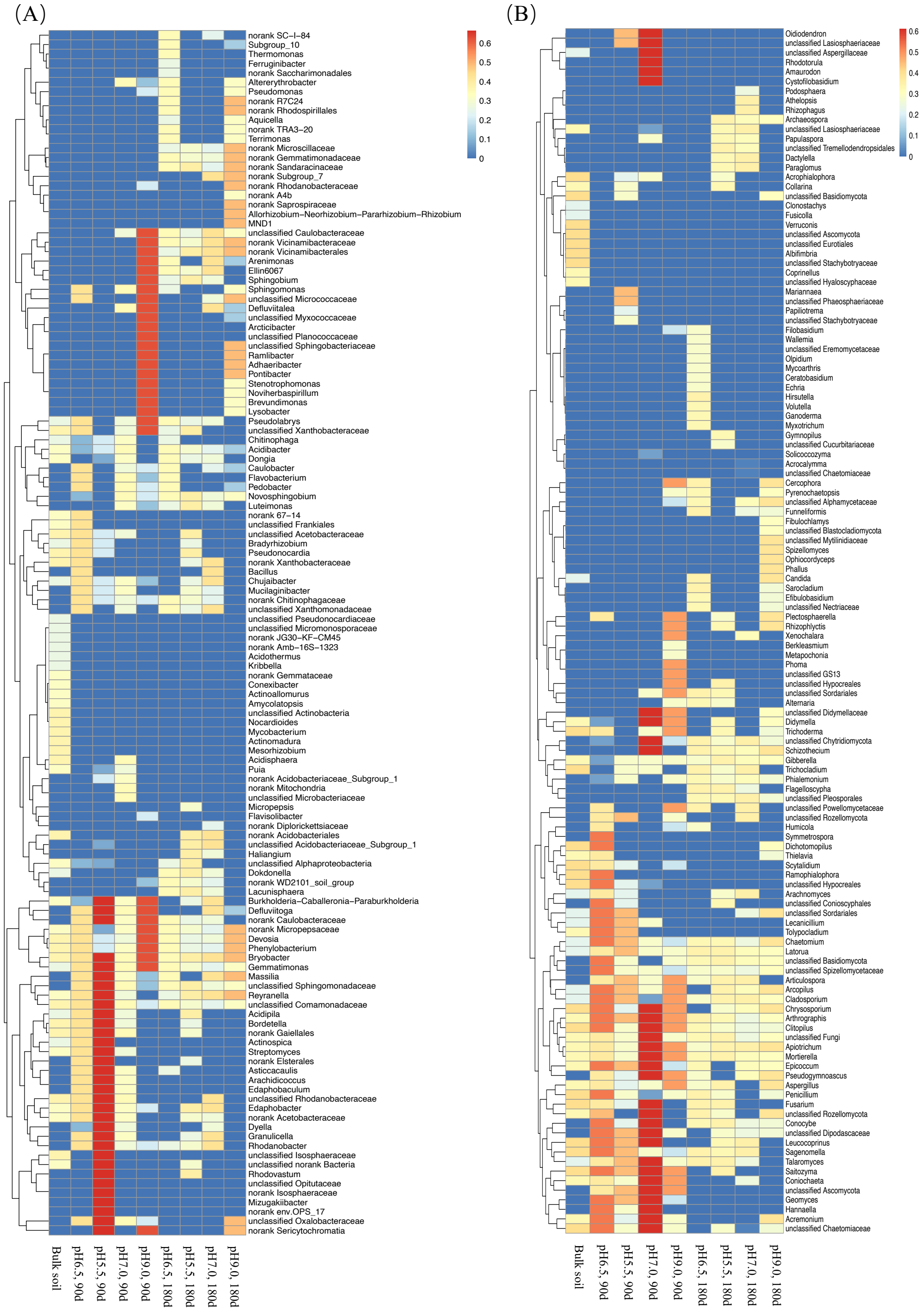
(A)
norank SC−I−84
Subgroup_10
Thermomonas
Ferruginibacter
norank Saccharimonadales
Altererythrobacter
Pseudomonas
norank R7C24
norank Rhodospirillales
Aquicella
norank TRA3−20
Terrimonas
norank Microscillaceae
norank Gemmatimonadaceae
norank Sandaracinaceae
norank Subgroup_7
norank Rhodanobacteraceae
norank A4b
norank Saprospiraceae
Allorhizobium−Neorhizobium−Pararhizobium−Rhizobium
MND1
unclassified Caulobacteraceae
norank Vicinamibacteraceae
norank Vicinamibacterales
Arenimonas
Ellin6067
Sphingobium
Sphingomonas
unclassified Micrococcaceae
Defluviitalea
unclassified Myxococcaceae
Arcticibacter
unclassified Planococcaceae
unclassified Sphingobacteriaceae
Ramlibacter
Adhaeribacter
Pontibacter
Stenotrophomonas
Noviherbaspirillum
Brevundimonas
Lysobacter
Pseudolabrys
unclassified Xanthobacteraceae
Chitinophaga
Acidibacter
Dongia
Caulobacter
Flavobacterium
Pedobacter
Novosphingobium
Luteimonas
norank 67−14
unclassified Frankiales
unclassified Acetobacteraceae
Bradyrhizobium
Pseudonocardia
norank Xanthobacteraceae
Bacillus
Chujaibacter
Mucilaginibacter
norank Chitinophagaceae
unclassified Xanthomonadaceae
unclassified Pseudonocardiaceae
unclassified Micromonosporaceae
norank JG30−KF−CM45
norank Amb−16S−1323
Acidothermus
Kribbella
norank Gemmataceae
Conexibacter
Actinoallomurus
Amycolatopsis
unclassified Actinobacteria
Nocardioides
Mycobacterium
Actinomadura
Mesorhizobium
Acidisphaera
Puia
norank Acidobacteriaceae_Subgroup_1
norank Mitochondria
unclassified Microbacteriaceae
Micropepsis
Flavisolibacter
norank Diplorickettsiaceae
norank Acidobacteriales
unclassified Acidobacteriaceae_Subgroup_1
Haliangium
unclassified Alphaproteobacteria
Dokdonella
norank WD2101_soil_group
Lacunisphaera
Burkholderia−Caballeronia−Paraburkholderia
Defluviitoga
norank Caulobacteraceae
norank Micropepsaceae
Devosia
Phenylobacterium
Bryobacter
Gemmatimonas
Massilia
unclassified Sphingomonadaceae
Reyranella
unclassified Comamonadaceae
Acidipila
Bordetella
norank Gaiellales
Actinospica
Streptomyces
norank Elsterales
Asticcacaulis
Arachidicoccus
Edaphobaculum
unclassified Rhodanobacteraceae
Edaphobacter
norank Acetobacteraceae
Dyella
Granulicella
Rhodanobacter
unclassified Isosphaeraceae
unclassified norank Bacteria
Rhodovastum
unclassified Opitutaceae
norank Isosphaeraceae
Mizugakiibacter
norank env.OPS_17
unclassified Oxalobacteraceae
norank Sericytochromatia
0.6
0.5
0.4
0.3
0.2
0.1
0
Bulk soil
pH6.5, 90d
pH5.5, 90d
pH7.0, 90d
pH9.0, 90d
pH6.5, 180d
pH5.5, 180d
pH7.0, 180d
pH9.0, 180d
(B)
Oidiodendron
unclassified Lasiosphaeriaceae
unclassified Aspergillaceae
Rhodotorula
Amaurodon
Cystofilobasidium
Podosphaera
Athelopsis
Rhizophagus
Archaeospora
unclassified Lasiosphaeriaceae
Papulaspora
unclassified Tremellodendropsidales
Dactylella
Paraglomus
Acrophialophora
Collarina
unclassified Basidiomycota
Clonostachys
Fusicolla
Verruconis
unclassified Ascomycota
unclassified Eurotiales
Albifimbria
unclassified Stachybotryaceae
Coprinellus
unclassified Hyaloscyphaceae
Mariannaea
unclassified Phaeosphaeriaceae
Papiliotrema
unclassified Stachybotryaceae
Filobasidium
Wallemia
unclassified Eremomycetaceae
Olpidium
Mycoarthris
Ceratobasidium
Echria
Hirsutella
Volutella
Ganoderma
Myxotrichum
Gymnopilus
unclassified Cucurbitariaceae
Solicoccozyma
Acrocalymma
unclassified Chaetomiaceae
Cercophora
Pyrenochaetopsis
unclassified Alphamycetaceae
Funneliformis
Fibulochlamys
unclassified Blastocladiomycota
unclassified Mytilinidiaceae
Spizellomyces
Ophiocordyceps
Phallus
Candida
Sarocladium
Efibulobasidium
unclassified Nectriaceae
Plectosphaerella
Rhizophlyctis
Xenochalara
Berkleasmium
Metapochonia
Phoma
unclassified GS13
unclassified Hypocreales
unclassified Sordariales
Alternaria
unclassified Didymellaceae
Didymella
Trichoderma
unclassified Chytridiomycota
Schizothecium
Gibberella
Trichocladium
Phialemonium
Flagelloscypha
unclassified Pleosporales
unclassified Powellomycetaceae
unclassified Rozellomycota
Humicola
Symmetrospora
Dichotomopilus
Thielavia
Scytalidium
Ramophialophora
unclassified Hypocreales
Arachnomyces
unclassified Conioscyphales
unclassified Sordariales
Lecanicillium
Tolypocladium
Chaetomium
Latorua
unclassified Basidiomycota
unclassified Spizellomycetaceae
Articulospora
Arcopilus
Cladosporium
Chrysosporium
Arthrographis
Clitopilus
unclassified Fungi
Apiotrichum
Mortierella
Epicoccum
Pseudogymnoascus
Aspergillus
Penicillium
Fusarium
unclassified Rozellomycota
Conocybe
unclassified Dipodascaceae
Leucocoprinus
Sagenomella
Talaromyces
Saitozyma
Coniochaeta
unclassified Ascomycota
Geomyces
Hannaella
Acremonium
unclassified Chaetomiaceae
0.6
0.5
0.4
0.3
0.2
0.1
0
Bulk soil
pH6.5, 90d
pH5.5, 90d
pH7.0, 90d
pH9.0, 90d
pH6.5, 180d
pH5.5, 180d
pH7.0, 180d
pH9.0, 180d