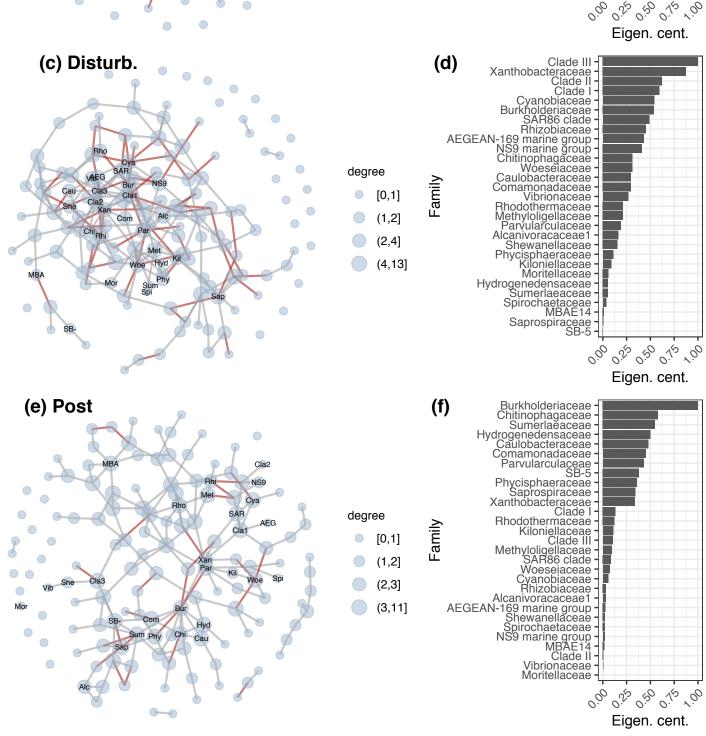
S. radians (b) Rhodothermaceae Kiloniellaceae Moritellaceae Methyloligellaceae MBAE14 Alcanivoracaceae1 Vibrionaceae Woesejaceae Shewanellaceae Spirochaetaceae Phycisphaeraceae NS9 marine group Rhizobiaceae degree WoeRhi Caulobacteraceae Saprospiraceae Parvularculaceae Cyanobiaceae SB-5 Mor NS9 [0,1](1,2]Clade III Hydrogenedensaceae AEGEAN-169 marine group Burkholderiaceae SAR86 clade Clade I Clade I (2,4](4,9]Xanthobacteraceae Chitinophagaceae Comamonadaceae Sum Sumerlaeaceae 03/20/20 01/20/00 Eigen. cent. (d) Clade III -Xanthobacteraceae -Clade II -Clade I -Cyanobiaceae Burkholderiaceae SAR86 clade Rhizobiaceae AEGEAN-169 marine group NS9 marine group Chitinophagaceae Woeseiaceae Caulobacteraceae Comamonadaceae Vibronaceae degree Family [0,1]Rhodothermaceae Methyloligellaceae Parvularculaceae (1,2]Alcanivoracaceae1 (2,4]Shewanellaceae Phycisphaeraceae Kiloniellaceae Moritellaceae (4,13]Hydrogenedensaceae Sumerlaeaceae Spirochaetaceae MBAE14 Saprospiraceae SB-5 0.25 0.75 050 Eigen. cent. **(f)** Burkholderiaceae Chitinophagaceae Sumerlaĕaceae



(a) Pre

Chi

Cla2

Cla3

AEG

SAR

RhoPhy