Supplementary Material S1. The effects of classical ANOVA and Kruskal-Waliss one-way ANOVA showing differences between multifloral and unifloral bee pollen originating from different regions for 11 physico-chemical measurement data (moisture, ash, proteins, total lipids, total sugars, fructose, glucose, sucrose, maltose, melezitose, and raffinose content)

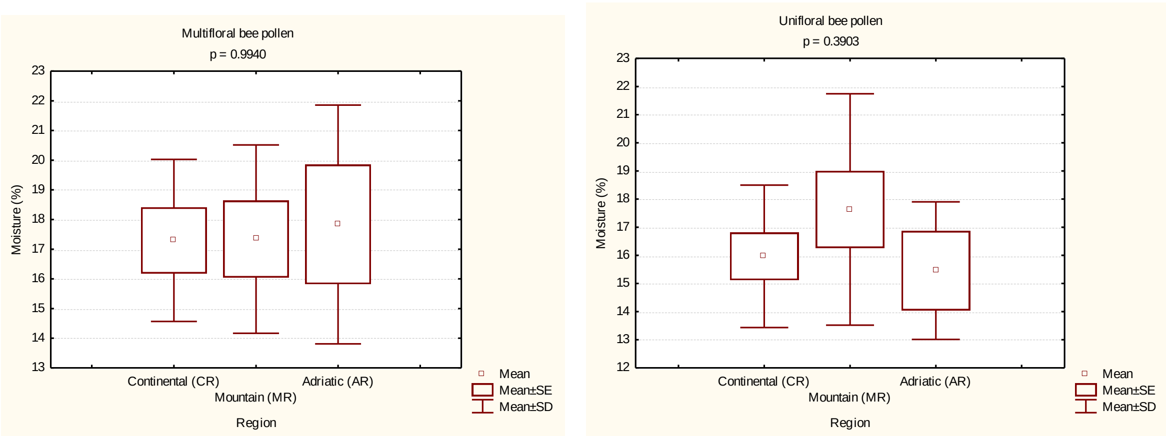


Figure S1.1. Effects of Kruskal-Wallis one way ANOVA showing differences in moisture content between multifloral (left) and unifloral (right) bee pollen collected from three climatic-geographical regions

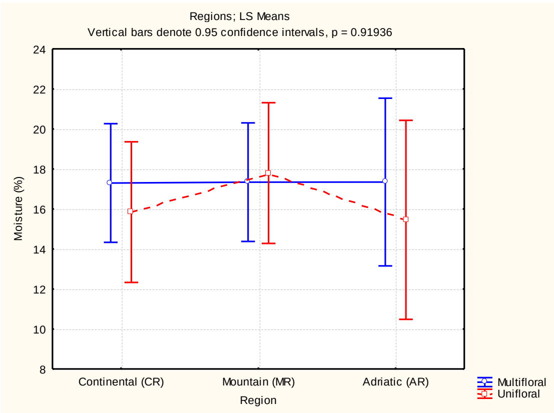


Figure S1.2. Effects of one-way ANOVA showing differences in moisture content between multifloral and unifloral bee pollen collected from three climatic-geographical regions

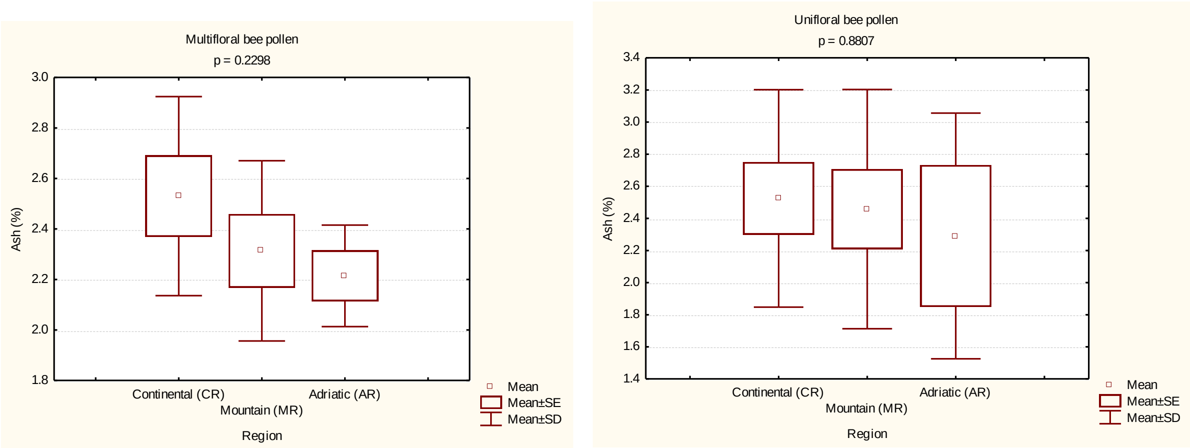


Figure S1.3. Effects of Kruskal-Wallis one way ANOVA showing differences in ash content between multifloral (left) and unifloral (right) bee pollen collected from three climatic-geographical regions

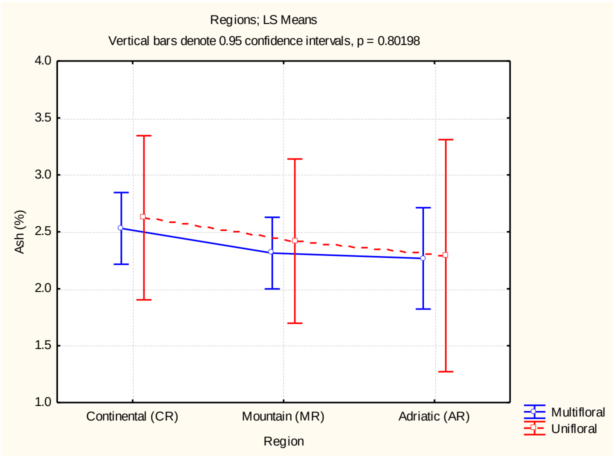


Figure S1.4. Effects of one-way ANOVA showing differences in ash content between multifloral and unifloral bee pollen collected from three climatic-geographical regions

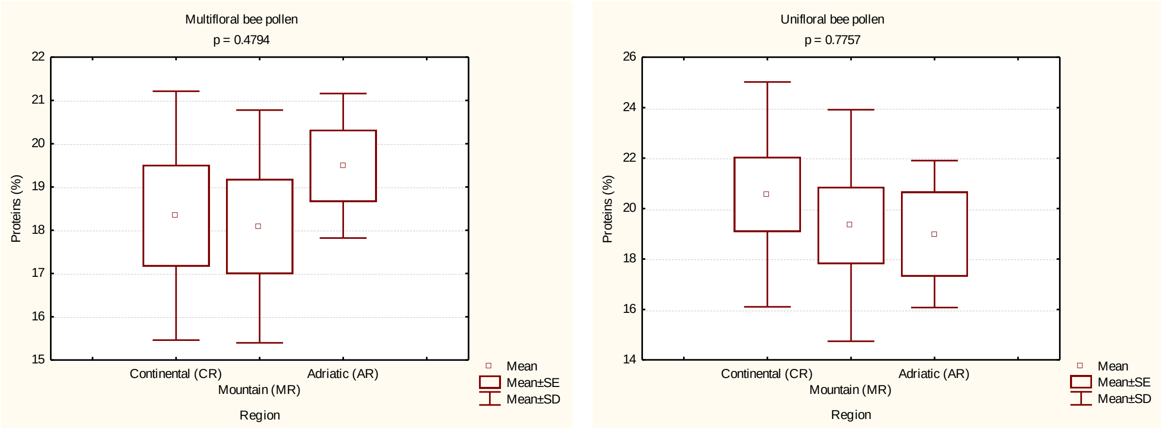


Figure S1.5. Effects of Kruskal-Wallis one way ANOVA showing differences in protein content between multifloral (left) and unifloral (right) bee pollen collected from three climatic-geographical regions

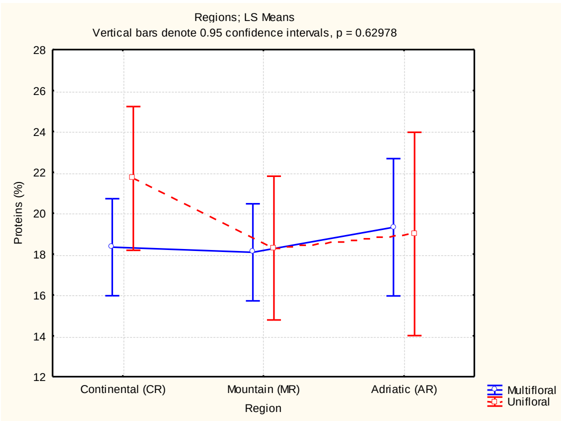
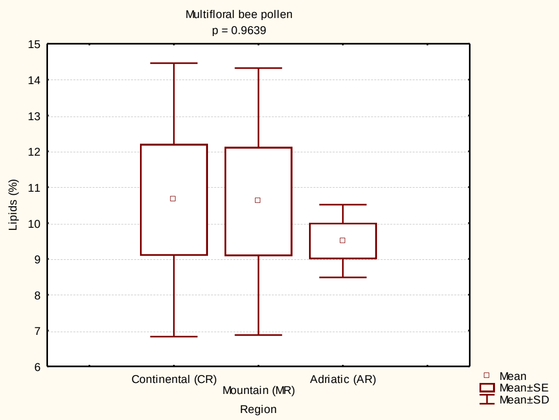


Figure S1.6. Effects of one-way ANOVA showing differences in protein content between multifloral and unifloral bee pollen collected from three climatic-geographical regions



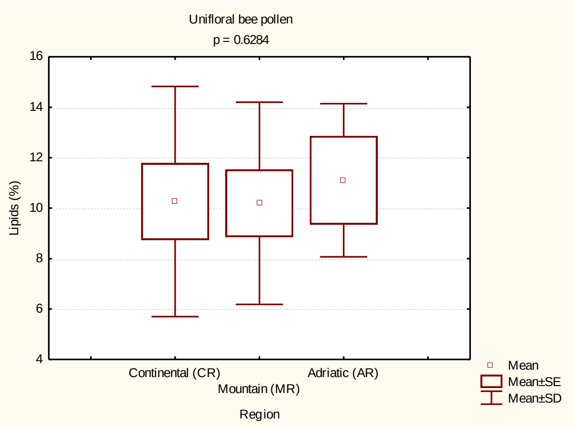


Figure S1.7. Effects of Kruskal-Wallis one way ANOVA showing differences in total lipid content between multifloral (left) and unifloral (right) bee pollen collected from three climatic-geographical regions

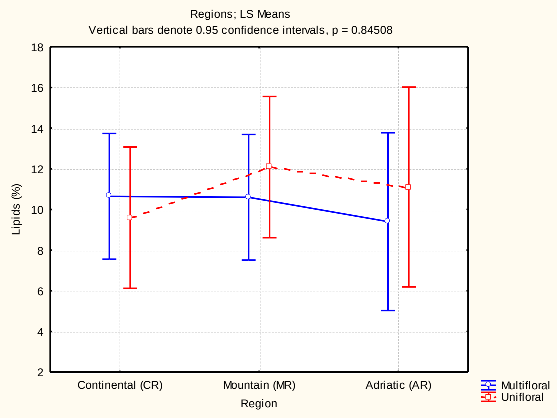
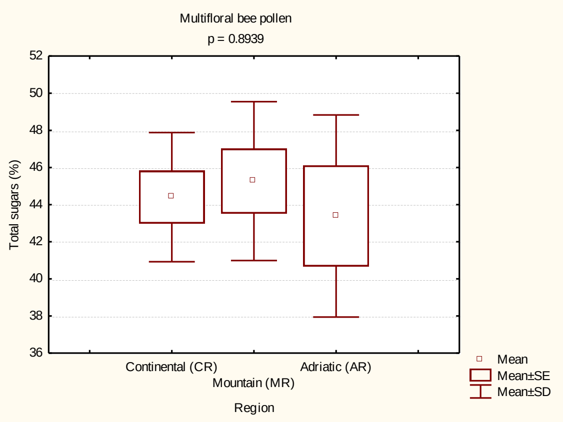


Figure S1.8. Effects of one-way ANOVA showing differences in total lipid content between multifloral and unifloral bee pollen collected from three climatic-geographical regions



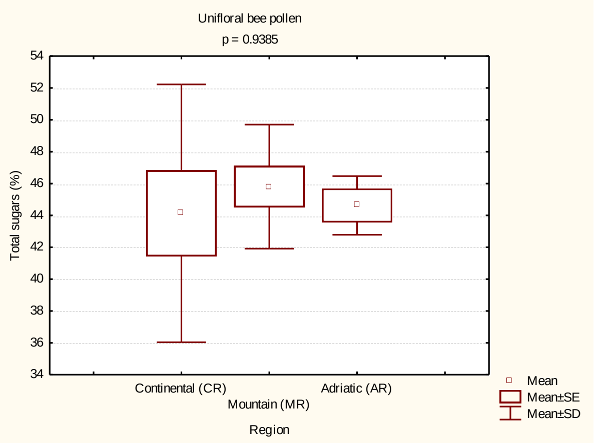


Figure S1.9. Effects of Kruskal-Wallis one way ANOVA showing differences in total sugar content between multifloral (left) and unifloral (right) bee pollen collected from three climatic-geographical regions

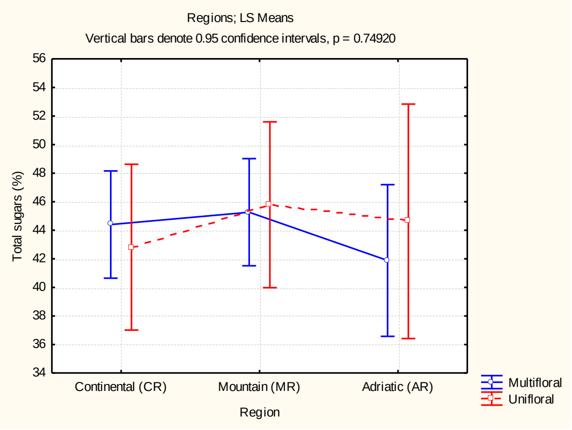


Figure S1.10. Effects of one-way ANOVA showing differences in total sugar content between multifloral and unifloral bee pollen collected from three climatic-geographical regions

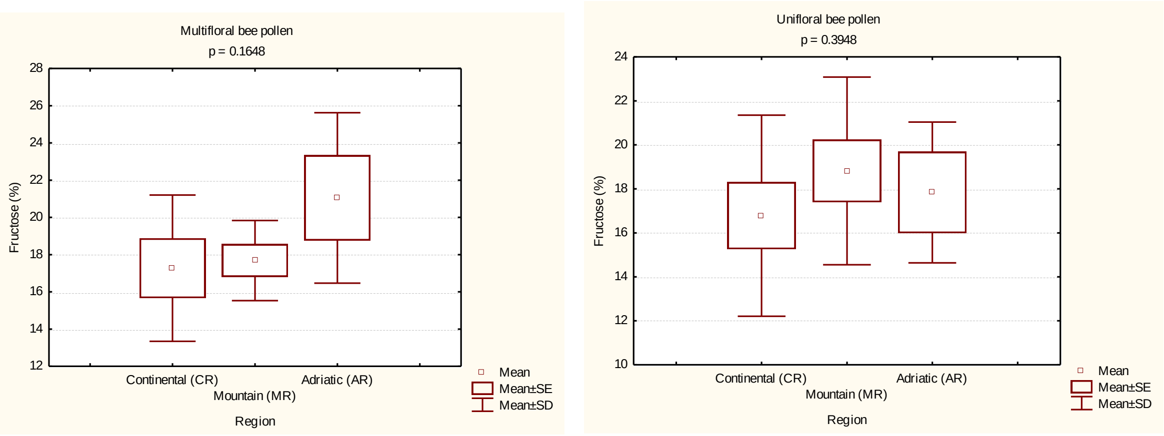


Figure S1.11. Effects of Kruskal-Wallis one way ANOVA showing differences in fructose content between multifloral (left) and unifloral (right) bee pollen collected from three climatic-geographical regions

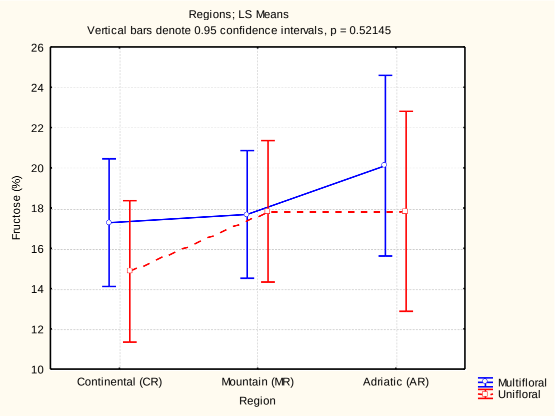


Figure S1.12. Effects of one-way ANOVA showing differences in fructose content between multifloral and unifloral bee pollen collected from three climatic-geographical regions

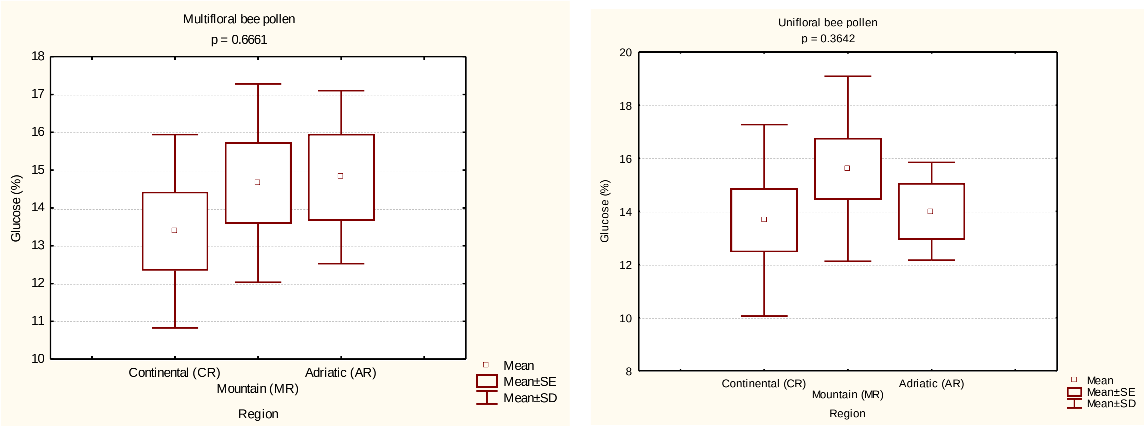


Figure S1.13. Effects of Kruskal-Wallis one way ANOVA showing differences in glucose content between multifloral (left) and unifloral (right) bee pollen collected from three climatic-geographical regions

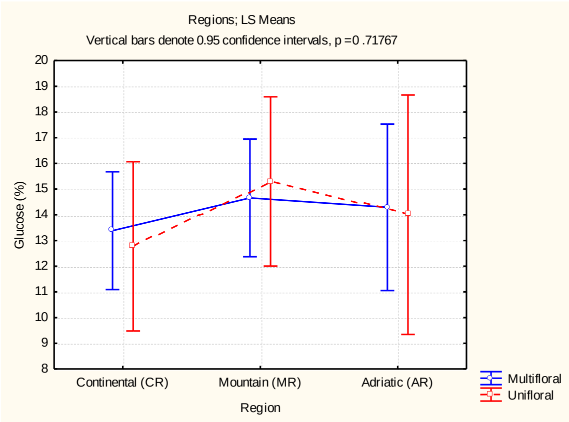


Figure S1.14. Effects of one-way ANOVA showing differences in glucose content between multifloral and unifloral bee pollen collected from three climatic-geographical regions

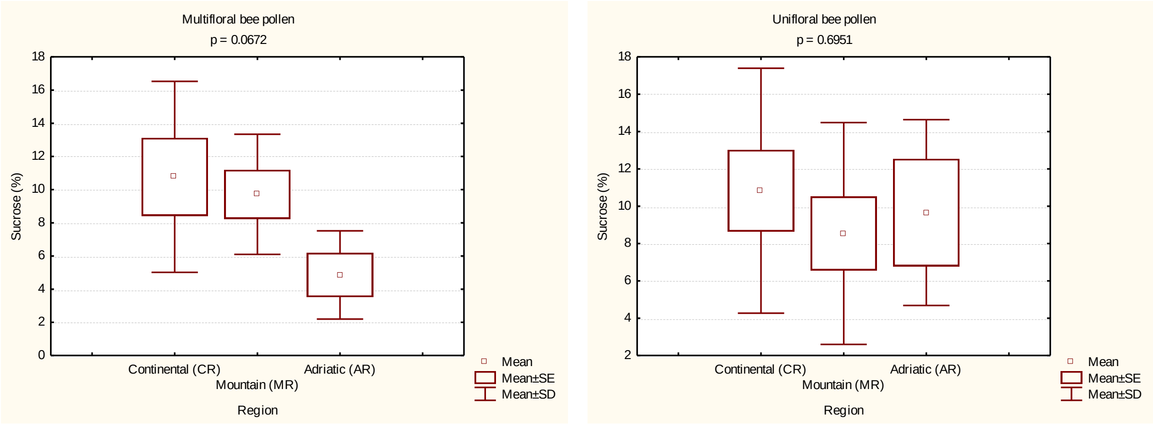


Figure S1.15. Effects of Kruskal-Wallis one way ANOVA showing differences in sucrose content between multifloral (left) and uniflоral (right) bee pollen collected from three climatic-geographical regions

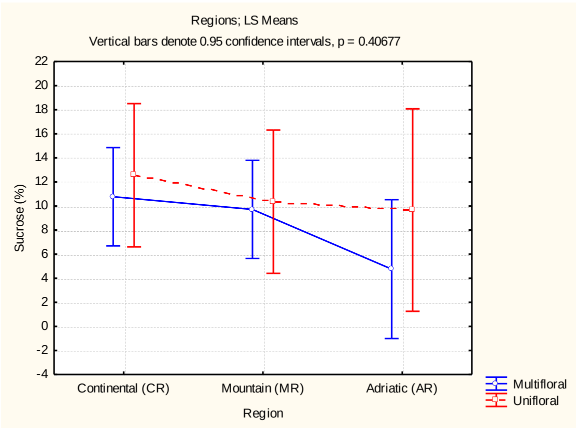


Figure S1.16. Effects of one-way ANOVA showing differences in sucrose content between multifloral and uniflоral bee pollen collected from three climatic-geographical regions

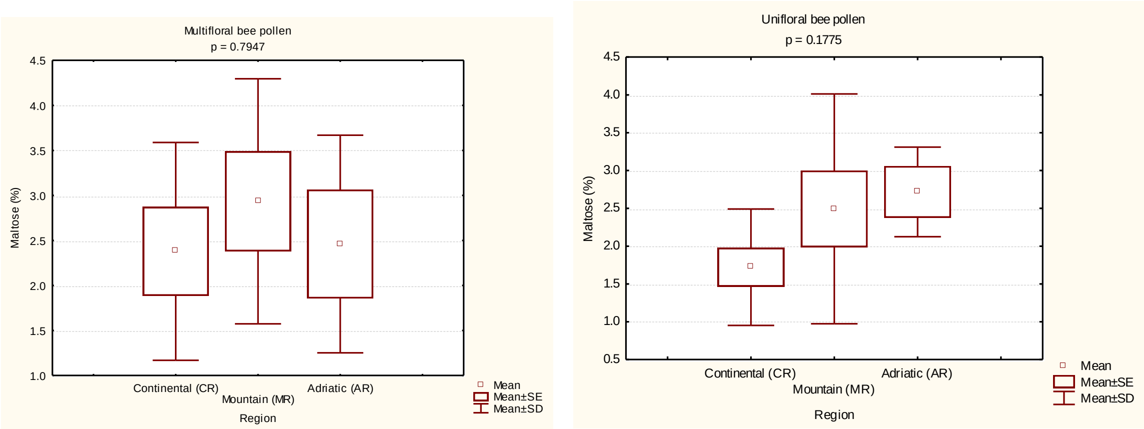


Figure S1.17. Effects of Kruskal-Wallis one way ANOVA showing differences in maltose content between multifloral (left) and unifloral (right) bee pollen collected from three climatic-geographical regions

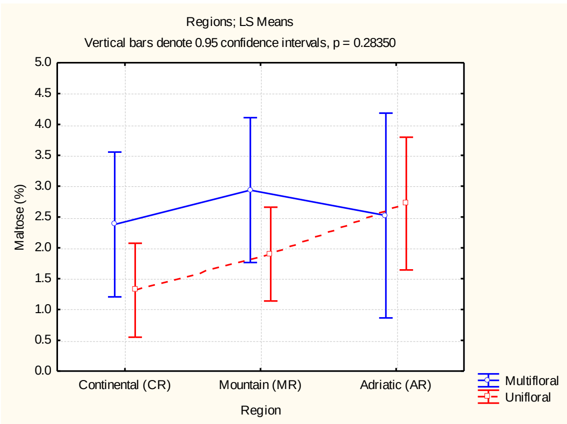


Figure S1.18. Effects of one-way ANOVA showing differences in maltose content between multifloral and unifloral bee pollen collected from three climatic-geographical regions

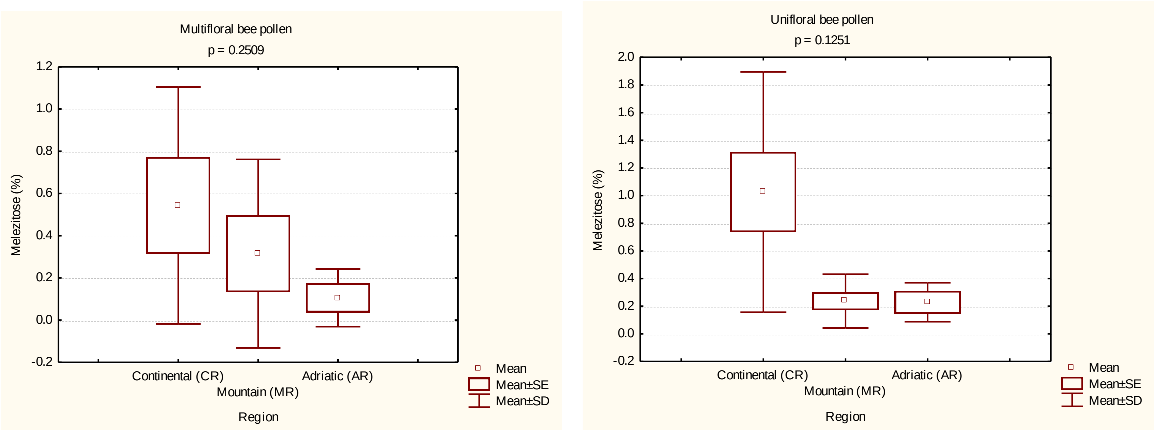


Figure S1.19. Effects of Kruskal-Wallis one way ANOVA showing differences in melezitose content between multifloral (left) and unifloral (right) bee pollen collected from three climatic-geographical regions

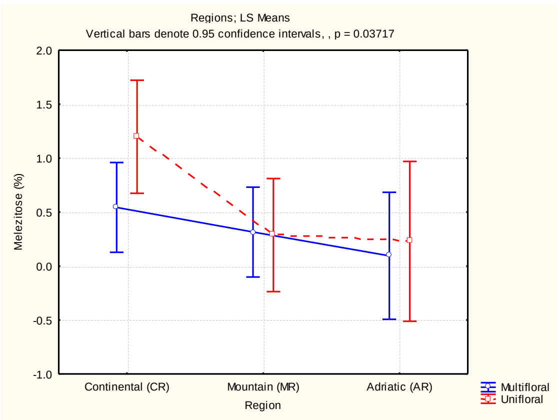


Figure S1.20. Effects of one-way ANOVA showing differences in melezitose content between multifloral and unifloral bee pollen collected from three climatic-geographical regions

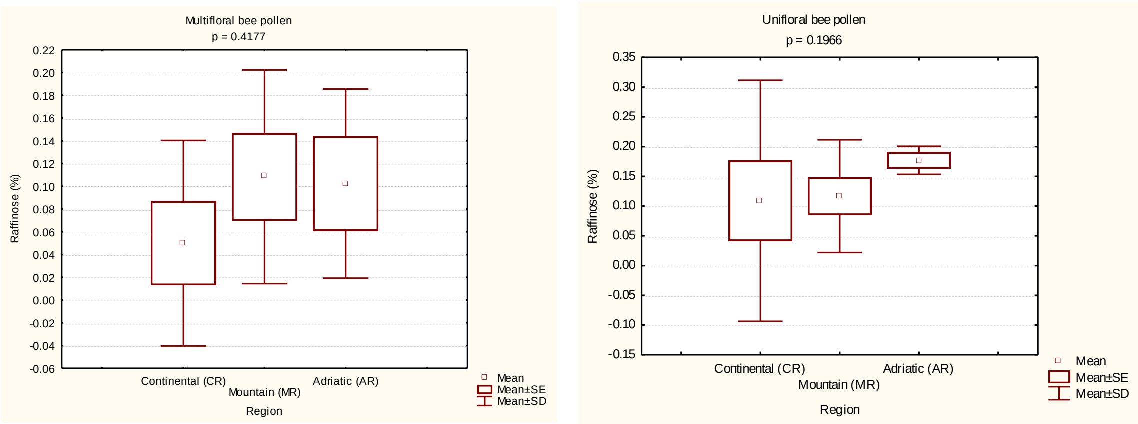


Figure S1.21. Effects of Kruskal-Wallis one way ANOVA showing differences in raffinose content between multifloral (left) and unifloral (right) bee pollen collected from three climatic-geographical regions

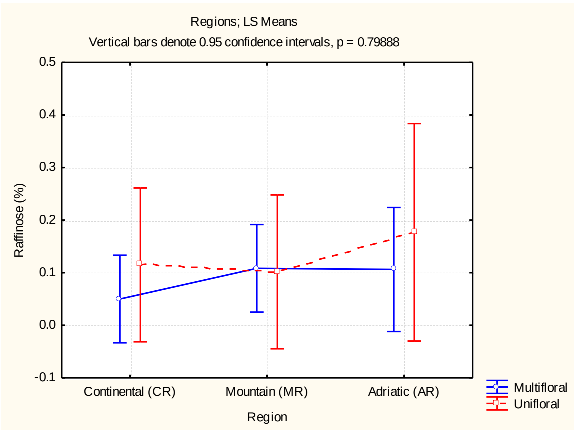


Figure S1.22. Effects of one-way ANOVA showing differences in raffinose content between multifloral and unifloral bee pollen collected from three climatic-geographical regions

Table S1. The effects of Paired sample t-test showing statistical significance of differences between determined physico-chemical values of five paired sets of unifloral bee pollen samples (bee pollen of the same botanical origin collected from different climatic-geographical regions), namely *Q. pubescens* bee pollen (from MR and AR), *T. officinale* bee pollen (from CR and MR), *J. regia* bee pollen (from CR and MR), *P. spinosa* bee pollen (from CR and MR), *Salix* spp. bee pollen (CR and MR)

Effect	Moisture	Ash	Proteins	Total lipids	Total sugars	Fructose	Glucose	Sucrose	Malatose	Melezitose	Raffinose
Pearson Correlation	-0.005	0.906	0.880	0.826	0.889	0.838	0.654	0.834	0.993	-0.083	0.977
t statistic	0.704	0.068	-0.073	0.241	1.426	0.096	0.139	0.034	3.393	1.517	1.380
t Critical one-tail	2.132	2.132	2.132	2.132	2.132	2.132	2.132	2.132	2.132	2.132	2.132
p (T<=t) one-tail	**0.260**	**0.474**	**0.473**	**0.411**	**0.114**	**0.464**	**0.448**	**0.487**	**0.014**	**0.102**	**0.120**