**Table S5** General linear model (GLM) showing the effect of grazing and sample type (soil and root) on the relative abundance of arbuscular mycorrhizal fungal orders. G, grazing; NG, non-grazing; ST, sample type.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Order | Variable | Estimate | SE | t-value | *P*-value |
| Glomerales | G | 0.07158 | 0.05356 | 1.337 | 0.185  |
|  | G: ST | 0.19417 | 0.05654 | 3.434 | < 0.001 |
|  | NG: ST | 0.24641 | 0.06114 | 4.03 | < 0.001 |
| Diversisporales | G | -7.472 | 3.659 | -2.042 | 0.045  |
|  | G: ST | -10.498 | 3.422 | -3.068 | 0.003  |
|  | NG: ST | -3.504 | 2.207 | -1.588 | 0.116  |
| Archaeosporales | G | 1.539 | 7.59 | 0.203 | 0.840  |
|  | G: ST | -8.987 | 5.814 | -1.546 | 0.126  |
|  | NG: ST | -13.547 | 5.878 | -2.305 | 0.024  |
| Paraglomerales | G | -2357.98 | 1255.63 | -1.878 | 0.064  |
|  | G: ST | -2123.19 | 1264.42 | -1.679 | 0.097  |
|  | NG: ST | 12.25 | 46.74 | 0.262 | 0.794  |