

Table S1. Sums of rainfall (mm), average air temperature (°C) during 2021-2022, and evaluation according to climatology normal 1990-2020 (Origin: The meteorological station of Institute of Landscape Engineering, SUA in Nitra)

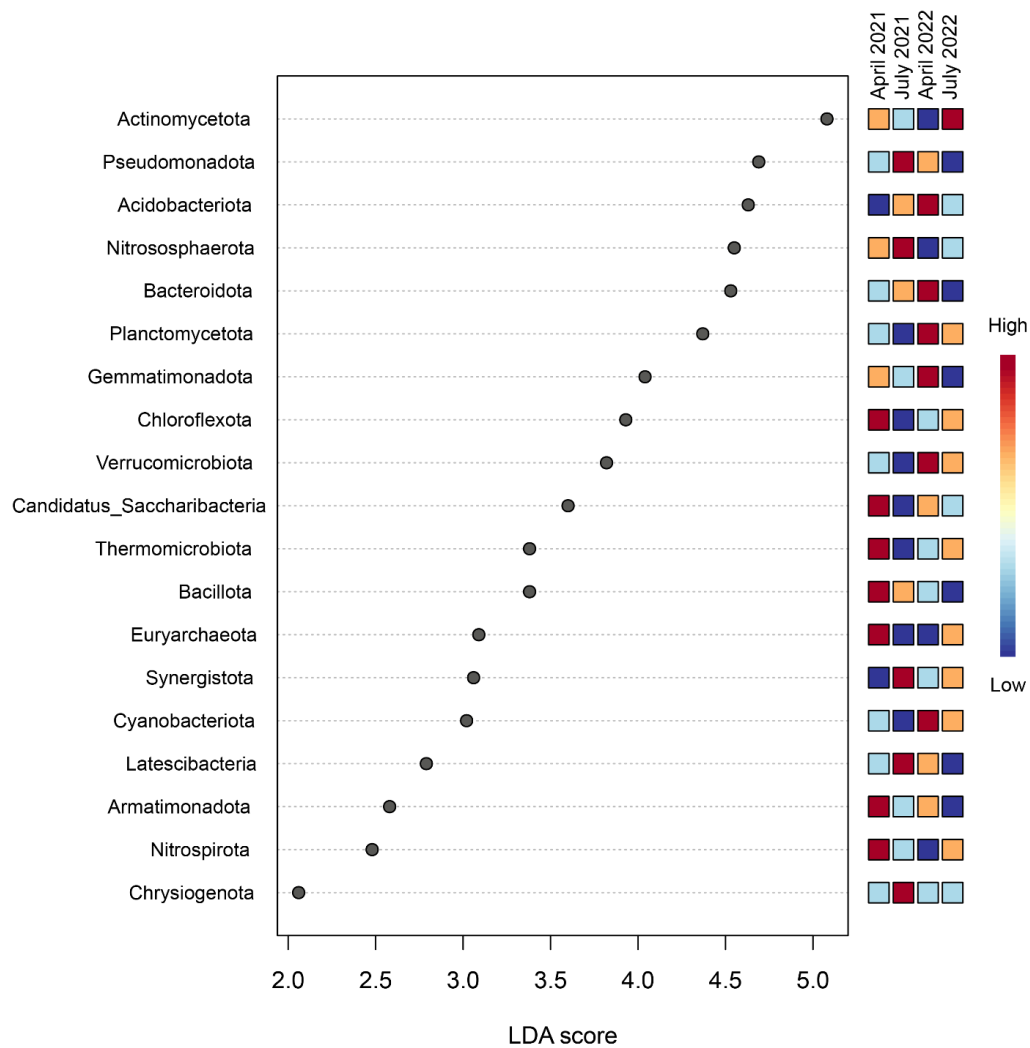
Month	Sums of rainfall (mm) and characteristic according to the long-term precipitation average				Average air temperature (°C) and characteristic according to the climatic normal of temperatures			
	year 2021		year 2022		year 2021		year 2022	
January	41.1	normal	5.9	extremely dry	0.7	normal	1.0	normal
February	21.6	normal	34.5	normal	1.9	normal	3.6	warm
March	4.8	extremely dry	3.5	extremely dry	4.5	normal	4.6	normal
April	36.4	normal	12.9	very dry	7.4	extremely cold	8.5	very cold
May	113.2	very moist	12.7	extremely dry	11.9	extremely cold	15.8	normal
June	17.9	very dry	88.4	moist	21.0	warm	20.7	normal
July	42.3	dry	60.4	normal	22.4	normal	21.5	normal
August	128.2	extremely humid	59.9	normal	18.4	very cold	21.9	normal
September	36.1	dry	6.6	extremely dry	15.4	normal	13.9	cold
October	17.6	very dry	27.5	dry	9.3	normal	11.5	normal
November	35.2	normal	8.7	extremely dry	4.7	normal	5.5	normal
December	46.5	normal	67.2	very moist	0.8	normal	1.3	normal

Table S2. PERMANOVA pairwise comparison of prokaryotic community composition based on Unifrac Distances P values indicating difference are in upper triangle while corresponding R² values are in lower triangle

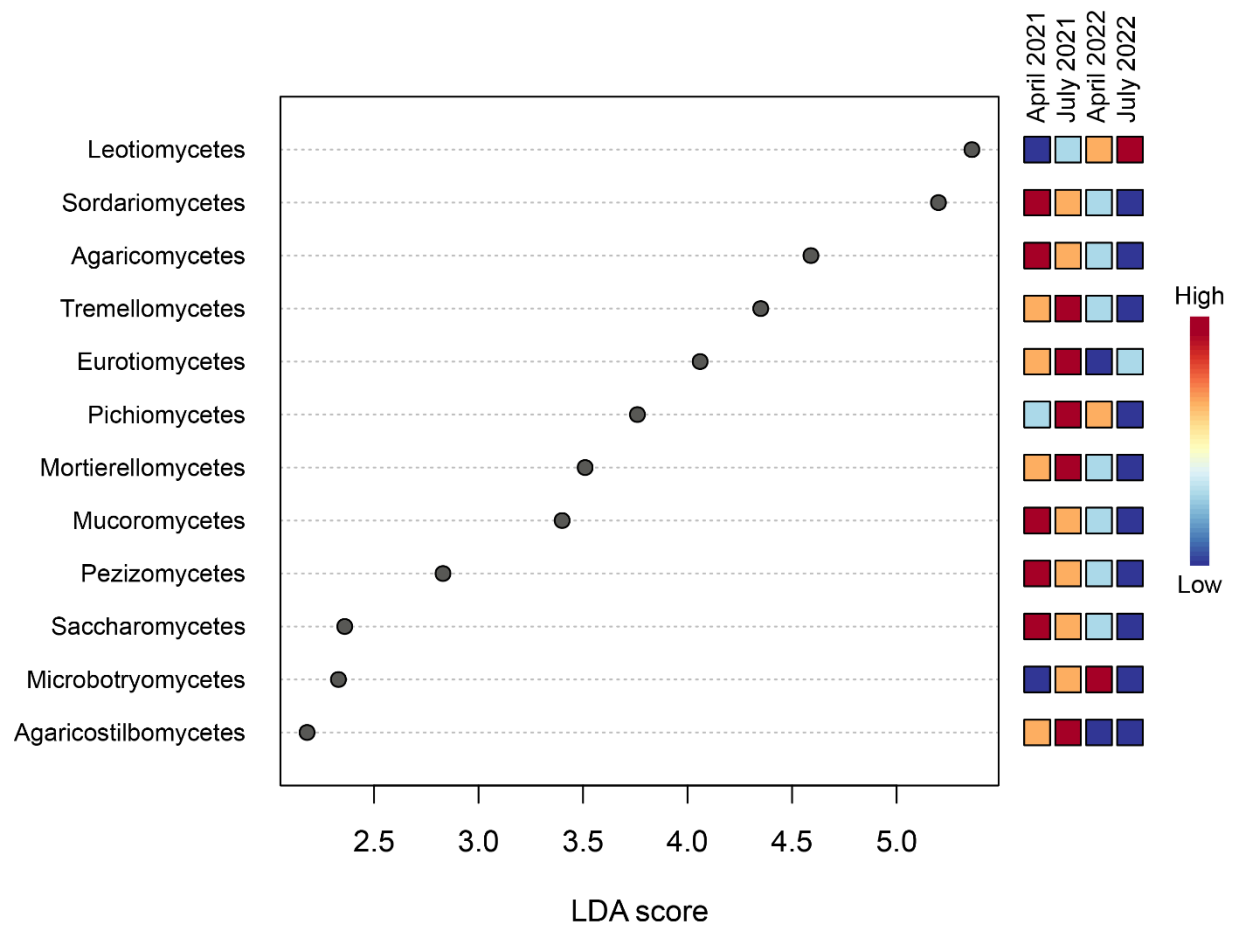
	C	N	N+G	N+PGPB	N+A	N+G+A	N+PGPB+A
C	NA	0.128	0.05	0.34	0.008	0.015	0.002
N	0.051352	NA	0.072	0.049	0.259	0.079612	0.039
N+G	0.064948	0.05844	NA	0.057203	0.057404	0.082178	0.018
N+PGPB	0.043286	0.172	0.083	NA	0.076	0.099259	0.005
N+A	0.080793	0.046242	0.097	0.059685	NA	0.126072	0.018
N+G+A	0.072265	0.009	0.007	0.001	0.001	NA	0.001
N+PGPB+A	0.081766	0.063898	0.066622	0.084618	0.070958	0.092853	NA

Table S3. PERMANOVA pairwise comparison of fungal community composition based on Unifrac Distances P values indicating difference are in upper triangle while corresponding R² values are in lower triangle

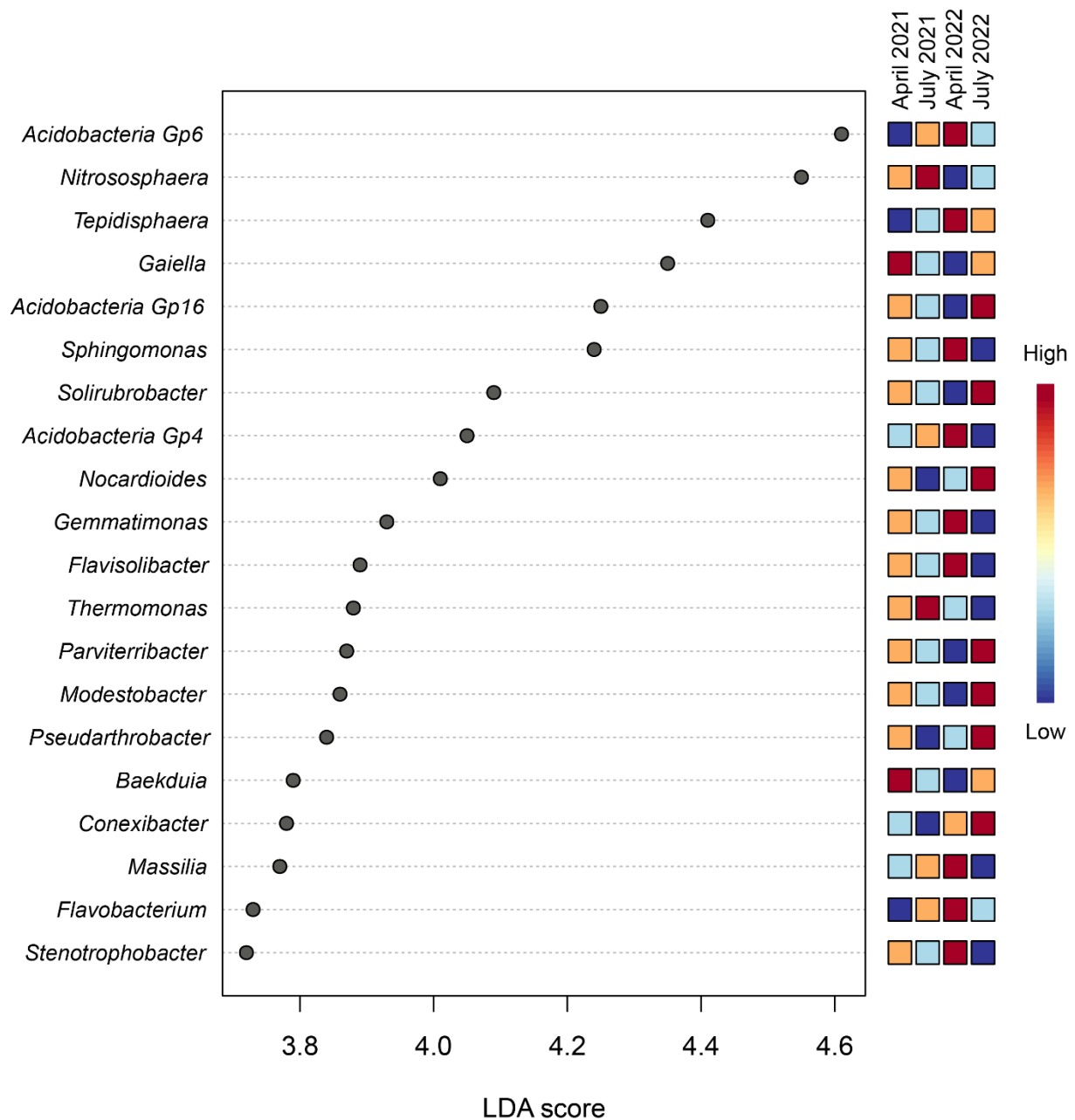
	C	N	N+G	N+PGPB	N+A	N+G+A	N+PGPB+A
C	NA	0.041	0.33	0.053	0.272	0.262	0.093183
N	0.089006	NA	0.044	0.124	0.084	0.06	0.042884
N+G	0.017065	0.088228	NA	0.043	0.29	0.223	0.108748
N+PGPB	0.051216	0.050452	0.064455	NA	0.201	0.075	0.055611
N+A	0.021568	0.073962	0.019617	0.037118	NA	0.217	0.077721
N+G+A	0.019008	0.080721	0.021098	0.05097	0.023366	NA	0.091245
N+PGPB+A	0.046	0.267	0.018	0.105	0.078	0.04	NA



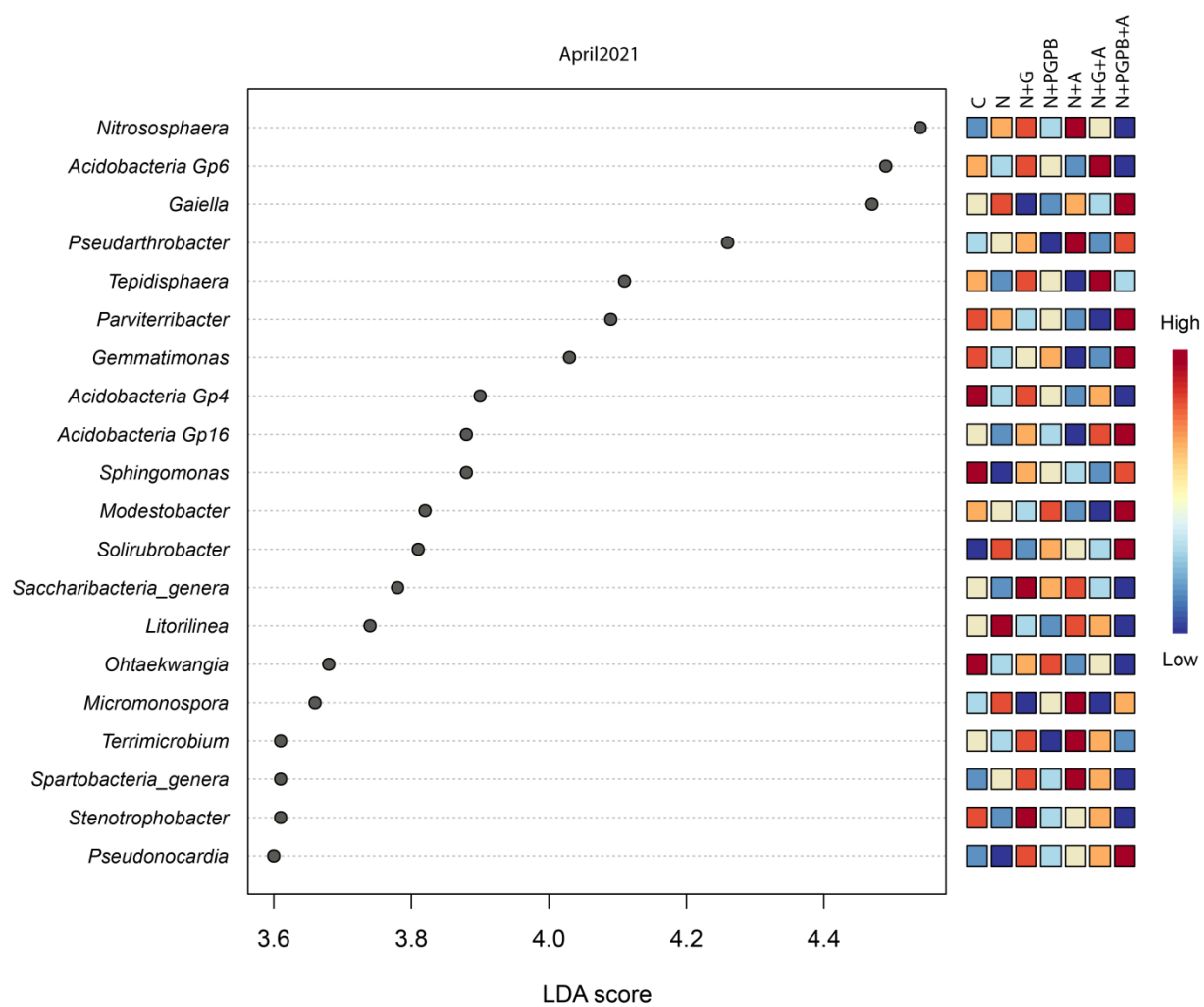
Supplementary Figure S1. LefSe LDA score dotplot of prokaryotic biomarker phyla for each sampling date in soil treated by nitrogen fertilization and plant biostimulants application during strawberry cultivation.



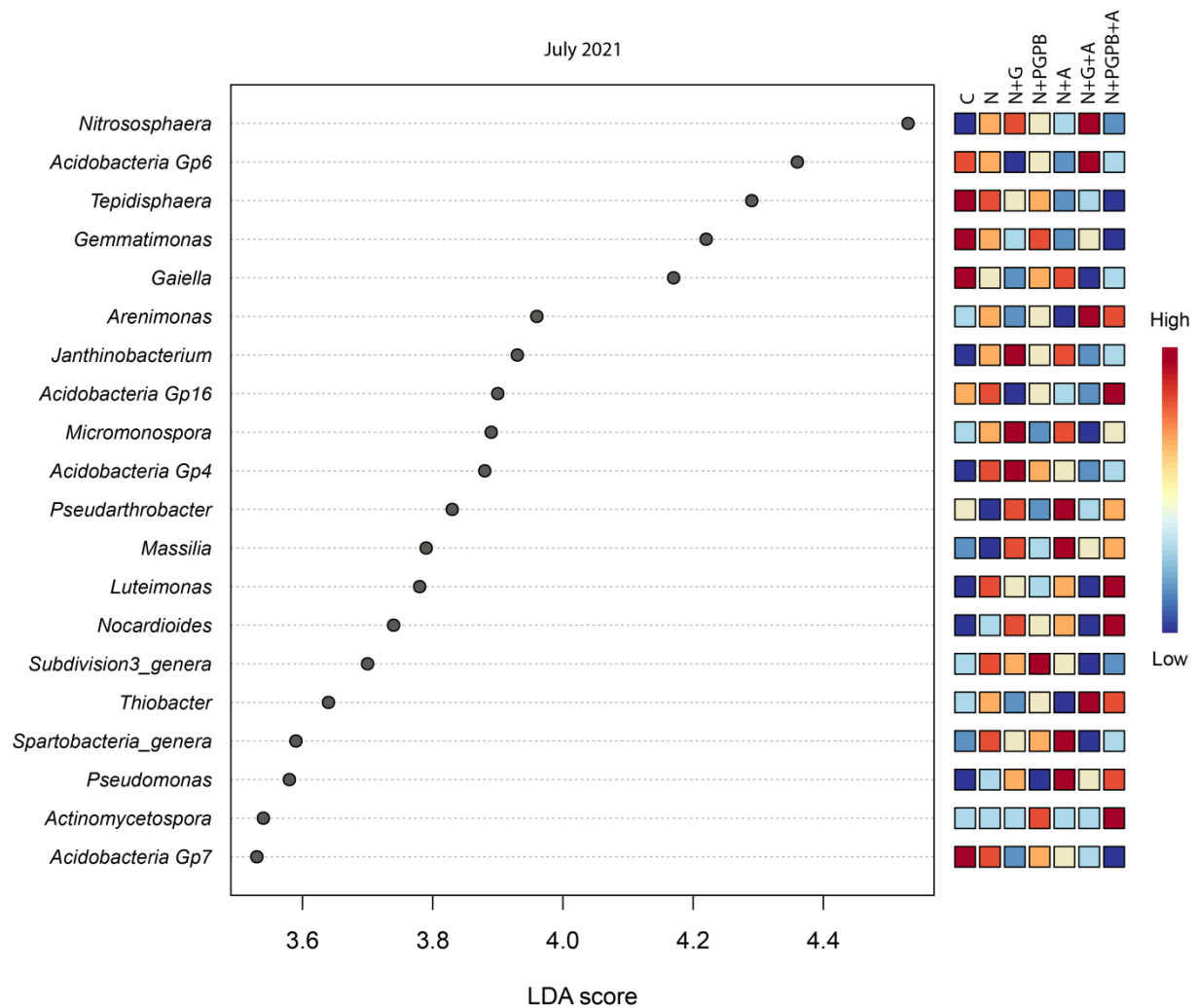
Supplementary Figure S2. LefSe LDA score dotplot of fungal biomarker phyla for each sampling date in soil treated by nitrogen fertilization and plant biostimulants application during strawberry cultivation.



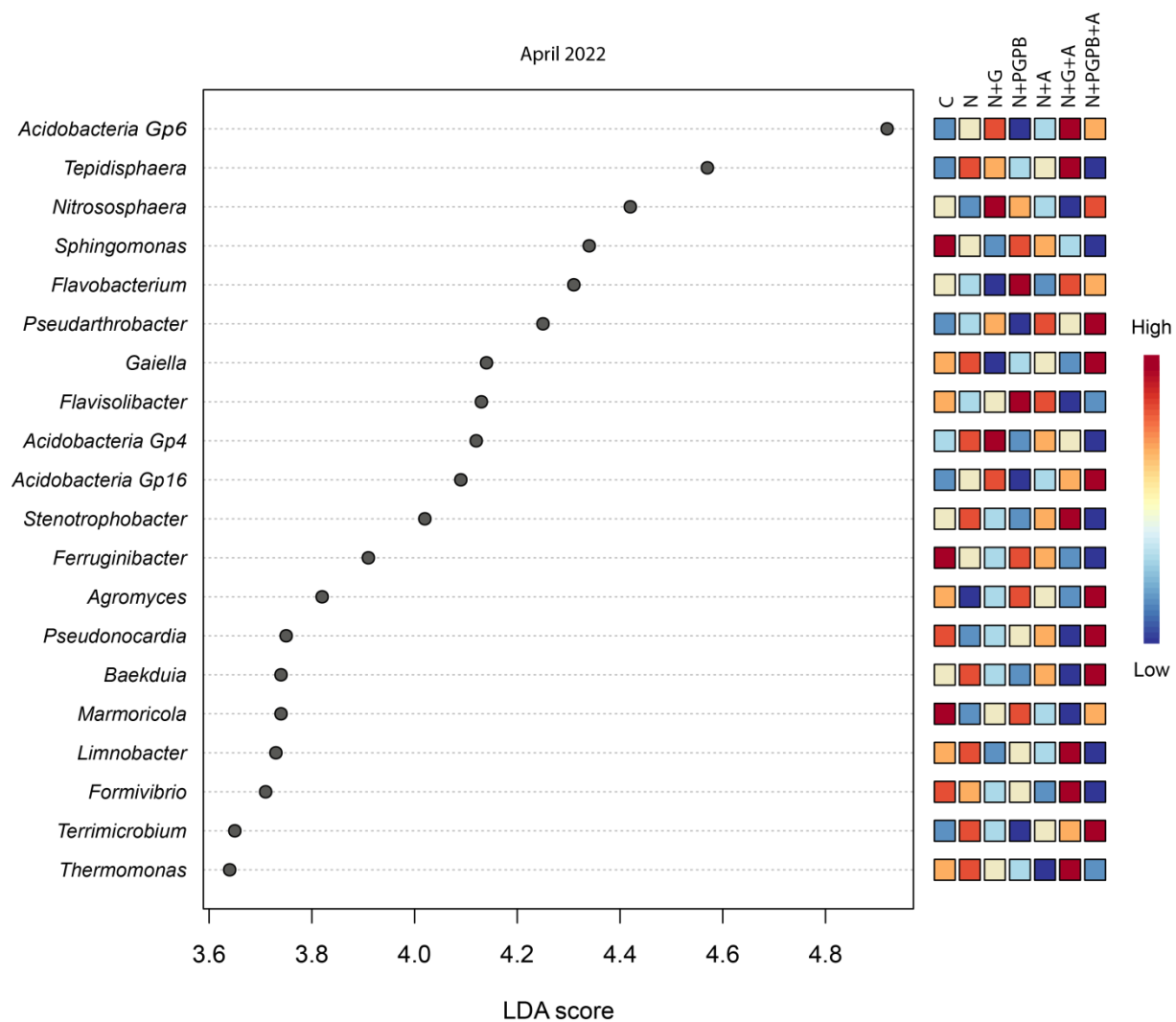
Supplementary Figure S3. LefSe LDA score dotplot of prokaryotic biomarker genera for each sampling date in soil treated by nitrogen fertilization and plant biostimulants application during strawberry cultivation.



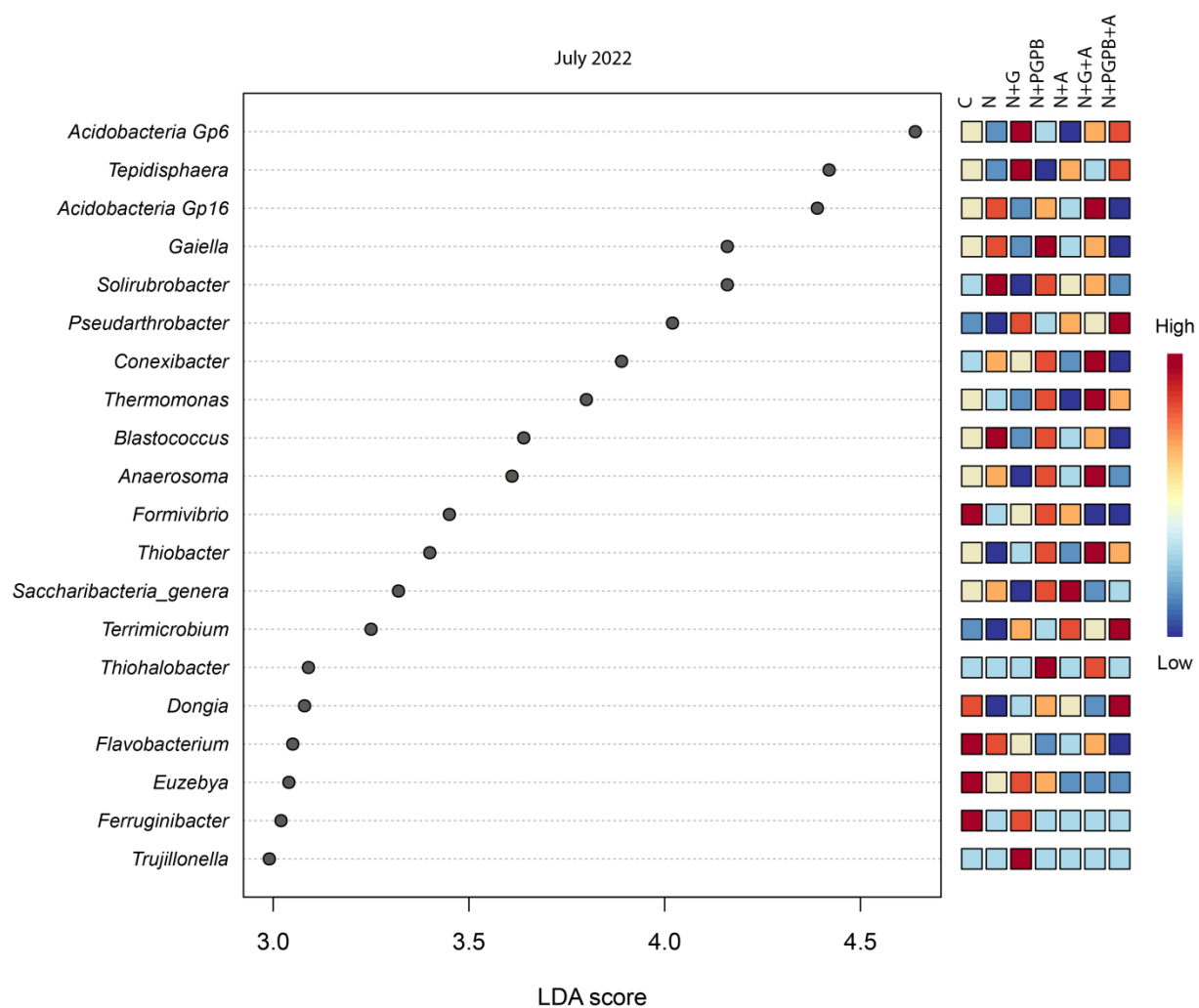
Supplementary Figure S4. LefSe LDA score dotplot of prokaryotic biomarker genera for nitrogen fertilization and plant biostimulants treatments in the first sampling date



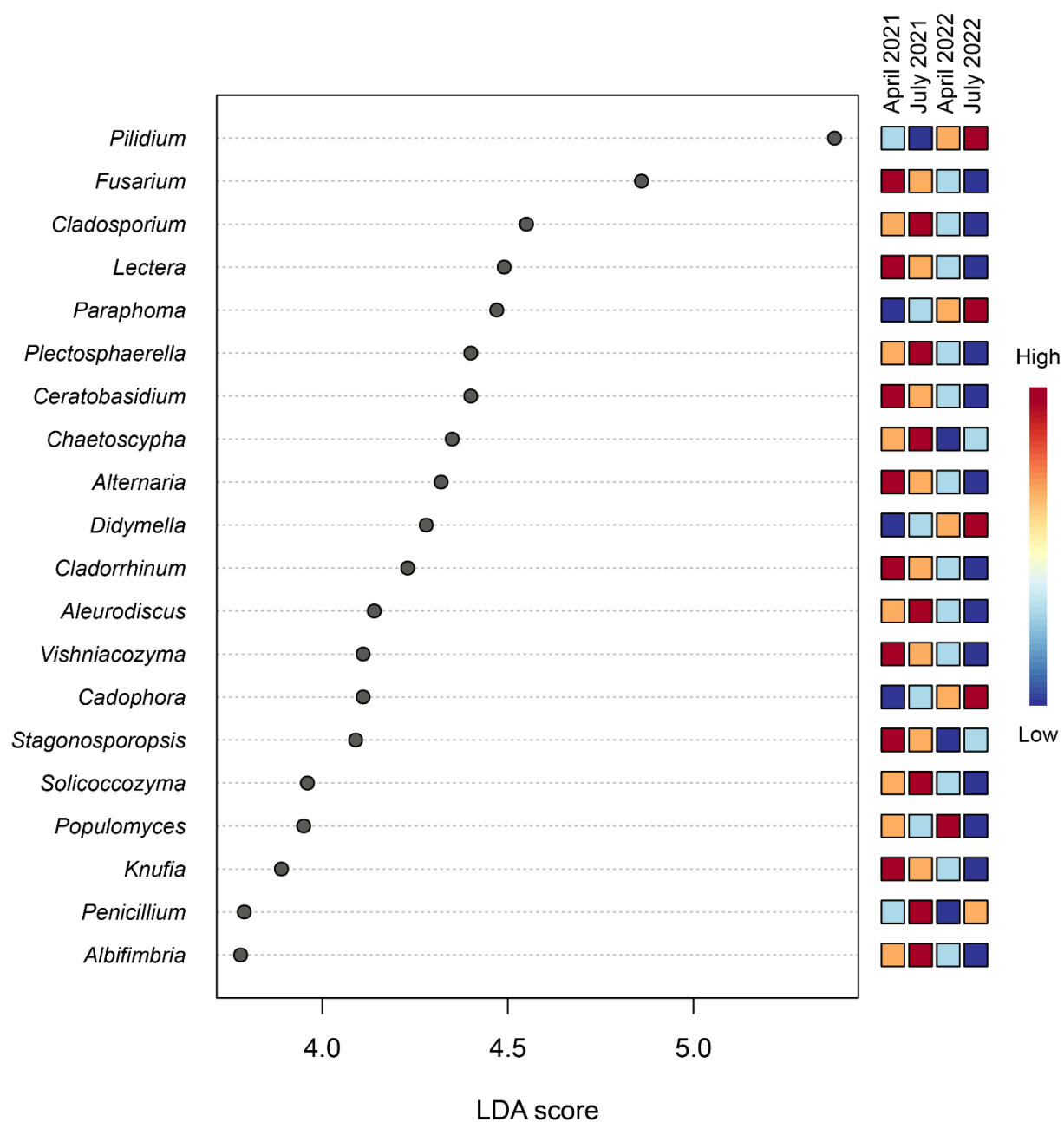
Supplementary Figure S5. LefSe LDA score dotplot of prokaryotic biomarker genera for nitrogen fertilization and plant biostimulants treatments in the second sampling date



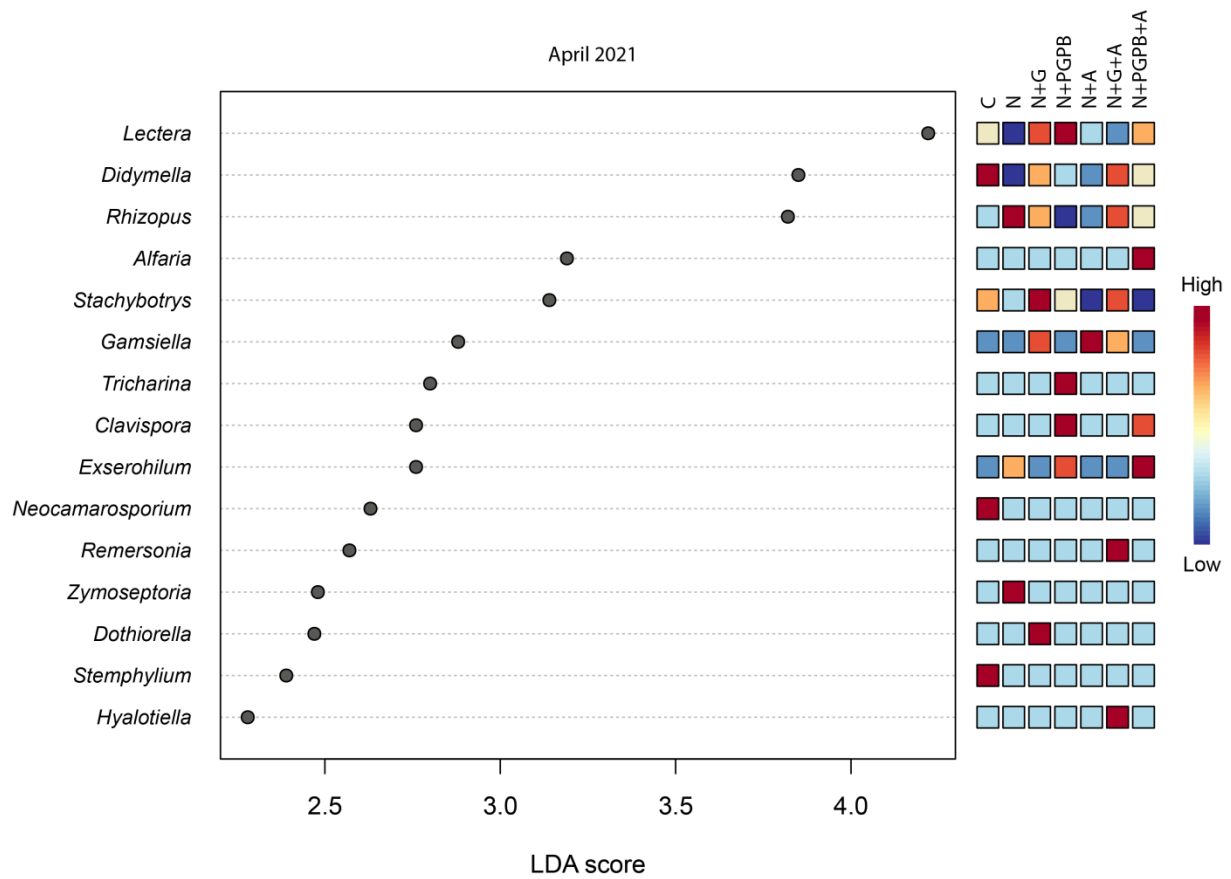
Supplementary Figure S6. LefSe LDA score dotplot of prokaryotic biomarker genera for nitrogen fertilization and plant biostimulants treatments in the third sampling date



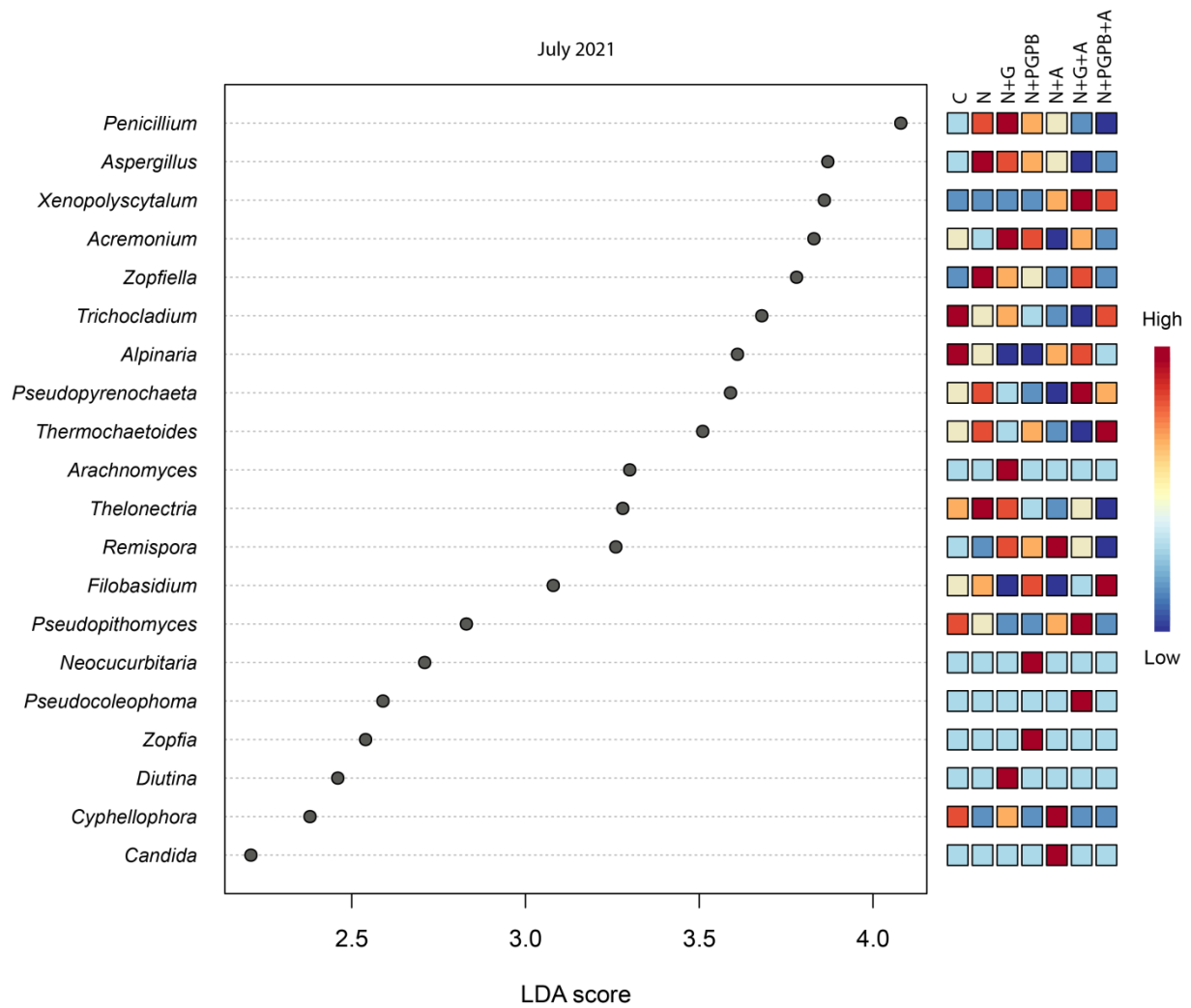
Supplementary Figure S7. LefSe LDA score dotplot of prokaryoticbiomarker genera for nitrogen fertilization and plant biostimulants treatments in the fourth sampling date



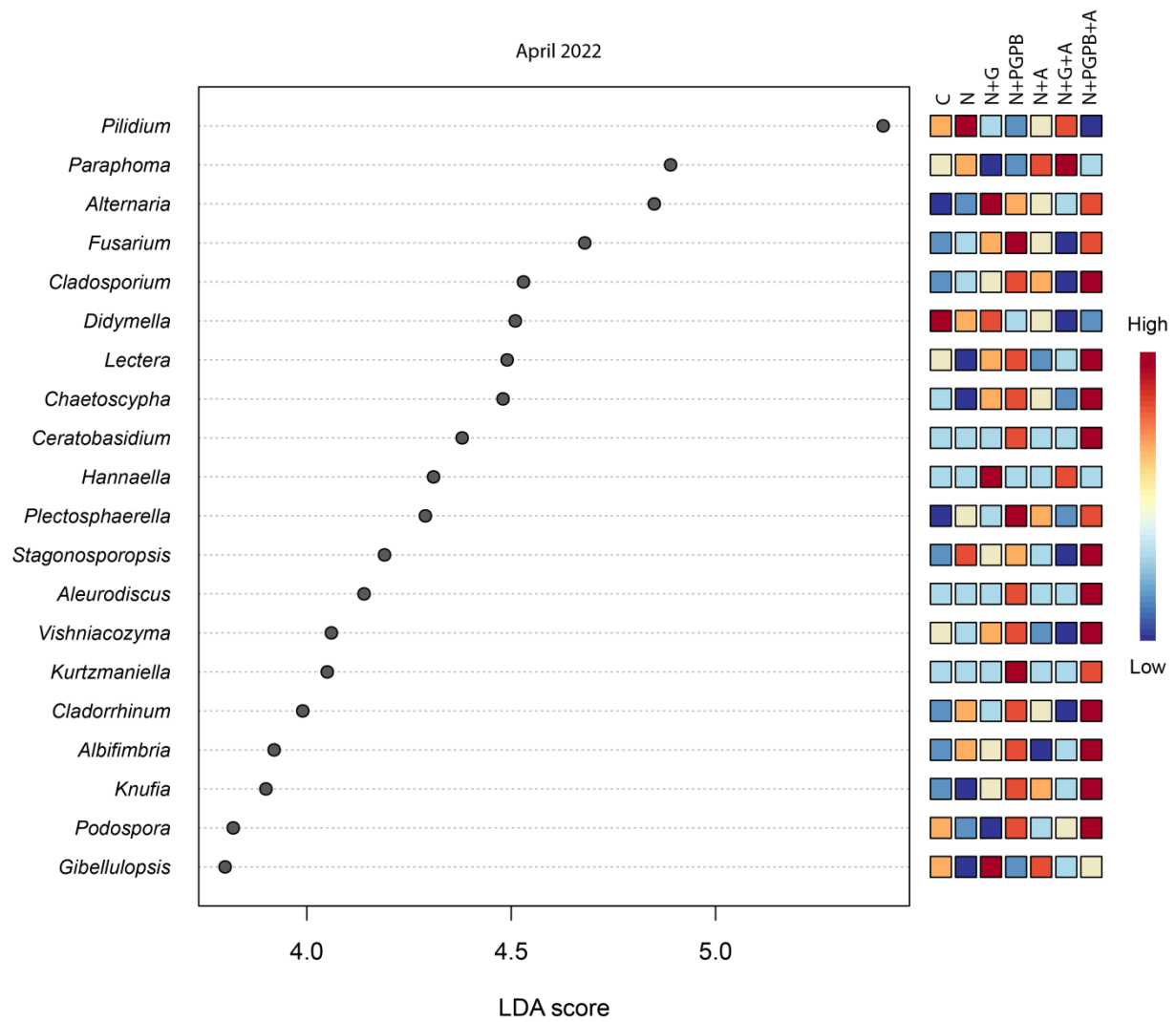
Supplementary Figure S8. LefSe LDA score dotplot of fungal biomarker genera for each sampling date in soil treated by nitrogen fertilization and plant biostimulants application during strawberry cultivation.



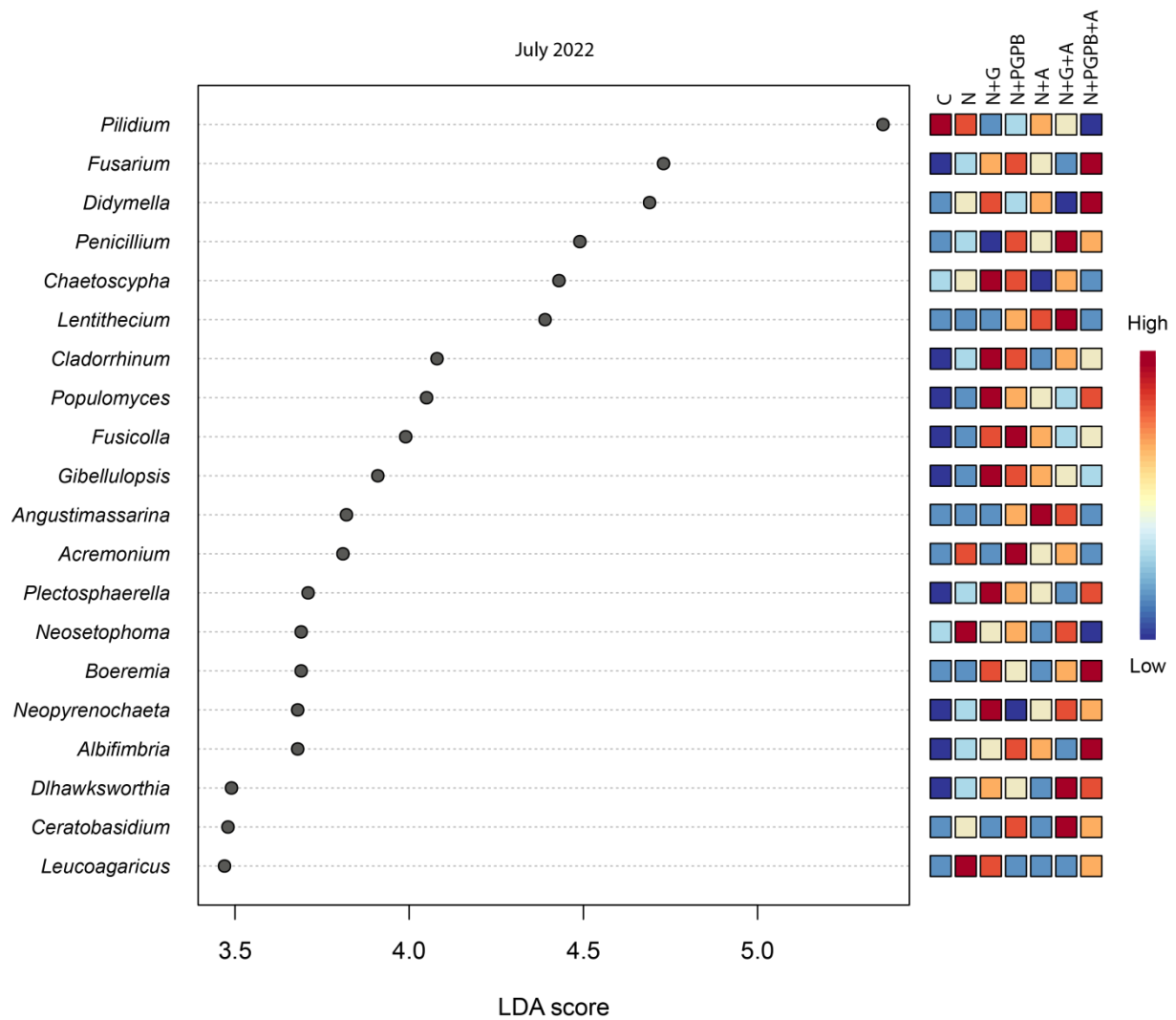
Supplementary Figure S9. LefSe LDA score dotplot of fungal biomarker genera for nitrogen fertilization and plant biostimulants treatments in the first sampling date



Supplementary Figure S10. LefSe LDA score dotplot of fungal biomarker genera for nitrogen fertilization and plant biostimulants treatments in the second sampling date



Supplementary Figure S11. LefSe LDA score dotplot of fungal biomarker genera for nitrogen fertilization and plant biostimulants treatments in the third sampling date



Supplementary Figure S12. LefSe LDA score dotplot of fungal biomarker genera for nitrogen fertilization and plant biostimulants treatments in the fourth sampling date