Table S1 Results of indicator species analysis showing AMF characteristic (indicator value > 0.25, p.value < 0.05) in each habitat type

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| OTUID | genus | species | s.bushwood | s.arableland | s.grassland | s.forestland | stat | p.value |
| OTU\_7 | Glomus | Glomus\_sp.\_C\_2-25 | 0 | 1 | 0 | 0 | 0.804 | 0.0095 |
| OTU\_45 | Glomus | Glomus\_indicum | 0 | 1 | 0 | 0 | 0.764 | 0.0143 |
| OTU\_94 | Glomus | Glomus\_indicum | 0 | 1 | 0 | 0 | 0.728 | 0.0169 |
| OTU\_683 | Glomus | Glomus\_sp.\_MO-G6 | 1 | 0 | 0 | 0 | 0.804 | 0.0176 |
| OTU\_17 | Glomus | Glomus\_sp.\_VeGlo18 | 1 | 0 | 0 | 0 | 0.878 | 0.0177 |
| OTU\_51 | Glomus | Glomus\_sp.\_Glo38 | 1 | 0 | 0 | 0 | 1.000 | 0.0177 |
| OTU\_57 | Glomus | Glomus\_sp.\_Glo50 | 1 | 0 | 0 | 0 | 0.928 | 0.0177 |
| OTU\_60 | Glomus | Glomus\_sp.\_Glo40 | 1 | 0 | 0 | 0 | 0.998 | 0.0177 |
| OTU\_61 | Glomus | Glomus\_sp.\_MO-G8 | 1 | 0 | 0 | 0 | 0.883 | 0.0177 |
| OTU\_83 | Glomus | Glomus\_sp.\_VeGloB | 1 | 0 | 0 | 0 | 0.968 | 0.0177 |
| OTU\_343 | Glomus | Glomus\_sp.\_Glo50 | 1 | 0 | 0 | 0 | 1.000 | 0.0177 |
| OTU\_420 | Glomus | Glomus\_sp.\_MO-G8 | 1 | 0 | 0 | 0 | 0.691 | 0.0177 |
| OTU\_586 | Glomus | Glomus\_sp.\_MO-G6 | 1 | 0 | 0 | 0 | 0.986 | 0.0177 |
| OTU\_6 | Glomus | Glomus\_sp.\_M01 | 0 | 1 | 0 | 0 | 0.758 | 0.0179 |
| OTU\_18 | Glomus | Glomus\_sp.\_Glo45 | 0 | 1 | 0 | 0 | 0.808 | 0.0179 |
| OTU\_31 | Septoglomus | Septoglomus\_viscosum | 0 | 1 | 0 | 0 | 0.830 | 0.0179 |
| OTU\_34 | Rhizophagus | Rhizophagus\_intraradices | 0 | 1 | 0 | 0 | 0.821 | 0.0179 |
| OTU\_49 | Septoglomus | Septoglomus\_constrictum | 0 | 1 | 0 | 0 | 0.860 | 0.0179 |
| OTU\_76 | Glomus | Glomus\_sp.\_C\_2-2 | 0 | 1 | 0 | 0 | 0.853 | 0.0179 |
| OTU\_86 | Septoglomus | Septoglomus\_viscosum | 0 | 1 | 0 | 0 | 0.948 | 0.0179 |
| OTU\_237 | Glomus | Glomus\_sp.\_NBR\_PP1 | 0 | 1 | 0 | 0 | 1.000 | 0.0179 |
| OTU\_246 | Glomus | Glomus\_sp.\_MS | 0 | 1 | 0 | 0 | 0.916 | 0.0179 |
| OTU\_772 |  | Glomeromycota\_sp.\_WR856-B | 0 | 1 | 0 | 0 | 0.999 | 0.0179 |
| OTU\_9 | Glomus | Glomus\_sp.\_Glo38 | 0 | 0 | 1 | 0 | 0.843 | 0.0183 |
| OTU\_16 |  | Glomeromycota\_sp.\_AB-2014 | 0 | 0 | 1 | 0 | 0.791 | 0.0183 |
| OTU\_21 | Septoglomus | Septoglomus\_viscosum | 0 | 0 | 1 | 0 | 0.817 | 0.0183 |
| OTU\_35 | Glomus | Glomus\_sp.\_MSLA-8 | 0 | 0 | 1 | 0 | 0.888 | 0.0183 |
| OTU\_68 | Glomus | Glomus\_sp.\_C\_2-2 | 0 | 0 | 1 | 0 | 0.817 | 0.0183 |
| OTU\_80 | Glomus | Glomus\_sp.\_Glo2 | 0 | 0 | 1 | 0 | 0.823 | 0.0183 |
| OTU\_84 | Glomus | Glomus\_sp.\_Glo14 | 0 | 0 | 1 | 0 | 0.807 | 0.0183 |
| OTU\_91 | Glomus | Glomus\_sp.\_5014b25.Llao5 | 0 | 0 | 1 | 0 | 0.983 | 0.0183 |
| OTU\_100 | Glomus | Glomus\_sp.\_Glo40 | 0 | 0 | 1 | 0 | 0.953 | 0.0183 |
| OTU\_220 | Glomus | Glomus\_sp.\_NBR\_PP1 | 0 | 0 | 1 | 0 | 1.000 | 0.0183 |
| OTU\_263 | Glomus | Glomus\_sp.\_Glo40 | 0 | 0 | 1 | 0 | 0.924 | 0.0183 |
| OTU\_583 | Glomus | Glomus\_sp.\_Glo16 | 0 | 0 | 1 | 0 | 1.000 | 0.0183 |
| OTU\_702 | Glomus | Glomus\_sp.\_Glo38 | 0 | 0 | 1 | 0 | 0.814 | 0.0183 |
| OTU\_2 | Glomus | Glomus\_sp.\_0904-1 | 0 | 0 | 0 | 1 | 0.763 | 0.0193 |
| OTU\_64 |  | Glomeromycota\_sp.\_MIB\_8859 | 0 | 0 | 0 | 1 | 0.889 | 0.0193 |
| OTU\_166 | Glomus | Glomus\_sp.\_C\_3-10 | 0 | 0 | 0 | 1 | 0.951 | 0.0193 |
| OTU\_238 | Paraglomus | Paraglomus\_sp.\_BSTA-3 | 0 | 0 | 0 | 1 | 0.971 | 0.0193 |
| OTU\_77 | Septoglomus | Septoglomus\_viscosum | 0 | 1 | 0 | 0 | 0.772 | 0.0280 |
| OTU\_101 | Glomus | Glomus\_sp.\_PSAMG4 | 0 | 0 | 0 | 1 | 0.870 | 0.0341 |
| OTU\_92 | Diversispora | Diversispora\_sp.\_S-MA-3 | 1 | 0 | 0 | 0 | 0.907 | 0.0343 |
| OTU\_145 | Glomus | Glomus\_sp.\_Glo38 | 1 | 0 | 0 | 0 | 0.892 | 0.0347 |
| OTU\_69 |  | Glomeromycota\_sp.\_AB-2014 | 0 | 0 | 1 | 0 | 0.899 | 0.0348 |
| OTU\_8 | Glomus | Glomus\_sp.\_MO-G6 | 0 | 0 | 0 | 1 | 0.586 | 0.0351 |
| OTU\_24 | Glomus | Glomus\_sp.\_BSLA-7 | 0 | 0 | 0 | 1 | 0.791 | 0.0351 |
| OTU\_552 | Septoglomus | Septoglomus\_viscosum | 0 | 0 | 1 | 0 | 0.835 | 0.0364 |
| OTU\_4 |  | Glomeromycota\_sp.\_AB-2014 | 0 | 0 | 0 | 1 | 0.781 | 0.0367 |
| OTU\_102 |  | Glomeromycota\_sp.\_MIB\_8856 | 0 | 0 | 0 | 1 | 0.799 | 0.0367 |
| OTU\_169 | Glomus | Glomus\_sp.\_C\_3-10 | 0 | 0 | 1 | 0 | 0.806 | 0.0368 |
| OTU\_619 | Glomus | Glomus\_sp.\_VeGlo10 | 1 | 0 | 0 | 0 | 0.778 | 0.0368 |
| OTU\_41 | Glomus | Glomus\_sp.\_Glo16 | 0 | 0 | 1 | 0 | 0.698 | 0.0369 |
| OTU\_37 | Glomus | Glomus\_sp.\_Glo3b | 0 | 0 | 0 | 1 | 0.800 | 0.0371 |
| OTU\_32 | Glomus | Glomus\_perpusillum | 1 | 0 | 0 | 0 | 0.707 | 0.0373 |
| OTU\_679 | Glomus | Glomus\_sp.\_Glo25 | 0 | 0 | 0 | 1 | 0.802 | 0.0378 |
| OTU\_723 | Glomus | Glomus\_sp.\_0904-1 | 0 | 0 | 0 | 1 | 0.771 | 0.0388 |

Note: 1 represent the indicator species of this group.