

"The water content differed significantly between the leaves of the three host plant species ($X^2 = 38.96$, df = 2, $p < 0.001$), being lowest for cabbage and highest for tansy (Figure 2A)."

The corrected sentence appears below:

"The water content differed significantly between the leaves of the three host plant species ($X^2 = 39.13$, df = 2, $p < 0.001$), being highest for lettuce and lowest for tansy (Figure 2A)."

A correction has been made to **Discussion**, "*Performance of Galeruca tanaceti on mono vs. mixed diets*," Paragraph 2. This previously stated:

"The water content differed between the species, but in all plants it was at least around 90% and can thus be considered as sufficient for herbivores (Scriber and Slansky, 1981)."

The corrected sentence appears below:

"The water content differed between the species, but at least for lettuce and cabbage it was around 90% and can thus be considered as sufficient for herbivores (Scriber and Slansky, 1981)."

A correction has been made to **Discussion**, "*Performance of Galeruca tanaceti on mono vs. mixed diets*," Paragraph 3. This previously stated:

"Although the tansy leaf beetle *G. tanaceti* is named after tansy, on which it can be found in nature, diets containing tansy are surprisingly not very beneficial for this species."

The corrected sentence appears below:

"Although the tansy leaf beetle *G. tanaceti* is named after tansy, on which it can be found in nature, diets containing tansy are surprisingly not very beneficial for this species, potentially due to the low water content, low SLA and high trichome density."

In the published article, there was an error in Supplementary Table S2. Due to an incorrect calculation, the information on water content in the Plant Quality table was wrong.

The correct table appears below:

The authors apologize for these errors and state that this does not change the scientific conclusions of the article in any way. The original article has been updated.

Publisher's note

References

Scriber, J. M., and Slansky, F. (1981). The nutritional ecology of immature insects. *Ann. Rev. Entomol.* 26, 183–211. doi: 10.1146/annurev.en.26.010181.001151

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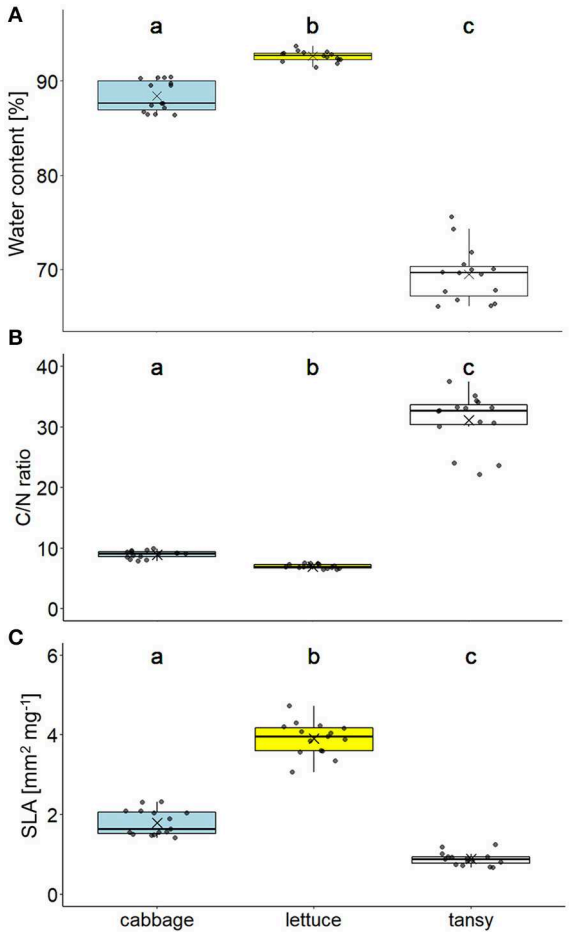

FIGURE 2
Leaf quality traits of different food plant species (cabbage: *Brassica rapa*; lettuce: *Lactuca sativa*; tansy: *Tanacetum vulgare*) with **(A)** water content, **(B)** carbon-to-nitrogen (C/N) ratio, and **(C)** specific leaf area (SLA; $n = 15$ per plant species). Box plots show the means (as crosses), medians (horizontal lines) and interquartile ranges (IQR; boxes), the whiskers extend to the most extreme values with max. 1.5 times the IQR. Individual values are plotted as dark circles. Statistical analyses were done with Kruskal–Wallis tests followed by pairwise Mann–Whitney *U*-tests. Significant differences ($p < 0.05$) are indicated by different lowercase letters.

Supplementary Table S2

ID	Plant	Water_content	Nitrogen	Carbon	CN_ratio	Trichomes	SLA
L1	lettuce	**93.724**	5.174	39.509	7.550	0	4.721
L2	lettuce	**91.457**	5.630	40.076	7.037	0	3.058
L3	lettuce	**92.670**	5.634	41.359	7.257	0	4.046
L4	lettuce	**92.288**	5.916	41.032	6.856	0	3.958
L5	lettuce	**92.952**	5.365	40.359	7.438	0	3.567
L6	lettuce	**92.276**	5.903	40.757	6.825	0	3.344
L7	lettuce	**91.863**	5.518	41.412	7.420	0	3.605
L8	lettuce	**92.566**	5.900	40.984	6.867	0	3.594
L9	lettuce	**92.086**	5.733	40.618	7.004	0	3.882
L10	lettuce	**92.867**	6.013	39.517	6.497	0	4.158
L11	lettuce	**93.230**	6.214	40.564	6.453	0	4.303
L12	lettuce	**92.848**	6.005	40.397	6.650	0	4.202
L13	lettuce	**93.002**	5.563	40.858	7.261	0	4.223
L14	lettuce	**92.428**	5.953	40.697	6.758	0	3.846
L15	lettuce	**93.105**	5.934	39.973	6.660	0	4.075
B1	cabbage	**86.440**	4.432	40.737	9.092	5.263	1.470
B2	cabbage	**86.435**	4.347	41.064	9.344	14.035	1.553
B3	cabbage	**86.370**	4.405	40.765	9.153	10.526	1.478
B4	cabbage	**87.399**	4.159	40.506	9.635	8.772	1.490
B5	cabbage	**87.641**	4.169	40.372	9.578	5.263	1.630
B6	cabbage	**87.650**	4.098	41.023	9.902	10.526	1.548
B7	cabbage	**87.129**	4.296	40.749	9.383	3.509	1.410
B8	cabbage	**86.751**	4.484	41.132	9.073	8.772	1.543
B9	cabbage	**90.342**	4.484	41.416	9.136	5.263	2.082
B10	cabbage	**90.409**	4.658	41.133	8.733	5.263	2.080
B11	cabbage	**90.286**	4.735	41.269	8.620	8.772	2.314
B12	cabbage	**89.545**	5.153	41.807	8.023	3.509	2.039
B13	cabbage	**89.768**	5.209	41.297	7.840	8.772	2.299
B14	cabbage	**89.513**	5.093	41.586	8.073	1.754	2.040
B15	cabbage	**90.372**	4.746	40.735	8.488	8.772	1.892
T1	tansy	**70.052**	1.923	45.731	23.589	652.632	0.868
T2	tansy	**71.810**	1.978	44.113	22.119	494.737	1.011
T3	tansy	**69.655**	1.881	45.496	23.991	636.842	0.852
T4	tansy	**70.556**	1.346	45.007	33.236	584.211	0.821
T5	tansy	**69.685**	1.186	44.669	37.482	556.140	0.741
T6	tansy	**66.395**	1.321	45.554	34.278	524.561	0.658
T7	tansy	**66.795**	1.389	45.592	32.620	575.439	0.715
T8	tansy	**66.122**	1.344	46.008	34.033	835.088	0.677
T9	tansy	**69.486**	1.495	45.227	30.057	747.368	0.938
T10	tansy	**67.636**	1.493	46.023	30.610	852.632	0.931
T11	tansy	**66.181**	1.370	45.551	33.032	745.614	0.803

(Continued)

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Supplementary Table S2 (Continued)

ID	Plant	Water_content	Nitrogen	Carbon	CN_ratio	Trichomes	SLA
T12	tansy	**67.830**	1.476	45.750	30.787	531.579	0.916
T13	tansy	**75.605**	1.260	44.462	35.085	550.877	1.233
T14	tansy	**74.310**	1.395	45.787	32.608	522.807	1.182
T15	tansy	**69.961**	1.369	45.708	33.171	628.070	0.886