

Table S6. Taxonomic hierarchy of the 52 ESVs with 100% identity match to one or more potentially pathogenic microbes (PPM). PPM:TM indicates the ratio of PPM to total microbe (TM) matches at 100% identity. Citations document the pathogenicity of each taxon in humans (h), animals (a), or vascular plants / macroalgae (p). Asterisks denote suspected pathogens. Citation numbers correspond to references in main text.

ESV	Order	Family	PPM Matches	PPM:TM
P: Actinomycetota C: Actinomycetes				
ESV_061096	Mycobacteriales	<i>Mycobacteriaceae</i>	<i>Mycobacterium flavescens</i> [71] ^h	1:1
P: Bacteroidota C: Bacteroidia				
ESV_016069	Bacteroidales	<i>Bacteroidaceae</i>	<i>Bacteroides graminisolvens</i> [72] ^{h*}	1:1
ESV_073277		<i>Marinilabiliaceae</i>	<i>Carboxylicivirga mesophila</i> [73] ^{a*}	1:1
P: Bacteroidota C: Flavobacteriia				
ESV_000286			<i>Flavobacterium succinicans</i> [74] ^a	1:2
ESV_000527	Flavobacteriales	<i>Flavobacteriaceae</i>	<i>Flavobacterium tractae</i> (= <i>spartansii</i>) [75] ^a , <i>F. succinicans</i> [74] ^a	2:9
ESV_065667			<i>Flavobacterium indicum</i> [76] ^{a*}	1:1
ESV_069856			<i>Tenacibaculum discolor</i> [77] ^a , <i>T. gallaicum</i> [77] ^a , <i>T. mesophilum</i> [78] ^{a*}	3:10
P: Campylobacterota C: Epsilonproteobacteria				
ESV_072564	Campylobacterales	<i>Arcobacteraceae</i>	<i>Aliarcobacter</i> (= <i>Arcobacter</i>) <i>cryaerophilus</i> [79] ^{h, a}	1:1
P: Bacillota C: Bacilli				
ESV_000077	Bacillales	<i>Bacillaceae</i>	<i>Exiguobacterium aurantiacum</i> [80] ^{h*} , <i>E. profundum</i> [81] ^h	2:7
ESV_000004	Lactobacillales	<i>Streptococcaceae</i>	<i>Streptococcus equinus</i> [82] ^h , <i>S. gallolyticus</i> [82] ^h , <i>S. infantarius</i> [82] ^h , <i>S. lutetiensis</i> [82] ^h	4:4
P: Bacillota C: Clostridia				
ESV_001146	Eubacteriales	<i>Clostridiaceae</i>	<i>Clostridium disporicum</i> [83] ^h , <i>C. saudiense</i> [84] ^h	2:2
P: Pseudomonadota C: Alphaproteobacteria				
ESV_005019	Hyphomicrobiales	<i>Methylobacteriaceae</i>	<i>Methylobacterium fujisawaense</i> [85] ^h , <i>M. mesophilicum</i> [86] ^h , <i>M. radiotolerans</i> [87] ^h	3:10
P: Pseudomonadota C: Betaproteobacteria				
ESV_016064	Burkholderiales	<i>Burkholderiaceae</i>	<i>Ralstonia mannitolilytica</i> [88] ^h , <i>R. pickettii</i> [89] ^h	2:2
ESV_013699		<i>Comamonadaceae</i>	<i>Paracidovorax</i> (= <i>Acidovorax</i>) <i>anthurii</i> [36] ^p	1:3

P: Pseudomonadota | C: Gammaproteobacteria

ESV_000099	Aeromonadales	<i>Aeromonadaceae</i>	<i>Aeromonas caviae</i> [90] ^h , <i>A. enteropelogenes</i> [91] ^h , <i>A. hydrophila</i> [90] ^h , <i>A. jandaei</i> [92] ^a , <i>A. veronii</i> [90] ^h	5:6
ESV_008978	Alteromonadales	<i>Pseudoalteromonadaceae</i>	<i>Pseudoalteromonas agarivorans</i> [93] ^a , <i>P. arctica</i> [94] ^p , <i>P. elyakovii</i> [38] ^p , <i>P. marina</i> [39] ^p , <i>P. piratica</i> [95] ^a , <i>P. spongiae</i> [96] ^a	6:13
ESV_010267			<i>Pseudoalteromonas agarivorans</i> [93] ^a , <i>P. atlantica</i> [97] ^a , <i>P. shioyasakiensis</i> [98] ^a , <i>P. tetraodonis</i> [99] ^a , <i>P. undina</i> [100] ^a	5:22
ESV_010708			<i>Pseudoalteromonas piscicida</i> [40] ^p	1:7
ESV_033709			<i>Pseudoalteromonas tunicata</i> [101] ^{a, p}	1:2
ESV_073099			<i>Algicola bacteriolytica</i> [102] ^p	1:1
ESV_073199			<i>Pseudoalteromonas agarivorans</i> [93] ^a	1:1
ESV_073723			<i>Pseudoalteromonas piscicida</i> [40] ^p	1:1
ESV_073028		<i>Alteromonadaceae</i>	<i>Agarivorans albus</i> [103] ^p	1:2
ESV_073069		<i>Shewanellaceae</i>	<i>Shewanella colwelliana</i> [104] ^a	1:2
ESV_073075			<i>Shewanella aquimarina</i> [105] ^a , <i>S. marisflavi</i> [106] ^a	2:10
ESV_073097			<i>Shewanella colwelliana</i> [104] ^a	1:1
ESV_073179			<i>Shewanella aquimarina</i> [105] ^a	1:2
ESV_075534		<i>Ferrimonadaceae</i>	<i>Ferrimonas balearica</i> [107] ^{h*, a*}	1:1
ESV_010485	Vibrionales	<i>Vibrionaceae</i>	<i>Vibrio areninigræ</i> [108] ^a , <i>V. hispanicus</i> [109] ^a	2:2
ESV_010582			<i>Vibrio fortis</i> [34] ^a	1:1
ESV_010584			<i>Photobacterium rosenbergii</i> [9] ^{a*} , <i>P. sanctipauli</i> [110] ^{a*}	2:5
ESV_010681			<i>Vibrio alginolyticus</i> [111] ^h , <i>V. antiquarius</i> [112] ^{h*} , <i>V. brasiliensis</i> [113] ^a , <i>V. campbellii</i> [114] ^a , <i>V. coralliilyticus</i> [115] ^a , <i>V. harveyi</i> [35] ^a , <i>V. ichthyoenteri</i> [33] ^a , <i>V. neptunius</i> [116] ^a , <i>V. owensii</i> [117] ^a , <i>V. parahaemolyticus</i> [118] ^h , <i>V. ponticus</i> [119] ^a , <i>V. rotiferianus</i> [120] ^a , <i>V. scopthalmi</i> [121] ^a , <i>V. sinaloensis</i> [122] ^a , <i>V. tubiashii</i> [123] ^a	15:26
ESV_010771			<i>Photobacterium phosphoreum</i> [124] ^a , <i>P. sanguinicancrici</i> [125] ^a , <i>P. swingsii</i> [126] ^a	3:9
ESV_010878			<i>Vibrio coralliilyticus</i> [115] ^a , <i>V. ponticus</i> [119] ^a , <i>V. rotiferianus</i> [120] ^a	3:6
ESV_011548			<i>Vibrio fortis</i> [34] ^a , <i>V. mediterranei</i> (= <i>shilonii</i>) [109] ^a , <i>V. parahaemolyticus</i> [118] ^h , <i>V. vulnificus</i> [118] ^h	4:4
ESV_012016			<i>Vibrio ponticus</i> [119] ^a	1:3

ESV_024808			<i>Vibrio fluvialis</i> [127], <i>V. furnissii</i> [128] ^{h*, a} , <i>V. parahaemolyticus</i> [118] ^h , <i>V. tubiashii</i> [123] ^a	4:5
ESV_028966			<i>Photobacterium damsela</i> [129] ^{h, a}	1:1
ESV_036327			<i>Vibrio campbellii</i> [114] ^a , <i>V. mediterranei</i> (= <i>shilonii</i>) [109] ^a , <i>V. sinaloensis</i> [122] ^a	3:3
ESV_061507			<i>Aliivibrio fischeri</i> [130] ^a , <i>A. salmonicida</i> [131] ^a , <i>A. wodanis</i> [132] ^a	3:6
ESV_069699			<i>Vibrio aestuarianus</i> [133] ^a , <i>V. mediterranei</i> (= <i>shilonii</i>) [109] ^a	2:3
ESV_069904			<i>Vibrio celticus</i> [134] ^{a*} , <i>V. chagasii</i> [135] ^a , <i>V. crassostreae</i> [136] ^a , <i>V. cyclitrophicus</i> [137] ^a , <i>V. kanaloae</i> [138] ^a , <i>V. splendidus</i> [139] ^a , <i>V. toranzoniae</i> [140] ^a	7:11
ESV_073082			<i>Vibrio tapetis</i> [141] ^a	1:3
ESV_073083			<i>Vibrio ponticus</i> [119] ^a	1:1
ESV_073334			<i>Vibrio diazotrophicus</i> [142] ^a	1:2
ESV_073721			<i>Vibrio ezurae</i> [34] ^a , <i>V. penaeicida</i> [143] ^a	2:10
ESV_073731			<i>Vibrio campbellii</i> [114] ^a	1:1
ESV_075146			<i>V. mediterranei</i> (= <i>shilonii</i>) [109] ^a	1:3
ESV_075595			<i>Photobacterium ganghwense</i> [96] ^a	1:1
ESV_001828	Cellvibrionales	<i>Cellvibrionaceae</i>	<i>Cellvibrio fibrivorans</i> [37] ^p	1:4
ESV_073954	Oceanospirillales	<i>Oceanospirillaceae</i>	<i>Oceanospirillum sanctuarii</i> [144] ^{a*}	1:3
ESV_008293	Pseudomonadales	<i>Pseudomonadaceae</i>	<i>Pseudomonas mendocina</i> [145] ^h , <i>P. oleovorans</i> [146] ^h , <i>P. putida</i> [147] ^h , <i>P. (= Stutzerimonas) stutzeri</i> [148] ^h	4:4
