soil organic soil moisture soil organic matter w soil surface "soil\* microbiology" OR "soil\* biology" water content soil science society OR "soil\* science" soil respiration organic matter soil water soil microbial biomass microbial biomassic organic carbon soil science 1916-2013 soil properties soil quality microbial biomass soil fertility microbial activity microbial community composition obial land use soil microbial communities soil microbes phospholipid fatty acid microbial populations heavy metals microbial community structure soil microorganisms petroleum hydrocarbons crude oil amino acids contaminated sonseudomonas putida arbuscular mycorrhizal fungi business media polycyclic aromatic hydrocarbons springer science plant species degradation rate host plant pseudomonas fluorescens pseudomonas aeruginosa microbial degradation plant roots pseudomonas sp polyphasic approach soil bacterium carbon source sole carbon source species richness dna-dna relatedness bacillus subtilis rrna gene seguence similarity major fatty acids

16s rrna gene sequence enrichment cultures soil fungi phylogenetic analysis soil bacteria fungal communities community composition esc c content escherichia coli sequence similarity methods and results community structure dna-dna hybridization fatty acids bacterial community structure significance and impact 16s rrna gene sequence analysis coli o157 16s rdna sequence soil bacterial communities n society for microbiology gradient gel electrophorestsiction fraement length polymorphism bacterial diversity of terial combionisms of the sequence analysis 16s rma gene diversity of the sequence analysis 16s rma gradient operations of the sequence analysis and the sequence analysis of the sequence of the seque libraries environmental samples microbial communities polymerase chain reaction

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