|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Table Sx**. Generalized additive models (GAM) testing treatment (burned vs. unburned) and factor-smooth interaction effects on the abundance of autofluorescent and total microbial at three time points. Separate smoothers were fit for burned and unburned data, and anova tables were generated by *anova.gam*(). | | | | | |
| **Autofluorescent cells** | |  |  |  |  |
|  | *Effect* | *df /edf* | *Ref.df* | *F* | *p-value* |
|  |  |  |  |  |  |
| Day-10 | s(plant material) | 1.000 | 1.001 | 0.018 | 0.894 |
|  |  |  |  |  |  |
| Day-59 | s(plant material) | 1.363 | 1.635 | 0.207 | 0.694 |
|  |  |  |  |  |  |
| Day-89 | Treatment | 1.000 | – | 1.522 | 0.228 |
|  | s(plant material) : burned | 1.477 | 1.801 | 1.075 | 0.263 |
|  | s(plant material) : unburned | 2.214 | 2.728 | 1.436 | 0.340 |
|  |  |  |  |  |  |
| **Total microbial cells** | |  |  |  |  |
|  |  |  |  |  |  |
| Day-10 | s(plant material) | 3.844 | 4.673 | 4.304 | **0.007** |
|  |  |  |  |  |  |
| Day-59 | s(plant material) | 1.001 | 1.001 | 0.006 | 0.945 |
|  |  |  |  |  |  |
| Day-89 | Treatment | 1.000 | – | 2.177 | 0.151 |
|  | s(plant material) : burned | 1.000 | 1.001 | 0.170 | 0.684 |
|  | s(plant material) : unburned | 1.000 | 1.000 | 46.790 | **<0.001** |
| *Treatment* indicates the parametric term in GAM, *s(plant material)* is the smooth term for either burned or unburned treatments. *df / edf* column indicates either *df* (degrees of freedom) for parametric terms or *edf* (effective degrees of freedom) for smoother terms; *Ref.df* = reference degree of freedom, where dashes indicate NA for parametric terms. Significant effects (p<0.05) are in bold. | | | | | |