Gráfico, Gráfico de líneas

Descripción generada automáticamente

**Figures S1**. Erosion measurements during the 8-year period: precipitation and runoff (both in mm) and soil losses (t·ha-1) measured in the erosion plots. (A) Cumulative values and (B) Mean annual measurements with standard deviation. Different letters on the bars indicate statistically significant differences based in the ANOVA test (*P*<0.05). Soil managements are: TILL: tillage, CC-GRA: sown cover crop with gramineous, CC-MIX: sown cover crop with a mixture of species, CC: merging CC-GRA and CC-MIX.

Gráfico, Gráfico de barras

Descripción generada automáticamente

**Figures S2**. Taxonomic resolution of OTUs classified with the SILVA 13 Erosion measurements during the 8-year period: precipitation and runoff (both in mm) and soil losses (t·ha-1) measured in the erosion plots. (A) Cumulative values and (B) Mean annual measurements with standard deviation. Different letters on the bars indicate statistically significant differences (*P*<0.05). Soil managements are: TILL: tillage, CC-GRA: sown cover crop with gramineous, CC-MIX: sown cover crop with a mixture of species, CC: merging CC-GRA and CC-MIX. 8 databases for bacteria. For each taxonomic classification, the lowest level was determined by plotting the total number of Reads and OTUs associated with the lowest level of classification.

Imagen que contiene Calendario

Descripción generada automáticamente

**Figures S3**. Comparison of rarefaction curves of observed OTUs obtained from an olive orchard soil under different cover crop managements (TILL: tillage, CC-GRA: sown cover crop with gramineous, CC-MIX: sown cover crop with a mixture of species) and CC-NAT (cover crop with spontaneous vegetation) and for each sampling point on the slope. The sampling points on the slope of the field for each treatment. Data shown are before rarefication.

Gráfico

Descripción generada automáticamente

**Figures S4**. Non-metric multidimensional scaling (NMDS) plot based on Bray-Curtis (left) and Jaccard (right) dissimilarity distances from an olive orchard soil under different cover crop managements (TILL: tillage, CC-GRA: sown cover crop with gramineous, CC-MIX: sown cover crop with a mixture of species) and CC-NAT (cover crop with spontaneous vegetation) for each sampling point on the slope. Stress values of the ordination analysis are shown at the top right of each plot.

Gráfico, Gráfico circular

Descripción generada automáticamente

**Figures S5**. Prevalence Venn diagram showing the unique and shared bacterial taxa at different taxonomic levels obtained from an olive orchard soil under different cover crop managements (TILL: tillage, CC-GRA: sown cover crop with gramineous, CC-MIX: sown cover crop with a mixture of species) and CC-NAT (cover crop with spontaneous vegetation). The total number of taxa is indicated between brackets. \*Number of taxa that stopped at a higher taxonomic level.

Imagen que contiene Diagrama

Descripción generada automáticamente

**Figures S6**. Prevalence Venn diagram showing the unique and shared bacterial genera obtained from an olive orchard soil under different cover crop managements (TILL: tillage, CC-GRA: sown cover crop with gramineous, CC-MIX: sown cover crop with a mixture of species) and CC-NAT (cover crop with spontaneous vegetation). The total number of genera is indicated between brackets and the core and unique genera names for each treatment. \*Number of OTUs that stopped at a higher taxonomic level.

Gráfico, Gráfico de dispersión

Descripción generada automáticamente

**Figures S7**. Differential OTU abundance analysis with DESeq2 R package at the order level. (A) Volcano plot representation of bacterial orders that are either up or down regulated; (B) Mean Decrease Accuracy plot of most important differentially expressed bacterial orders for microbial community obtained by random forest classifier; (C) Box-plot representation of the seven most abundant orders with a different significant abundance, for each taxon is represented the Log-relative normalised abundance among soil treatments and p-values from Wald test.

Gráfico

Descripción generada automáticamente

**Figures S8**. Differential OTU abundance analysis with DESeq2 R package at the family level. (A) Volcano plot representation of bacterial families that are either up or down regulated; (B) Mean Decrease Accuracy plot of most important differentially expressed bacterial families for microbial community obtained by random forest classifier; (C) Box-plot representation of the seven most abundant families with a different significant abundance, for each taxon is represented the Log-relative normalised abundance among soil treatments and p-values from Wald test.

**Diagrama

Descripción generada automáticamente con confianza media**

**Figure S9**. Differential OTU abundance analysis with DESeq2 R package at the genus level. (A) Volcano plot representation of bacterial genera that are either up or down regulated; (B) Mean Decrease Accuracy plot of most important differentially expressed bacterial genera for microbial community obtained by random forest classifier; (C) Box-plot representation of the seven most abundant genera with a different significant abundance, for each taxon is represented the Log-relative normalised abundance among soil treatments and p-values from Wald test.