MOLECULAR ECOLOGY RESOURCES

Supplemental Information for:

Opening a next-generation black box: ecological trends for hundreds of species-like taxa uncovered within a single bacterial >99% 16S rRNA operational taxonomic unit

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Table	of	Contents:
IUNIC		contents.

Text S1	Pages 2-5
Fig. S1	Pages 6-7
Fig. S2	Page 8
Fig. S3	Page 9
Fig. S4	Page 10
Fig. S5	Page 11
Fig. S6	Page 12
Table S1	Page 13
Table S2	Pages 14-23
Table S3	Page 24

Supplementary Materials Text S1

Development of PCR primers targeting a protein-encoding gene

We aimed on development of a primer pair suitable for specific amplification of a protein-encoding gene present in all *Polynucleobacter* bacteria from environmental samples. Due to the high polymorphisms of protein-encoding genes in *Polynucleobacter* strains, we expected to find suitable primer binding sites in the more conserved intergeneric sequences. We screened 61 genomes of *Polynucleobacter* strains for single copy genes in the length range of 198 to 348 bp for primer binding sites in their up- and downstream spacers. This length range was chosen in order to ensure high quality sequences from pairedend sequencing by the Illumina MiSeq system (2x300 bp read length). This search resulted only in a single gene with a suitable phylogenetic resolution and rather conserved flanking primer binding sites. Unfortunately, it turned out that primers matching to the various sequences of all four *Polynucleobacter* subgroups are not possible if a high degree of primer degeneration should be avoided. Therefore, only a primer pair specific for subcluster PnecC was further developed. In order to reveal the sequence variability at the targeted primer binding sites, the priB gene including flaking regions of a large number of cultivated strains were sequenced. The finally available set of priB sequences used for checking the primer binding sites included 377 sequences (254 non-redundant priB sequences, Suppl. Mat. Table S2). The binding site of the developed forward primer priBinnFd starts in the spacer region upstream of the priB gene and covers the first 14 bp of the priB gene. The binding site of the reverse primer priBinnRd is located a few bp downstream of the priB gene. The forward primer and the reverse primer contain two and one degenerated positions, respectively. In total, 14 of the 351 priB sequences representing subcluster PnecC showed mismatches with the forward primer. These 14 sequences cluster in eight $OTU_{98\%}$ (see below), of which two represent endosymbionts. The reverse primer did not show any mismatch with sequences of strains affiliated with subcluster PnecC. The primer pair amplifies sequences of 285-288 bp length, whereas the length polymorphism originates from indels located immediately downstream the priB gene. In some cases, the priB genes of strains affiliated with other Polynucleobacter subclusters differ in length from the genes of PnecC strains.

Sequence similarity threshold for discrimination of species-like OTU

We aimed on sequencing of priB amplicons of PnecC bacteria in environmental samples representing ecological gradients. Furthermore, we aimed on defining a sequence similarity threshold for clustering priB sequences in OTU best reflecting species-like OTU. In order to reveal potential thresholds, 102 Polynucleobacter genome sequences were clustered in species-like taxa by using a genome-based species delineation threshold of 95% average nucleotide identity (ANI) [1, 2]. Next, we compared intraand interspecific priB sequence similarity values (Fig. 1) and observed that the best priB threshold for species discrimination is > 4 bp sequence differences, which equals 98.3% sequence similarity. Two species showed for a few pairwise comparisons < 98% intraspecific priB sequence similarity, which accounted for 0.2% of all pairwise comparisons. This mainly involved comparisons between the amplus and simplex subgroups of *P. asymbioticus* [3]. On the other hand, some species delineated by ANI values < 95% showed priB sequence similarities > 98.3% (< 4 bp). This was the case in 2% of the pairwise comparisons of the 102 analyzed genomes. Such species were lumped into species complexes, of which seven were established. Based on a reference set of 254 priB sequences (non-redundant) and a threshold of 98% sequence similarity, 117 reference $OTU_{98\%}$ (refOTU) could be established (Suppl. Mat. Table S2). These 117 refOTU represent 108 species-like OTU, one species split into two refOTU and seven species complexes. The reference taxonomy list (Suppl. Mat. Table S2) was used for initial classification of OTU_{98%} obtained from environmental samples. All environmental OTU_{98%} not sharing with one of the reference sequences a sequence similarity of $\geq 98\%$ were termed environmental OTU (eOTU; Suppl. Mat. Table S2).

Amplicon sequencing of environmental samples

Sequencing of the amplicons of 120 priB samples (117 environmental samples and three controls) resulted in 18.7 x 10^6 raw paired-end sequences. Quality filtering and denoising removed 5.7 x 10^6 sequences. Length filtering for sequences < 285 or > 288 bp, and exclusion of sequences encoding additional stop codons removed 2208 sequences. Most of the sequences with an additional stop codon within the priB gene were found among the sequences only present with copy numbers < 10. In order to remove other sequences potentially impacted by PCR or sequencing errors, all sequences, which

appeared only in a single sample with copy numbers of < 10 were removed, which excluded another 900 sequences. Three samples were excluded from further analyses due to too low sequence numbers. The remaining 117 samples (114 environmental samples representing 99 habitats and three controls) were rarefied to 25 230 sequences per sample. A rarefaction analysis revealed that absolute sequence type (ASV) richness of all but one sample had reached an asymptote already for smaller sequence numbers (Supplementary Fig. S2). The remaining sequences represented 3210 ASV, which were clustered with a threshold of 98% sequence similarity in OTU, which were classified in a two-step process by using the reference sequence set. In the two controls with template DNA of one and four cultured strains, respectively, exclusively the expected OTU were detected. Another control consisted of a technical replicate of an OTU-rich environmental sample. The OTU specific read numbers of the two replicates correlated well (linear regression, R^2 =0.98, p=2.2e-16).

In order to test if all obtained environmental priB sequences represent PnecC sequences, a phylogenetic tree was calculated with all environmental and all reference sequences. This revealed that almost all sequences clustered within subcluster PnecC of the genus *Polynucleobacter*. However, despite slight primer mismatches, 41 of the 600 OTU clustered within subcluster PnecB1. However, these 41 PnecB1 eOTU represented only 0.14% of all reads obtained from the 114 environmental samples and none of those eOTU represented more than 0.05% of the total number of obtained reads. Interestingly, all those detections of PnecB1 eOTU originate from alkaline habitats characterized by higher Ca²⁺ concentrations, which fits to previous observations [4], however, due to the primer mismatches it is unlikely that the observed ratios of PnecC to PnecB1 reads reflect any real differences in relative abundances of the two groups.

References

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Suppl. Mat. Fig. S1. Maps of Europe depicting all sampling sites (top, left), Ca²⁺ concentrations (middle column) and pH of habitats (right column) in the regions Lapland, Central Europe and the Mediterranean island Corsica (France). **Next page**, geographic distribution of detection and pH-specific occupancy of some selected taxa. *Polynucleobacter paneuropaeus* and *P. sphagniphilus* represent common taxa with frequently high relative abundance and high occupancy. By contrast, *P. wuianus* and *P. meluiroseus* represent only locally abundant taxa with low occupancy values. Note the different scaling used for plotting the relative local abundance of eOTU0124.





eOTU0002



Polynucleobacter wuianus







eOTU0124



Polynucleobacter meluiroseus



Suppl. Mat. Fig. S2. (A) Rarefaction analysis of number of amplicon sequence variants (ASV) observed in the different sequenced samples. Each curve represents an individual sample. The six samples with the highest estimated numbers represent the five investigated running water systems (including one technical replicate). In a subsequent step, the numbers of reads per sample were rarefied to 25230 reads. (B) Species accumulation curves determined by using a sample-based rarefaction method (Mao Tau estimates, R function specaccum, Vegan package). Richness of species-like OTU (> 98% sequence similarity threshold) was estimated for all detections and for detections above particular detection thresholds. The bars show unconditional standard deviations. (C) Log-normal rank-abundance curves of individual samples. The five samples with total taxon numbers > 100 represent the five running water samples.



8

Suppl. Mat. Fig. S3. Canonical correspondance analysis (CCA, left column) and non-metric multidimensional scaling (NMDS) ordinations (right column) color-coded by pH of sample (A, B), by Ca^{2+} concentrations of samples (C, D), or by Ca^{2+} -preferences of the communities present in the different samples (E, F). The classification in the three community types corresponds to the classification shown in Fig. 4. The two plots shown in the top row are identical with those shown in Fig. 3 and are only displayed for comparison with the other plots.



Suppl. Mat. Fig. S4. Variables used for the variation partitioning analyses and results of variation partitioning analyses.

Chemical variables (Env)

pН

Conductivity (μ S/cm) Absorption, 250 nm (Abs250nm) Na⁺ Concentration (mg/l) Mg²⁺ Concentration (mg/L) Ca²⁺ Concentration (mg/L) SO₄²⁺ (sulphate) Concentration (mg/L) Total Ions (mg/l)

Geographic and climatic variables (GeoClim)

Latitude (decimal degrees) Altitude (m) Temperature Maximum in July (°C) Annual Mean Temperature (°C) Mean Temperature Warmest Quarter (°C)

Habitat properties (Habitat)

Surface Area (ha) Habitat Type (running, standing)



Suppl. Mat. Fig. S5. Top, pH of water samples and size of the investigated standing freshwater habitats (lakes, ponds and ditches). The line shows the result of a linear regression of the plotted data. **Bottom,** relationship of habitat size (surface area, hectar) and OTU richness determined by linear regression analyses. Because of the influence of pH on OTU richness (Fig. 6B), z values (slope) were determined by regressions for individual pH intervals of one pH unit, respectively. Only samples from standing waters were considered in this analysis. The obtained z values (slope of the relationship between surface area and OTU richness) are quite similar to the results previously reported by Reche et al. (2005) for entire bacterial communities (0.161 \pm 0.02, results based on DGGE data).



			Std Error			
pH_range	Ν	z	(z)	adjusted R ²	P value	Comment
4.0 - 5.0	10			-0.0187	0.3934	no significant linear model
4.5 - 5.5	20			-0.0133	0.4049	no significant linear model
5.0 - 6.0	23	0.1126	0.0448	0.1812	0.0195	*
5.5 - 6.5	27	0.1492	0.0520	0.2050	0.0079	**
6.0 - 7.0	27	0.1231	0.0508	0.1484	0.0223	*
6.5 - 7.5	30	0.1162	0.0349	0.2458	0.0023	**
7.0 - 8.0	25	0.1158	0.0355	0.2706	0.0032	**
7.5 - 8.5	29			0.0626	0.0937	no significant linear model

p < 0.05, *

p < 0.01, **

p < 0.001, ***

z values statistics

Average	0.123
SD	0.015
	0.113 -
Range	0.149

Reference

Reche, I., Pulido-Villena, E., Morales-Baquero, R., and E.O. Casamayor (2005) Does ecosystem size determine aquatic bacterial richness? Ecology 86 (7), 1715-1722

Suppl. Mat. Fig. S6. pH-related habitat occupancy of OTU. Occupancy refers to the percentage of habitats in a two pH unit range around the specific pH optimum of the respective OTU. For OTU with low and high Ca^{2+} preferences, habitat sets with low or high Ca^{2+} concentrations were considered, respectively. Only OTU with read numbers of >0.1% of total read numbers were considered. (A) Box plots of occupancy of OTU assigned to different pH classes according to their respective pH optimum. (B) Relationship of occupancy of OTUs and the respectively observed maximum relative abundance of the OTUs. The color code separates the OTUs by their maximum relative abundance in the investigated samples in three different categories.



Suppl. Mat. Table S1. Investigated environmental samples and habitats. The air temperature data were obtained from the WorldClim climate model (Fick and Hijmans, 2017).

Sample	Sampling	Habitat Type	Region	Latitude (*N)	Longitude	Altitude	Annual Mean	Mean Air	Mean Air	Surface Area	Water	рН	Conductiv	Ca ²⁺
	Date				(*E)	(m)	Air Temp.	Temp.	Temp.	(ha)	Tempe	·	ity	(mg/l)
							(°C)	Warmest Quarter (°C)	Coldest Quarter (*C)		rature (°C)		(µS/cm)	
Aci1, sample 1	09.08.2015	Lake_Pond	Lapland	69.13086	27.76061	139	-0.6	10.8	-11.3	6.40E-01	16.0	5	.8 6.4	0.13
Aci1, sample 2	07.08.2018	Lake_Pond	Lapland	69.13086	27.76061	139	-0.6	10.8	-11.3	6.40E-01	18.0	6	.5 5.8	0.17
Attersee	18.05.2016	Lake_Pond	Central_Europe	47.80096	13.48766	469	7.0	15.7	-2.2	4.62E+03	14.5	8	.5 281.0	41.15
Basta	19.09.2016	Lake_Pond	Corsica	42.06541	9.13423	2093	6.1	13.6	0.0	4.25E+00	12.4	7	.4 17.7	1.05
Bischo Bors	08.08.2016	Lake_Pond Lake_Pond	Lapland	48.12411 70.37676	25.71275	78	-1.6	9.9	-1.3	2.20E-01 2.80E-01	5.6 15.4	4	5 23.6 .6 27.9	0.62
Buhl	21.10.2015	Lake_Pond	Central_Europe	48.50129	8.24565	803	7.0	14.8	-1.0	1.27E+00	8.0	5	.4 62.2	1.35
Calac Capit	20.09.2016	Lake_Pond	Corsica	42.32719	9.00634	793	9.7	16.9	3.7	1.30E+02 5.50E+00	22.1	7	.5 54.5 6 16.8	3.17
Cinto	15.07.2015	Lake_Pond	Corsica	42.37105	8.93452	2289	6.3	13.6	0.3	1.09E+00	18.0	7	.4 13.5	1.02
Clou	11.06.2018	Lake_Pond	Central_Europe	47.26082	13.55083	1972	0.9	8.7	-6.9	1.00E-02	18.5	5	.3 4.4	0.40
Egelsee Attersee	18.05.2016	Lake Pond	Central Europe	46.51596	13.50433	624	9.2	18.5	-0.4	6.39E-01	15.2	7	.8 252.0	47.88
Egelsee_Mondsee	17.05.2016	Lake_Pond	Central_Europe	47.79634	13.39688	481	8.0	16.9	-1.3	2.20E+00	10.4	7	.7 336.0	46.05
EgelseeM2 Eibensee	03.05.2016	Lake_Pond Lake Pond	Central_Europe Central Europe	47.96233	13.12470	592 952	8.2	16.9 15.6	-1.1 -2.2	4.89E+00 2.94E+00	13.0 8.4	8	.0 4/8.0	84.26 27.63
Elch	04.08.2016	Lake_Pond	Lapland	70.48078	28.87066	326	-0.4	7.7	-7.2	8.50E-01	12.5	6	.7 28.5	0.69
Elmsee	05.07.2006	Lake_Pond	Central_Europe	47.68623	13.96245	1630	1.0	8.9	-7.0	1.97E+00	17.1	8	.1 123.0	27.67
Enz.Main, sample 1	23.05.2010	Lake_Pond	Central_Europe	47.17795	12.61838	1730	3.0	11.1	-5.5	9.70E-02	13.8	5	.5 11.9	0.19
Enz.Main, sample 2	28.05.2018	Lake_Pond	Central_Europe	47.17795	12.61838	1730	3.0	11.1	-5.5	9.70E-02	17.5	4	.8 10.2	0.14
Feldsee Fels	22.10.2015	Lake_Pond Lake Pond	Central_Europe Central_Europe	47.87164 47.26108	8.03378	1116 1980	4.8 0.9	12.0	-2.2	9.25E+00 2.50E-03	9.2 14.7	7	.5 18.7 .7 5.6	2.35
Fieb	17.08.2015	Lake_Pond	Lapland	70.54689	25.84572	59	-1.0	10.1	-11.2	3.80E-01	15.9	5	.5 65.0	1.13
Filblingsee	30.06.2006	Lake_Pond	Central_Europe	47.78387	13.27619	1064	5.8	14.4	-3.2	1.28E+00	19.1	8	.2 192.0	39.36
Gam1	16.08.2015	Lake_Pond	Lapland	71.05331	28.23086	27	1.4	8.7	-2.4	1.16E+00	11.0	7	4 540.0 .7 165.0	45.77
Gerlos3	23.05.2016	Lake_Pond	Central_Europe	47.23525	12.15506	1650	2.9	10.9	-5.5	1.02E-02	17.1	4	.6 14.1	0.19
Gerzinsel Grundlsee	28.06.2007	Lake_Pond	Central_Europe	47.62805	13.43/41	1550	4.4	12.8	-4.4	7.00E-04 4.14E+02	11.3	4	.4 18.9	0.30
Hallstaettersee	28.06.2006	Lake_Pond	Central_Europe	47.55984	13.67657	508	6.2	15.0	-3.0	8.55E+02	14.2	8	.3 199.0	36.21
Hinterer Gosausee	29.06.2006	Lake_Pond	Central_Europe	47.50285	13.54884	1156	1.5	9.5	-6.6	2.56E+01	16.0	8	.3 138.0	29.44
Holzoestersee	25.09.2003	Lake_Pond	Central_Europe	48.05826	12.90026	463	8.3	14.9	-0.9	7.39E+00	17.9	8	.6 308.0	53.31
Hunz	20.10.2015	Lake_Pond	Central_Europe	48.57475	8.34853	758	7.4	15.4	-0.8	7.50E-01	8.8	5	.9 14.1	1.30
Hutt Ibm2	31.07.2014	Lake_Pond	Central_Europe	47.07581 48.05462	12.99057	1697 474	0.1	7.6	-7.4	2.00E-02 1.00E-03	14.7 9.9	6	.0 4.0 8 23.4	1.20
Inari2	08.08.2015	Lake_Pond	Lapland	68.93894	26.94767	160	-1.4	11.2	-13.5	5.60E-01	16.8	6	.4 11.7	0.93
Irrsee	17.05.2016	Lake_Pond	Central_Europe	47.89159	13.31151	553	7.7	16.4	-1.6	3.55E+02	12.9	8	.6 293.0	50.55
Kaakku	25.09.2013	Lake_Pond Lake Pond	Lapland	48.61894 66.78122	25.44906	895	0.2	13.9	-3.6	3.56E+00 1.09E+00	20.5	5	4 43.3 .8 6.9	4.24
Kaija	20.08.2015	Lake_Pond	Lapland	68.33044	24.10200	314	-2.3	11.2	-15.2	7.14E+00	20.3	6	.8 14.3	1.47
Kara	18.08.2015	Lake_Pond	Lapland	69.38825	24.45947	304	-3.0	10.3	-15.5	6.10E-01	16.0	6	.6 19.5	2.08
Lac de Creno, sample 2	16.09.2015	Lake_Pond	Corsica	42.20463	8.94588	1310	11.0	18.0	5.0	2.30E+00	16.8	7	.5 49.6	1.84
Lac de Melo, sample 1	13.07.2015	Lake_Pond	Corsica	42.21361	9.02344	1710	6.0	13.4	-0.1	6.50E+00	20.8	6	.8 15.3	1.31
Lac de Melo, sample 2 Latsch	22.09.2016	Lake_Pond	Corsica Central Europe	42.21361	9.02344	1710	6.0	13.4	-0.1	6.50E+00 1.00E-02	13.8	7	.6 19.5 0 3.4	0.87
Leitensee	25.09.2003	Lake_Pond	Central_Europe	48.05883	12.96710	426	8.4	17.1	-0.9	9.84E+00	18.0	8	.0 450.0	93.52
Loeckermoorsee	22.09.2009	Lake_Pond	Central_Europe	47.55441	13.54585	1391	3.9	12.3	-4.8	3.00E-02	13.6	4	.2 26.7	0.30
Matthisleweiher Mittersee	22.10.2015	Lake_Pond Lake Pond	Central_Europe Central Europe	47.88514	8.08507	990 1370	6.5 4.6	14.0 13.1	-1.1 -4.2	1.64E+00 5.51E-01	7.2 n.d.	6	.6 20.8	2.64
Moenichsee	25.06.2006	Lake_Pond	Central_Europe	47.76841	13.45378	1283	4.6	13.1	-4.2	2.89E+00	n.d.	8	.3 157.0	28.26
Mondsee	17.05.2016	Lake_Pond	Central_Europe	47.82975	13.37609	483	8.0	16.9	-1.3	1.38E+03	11.8	8	.3 350.0	48.56
Muodo	20.08.2015	Lake_Pond	Lapland	48.39680	23.16186	259	-1.6	14.9	-1.0	3.50E-01	17.2	5	.7 10.0	1.25
Nickl1	02.02.2016	Lake_Pond	Central_Europe	47.78925	12.05854	475	8.5	17.3	-0.8	1.63E+01	6.0	4	.7 28.0	0.92
Nino NPozz1	14.07.2015	Lake_Pond	Corsica Corsica	42.25503	8.94043	1743	7.8	15.1	1.8	6.50E+00 2.00E-02	24.6 18.7	7	.5 30.5 8 33.7	2.73
Odin	14.08.2015	Lake_Pond	Lapland	70.55572	30.17058	85	1.5	8.8	-4.6	2.20E-01	13.7	6	.9 47.6	0.44
Orient	21.09.2016	Lake_Pond	Corsica	42.22823	9.05897	2066	5.8	13.2	-0.2	1.14E+00	11.0	7	.4 17.5	1.35
Ounas, technical replicate	31.07.2018	River	Lapland	66.79097	25.41733	86	0.2	13.2	-12.3		25.2	8	.0 65.5	8.63
Pallasjaervi	31.07.2018	Lake_Pond	Lapland	68.03161	24.14961	278	-2.2	11.4	-15.1	1.70E+03	21.7	8	.6 24.7	3.12
Pasi Pasi, sample 1	12.08.2015	Lake_Pond Lake Pond	Lapland Lapland	69.44558	30.04969	84	0.7	9.6	-7.2	1.59E+00	16.5	6	9 27.4 .2 29.5	2.03
Pas2, sample 2	05.08.2018	Lake_Pond	Lapland	69.50147	30.04969	84	0.7	9.6	-7.2	1.59E+00	19.1	6	.5 25.4	1.61
Polo Pond Rossmoos	20.08.2015	Lake_Pond	Lapland Central Europe	67.65836 47.86786	22.95736	302	-1.7	11.8	-14.4	1.27E+00 3 10E-03	15.7	6	.6 18.3 7 104.0	2.10
Pond-1, sample 1	27.08.2009	Lake_Pond	Central_Europe	47.73982	13.30167	1281	4.8	13.3	-4.0	6.35E-02	18.5	5	.2 6.3	3.40
Pond-1, sample 2	29.10.2009	Lake_Pond	Central_Europe	47.73982	13.30167	1281	4.8	13.3	-4.0	6.35E-02	3.0	4	.8 10.3	3.40
Pond-1, sample 3 Pond-3, sample 1	25.06.2010	Lake_Pond Lake Pond	Central_Europe	47.73982	13.30167	1281	4.8	13.3	-4.0	6.35E-02 2.09E-02	22.2	5	3 6.9 .4 6.4	0.30
Pond-3, sample 2	23.07.2007	Lake_Pond	Central_Europe	47.73766	13.30236	1273	4.8	13.3	-4.0	2.09E-02	20.9	5	.2 4.1	0.30
Pond-3, sample 3 Ram, sample 1	03.11.2007	Lake_Pond	Central_Europe	47.73766	13.30236	1273	4.8	13.3	-4.0	2.09E-02 5.20E+00	4.3	4	.9 9.5 1 315	0.30
Ram, sample 2	13.07.2016	Lake_Pond	Central_Europe	47.89758	12.85235	452	8.7	17.4	-0.6	5.20E+00	21.7	5	.4 29.4	6.70
Ram, sample 3	30.09.2016	Lake_Pond	Central_Europe	47.89758	12.85235	452	8.7	17.4	-0.6	5.20E+00	21.1	5	.5 28.8	5.11
Reno	19.09.2016	Lake_Pond Lake Pond	Corsica	42.06383	9.13680	2051	-3.1	10.1	-15.7	2.39E+01 2.61E-03	14.0	6	4 29.5 .8 12.4	3.14 0.80
RePozz1	18.09.2016	Lake_Pond	Corsica	42.03356	9.14216	1783	6.6	14.1	0.5	3.00E-02	7.1	7	.4 33.5	0.66
Roav1 Roav2 sample 1	11.08.2015	Lake_Pond	Lapland Lapland	69.47808 69.48597	29.85533	125	0.6	9.7	-7.4	3.20E-01 8.30E-01	18.6	6	.7 33.5 8 19.4	2.43
Roav2, sample 2	06.08.2013	Lake_Pond	Lapland	69.48597	29.84117	182	0.6	9.7	-7.4	8.30E-01	16.8	6	.2 14.9	0.46
Roav3	04.08.2016	Lake_Pond	Lapland	69.49040	29.83895	156	0.6	9.7	-7.4	8.68E+00	14.8	6	.5 24.7	1.35
Roav4 Roav5	06.08.2018	Lake_Pond	Lapland Lapland	69.49037 69.48740	29.82632	1/4	0.7	9.8	-7.4	1.44E+00 1.00E+00	17.7	6	.4 18.8	0.91
Rub	07.04.2016	Lake_Pond	Central_Europe	48.49975	14.85441	920	5.3	14.0	-3.5	1.75E+00	9.9	5	.8 41.5	3.34
SaBePond1	18.07.2015	Lake_Pond	Central_Europe	46.49704	9.17225	2069	1.9	9.0	-4.8	4.00E-02	18.0	6	.1 3.9	0.90
Schwarze Lacke Enz	30.06.2010	Lake Pond	Central Europe	47.16455	12.61700	1735	-1.5	5.8	-4.0	4.50E-02	14.5	6	.8 11.3	2.51
Schwarzes Moos 1	18.05.2016	Lake_Pond	Central_Europe	48.87219	14.98022	507	7.6	16.5	-1.6	1.10E-01	15.6	4	.8 45.7	3.94
Sommersbergsee	28.06.2006	Lake_Pond	Central_Europe	47.61920	13./3/42	856 480	5./	14.5	-3.4	2.00E+00 6.31E+00	22.9	8	.1 286.0	51.37
Stor3	13.08.2015	Lake_Pond	Lapland	70.54003	29.69150	211	0.4	8.1	-6.0	3.93E+00	12.4	8	.0 118.9	9.76
Suisensee	25.06.2006	Lake_Pond	Central_Europe	47.77579	13.43879	1400	4.6	13.1	-4.2	1.14E-01	n.d.	8	.2 128.0	30.10
Sving, sample 1	13.08.2015	Lake_Pond Lake Pond	Lapland Lapland	70.54800	29.62729	58 259	-1.0	10.1	-11.2	5.3UE+00 1.76E+01	14.5 14.7	5	∠ /5.2 .7 73.5	0.96 6.47
Sving, sample 2	05.08.2016	Lake_Pond	Lapland	70.52593	29.62729	259	0.4	8.1	-6.1	1.76E+01	13.1	7	.9 73.3	4.95
Tana1 Tana2	01.08.2018	River	Lapland	69.37293 70 15504	24.38683	290	-3.0	10.2	-15.5		23.0	7	.6 38.0	4.39
Traun	18.05.2016	River	Central_Europe	48.08901	13.87397	355	8.4	9.5 17.4	-7.1		13.1	8	- 44.6 .5 386.0	4.99
Traunsee	23.06.2006	Lake_Pond	Central_Europe	47.89914	13.77062	422	8.1	17.1	-1.3	2.44E+03	15.8	8	.4 319.0	46.56
roeg7, sample 1 Troeg7, sample 2	06.08.2008 08.07.2018	Lake_Pond	Central_Europe	47.24994 47.24994	13.26709 13.26709	1960 1960	1.9	9.8 9.8	-6.2 -6.2	4.28E-02 4.28E-02	19.4 13.8	5	5 5.1 .7 3.7	0.93
Troeg8	06.08.2008	Lake_Pond	Central_Europe	47.24938	13.26557	1980	1.9	9.8	-6.2	3.35E-03	18.7	4	.9 8.8	0.84
Tund1	16.08.2015	Lake_Pond	Lapland	70.90019	27.74119	278	-0.3	7.6	-6.8	6.46E+00	11.1	7	.2 52.5	2.73
Tynn	16.08.2015	Lake_Pond Lake_Pond	Lapland Lapland	70.60036	27.25928	276	-0.3	7.6 8.7	-6.8 -8.1	1.41E+01 5.07E+00	12.b 14.4	7	- 39./ .6 86.9	1.30 5.95
Unterer Klaffersee	04.08.2015	Lake_Pond	Central_Europe	47.29881	13.79432	2103	0.0	7.7	-7.6	3.90E+00	13.0	7	.4 22.8	4.13
wengerz Wildensee	03.05.2016 07.07.2006	Lake_Pond	Central_Europe	47.71273	13.1/914	511 1535	8.1	16.9	-1.1	5.U0E-02 7.09E+00	12.6 17.7	6	4 60.8 .3 130.0	11.67 17.77
Windgfaellweiher	22.10.2015	Lake_Pond	Central_Europe	47.85328	8.12417	965	6.0	13.4	-1.5	1.45E+01	9.2	7	.2 69.7	5.17
Wolfgangsee	17.05.2016	Lake Pond	Central Europe	47.71999	13.48126	538	7.3	16.1	-1.9	1.28E+03	10.5	8	.6 255.0	43.24

Suppl. Mat. Table S2. Reference strains, reference operational taxonomic units (refOTU, >98%) and environmental OTU (eOTU, >98%). The term refOTU refers to OTU_{98%} sharing with a cultured reference strain a priB sequence similarity of >98%. eOTU are OTU_{98%}, which do not share with any cultured strain a priB sequence similarity >98%. The priB and genome accession numbers refer to the reference strains or reads mentioned in column 2. Reference OTU (refOTU) were named after one of the reference strains contained in the respective refOTU.

#	Reference Strain / read	OTU _{98%} (refOTU or eOTU)	Polynucleobacter Subcluster	Lifestyle	priB Accession Number	Genome Accession Number
1	15G-AUS-farblos	AP-Tund2-400A-C3	PnecC	free-living	MT988562	JACVOM000000000
2	30F-ANTBAC	30F-ANTBAC	PnecD	free-living	MT988563	IACVON00000000
2	31A-FELB	Species-Complex-4	PnecC	free-living	MT988564	
4	71A-WAI BACH	71A-WAI BACH	PnecC	free-living	MT988565	IACVOP000000000
5	73C-SIWE	Species-Complex-6	PnecC	free-living	MT988566	
6	78E-HAINBA	Species-Complex-0	PnecC	free-living	MT988567	
7	80A-SIGWE	80A-SIGWE	PnecC	free-living	MT988568	
, ,		Spacias Complex 1	ProcC	free-living	MTORECO	
0	ANA 25C2	ANA 25C2	Priece	free-living	NT088570	JACVOL000000000
9	Alvi-25C5	AIVI-23C3	Priece	free-living	N11966570	JACV0300000000
10	AIVI-2084	Species-complex-5	Pheco	free-living	N11966571	JAC VOT00000000
11	ANI-7DI	NIVH-12W17	Phece	free-living	IVI 1988572	CP061319
12	AP-AInPum-20-C6	Polynucleobacter paneuropaeus	Phece	free-living	IVI 1988575	JAANHGUUUUUUUU
13	AP-AInPum-60-G11	AP-AinPum-60-G11	Phecc	free-living	M1988576	CP061318
14	AP-Basta-1000A-D1	Species-Complex-7	Phecc	free-living	M1988577	JACV0000000000
15	AP-Berg-20B-E5	AP-Titi-500A-B4	PnecC	free-living	M1988578	
16	AP-Blind-20-A3	AP-Blind-20-A3	PnecC	free-living	MT988579	
17	AP-Blind-40-E7	AP-Blind-40-E7	PnecC	free-living	MT988580	
18	AP-Cala-100A-B4	AP-Cala-100A-B4	PnecC	free-living	MT988581	
19	AP-Capit-er-40B-B5	Species-Complex-1	PnecC	free-living	MT988582	
20	AP-Creno-60-A2	MWH-Svant-W18	PnecC	free-living	MT988583	
21	AP-Elch-400A-B2	Species-Complex-7	PnecC	free-living	MT988584	CP061317
22	AP-Feld-500A-C5	UB-Siik-W21	PnecC	free-living	MT988585	
23	AP-Galz2-40-E9	Nonnen-W13	PnecC	free-living	MT988586	
24	AP-Holl-20A-A1	Nonnen-W13	PnecC	free-living	MT988587	
25	AP-Holl-20A-D6	Nonnen-W13	PnecC	free-living	MT988588	
26	AP-Hunz-20-A2	Polynucleobacter paneuropaeus	PnecC	free-living	MT988589	JAANGD00000000
27	AP-Ibm4-20-A2	AP-lbm4-20-A2	PnecC	free-living	MT988590	
28	AP-Inari4-20-E4	MWH-Svant-W18	PnecC	free-living	MT988591	
29	AP-Inari4-40-G4	Polynucleobacter paneuropaeus	PnecC	free-living	MT988592	CP049645
30	AP-Jannik-300A-C4	MWH-T2W17	PnecC	free-living	MT988593	CP061316
31	AP-Kaivos-20-H2	Species-Complex-1	PnecC	free-living	MT988594	JACVOX000000000
32	AP-Kolm-20A-A1	Species-Complex-1	PnecC	free-living	MT988595	CP061315
33	AP-Latsch-80-C2	AP-Latsch-80-C2	PnecC	free-living	MT988596	JACVOY000000000
34	AP-Melu-1000-A1	Species-Complex-7	PnecC	free-living	MT988597	CP061314
35	AP-Melu-500A-A1	AP-Melu-500A-A1	PnecC	free-living	MT988599	JACVOZ000000000
36	AP-Mumm-500A-B3	AP-Mumm-500A-B3	PnecC	free-living	MT988600	JACVPA000000000
37	AP-Nickl2-20-E11	Species-Complex-1	PnecC	free-living	MT988601	
38	AP-Nino-20-F12-2016	MWH-Svant-W18	PnecC	free-living	MT988602	
39	AP-Nino-20-62	ΔP-Nino-20-G2	PnecC	free-living	MT988603	CP061313
40	AP-Nino2v-300C-B4	AP-Nino2v-300C-B4	PnecC	free-living	MT988604	001015
11	AP-NP0773-108-E9	MG-52-Enon2-B4	PnecC	free-living	MT988605	
12	AP-0din-400C-A2	Species-Compley-1	PnecC	free-living	MT988606	
42	AP-Deces-20-D6	Nonnen-W/13	PnecC	free-living	MT988607	
43	AD Docos 20 59	Nonnon W12	ProcC	free-living	MT099609	
44	AP Pama 100A E2	MG E Abma C2	Phece	free-living	MT08600	
45	AP Page 204 C10	Spacias Complex 1	Priece	free-living	MT089610	
40	AP-Relio-20A-C10	AD Nine 20 C2	Priece	free-living	NT 988010	
47	AP-REPOZZ3-ZUB-HZ	AP-NINO-20-G2	Phece	free-living	N1988611	60040627
48	AP-ROav5-40-G5	Polynucleobacter paneuropaeus	Phece	free-living	MT988612	CP049637
49	AP-RUD-40A-CI	Species-Complex-1	Phece	free-living	N1988613	
50	AP-SdBE1-2U-E8	Species-Complex-1	Phecu	free-living	IVI 1988614	
51	AP-Spelu-300-2	AP-Spelu-300-2	Phecc	free-living	MT988615	
52	AP-Stechi-80A-B1	MG-5-Ahmo-C2	PnecC	free-living	MT988616	
53	AP-Stier-20B-B4	Nonnen-W13	PnecC	free-living	M1988617	
54	AP-Stier-20B-C3	Nonnen-W13	PnecC	free-living	MT988618	
55	AP-Sving-400A-A2	Species-Complex-7	PnecC	free-living	MT988619	CP061312
56	AP-Titi-500A-B4	AP-Titi-500A-B4	PnecC	free-living	MT988620	CP061311
57	AP-Titi-500C-D3	AP-Titi-500C-D3	PnecC	free-living	MT988621	
58	AP-Tund2-400A-C3	AP-Tund2-400A-C3	PnecC	free-living	MT988622	
59	AP-UKlaffer2-1000-D2	Species-Complex-7	PnecC	free-living	MT988623	
60	AP-Windg-500B-B2	AP-Windg-500B-B2	PnecC	free-living	MT988624	
61	CB	Ross2-W14	PnecC	free-living	MT988625	
62	Creno-II-W23	MG-5-Ahmo-C2	PnecC	free-living	MT988626	
63	Creno-IV-W18	UB-Siik-W21	PnecC	free-living	MT988627	
64	Creno-I-W12	Nonnen-W13	PnecC	free-living	MT988628	
65	CS-Geat-B5	Species-Complex-7	PnecC	free-living	MT988629	
66	CS-Geat-D5	JS-Mosq-20-D10	PnecC	free-living	MT988630	
67	CS-Kong-C6	Species-Complex-1	PnecC	free-living	MT988631	
68	CS-Odin-A6	CS-Odin-A6	PnecC	free-living	MT988632	JACVPD00000000
69	CS-Skans-A4	Species-Complex-1	PnecC	free-living	MT988633	
70	CS-Slettfy-B6	Species-Complex-7	PnecC	free-living	MT988634	
71	CS-Slettfy-D4	Species-Complex-1	PnecC	free-living	MT988635	

72	czRimov8-C6	Species-Complex-4	PnecC	free-living	MT988636	
73	Diet-1	Species-Complex-1	PnecC	free-living	MT988637	
74	Endosymbiont-Fsp1-4	Endosymbiont-Esp1-4	PnecC	Endosymbiont	M1988638	LT615227
75	Endosymbiont-PPGSP-Eae1	Endosymbiont-PPGSP-Eael	Phece	Endosymbiont	NT088639	11015228
70	Endosymbiont-PPGSP-Eae3	Endosymbiont-PPGSP-Eae3	Phece	Endosymbiont	MT988641	1T606948
78	Endosymbiont-PPGSP-Eae5	Endosymbiont-DACHS-Sophie	PnecC	Endosymbiont	MT988642	LT606950
79	Endosymbiont-PPGSP-Eda1	Endosymbiont-Alex-Bettina	PnecC	Endosymbiont	MT988643	LT606946
80	Endosymbiont-PPGSP-Eoc1	Endosymbiont-PPGSP-Eoc1	PnecC	Endosymbiont	MT988644	LT606951
81	Endosymbiont-PPGSP-Ewo1	Endosymbiont-PPGSP-Ewo1	PnecC	Endosymbiont	MT988645	LT606949
82	es-EL-1	es-EL-1	PnecC	free-living	MT988646	CP061310
83	es-GGE-1	UB-Siik-W21	PnecC	free-living	MT988647	JACVPE000000000
84	es-MAR-1	Species-Complex-4	PnecC	free-living	MT988648	
85	es-MAR-2	Species-Complex-1	PnecC	free-living	MT988649	CP061309
86	es-MAR-3	es-MAR-3	PnecC	free-living	MT988650	
87	es-MAR-4	es-MAR-4	PnecC	free-living	MT988651	JACVPF000000000
88	Eve-W11	Eve-W11	PnecC	free-living	MT988652	
89	FNE-F8-bin-6-1-PnecC	FNE-F8-FUKU	PnecC	free-living	MT988653	
90	Fuers-14	Species-Complex-1	Phece	free-living	M1988654	JACVPG00000000
91		AP-WINDE-SOUB-BZ	Phece	free-living	NT0996E6	
92	Galti-A-W1	Galti-A-W1	Phece	free-living	MT988657	
94	GWA2-45-21	Species-Complex-4	PnecC	free-living	MT988658	
95	IS-Aci1-20-B10	Polynucleobacter paneuropaeus	PnecC	free-living	MT988659	CP049628
96	JS-Fieb-80-E5	Species-Complex-1	PnecC	free-living	MT988660	JACVPH000000000
97	JS-Hess-40-B12	JS-Hess-40-B12	PnecC	free-living	MT988661	
98	JS-JIR24-3-B2	UB-Siik-W21	PnecC	free-living	MT988662	
99	JS-JIR-5-A7	UB-Siik-W21	PnecC	free-living	MT988663	CP061308
100	JS-Jiri-2-F12	AP-AinPum-60-G11	PnecC	free-living	MT988664	
101	JS-JIR-I-a15	JS-JIR-I-a15	PnecC	free-living	MT988665	
102	JS-JIR-I-c6	Galti-A-W1	PnecC	free-living	MT988666	
103	JS-JIR-II-b4	Species-Complex-1	PnecC	free-living	MT988667	CP061306
104	JS-JIR-II-c15	Galti-A-W1	PnecC	free-living	MT988668	
105	JS-JIR-III-a17	JS-JIR-III-a17	PnecC	free-living	MT988669	
106	JS-JIR-III-b11	Species-Complex-1	PnecC	free-living	MT988670	
107	JS-Kaija-80-A5	Species-Complex-2	PnecC	free-living	MT988671	
108	JS-Mosq-20-D10	JS-Mosq-20-D10	PnecC	free-living	M1988672	CP061305
109	JS-Mosq-20-F4	UB-SIIK-W21	Phecc	free-living	M1988673	
110	JS-P010-80-F4	Species-Complex-1	Phece	free-living	NT098674	
111	J3-3dIJ-4000-B2	Species-Complex-1	Phece	free-living	NT099676	JACVPJUUUUUUUUU
113	IS-Tund1-600a-C4	IS-Tund1-600a-C4	PnecC	free-living	MT988677	
114	IS-Ukon-20-H6	Species-Complex-1	PnecC	free-living	MT988678	
115	JS-Vitta2-80-B10	Species-Complex-2	PnecC	free-living	MT988679	
116	Klost2-W16	Species-Complex-1	PnecC	free-living	MT988680	
117	Landm-A-W12	Landm-A-W12	PnecC	free-living	MT988681	
118	Latsch14-1	Latsch14-1	PnecC	free-living	MT988682	
119	MG-27-Goln-C1	Galti-A-W1	PnecC	free-living	MT988685	JACVPM000000000
120	MG-27-Goln-C3	MG-27-Goln-C3	PnecC	free-living	MT988686	
121	MG-42-Nopo-D3	Species-Complex-7	PnecC	free-living	MT988687	
122	MG-43-Slet-D2	MG-43-Slet-D2	PnecC	free-living	MT988688	
123	MG-43-Slet-F1	MG-43-Slet-F1	PnecC	free-living	MT988689	
124	MG-4-Mela-E1	QLW-P1DATA-2	PnecC	free-living	MT988690	
125	MG-4-Mela-F2	AP-Blind-20-A3	PnecC	free-living	MT988691	
126	MG-52-Enon2-B4	MG-52-Enon2-B4	PnecC	free-living	MT988692	
127	MG-58-Narv-B1	MG-52-Enon2-B4	PnecC	free-living	MT988693	
128	MG-5-Ahmo-C2	MG-5-Ahmo-C2	PnecC	free-living	MT988694	CP061304
129	MG-63-Kera-F1	MG-63-Kera-F1	Phece	free-living	M1988695	
121	MG-7 Hariu P2	MG 52 Epon2 B4	Phece	free-living	NT0986090	
122	MG Uptor2 18	Spacias Complex 2	Priece	free-living	MT000600	CD061202
132	MWH-Adler-W8	Species-Complex-3	PnecC	free-living	MT988700	17510000000
134	MWH-Aito-300-X1	Species-Complex-1	PnecC	free-living	MT988700	L2110000000
135	MWH-Aito-300-X4	Galti-A-W1	PnecC	free-living	MT988702	
136	MWH-Aus1W21	AP-Spelu-300-2	PnecC	free-living	MT988703	
137	MWH-Aus1W7	Species-Complex-1	PnecC	free-living	MT988704	
138	MWH-Berg-3C6	MWH-Berg-3C6	PnecC	free-living	MT988705	JACVPN000000000
139	MWH-Braz-FAM2G	MWH-Braz-FAM2G	PnecC	free-living	MT988706	CP061300
140	MWH-Braz-FAM2Ja2	MWH-Braz-FAM2Ja2	PnecC	free-living	MT988707	
141	MWH-Braz-FAM4A	MWH-Braz-FAM4A	PnecC	free-living	MT988708	
142	MWH-CaK5	Species-Complex-5	PnecD	free-living	MT988709	CP061299
143	MWH-Creno-3A4	MWH-Svant-W18	PnecC	free-living	MT988710	JACXSA000000000
144	MWH-Creno-4B5	Species-Complex-1	PnecC	free-living	MT988711	
145	MWH-EgelM2-3	Species-Complex-6	PnecC	free-living	MT988713	
146	MWH-Hall2	Species-Complex-6	PnecC	free-living	MT988715	
147	MWH-Hall5	WWH-Hall5	PnecC	tree-living	M1988716	140000000000000000000000000000000000000
148	MWH-HuK1	WWH-HUK1	PnecC	free-living	M1988717	JACVPP000000000
149			Phece	free-living	IVI I 988/20	JACA500000000000000000000000000000000000
150	WWH-Jannik3D5	NINAL CONTRACTOR NONSTRATION	Phece	free living	IVI 1988/21	
157	MWH-K35W1	Polynucleobacter aenigmaticus	PnecC	free-living	MT988773	NGUOOOOOO
152	MWH-Lacke-12-2	Species-Complex-1	PnerC	free-living	MT988724	1455500000000
100	LUCKC 12 2	opened complex 1	i necc	nee aving	1011300724	

154	MWH-Lett3-08W15	Species-Complex-1	PnecC	free-living	MT988725	
155	MWH-LF2-54b	MWH-LF2-54b	PnecC	free-living	MT988726	
156	MWH-Loch1C5	MWH-Loch1C5	PnecD	free-living	MT988727	JACVPR00000000
157	MWH-Mekk-B1	MWH-Mekk-B1	PnecC	free-living	MT988728	JACVPS00000000
158	MWH-Mekk-C3	Species-Complex-2	PnecC	free-living	MT988729	CP061298
159	MWH-Mlynsky-W10	Nonnen-W13	PnecC	free-living	MT988730	
160	MWH-Molso1	MWH-Molso1	PnecC	free-living	MT988731	CP061297
161	MWH-MoK7	MWH-MoK7	PnecC	free-living	MT988734	
162	MWH-NZ4W10	AP-AinPum-60-G11	PnecC	free-living	MT988735	
163	M/M-N74/M/4	Species-Complex-4	PnecC	free-living	MT988736	
164	M/M/H-NZ/M/7a	Nonnen-W13	PnecC	free-living	MT988737	
104		Species Complex 4	DreeC	free-living	MT000730	
165		Species-Complex-4	Phece	free-living	IVI1988738	
166	MWH-P3-07-1	Species-Complex-2	PnecC	free-living	M1988739	CP061296
167	MWH-PoolBr-B5	Species-Complex-1	PnecC	free-living	MT988740	
168	MWH-RechtKol4	Polynucleobacter asymbioticus amplus	PnecC	free-living	MT988574	CP015017
169	MWH-S4W17	Species-Complex-1	PnecC	free-living	MT988742	CP061295
170	MWH-Salz1-W7	JS-JIR-I-a15	PnecC	free-living	MT988743	
171	MWH-Spelu-300-X3	MWH-Spelu-300-X3	PnecD	free-living	MT988744	
172	MWH-Svant-W18	MWH-Svant-W18	PnecC	free-living	MT988745	CP061293
173	MWH-T1W11	MWH-T2W17	PnecC	free-living	MT988746	
174	MW/H-T2W17	MWH-T2W17	PnecC	free-living	MT988747	
175	MW/H-Teich-286	Species-Compley-1	PnecC	free-living	MT0887/18	
170			DreeC	free-living	MT088740	
176		MWH-HUKI	Phece	free-living	IVI1988749	
1//	MWH-UH14B	MWH-UH14B	Phece	tree-living	M1988750	
178	MWH-UH14E	MWH-UH2A	PnecC	free-living	MT988751	
179	MWH-UH19D	MWH-UH14B	PnecC	free-living	MT988752	
180	MWH-UH21F	MWH-UH21F	PnecC	free-living	MT988754	
181	MWH-UH21G	MWH-UH21G	PnecC	free-living	MT988755	
182	MWH-UH23A	MWH-UH23A	PnecC	free-living	MT988756	
183	MWH-UH23C	AP-Spelu-300-2	PnecC	free-living	MT988757	
184	MWH-UH24A	MWH-UH24A	PnecB2	free-living	MT988758	CP061292
185	MWH-UH25C	MWH-UH21B	PnecC	free-living	MT988759	
186	MW/H-IIH25E	MWH-UH25E	PnecC	free-living	MT988760	
197	M/W/H-11H2A	MWH-UH2A	PnecC	free-living	MT988761	
100			DreeC	free-living	MT088762	
100		NIN HUILAR	Priece	iree-living	1011966762	
189	MWH-UH36A	MWH-UH14B	Phece	free-living	M1988763	
190	MWH-UH38A	Species-Complex-1	PnecC	free-living	M1988764	
191	MWH-UH38Ckl	MWH-UH38Ckl	PnecC	free-living	MT988765	
192	MWH-UK1W16	Polynucleobacter paneuropaeus	PnecC	free-living	MT988766	QMCG0000000
193	Nino-II-W8	MWH-Svant-W18	PnecC	free-living	MT988769	
194	Nino-IV-W14	Nonnen-W13	PnecC	free-living	MT988770	
195	Nonnen-W13	Nonnen-W13	PnecC	free-living	MT988771	JACVPU000000000
196	Nonnen-W15	UB-Siik-W21	PnecC	free-living	MT988772	
197	MWH-PoolGreenA3	Polynucleobacter acidiphobus	PnecB2	free-living	MT988741	CP023277
198	LimPoW16	LimPoW16	PnecC	free-living	MT988683	CP028941
199	LIK-Long2-W/17	LIK-Long2-W/17	PnecC	free-living	MT988803	CP028940
200		Polynucleobacter asymptoticus simpley	PnecC	free-living	MT088781	CP000655
200		Polynucleobacter asymptoticus simplex	DreeC	free-living	NAT099714	NCUP000000
201			PHECC	iree-living	1011966714	NGOPOOOOOOO
202	MWH-MOISO2	Species-Complex-5	PhecD	free-living	M1988732	NJGG0000000
203	AM-885	Polynucleobacter difficilis	PnecB1	free-living	M1988573	CP023276
204	MWH-MoK4	Species-Complex-3	PnecC	free-living	MT988733	CP007501
205	MWH-EgelM1-30-B4	Species-Complex-6	PnecC	free-living	MT988712	NAIA00000000
206	AP-Melu-1000-B4	Polynucleobacter meluiroseus	PnecC	free-living	MT988598	OANS0000000
207	STIR1 (Endosymbiont)	Polynucleobacter necessarius	PnecC	Endosymbiont	MT988784	NC_010531
208	MG-25-Pas1-D2	Polynucleobacter paneuropaeus	PnecC	free-living	MT988684	CP030085
209	MT-CBb6A5	Polynucleobacter rarus	PnecA	free-living	MT988699	NTGB00000000
210	MWH-HuW1	Polynucleobacter sinensis	PnecC	free-living	MT988718	101100000000
211	MWH-Weng1-1	Polynucleobacter sphagniphilus	PnecC	free-living	MT988768	MPIY0000000
212	MWH-UH21B	MWH-UH21B	PnerC	free-living	MT988752	CPU38043
212	MWH-VikM1	Polynucleobacter victoriensis	Pnach	free-living	MT088767	01 020342
213		Polynucleobacter victoriensis	DreeC	free-living	NAT099774	CD015022
214		Polynucleobacter wuldtus	Priect	free - IIVIng	NT000710	CPU13922
215	MWH-Jak3	Polynucleobacter yangtzensis	Phece	tree-living	M1988719	LOJIOOOOOOO
216	QLW-P1DATA-2	QLW-P1DATA-2	PnecC	free-living	M1988773	LZMQ0000000
217	QLW-P2FAT50C-1	AP-Blind-20-A3	PnecC	free-living	MT988775	
218	Ross1-W21	Species-Complex-1	PnecC	free-living	MT988776	
219	Ross1-W9	Species-Complex-1	PnecC	free-living	MT988777	JACVPW00000000
220	Ross2-W14	Ross2-W14	PnecC	free-living	MT988778	
221	Ross6-W10	Ross6-W10	PnecC	free-living	MT988779	
222		ncmg	PnecC	free-living	MT988780	
223	SCGC-AAA027-C02					
223	SCGC-AAA027-C02 SM1-W1	Species-Complex-1	PnecC	free-living	M1988782	
223	SCGC-AAA027-C02 SM1-W1 SP-AinPum-045-mR2A-3A	Species-Complex-1 Species-Complex-1	PnecC PnecC	free-living free-living	M1988782 MT988783	
223	SCGC-AAA027-C02 SM1-W1 SP-AinPum-045-mR2A-3A Tro7-14-1	Species-Complex-1 Species-Complex-1 Latech14-1	PnecC PnecC PnecC	free-living free-living free-living	MT988782 MT988783 MT988785	
223 224 225	SCGC-AAA027-C02 SM1-W1 SP-AinPum-045-mR2A-3A Tro7-14-1	Species-Complex-1 Species-Complex-1 Latsch14-1 Species Complex 1	PnecC PnecC PnecC PnecC	free-living free-living free-living	M1988782 MT988783 MT988785	
223 224 225 226	SCGC-AAA027-C02 SM1-W1 SP-AinPum-045-mR2A-3A Tro7-14-1 Tro8-14-1	Species-Complex-1 Species-Complex-1 Latsch14-1 Species-Complex-1	PnecC PnecC PnecC PnecC	free-living free-living free-living free-living	MT988782 MT988783 MT988785 MT988786	JACVPX000000000
223 224 225 226 227	SCGC-AAA027-C02 SM1-W1 SP-AinPum-045-mR2A-3A Tro7-14-1 Tro8-14-1 Tro8F10W12	Species-Complex-1 Species-Complex-1 Latsch14-1 Species-Complex-1 Species-Complex-1	PnecC PnecC PnecC PnecC PnecC	free-living free-living free-living free-living free-living	M1988782 MT988783 MT988785 MT988786 MT988787	JACVPX000000000
223 224 225 226 227 228	SCGC-AAA027-C02 SM1-W1 SP-AinPum-045-mR2A-3A Tro7-14-1 Tro8-14-1 Tro8F10W12 Trout-Bog-Hypolimnion-pan-assembly	Species-Complex-1 Species-Complex-1 Latsch14-1 Species-Complex-1 Species-Complex-1 Trout-Bog	PnecC PnecC PnecC PnecC PnecC PnecC	free-living free-living free-living free-living free-living	M 1988782 MT988783 MT988785 MT988786 MT988787 MT988788	JACVPX00000000
223 224 225 226 227 228 229	SCGC-AAA027-C02 SM1-W1 SP-AinPum-045-mR2A-3A Tro7-14-1 Tro8-14-1 Tro8F10W12 Trout-Bog-Hypolimnion-pan-assembly TSB-Sco08W16	Species-Complex-1 Species-Complex-1 Latsch14-1 Species-Complex-1 Species-Complex-1 Trout-Bog TSB-Sco08W16	PnecC PnecC PnecC PnecC PnecC PnecC PnecC	free-living free-living free-living free-living free-living free-living	M1988782 MT988783 MT988785 MT988786 MT988787 MT988788 MT988789	JACVPX00000000 CP061291
223 224 225 226 227 228 229 230	SCGC-AAA027-C02 SM1-W1 SP-AinPum-045-mR2A-3A Tro7-14-1 Tro8-14-1 Tro8-14-1 Tro8-14-1 Tro8-510W12 Trout-Bog-Hypolimnion-pan-assembly TSB-Sco08W16 TSB-Sco09W6	Species-Complex-1 Species-Complex-1 Latsch14-1 Species-Complex-1 Species-Complex-1 Trout-Bog TSB-Sco08W16 MG-5-Ahmo-C2	PnecC PnecC PnecC PnecC PnecC PnecC PnecC PnecC	free-living free-living free-living free-living free-living free-living free-living	M1988782 MT988783 MT988785 MT988786 MT988787 MT988788 MT988789 MT988790	JACVPX00000000 CP061291
224 225 226 227 228 229 230 231	SCGC-AAA027-C02 SM1-W1 SP-AinPum-045-mR2A-3A Tro7-14-1 Tro8-14-1 Tro8-14-1 Tro8F10W12 Trout-Bog-Hypolimnion-pan-assembly TSB-Sco08W16 TSB-Sco09W6 UB-Chica-W24	Species-Complex-1 Species-Complex-1 Latsch14-1 Species-Complex-1 Species-Complex-1 Trout-Bog TSB-Sco08W16 MG-5-Ahmo-C2 LimPoW16	PnecC PnecC PnecC PnecC PnecC PnecC PnecC PnecC PnecC	free-living free-living free-living free-living free-living free-living free-living free-living	M1988782 MT988783 MT988785 MT988786 MT988787 MT988788 MT988789 MT988790 MT988791	JACVPX00000000 CP061291
224 225 226 227 228 229 230 231 232	SCGC-AAA027-C02 SM1-W1 SP-AinPum-045-mR2A-3A Tro7-14-1 Tro8-14-1 Tro8F10W12 Trout-Bog-Hypolimnion-pan-assembly TSB-Sco08W16 UB-Chica-W24 UB-Domo-W1	Species-Complex-1 Species-Complex-1 Latsch14-1 Species-Complex-1 Trout-Bog TSB-Sco08W16 MG-5-Ahmo-C2 LimPOW16 UB-Domo-W1	PnecC PnecC PnecC PnecC PnecC PnecC PnecC PnecC PnecC PnecC	free-living free-living free-living free-living free-living free-living free-living free-living free-living	M1988782 MT988783 MT988785 MT988786 MT988787 MT988788 MT988789 MT988790 MT988791 MT988792	JACVPX00000000 CP061291 PGTX00000000
223 224 225 226 227 228 229 230 231 232 233	SCGC-AAA027-C02 SM1-W1 SP-AinPum-045-mR2A-3A Tro7-14-1 Tro8-14-1 Tro8F10W12 Trout-Bog-Hypolimnion-pan-assembly TSB-Sco08W16 TSB-Sco09W6 UB-Chica-W24 UB-Domo-W1 UB-Kamb-W5	Species-Complex-1 Species-Complex-1 Latsch14-1 Species-Complex-1 Species-Complex-1 Trout-Bog TSB-Sco08W16 MG-5-Ahmo-C2 LimPoW16 UB-Domo-W1 MWH-UH14B	PnecC PnecC PnecC PnecC PnecC PnecC PnecC PnecC PnecC PnecC PnecC	free-living free-living free-living free-living free-living free-living free-living free-living free-living free-living	M1988782 MT988783 MT988785 MT988786 MT988787 MT988788 MT988789 MT988790 MT988791 MT988792 MT988793	JACVPX00000000 CP061291 PGTX00000000
223 224 225 226 227 228 229 230 231 232 233 234	SCGC-AAA027-C02 SM1-W1 SP-AinPum-045-mR2A-3A Tro7-14-1 Tro8-14-1 Tro8-14-1 Tro8-14-1 Tro8-510W12 Trout-Bog-Hypolimnion-pan-assembly TSB-Sco08W16 TSB-Sco08W16 UB-Chica-W24 UB-Chica-W24 UB-Chamb-W5 UB-Kamb-W5	Species-Complex-1 Species-Complex-1 Latsch14-1 Species-Complex-1 Species-Complex-1 Trout-Bog TSB-Sco08W16 MG-5-Ahmo-C2 LimPoW16 UB-Domo-W1 MWH-UH14B UB-Kamb-W7a	PnecC PnecC PnecC PnecC PnecC PnecC PnecC PnecC PnecC PnecC PnecC PnecC PnecC	free-living free-living free-living free-living free-living free-living free-living free-living free-living free-living free-living	M1988782 MT988783 MT988785 MT988786 MT988786 MT988788 MT988789 MT988790 MT988790 MT988792 MT988793 MT988794	JACVPX000000000 CP061291 PGTX00000000
223 224 225 226 227 228 229 230 231 232 233 234 235	SCGC-AAA027-C02 SM1-W1 SP-AinPum-045-mR2A-3A Tro7-14-1 Tro8-14-1 Tro8F10W12 Trout-Bog-Hypolimnion-pan-assembly TSB-Sco08W16 TSB-Sco09W6 UB-Chica-W24 UB-Chica-W24 UB-Domo-W1 UB-Kamb-W5 UB-Kamb-W75	Species-Complex-1 Species-Complex-1 Latsch14-1 Species-Complex-1 Species-Complex-1 Trout-Bog TSB-Sco08W16 MG-5-Ahmo-C2 LimPoW16 UB-Domo-W1 MWH-UH148 UB-Kamb-W7a UB-Kamb-W7b	PnecC PnecC PnecC PnecC PnecC PnecC PnecC PnecC PnecC PnecC PnecC PnecC PnecC	free-living free-living free-living free-living free-living free-living free-living free-living free-living free-living free-living free-living	M1988782 MT988783 MT988785 MT988786 MT988787 MT988788 MT988789 MT988790 MT988791 MT988791 MT988793 MT988793 MT988794	JACVPX00000000 CP061291 PGTX00000000

237	UB-Siik-W21
238	UB-Somero-W24
239	UB-Tiil-W10
240	UK3W23Kol1
241	UK-Kesae-W10
243	UK-Mo-2m-Kol15
244	UK-Mo-2m-Kol30
245	UK-Piela-W13
246	UK-Piela-W22
247	UK-Pondora-W13
249	UK-Ruja-W24
250	UK-Tiil2-W2
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252	VK25
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277	58d617cd537617465217614435c87199
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311 312	48b00c9c53e5e5a4a3e61590a0beaad4 f55bd83fc5f74bbb5d3603106e9c21d4
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315	07c8c1f9d65d7af3262ce3f59b6c3446
316 317	0372040080031234008Cd584a3D10C10 d6776c72c6d2a7a09ba50c54d13f15d0

236 LIB-Piko-W/3

UB-Piko-W3 UB-Siik-W21 UB-Domo-W1 Species-Complex-1 UK3W23Kol1 Species-Complex-1 UK-Kesae-W10 UK-Mo-2m-Kol15 UK-Mo-2m-Kol30 UB-Siik-W21 UK-Piela-W22 UK-Pondora-W13 UK-Pondora-W15 UB-Siik-W21 Species-Complex-1 VK13 Species-Complex-1 Species-Complex-1 Species-Complex-1 eOTU0001 eOTU0002 eOTU0003 eOTU0004 eOTU0005 eOTU0006 eOTU0007 eOTU0008 eOTU0009 eOTU0010 eOTU0011 eOTU0012 eOTU0013 eOTU0014 eOTU0015 eOTU0016 eOTU0017 eOTU0018 eOTU0019 eOTU0020 eOTU0021 eOTU0022 eOTU0023 eOTU0024 eOTU0025 eOTU0026 eOTU0027 eOTU0028 eOTU0029 eOTU0030 eOTU0031 eOTU0032 eOTU0033 eOTU0034 eOTU0035 eOTU0036 eOTU0037 eOTU0038 eOTU0039 eOTU0040 eOTU0041 eOTU0042 eOTU0043 eOTU0044 eOTU0045 eOTU0046 eOTU0047 eOTU0048 eOTU0049 eOTU0050 eOTU0051 eOTU0052 eOTU0053 eOTU0054 eOTU0055 eOTU0056 eOTU0057 eOTU0058 eOTU0059 eOTU0060 eOTU0061 eOTU0062 eOTU0063

froo	living	MT088706	140
free	living	MT988790	170
free	living	MT088708	
free	living	MT988798	140
free	living	MT988800	370
free-	living	MT988801	IAC
free-	living	MT988802	IAC
free-	living	MT988804	140
free-	living	MT988805	5740
free-	living	MT988806	
free-	living	MT988807	
free-	living	MT988808	
free-	living	MT988809	IAC
free-	living	MT988810	5,10
free-	living	MT988811	
free-	living	MT988812	
free-	living	MT988813	
free-	living	MT988814	
free-	living	MT988815	
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		MT988878	

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320	e6b8b0e8bd5c8a192595b597653f7d8e	AOTU0066	PnecC
320		-071/0000	Priece
321	ea6001db1c699327faad169627bd6d43	e0100067	Phece
322	c3eac120161f4d92bb12bb84e89f05ca	e0100068	PnecC
323	7c89a83995844abe6b2b3e3630fc6fca	eOTU0069	PnecC
324	0f86b92ea161689e7d569448bffb10be	eOTU0070	PnecC
325	92db9b37c54e45de792397b6080f7ffe	eOTU0071	PnecC
326	10be82de08aac56d3fc0499add9ad82e	eOTU0072	PnecC
327	eb1f6e04b07ce0ceeffcbb7f945ba939	eOTU0073	PnecC
328	5a0d86537fa351ea662b2cba3aed53a8	eOTU0074	PnecC
329	de4d03c9f1e5942c0131fcacef5461c0	eOTU0075	PnecC
330	1fd4f28e107a5fe5f4027a23647cec58	eOTU0076	PnecC
331	9d39c4aa5a056567e828849d08ea340d	eOTU0077	PnecC
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443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461	c5b3e779b9970313a0ee13e9b464945a 33fe59656a737cd7a61ae3b5673a4947 b267c3145374a92e2cb80ca2ffe3e1b5 0d65e50384e21f99bb050c2ea363d56b d1913be420f713b7628e75ad980b4ac6 1a40ad313c366310b360cfd2a2b30bf2 332b00b06ca023efe6fe8a0cf25691c8 1a91c186ca5ac1580d004f4f52fb22a dee4a69a6d0525da9c65b9a17a888096 f9513b9dcd2c7411ce5a6e3d633dc56c cadd3f59dc0d5359b38f8cf5cac8e15a de6025842da6648dbb1f8856ba5c804b 6842cec27e7e76785658619adb8305 6cbccb966527dba4a8d192f1bcea0af 9b78da95f06c885d420e2274dd38f81 47dd385bad31c54b4f484b3db523bf95 9bb4ebed395cd09f1b1874b2c77647 a17507e5d88051f7ca3a4e4c827af6c0 ef70d800c657ca38d24a67c6592b0aa	eOTU0189 eOTU0190 eOTU0191 eOTU0192 eOTU0193 eOTU0194 eOTU0195 eOTU0196 eOTU0197 eOTU0198 eOTU0199 eOTU0200 eOTU0201 eOTU0202 eOTU0203 eOTU0204 eOTU0205 eOTU0206 eOTU0207	
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685	7bee84e19efd3c501fdad5346cb3272a	eOTU0431
686	92996f10ab4dc4c29fa88fec5135ab0c	AUT110/32
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688	aa4b5f661b5d91dac40f477f674fddcc	eOTU0434
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 6889 6900 6911 692 693 694 695 696 697 698 699 7000 7011 702 703 704 705 706 707 708 709 710 711 712 713 714 	b7270b7df49baabec192484e64cc1bd5 bfc91273893ada75b1295a9082c5abf9 c2d7797d16d6ac7f86721b7dea379312 c8b47e7cd46be810f5a3c60fae8a52ce dad9e2494617dae241f6b9795afbb49 ee1607a26eb1911baf40bc70dbe0286f ef7700f0f42c8bbf05bb90c4be688f5d fef841c1921c4f92831dc0c4ca7d0760 039f92f1d7f702196275274f86c2297 073feb3a0c1255ebc2cc1bd1979afe0a 193b4a33c182f121f1126a87f050021b 1c3c53ac032a6c551228f1aa6c89b0f2 532e1463f14255c0028e1268c069bf44 553add79f5124481de4eef802ffb8d 5d3dd2995ad889a40fa449fab7061c6 96b1f19b5870bdd2f5395af852afe01 9855c608cf60d32bd218f7c6d27e96 aac09e2924be437ddcc6bcd03fdb5 ccf6441affafecc7fb2beb8fa2a2733 e002636ff03acd24a45f3e7ffadcaa ed5bc79f315db22245500f87d33 00d1db856cbb06794176ae4866f097f 0e1ffccf584297c6e925b34a3053bdb5 1d021546a64a3bc04f27e7a7800216e7 3dbd374bc96a3e6c4697d511824af	eOTU0435 eOTU0435 eOTU0437 eOTU0437 eOTU0439 eOTU0440 eOTU0441 eOTU0443 eOTU0443 eOTU0444 eOTU0445 eOTU0445 eOTU0447 eOTU0448 eOTU0449 eOTU0450 eOTU0451 eOTU0452 eOTU0453 eOTU0455 eOTU0455 eOTU0457 eOTU0457 eOTU0458 eOTU0459 eOTU0459
 6889 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 711 712 713 714 	b7270b7df49baabec192484e64cc1bd5 bfc91273893ada75b1295a9082c5abf9 c2d7797d16d5a7t66721b7dea79312 c8b47e7cd46b810f5a3c60fae8a52ce dad9e2494f17dae241f6b9795afbb49 ee1607a26eb1911baf40bc70dbe0286f ef7700f0f42c88bf05b90c4be688f5d fef841c1921c4f92831dc0c4ca700760 039f92f71d7702196275274f86c2297 073feb3a0c1255ebc2cc1bd1979afe0a 193b4a33c182f121f1126a87f050021b 1c3c53ec032a6c551228f1aa6c89b0f2 532e1463f14255c00e8e1268c069bf44 55ba8d776f5124481d6e4ef802ffb8d 53d32995ad889540fa49fab7061c6 96b1f19b5870bdd2f5395af8522afe01 9855c608cf606d32bd118fc7c6d27e96 aae09e2924b8e437ddcc6b9cd038fdb5 ccf6441affafecc7fb2beb8fa2a2733 e0026366f803acd2d445f39fafcaa ed5bcf79f315db2254590af9c87d33 00d1ab856cbdb06794176ae48666097f 0e1ffcf84297c6c9925b43a053bdb5 1d021546a43bC04f27e7a7800216e7 3dbd5a74bc96ac3e6c46979d511824af 5207ece0e5b46bf2c8f4e9c569688a	eOTU0435 eOTU0435 eOTU0437 eOTU0437 eOTU0439 eOTU0440 eOTU0441 eOTU0442 eOTU0443 eOTU0444 eOTU0445 eOTU0445 eOTU0446 eOTU0447 eOTU0449 eOTU0450 eOTU0451 eOTU0453 eOTU0453 eOTU0453 eOTU0454 eOTU0455 eOTU0458 eOTU0458 eOTU0458 eOTU0458 eOTU0459 eOTU0460
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 689 689 690 691 692 693 694 695 696 697 700 701 702 703 704 705 706 707 708 709 710 714 715 716 717 	b7270b7df49baabec192484e64cc1bd5 bfc91273893ada75b1295a9082c5abf9 c2d7797d16d6ac7f86721b7dea379312 c8b47e7c446be810f5a3c60fae8a52ce dad9c24948f17dac241f6b9795afbb49 ee1607a26eb1911baf40bc70dbe0286f ef7700f0f42c88bf05bb90c4be688f5d fef841c1921c4f92831dc04ca740760 039f92f71d7f02196275274f86c2297 073feb3a0c1255ebc2cc1bd1979afe0a 193b4a3c182f121f1126a87f050031b 1c3c53ec032a6c551228f1aa6c89b0f2 532e1463f14255c00e8e1268c069bf4 55ba807f6f5124481664eef82ff8d 5d3d2295ad888940fa449fab7061c6 9855c608cf606d32bd218fc7c6d27e96 aae09e2924b8e437ddcc6b9cd038fdb5 ccf6441affafecc7fb2beb8fa22733 e002636f803acd2d4a45f3e7ffadcaa ed5bcf79f315db2254593af8c92afe01 9855c608cf606d32bd218fc7c6d27e96 aae09e2924b8e437ddcc6b9cd038fdb5 ccf6441affafecc7fb2beb8fa22733 e002636f803acd2d4a45f3e7ffadcaa ed5bcf79f315db22254590af9c87d33 00d1db856cbdb06794176ae4866f097f 0e1ffcf584297c6c9925b34a3053bdb5 1d021546a64a3bc04f27e7a7800216e7 3dbd3a74bc96a36c46979d511824af 52107ecc0e5b46bf2c28f4e9c56688a 5653035720005cfa03977bb057a5a909 608ab49e9a120fae58dba3464dcab12 78ac800c5b6c6a3ddc5ce7d5be00a33	eOTU0435 eOTU0436 eOTU0437 eOTU0437 eOTU0440 eOTU0440 eOTU0441 eOTU0442 eOTU0443 eOTU0445 eOTU0445 eOTU0445 eOTU0446 eOTU0447 eOTU0450 eOTU0450 eOTU0450 eOTU0451 eOTU0452 eOTU0455 eOTU0455 eOTU0455 eOTU0455 eOTU0455 eOTU0455 eOTU0455 eOTU0456 eOTU0459 eOTU0460 eOTU0461 eOTU0462 eOTU0463 eOTU0463
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741	28a05f2b2671937546b540cffe597d1d	eOTU0487	PnecC	MT989302
742	39008eb4ca6995e96827ef198c30b33e	eOTU0488	PnecC	MT989303
743	52b4fcd51af392713a655b093e98ea0b	eOTU0489	PnecB1	MT989304
744	6fc987d9bda76d98586d05259b4f691d	eOTU0490	PnecC	MT989305
745	8f3e02cb7f496d7bcca01a3f330aa406	eOTU0491	PnecC	MT989306
746	91df0877ab5b4e42b44e9b6ebefb566d	eOTU0492	PnecC	MT989307
747	97b387797cdb4ca87593736dad922f65	eOTU0493	PnecC	MT989308
748	a042e0324d339592f5b48a64bcf9a491	eOTU0494	PnecB1	MT989309
749	bbb1a2fe829dccaeccf95059ac60c96e	eOTU0495	PnecB1	MT989310
750	dd4fceb29a2997d85af85a26d2dfaeef	eOTU0496	PnecC	MT989311
751	1362bd1abe445a43efc78b64b480c6b5	eOTU0497	PnecC	MT989312
752	178b658c2af7fa2e83baf2a3f7e5c51e	eOTU0498	PnecC	MT989313
753	44e2c3049369bea0e7b1ff1aa50f46d8	eOTU0499	PnecC	MT989314
754	53ecf4967daf3ca15a2fe2dc8070182d	eOTU0500	PnecC	MT989315
755	549f135f4426b83c4106d54af6ae3c78	eOTU0501	PnecB1	MT989316
756	654734264c4c1702583e5042faa6ae0b	eOTU0502	PnecC	MT989317
757	7cf9757f0a3c30e0bbf428f0ee9c7da0	eOTU0503	PnecC	MT989318
758	7e8fe8db3b8cc6be1727f5dba7c5b922	eOTU0504	PnecC	MT989319
759	b257f3a6557df9df232d1455ec3a1a66	eOTU0505	PnecC	MT989320
760	b65e03e274401d53bf5b80dd36831013	eOTU0506	PnecC	MT989321
761	c9a339c759dcf0dd58920f76aa49aa74	eOTU0507	PnecB1	MT989322
762	e47f3adf34a78fe64b3ad204b4a4d9e5	eOTU0508	PnecC	MT989323
763	f2a757678969decf47ad77276eff6401	eOTU0509	PnecC	MT989324
764	176575d3c69b46285584eedf9264c980	eOTU0510	PnecC	MT989325
765	23c760b7568018c1f2b721fa35ac29d5	eOTU0511	PnecC	MT989326
766	39350c5973f66a40449c1e51b434af60	eOTU0512	PnecC	MT989327
767	87dcbceef849afb415bcad58ffce857d	eOTU0513	PnecC	MT989328
768	9bde41995886312ff409c8e2420179d8	eOTU0514	PnecC	MT989329
769	a3bc5528434cb0c399e8cb5664bc0605	eOTU0515	PnecB1	MT989330
770	d9170bddf5c1233610c60a38475961ee	eOTU0516	PnecC	MT989331
771	dcd95b82f9e037ed20a046a695baec85	eOTU0517	PnecC	MT989332
772	e0ca185a60b352db40c3d7cce32e945a	eOTU0518	PnecC	MT989333
773	e4dc13f59527cbf7aa3bd8f5e4936cb8	eOTU0519	PnecB1	MT989334
774	f2ec76d12de7f56359568ff6eb099cad	eOTU0520	PnecB1	MT989335
775	fbe033771e5269704275b540465d41b9	eOTU0521	PnecB1	MT989336

Suppl. Mat. Table S3. Mantel tests and partial Mantel tests (Spearman rank correlations, 9999 permutations) were used to analyse if dissimilarity between *Polynucleobacter* communities increase with geographic distance or with differences in pH or other environmental or climatic variables. Environmental distances represent Euclidean distances calculated by the dist() function of the vegan package. All environmental data but pH were log-transformed prior to distance calculations. BC, Bray-Curtis dissimilarity; BC_lowCa, only low Ca^{2+} samples; geoDist, geographic distance; pHDist, pH distance between samples; CaDist, Ca^{2+} concentration distance between samples; envDist, distance based on four environmental variables[§], EnvGeoClimDist, distance based on geographic, climatic and environmental variables^{§§}.



[§] Ca²⁺, pH, Abs_{250nm}, Na⁺

 $^{\$\$}$ geographic distance, altitude, climate, envDist, habitat type