**Table S3** Module hubs and connectors in the molecular ecological networks of bacterial and fungal communities in urban and suburban park soils.

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| Ecological networks | Type of points | OTU ID | Phylum/classes | Lowest taxonomic rank |
| Networks of bacterial communities in urban park soils | Module Hubs | OTU1526 | Acidobacteriota/ Vicinamibacteria | c\_\_Vicinamibacteria |
| OTU3516 | Acidobacteriota/ Vicinamibacteria | o\_\_Vicinamibacterales; |
| OTU1019 | Acidobacteriota/ Vicinamibacteria | o\_\_Vicinamibacterales; |
| OTU2368 | Actinobacteriota/ Actinobacteria | f\_\_Intrasporangiaceae |
| OTU717 | Actinobacteriota/ Thermoleophilia | o\_\_Solirubrobacterales |
| OTU2939 | Actinobacteriota/ Acidimicrobiia | f\_\_Ilumatobacteraceae |
| OTU3091 | Proteobacteria/ Alphaproteobacteria | f\_\_Hyphomonadaceae |
| OTU3220 | Proteobacteria/ Gammaproteobacteria | f\_\_Sutterellaceae |
| OTU186 | Myxococcota/ Polyangia | o\_\_Polyangiales |
| OTU123 | Chloroflexi/ Chloroflexia | f\_\_Roseiflexaceae |
| Networks of bacterial communities in suburban park soils | Module Hubs | OTU2111 | Chloroflexi/ Dehalococcoidia | c\_\_Dehalococcoidia |
| OTU1582 | Chloroflexi/ Dehalococcoidia | c\_\_Dehalococcoidia |
| OTU3043 | Chloroflexi/ JG30-KF-CM66 | c\_\_JG30-KF-CM66 |
| OTU635 | Gemmatimonadota/ Gemmatimonadetes | f\_\_Gemmatimonadaceae |
| OTU268 | Gemmatimonadota/ Gemmatimonadetes | g\_\_Gemmatimonas |
| OTU2375 | Myxococcota/ bacteriap25 | c\_\_bacteriap25 |
| OTU1525 | Myxococcota/ Polyangia | f\_\_Sandaracinaceae |
| OTU2365 | Desulfobacterota/ Desulfuromonadia | c\_\_Desulfuromonadia |
| OTU2306 | Desulfobacterota/ Desulfobulbia | f\_\_Desulfocapsaceae |
| OTU2929 | Proteobacteria/ Gammaproteobacteria | f\_\_Nitrosomonadaceae |
| OTU3547 | Proteobacteria/ Gammaproteobacteria | f\_\_Nitrosomonadaceae |
| OTU3516 | Acidobacteriota/ Vicinamibacteria | o\_\_Vicinamibacterales |
| OTU238 | Methylomirabilota/ Methylomirabilia | o\_\_Rokubacteriales |
| Connectors | OTU2013 | Chloroflexi/ Dehalococcoidia | c\_\_Dehalococcoidia |
| OTU2638 | Myxococcota/ Myxococcia | g\_\_Anaeromyxobacter |
| OTU70 | Proteobacteria/ Alphaproteobacteria | g\_\_Bosea |
| OTU3019 | Acidobacteriota/ Acidobacteriae | g\_\_Bryobacter |
| OTU888 | Actinobacteriota/ Actinobacteria | g\_\_Cellulomonas |
| OTU1176 | Actinobacteriota/ Acidimicrobiia | f\_\_Ilumatobacteraceae |
| OTU757 | Patescibacteria/ Saccharimonadia | o\_\_Saccharimonadales |
| Networks of fungal communities in urban park soils | Module Hubs | OTU1658 | Ascomycota/ Dothideomycetes | g\_\_Massarina |
| OTU1699 | Ascomycota/ Dothideomycetes | g\_\_Paraconiothyrium |
| OTU2870 | Ascomycota/ Sordariomycetes | g\_\_Ramophialophora |
| OTU881 | Ascomycota/ Sordariomycetes | g\_\_Acremonium |
| OTU3241 | Ascomycota/ Leotiomycetes | g\_\_Bisporella |
| Connectors | OTU499 | Ascomycota/ Dothideomycetes | g\_\_Wiesneriomyces |
| OTU2528 | Mortierellomycota/ Mortierellomycetes | g\_\_Mortierella |
| OTU1410 | Mortierellomycota/ Mortierellomycetes | g\_\_Mortierella |
| Networks of fungal communities in suburban park soils | Module Hubs | OTU2324 | Ascomycota/ Sordariomycetes | g\_\_Emericellopsis |
| OTU1124 | Ascomycota/ Sordariomycetes | g\_\_Trichoderma |
| Connectors | OTU442 | Ascomycota/ Sordariomycetes | g\_\_Gibellulopsis |
| OTU2179 | Ascomycota/ Sordariomycetes | g\_\_Chaetomium |
| OTU464 | Ascomycota/ Dothideomycetes | f\_\_Didymellaceae |