Article – Supplementary Material

Microbiological Characterization of the Biofilms Colonizing Bioplastics in Natural Marine Conditions: A Comparison between PHBV and PLA

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Number of pages: 4
Number of figures: 4
Number of tables: 1

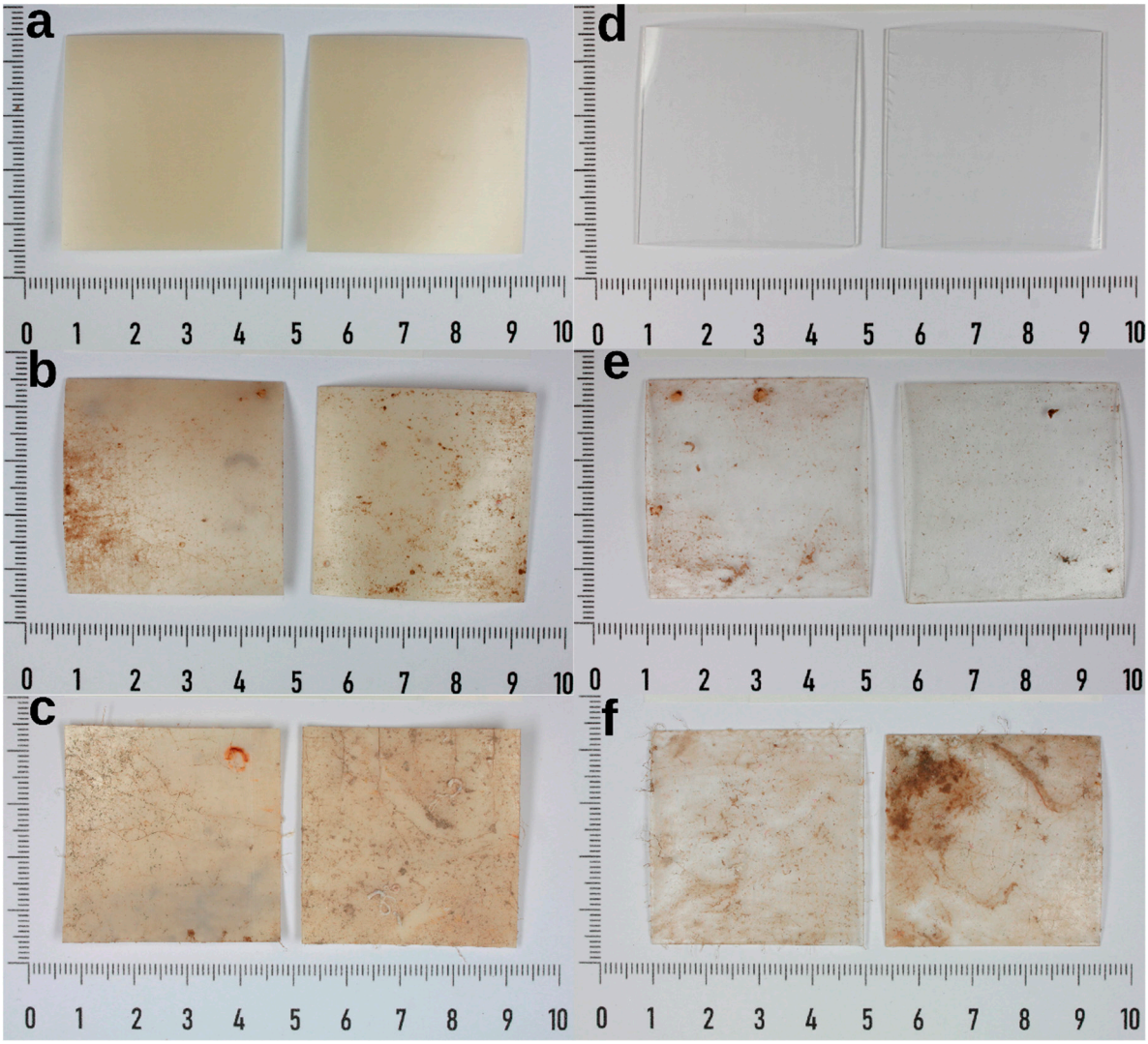

Figure S1. Visual aspect of PHBV (a, b, c) and PLA (d, e, f) samples after 0, 1 and 6 months of exposure to a real marine environment.

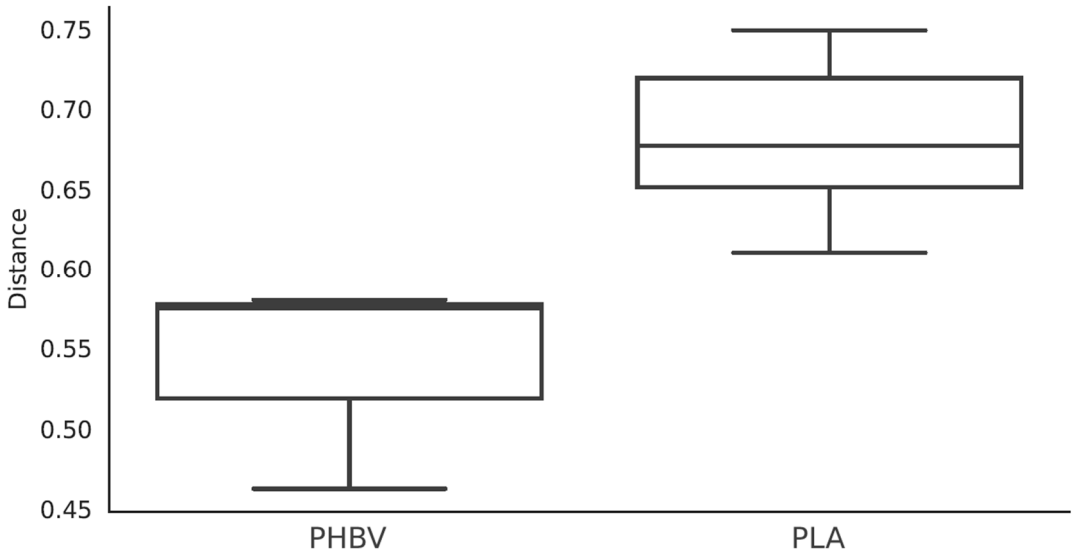

Figure S2. Unweighted Unifrac distances within PHVB and between PLA and PHBV microbial communities. Mann Whitney test results show significant differences ($p < 0.05$).

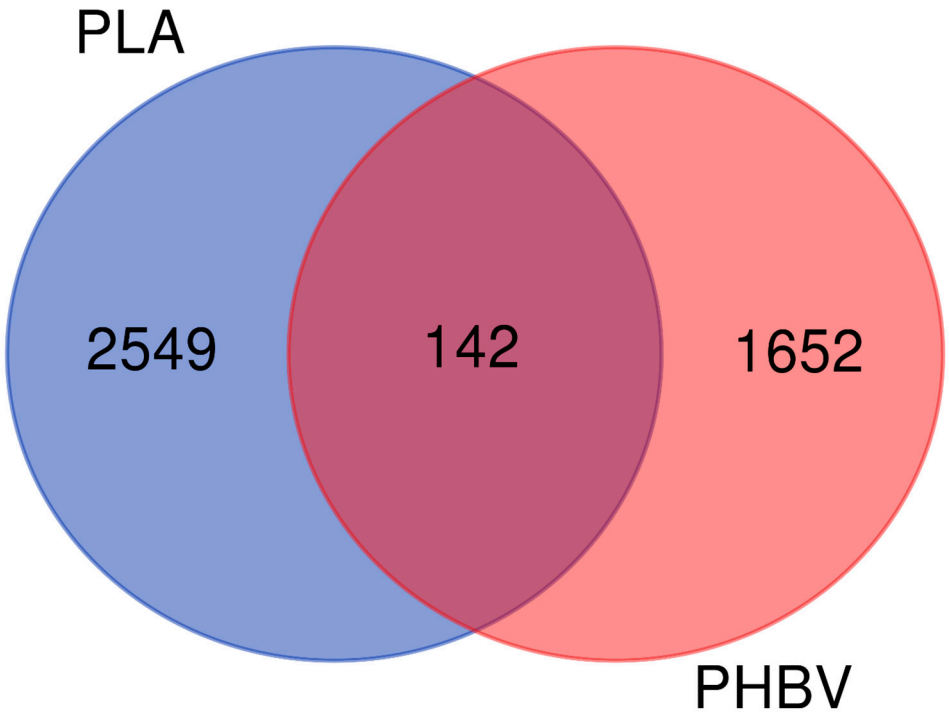

Figure S3. Venn diagram showing shared and specific operational taxonomic units (OTUs) present in the biofilms formed on PLA and PHBV samples.

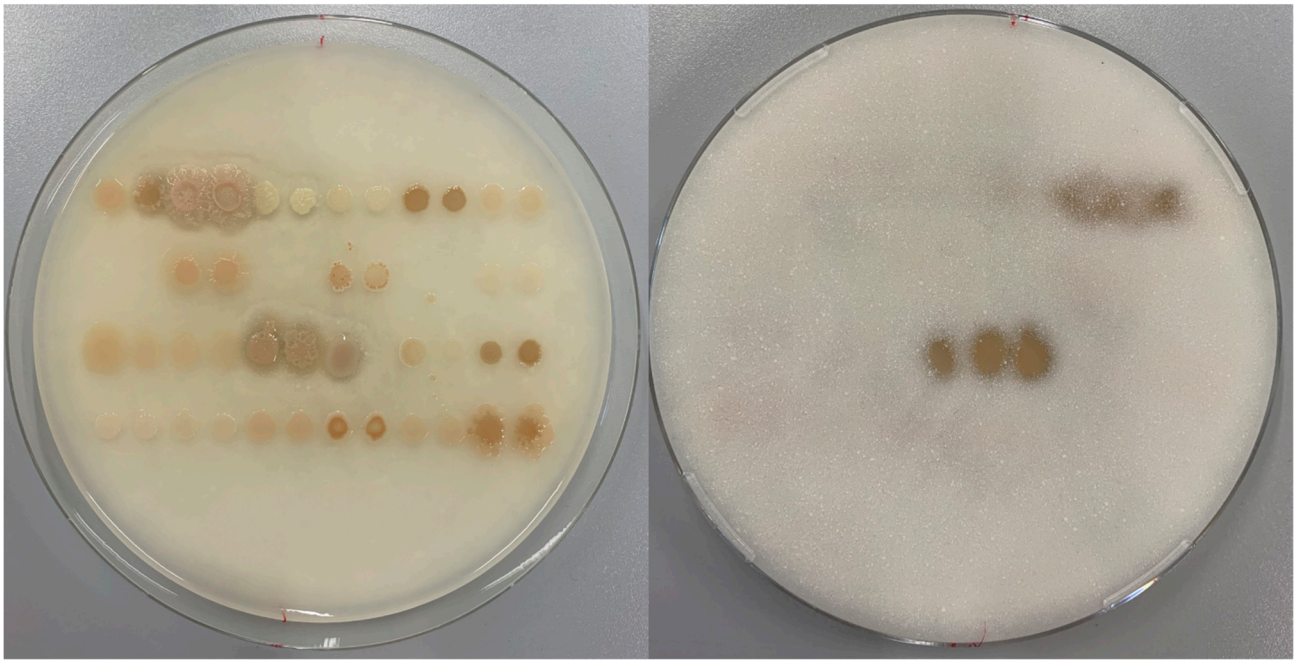

Figure S4. Top and bottom side of marine agar supplemented with PHBV plates used for the screening of PHBV-degrading microbes.

Table S1. Blast results of the comparison between the 16S rRNA gene sequences from the isolates and the representative sequences of the biofilm derived operational taxonomic units (OTUs).

Isolate	Phylotype ID	Taxon	% Identity	Alignment lenght	Mismatches	Gap opens	q. start	q.end	s.start	s.end	Evalue	Bit score
C2	7d119e9798a893c2d997edbf15545dd0	*Ruegeria*	100	399	0	0	191	399	1	0	399	737
A11	1460d734d3638e476053a9a7b1d5099a	*Vibrio*	97.66	428	4	5	86	425	1	0	425	730
B1	2dd6b48401ed789955e2cad835e9fbc0	*Pseudoalteromonas*	95.76	425	14	4	169	423	1	0	423	682
B9	f24e8d1c913ec880d892ab69508f259d	uncultured_*Eionea*	90.40	427	37	4	116	425	1	8.37^{-160}	425	558