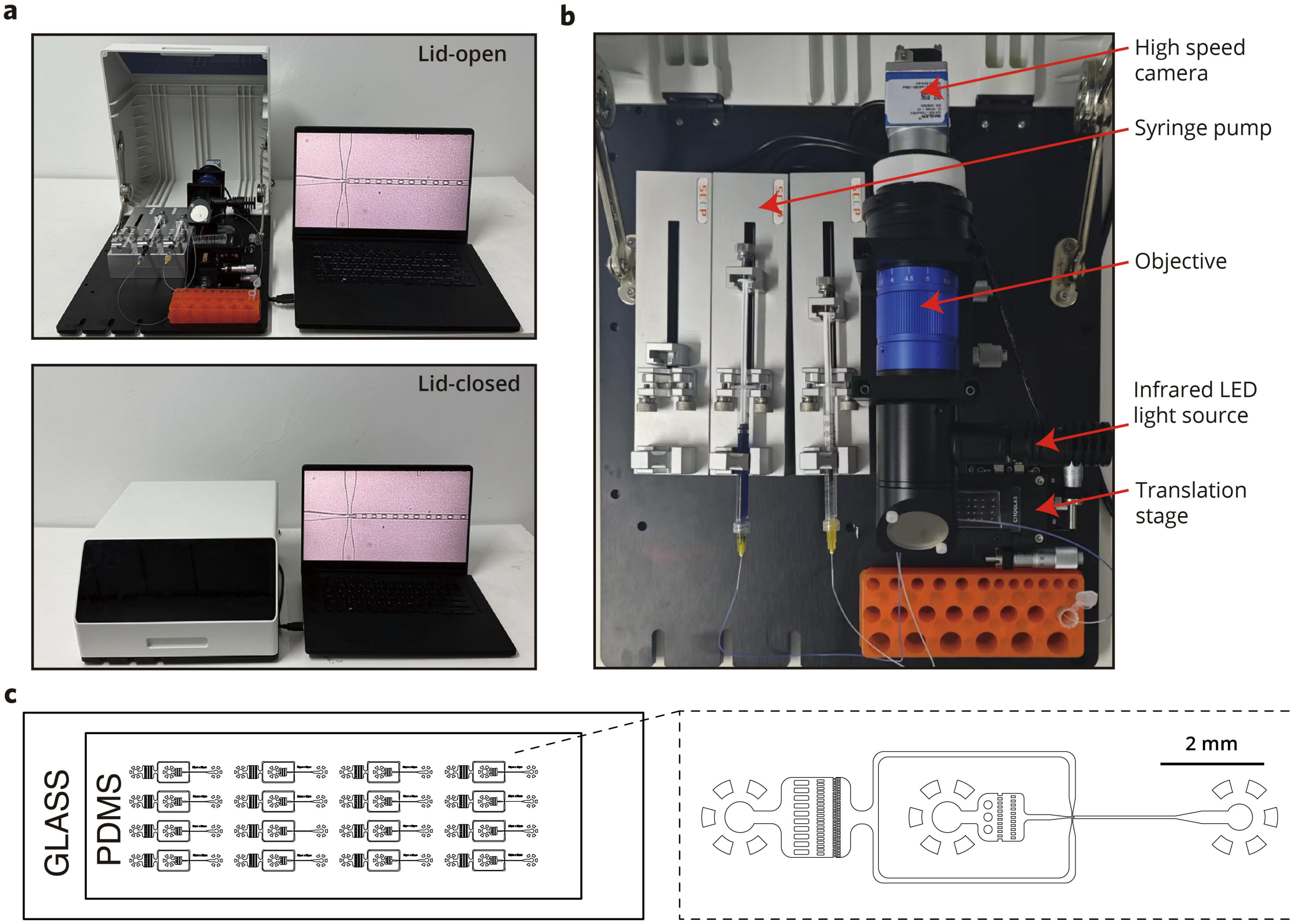
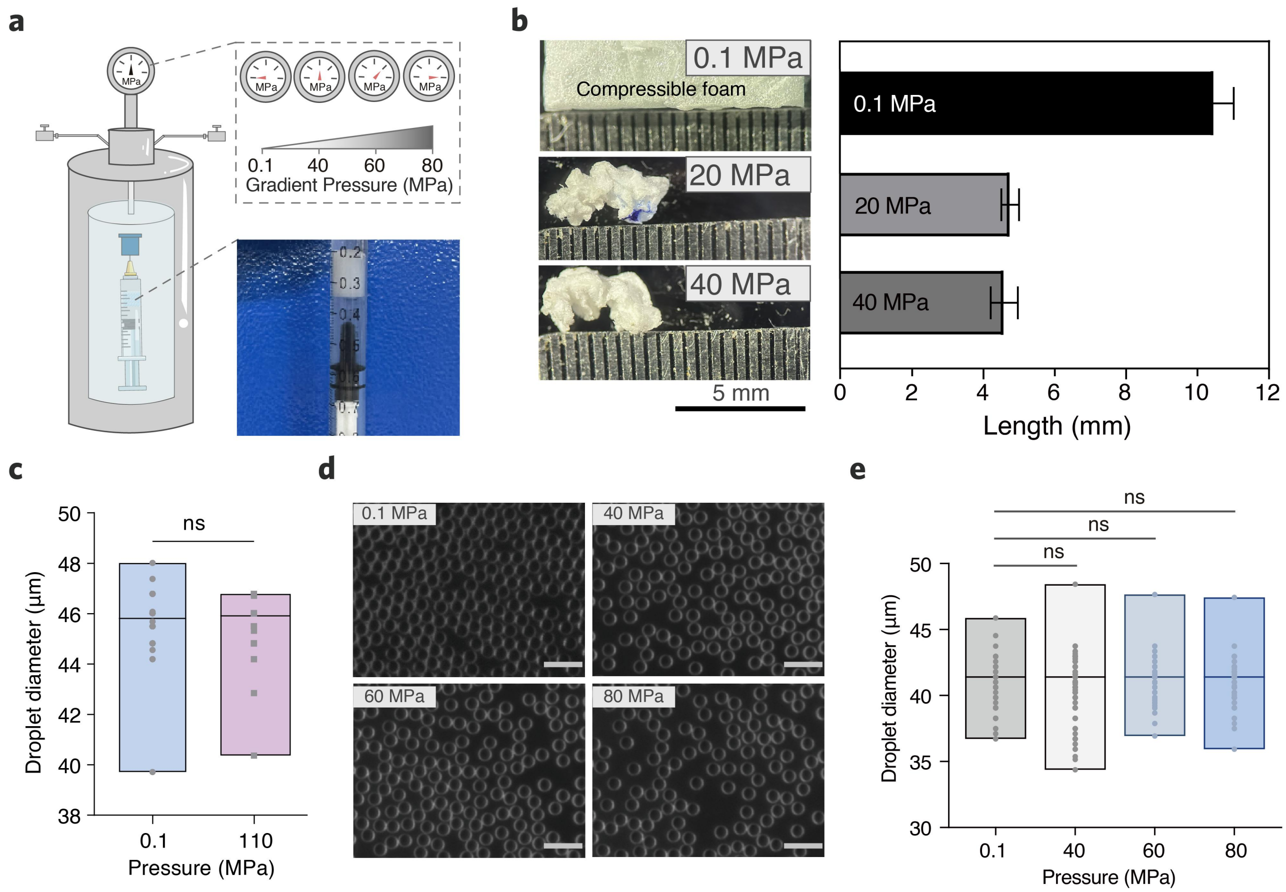
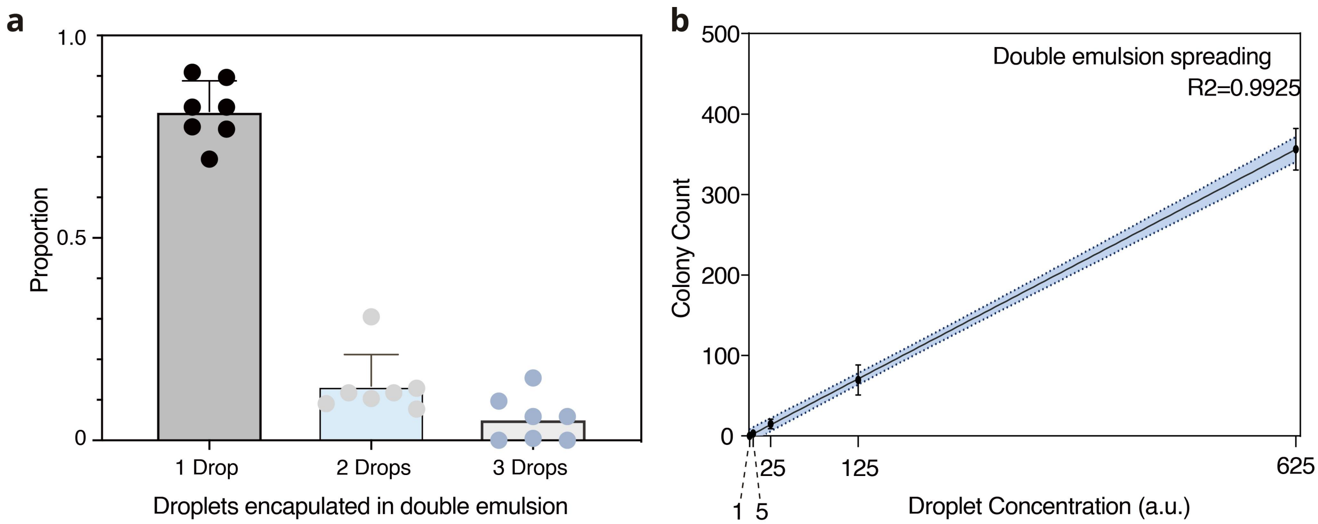


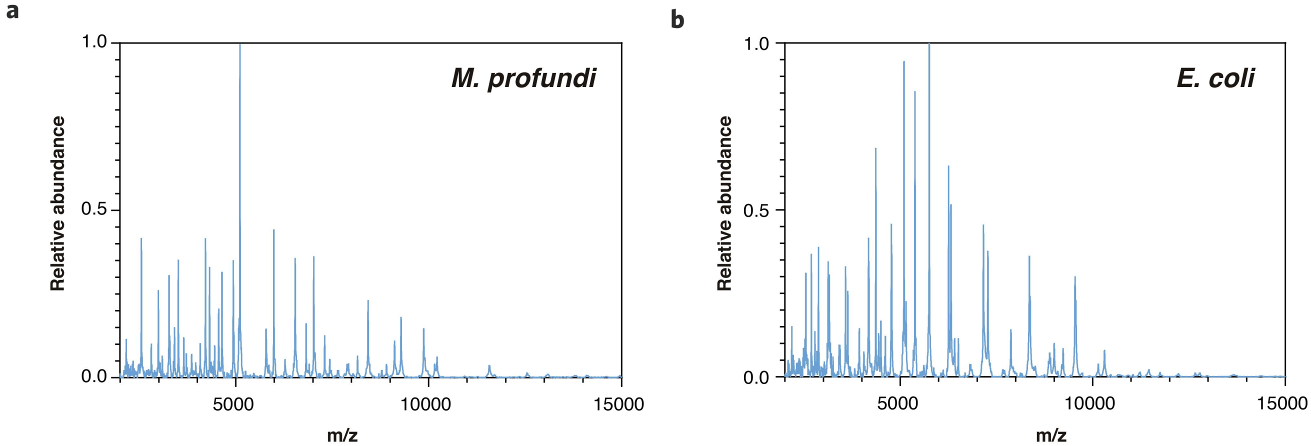
Supplementary Fig. 1 | Custom-built droplet microfluidic instrument. a, Exterior views of the instrument with the enclosure open (top) and closed (bottom), highlighting its compact footprint. **b,** Working modules of the system include a syringe pump for sample injection, a computer-controlled three-axis translation stage for precise chip alignment, an infrared back-illumination source, and a high-speed camera coupled to a tunable magnification unit for real-time droplet imaging. This integrated, compact platform enables stable, high-throughput, onboard generation of monodisperse droplets. **c,** Design of the microfluidic droplet generation device. The top panel shows the 4x4 array schematic of the device composed of polydimethylsiloxane (PDMS) and glass. The middle panel depicts the detailed design for a single droplet generation unit. The bottom panel displays a high-speed camera recording of the droplet generation process, where the oil phase shears the aqueous phase containing bacterial cells, creating monodisperse water-in-oil droplets. The channels are 40 μm in depth and treated with Aquapel to render them hydrophobic, ensuring stable droplet formation. Scale bar: 2 mm.



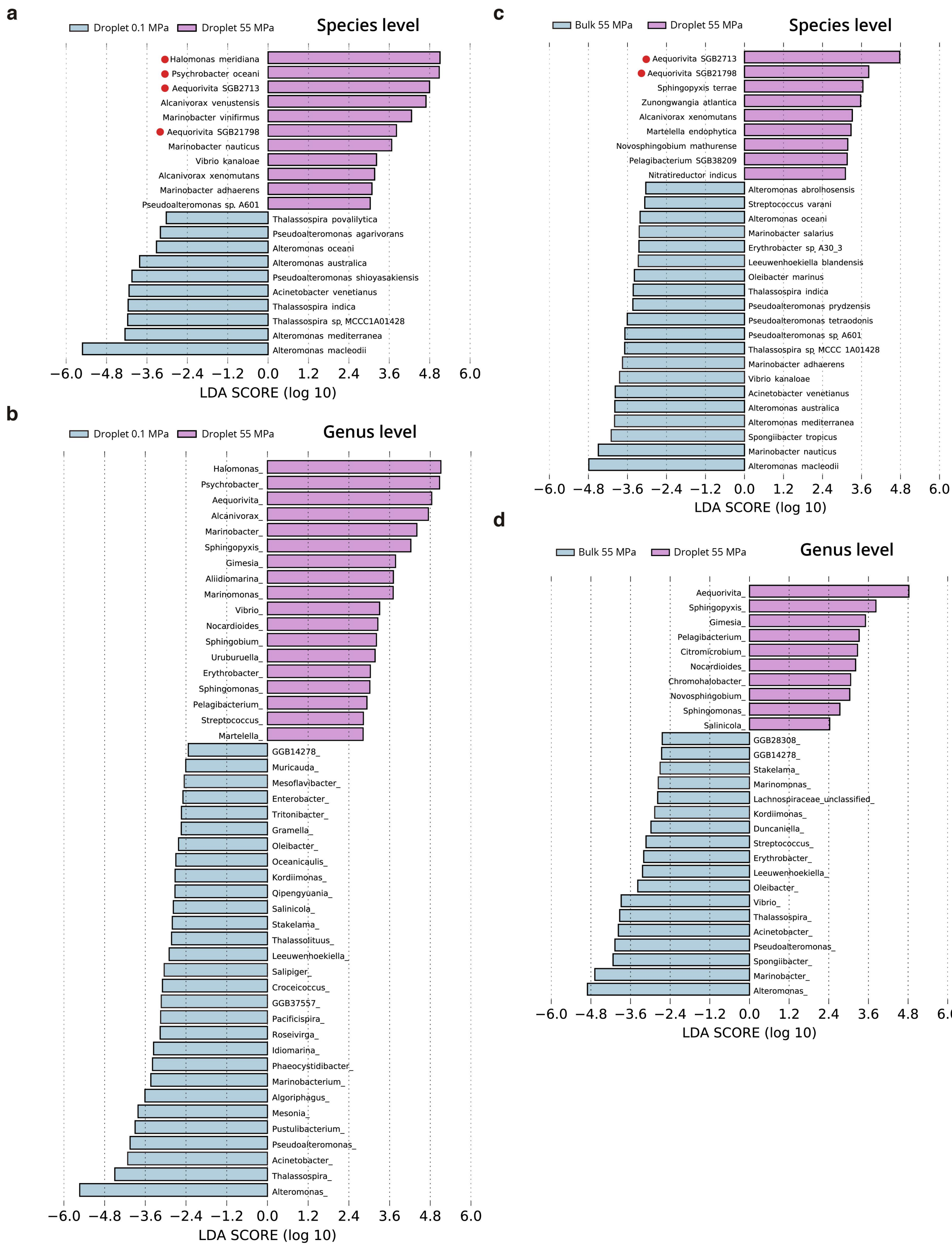
Supplementary Fig. 2 | Validation of droplet stability under high hydrostatic pressure. a, Schematic of the titanium pressure vessel used to test droplet integrity under hydrostatic pressures ranging from 0.1 to 110 MPa. **b,** Pressure transmission validation using compressible polyurethane foam placed inside a syringe and incubated at 0.1, 20, or 40 MPa for 1 hour (n = 3). Post-compression foam lengths indicate effective pressure delivery, with deformation plateauing at 20–40 MPa due to material limits. Scale bar: 5 mm. **c,** Box plot showing no significant change in droplet diameter before and after 110 MPa exposure (n = 300 per group; unpaired t-test). **d,** Representative brightfield images of droplets incubated for 7 days at 0.1–80 MPa, corresponding to depths of 0–8,000 m. Scale bars: 100 μm. **e,** Quantitative droplet diameter measurements confirm structural stability across all pressures tested. ns, not significant.



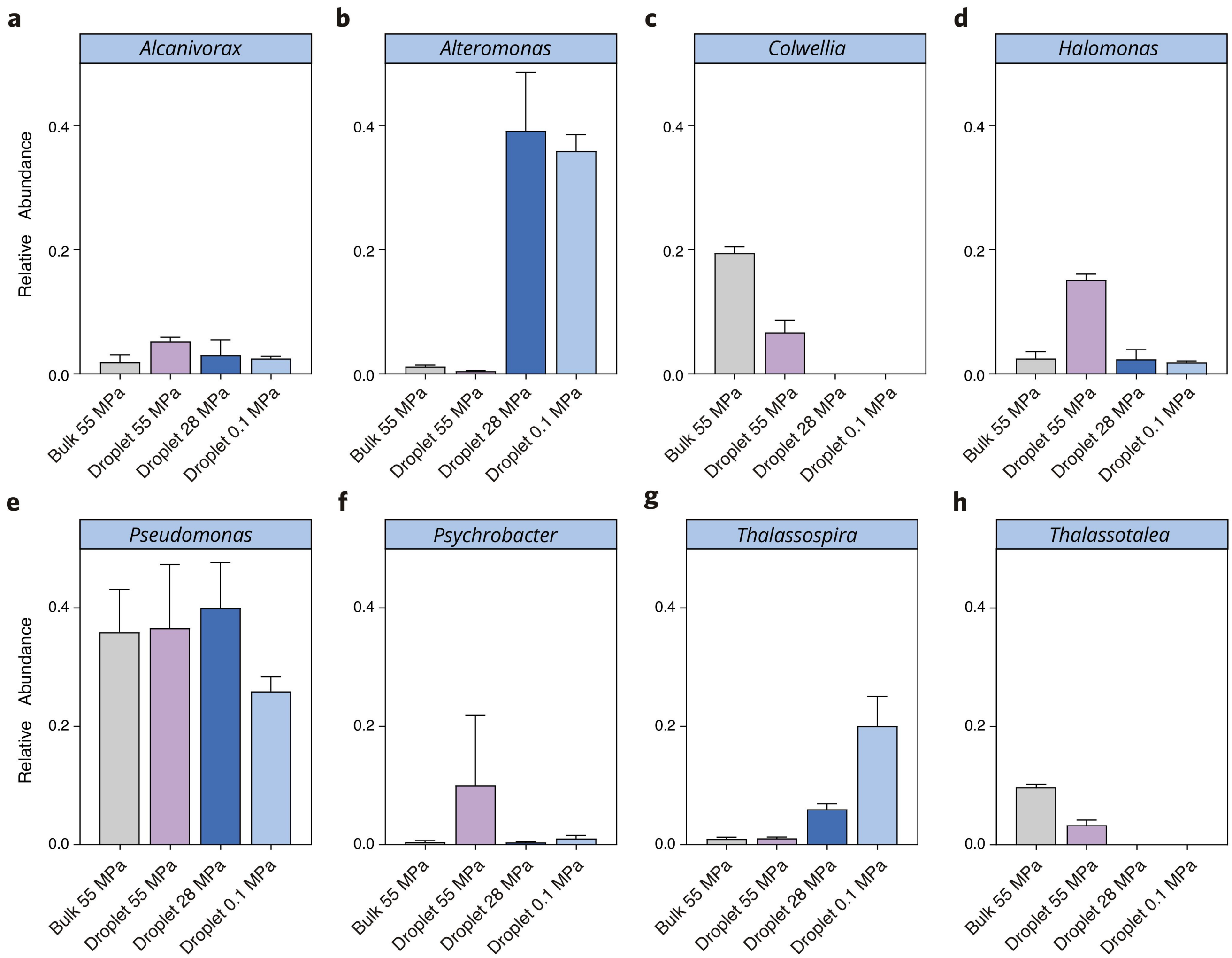
Supplementary Fig. 3 | Re-emulsification of double emulsions to plate on agar media for recovery. a, Proportions of double emulsions containing one, two, or three internal droplets. **b,** Linear regression analysis of colony counts derived from PBS-diluted double-emulsions plated on agar plates, demonstrating high linearity (R^2 = 0.9925).



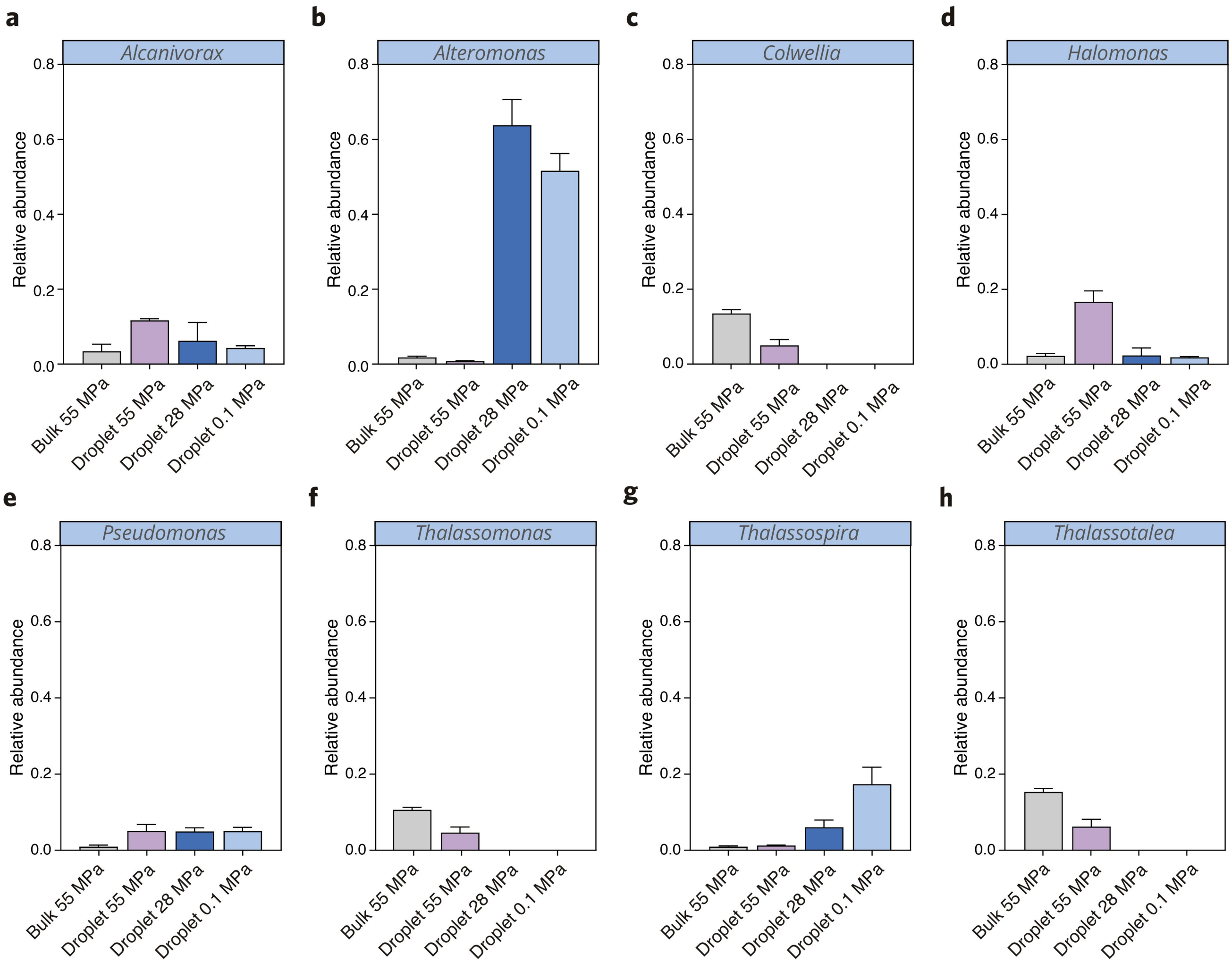
Supplementary Fig. 4 | MALDI-TOF based strain identification. Representative mass spectra of **a,** *Marinobacter profundi* and **b,** *Escherichia coli* obtained with MALDI-TOF mass spectrometry.



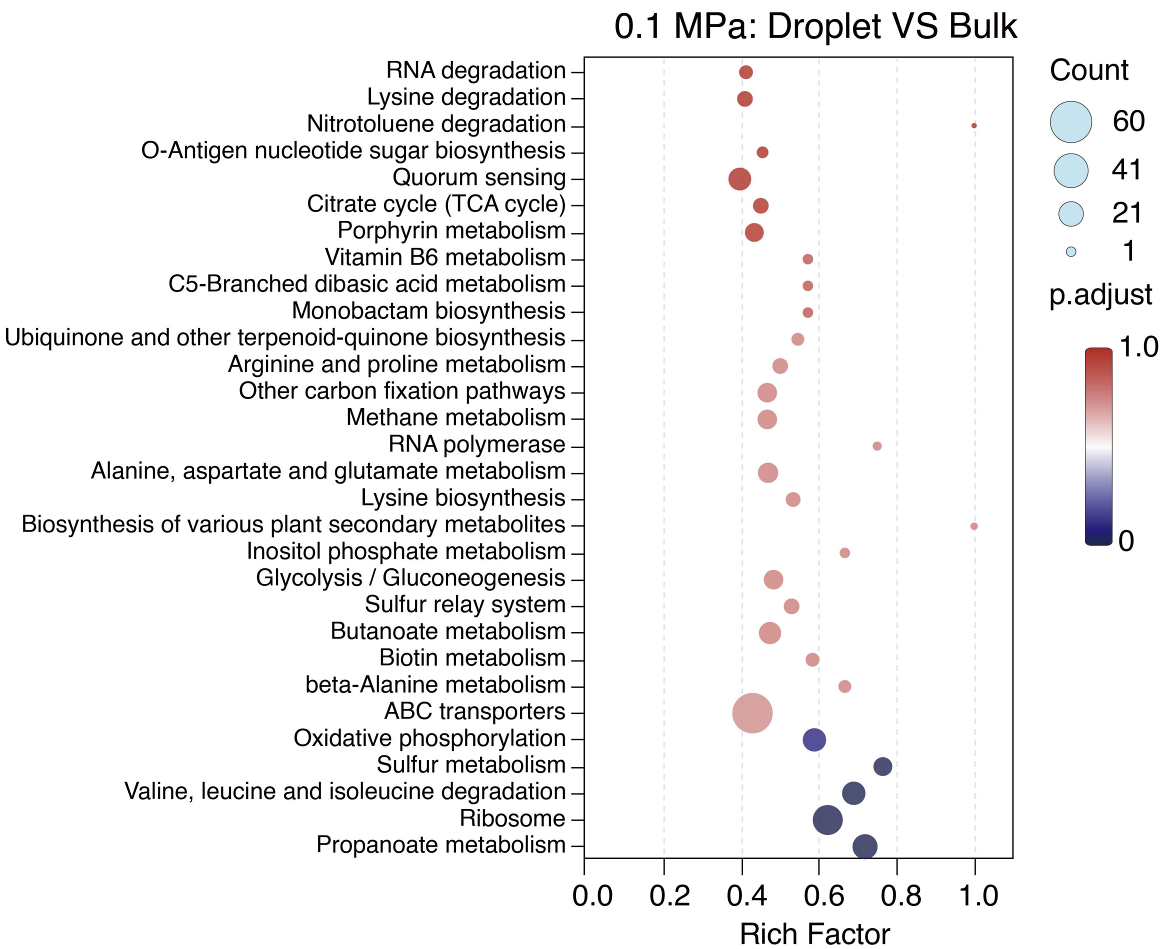
Supplementary Fig. 5 | Discriminative species enriched under high hydrostatic pressure (HHP) and picoliter-scale confinement. LEfSe analysis of species-level and genus-level taxonomic differences between **a,b,** droplet-based cultivation at 0.1 MPa vs 55 MPa, and **c,d,** bulk vs droplet cultivation at 55 MPa. Species highlighted with red dots represent discriminative taxa significantly detected under both HHP and picoliter-scale confinement.



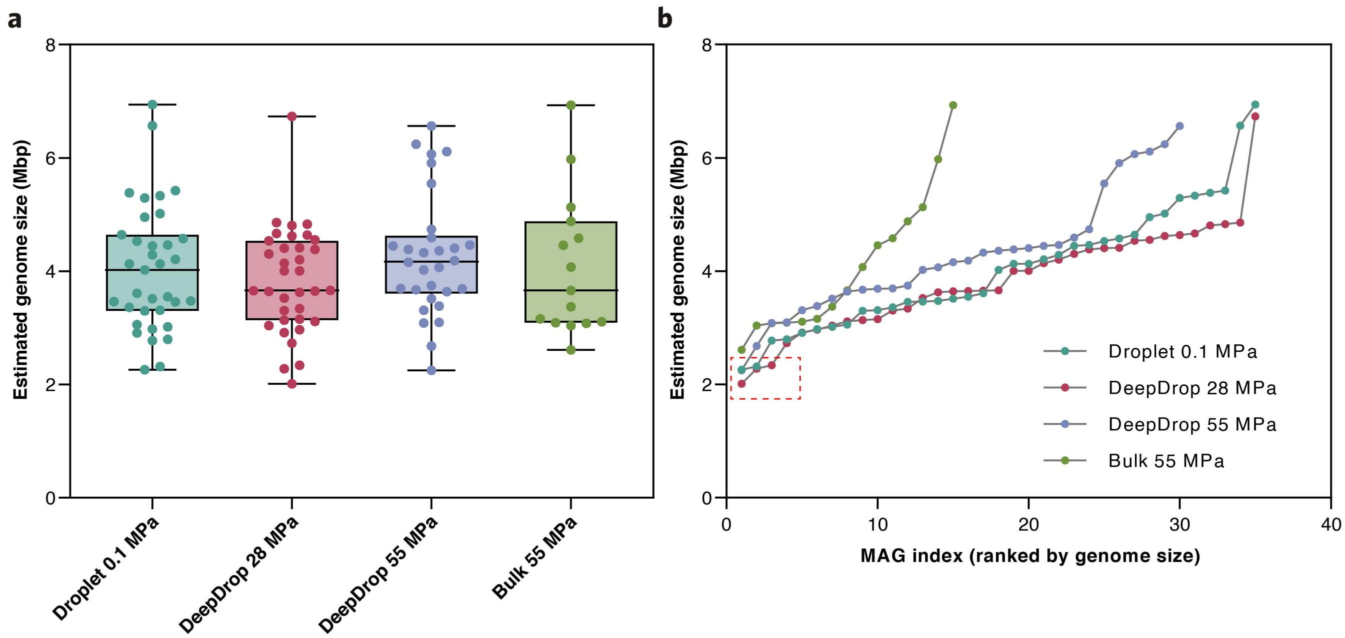
Supplementary Fig. 6 | Pressure-dependent enrichment of ABC transporter pathways in key genera. Relative abundances of ABC transporter-associated reads from metagenomic sequencing are shown for the top eight enriched genera under four cultivation conditions: droplet 0.1 MPa, DeepDrop 28 MPa, DeepDrop 55 MPa, and bulk 55 MPa. Panels a–h, correspond to *Alcanivorax* **a,** *Alteromonas* **b,** *Colwellia* **c,** *Halomonas* **d,** *Pseudomonas* **e,** *Psychrobacter* **f,** *Thalassospira* **g,** and *Thalassotalea* **h.** Data represent mean ± SD (n = 3 biological replicates).



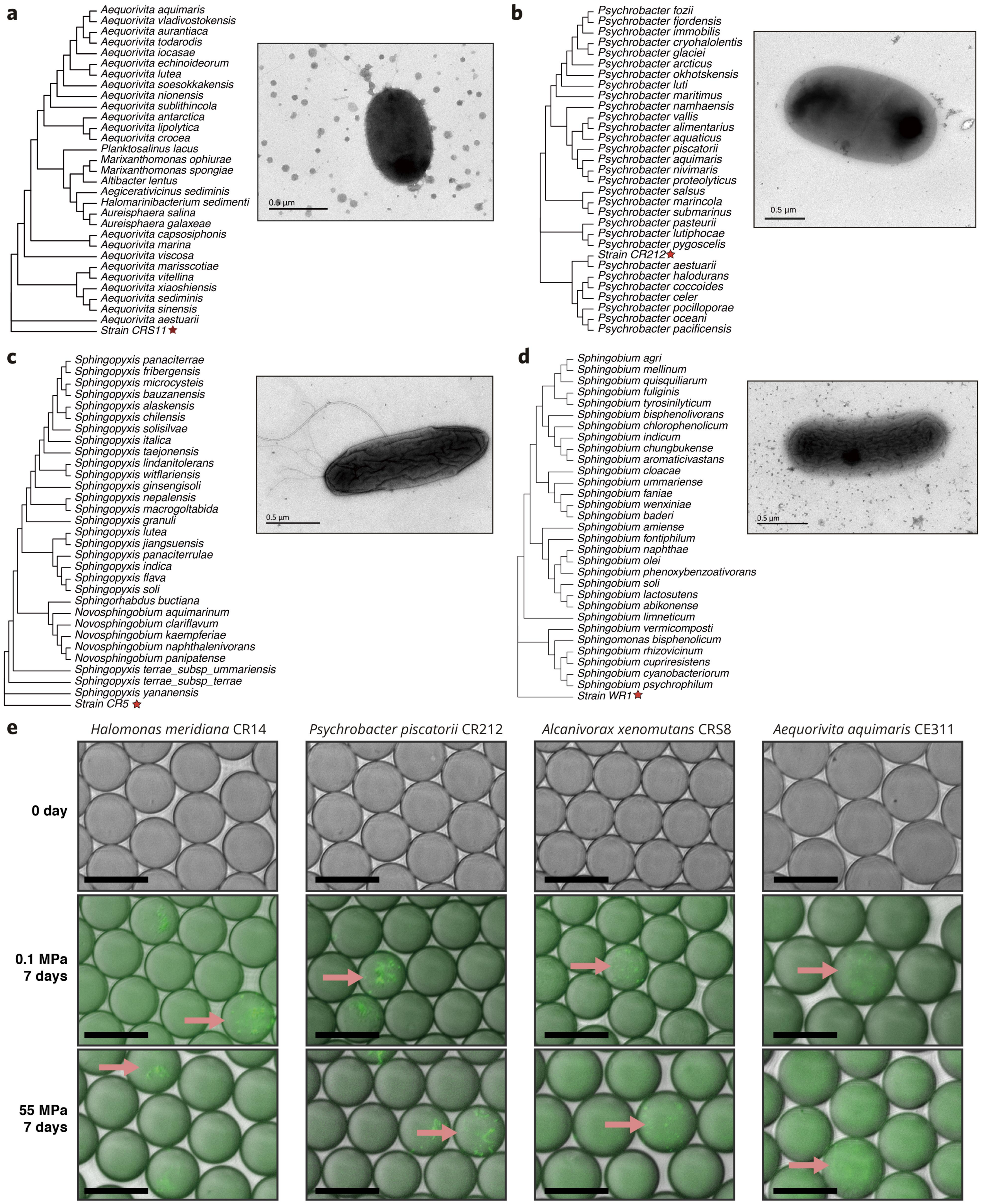
Supplementary Fig. 7 | Quorum sensing (QS) pathway enrichment across cultivation conditions. Relative abundances of QS pathway related reads from metagenomic sequencing are compared for the top eight genera under the same four conditions as in Supplementary Fig. 6. Panels **a–h,** correspond to **a,** *Alcanivorax,* **b,** *Alteromonas,* **c,** *Colwellia,* **d,** *Halomonas* **e,** *Pseudomonas,* **f,** *Thalassomonas*, **g,** *Thalassospira*, and **h,** *Thalassotalea*. Error bars indicate SD (n = 3).



Supplementary Fig. 8 | Metabolic pathway shifts under droplet confinement in the atmospheric conditions. KEGG pathway enrichment analysis comparing enrichments in droplets at 0.1 MPa versus bulk at 0.1 MPa. Each cultivation condition was sequenced in triplicate.



Supplementary Fig. 9 | Distribution of estimated genome size (MAG size / MAG completeness) size obtained under different cultivation regimes. a, Box-plot distributions for normalized genomes recovered from different cultivation regimes. An unpaired t-test detects no significant differences among conditions ($P > 0.05$). **b,** Rank-ordered genome-size curves highlight that the smallest genomes are predominantly recovered from droplet-based cultures.



Supplementary Fig. 10 | Phylogenetic placement and pressure tolerance of representative isolates. a-d, maximum likelihood phylogenetic trees based on 16S rRNA gene sequences and transmission electron micrographs for four representative strains isolated using DeepDrop: CRS11 (*Aequorivita*), CR212 (*Psychrobacter*), CR5 (*Sphingopyxis*), and WR1 (*Sphingobium*). Red stars indicate each strain's phylogenetic position. Scale bars: 0.5–1 µm. **e,** Growth performance of four selected strains under atmospheric (0.1 MPa) and high-pressure (55 MPa) conditions in droplets. All strains showed visible growth after 7 days of incubation under both pressures. Red arrows indicate droplets containing colonies. Scale bars, 50 µm.

Supplementary Table 1 | Information on deep-sea samples used in this study collected along the Southern Mid-Atlantic Ridge.

Sample ID	Sample name	Sampling site	Longitude	Latitude	Depth (m)	Sampling technique
S1	CTD05	South Atlantic Ocean	-13.63185	-22.90332	5500	CTD Rosette Sampler
S2	JL254	Southern Mid-Atlantic Ridge Hydrothermal Vent Fields	-13.47222	-27.16241	3300	Push Core Sampler
S3	WTS05	South Atlantic Ocean	-14.36366	-14.03636	2000	Seawater in-situ filtration system

Supplementary Table 2 | Abundance of microbial genera in sample S2 under different cultivation pressures: Comparison of DeepDrop Droplet Cultures and Bulk HHP Cultures.

	Genus	Cultivation conditions			
		55 MPa Bulk	55 MPa Droplet	28 MPa Droplet	0.1 MPa Droplet
1.	*Halomonas*	0.152599333	0.268538667	0.0178105	0.013303733
2.	*Psychrobacter*	0.0588378	0.231173667	0.0060412	0.016475533
3.	*Aequorivita*	0.006254233	0.140866033	0.0035429	0.000806567
4.	*Alcanivorax*	0.183045333	0.132467	0.035724633	0.0274022
5.	*Marinobacter*	0.167451667	0.074745367	0.011290133	0.0274761
6.	*Pseudomonas*	0.069846267	0.073238867	0.0370223	0.041495967
7.	*Alteromonas*	0.179938667	0.015357867	0.799489667	0.709583
8.	*Acinetobacter*	0.0312617	0.011326967	0.017516167	0.036029033
9.	*Microbacterium*	0.003360733	0.005696167	0.000573167	0.001996533
10.	*Thalassospira*	0.0211346	0.005075433	0.019374733	0.069315467
11.	*Pseudoalteromonas*	0.029476167	0.005046333	0.010672433	0.0269528
12.	*Spongiibacter*	0.030769133	0.004988	0.0067157	0.004592133
13.	*Cobetia*	0	0.004976567	0	0
14.	*Vibrio*	0.019987633	0.004616867	0.002264867	0.000775033
15.	*Nocardioides*	0	0.003413367	7.86667E-06	0.0000066
16.	*Erythrobacter*	0.006574933	0.003363633	0.0019401	0.001254433
17.	*Zunongwangia*	0.001909333	0.002687333	0.003398733	0.002640833
18.	*Halopseudomonas*	0.0033719	0.002631467	0.000883967	0.003087733
19.	*Pseudooceanicola*	0.001620467	0.001457133	0.000987067	0.001496433
20.	*Idiomarina*	0.001742167	0.001259067	0.003628833	0.0037865
21.	*Martelella*	0.000804967	0.001085467	0.000193033	0.0002013
22.	*GGB7164*	0.0010854	0.001061333	0.001293167	0.0009884
23.	*Streptococcus*	0.004023467	0.0010393	0.000467267	0.000159033
24.	*Pelagibacterium*	0	0.0007142	9.73667E-05	0.000156367
25.	*Leeuwenhoekiella*	0.004361667	0.0005298	0.002308967	0.0019974
26.	*Sphingomonas*	0	0.0004265	6.03333E-06	0.0000069
27.	*Salinicola*	5.68667E-05	0.0002513	0.000852267	0.001124867
28.	*Oleibacter*	0.005028533	0.0002389	0.001030533	0.001092467
29.	*Nitratireductor*	0.0004586	0.000227933	0.000651233	0.000238867
30.	*Lachnospiraceae_unclassified*	0.001236633	0.000161467	1.44333E-05	4.24667E-05
31.	*Uruburuella*	0.000112733	0.000134	1.07667E-05	4.66667E-06
32.	*GGB14278*	0.000879767	0.0001054	0.001475833	0.000275867

33.	*Sphingobium*	0.0001452	0.0001003	0.0000063	0.0000278
34.	*GGB15955*	5.63333E-05	0.000100133	0.0000311	6.16667E-05
35.	*Marinomonas*	0.000179333	9.20333E-05	4.82333E-05	7.66667E-06
36.	*Dietzia*	0	0.0000861	0	0
37.	*Chromohalobacter*	0	6.71333E-05	3.46667E-06	4.12333E-05
38.	*Stakelama*	0.000864433	0.0000654	0.0012006	0.001203433
39.	*Qipengyuania*	0.0003821	6.16333E-05	0.000284867	0.0002367
40.	*Mesonia*	6.56333E-05	0.0000552	0.0002803	0.000158933
41.	*Kordiimonas*	0.000736967	5.19667E-05	0.000334233	0.000272233
42.	*Citromicrobium*	0	0.0000378	0.0001593	2.49667E-05
43.	*Novosphingobium*	0	0.0000378	1.27333E-05	2.35667E-05
44.	*Akkermansia*	0.000134	0.0000331	0.0000108	1.32333E-05
45.	*GGB28308*	0.000404433	3.04667E-05	5.03333E-06	0.0000163
46.	*Sphingopyxis*	0	0.0000272	0	0
47.	*Aliidiomarina*	6.93333E-06	2.62333E-05	1.76667E-06	0
48.	*GGB27929*	7.12333E-05	0.0000259	0	3.63333E-06
49.	*Muricauda*	0.000151767	0.0000233	0.0009252	0.0001859
50.	*Duncaniella*	0.0001499	1.91333E-05	2.23333E-06	1.66667E-06
51.	*GGB35902*	0	0.0000171	0	0
52.	*Salipiger*	0.0003943	1.66667E-05	0.0004197	0.000176967
53.	*Gimesia*	0	0.0000142	0	0
54.	*Bacteroides*	0.0001176	0.0000121	0.000842933	0.0000032
55.	*Croceicoccus*	2.55667E-05	0.0000116	0.0000203	5.63333E-05
56.	*Phaeocystidibacter*	3.26667E-06	7.93333E-06	0.000357933	7.01667E-05
57.	*Gramella*	0.000124433	7.03333E-06	0.000400467	0.000265233
58.	*Enterobacter*	0	6.66667E-06	1.74333E-05	0.000529567
59.	*GGB23844*	4.77333E-05	5.46667E-06	0	0
60.	*GGB28356*	2.93333E-06	4.93333E-06	0	0
61.	*Salinisphaera*	0	0.0000048	0	0
62.	*GGB7774*	0	4.66667E-06	0	0
63.	*Albimonas*	0	4.46667E-06	0	3.16667E-06
64.	*Aeromonas*	0	4.33333E-06	0	0
65.	*Phycicoccus*	0	0.0000038	0	0
66.	*GGB15660*	0	3.56667E-06	0	0
67.	*Marinisubtilis*	0	3.53333E-06	0	0
68.	*Ralstonia*	0	2.93333E-06	0	0

69.	*Micrococcus*	0	0.0000028	0	0
70.	*Empedobacter*	0	0.0000021	0	0
71.	*Mesorhizobium*	0	1.43333E-06	1.67667E-05	6.46667E-06
72.	*Georgenia*	0	0.0000013	0	0
73.	*GGB75055*	0	0.000001	0	0
74.	*Cyclobacterium*	0	0.0000009	0	0
75.	*GGB28904*	0.0000055	6.66667E-07	0	0
76.	*Tistrella*	0	6.66667E-07	0	0
77.	*Alistipes*	0	5.66667E-07	0.0014017	0
78.	*Gracilimonas*	0	0.0000002	0	0
79.	*Pedobacter*	0	1.66667E-07	0	0
80.	*Acetobacterium*	0	0	0.000250067	0.000254
81.	*Acuticoccus*	0	0	0	2.33333E-07
82.	*Algoriphagus*	1.52667E-05	0	0.000024	2.22667E-05
83.	*Alterileibacterium*	0	0	6.94333E-05	0
84.	*Bacillus*	0	0	0	0.000137167
85.	*Bifidobacterium*	0	0	0.0000019	0.0000078
86.	*Consotaella*	0	0	0	3.36333E-05
87.	*Coprobacillus*	0	0	0.000102433	0
88.	*Dialister*	0	0	0.0000979	0
89.	*Eisenbergiella*	0	0	0.0002747	0
90.	*Endozoicomonas*	0	0	1.96667E-05	0
91.	*Enterocloster*	0	0	0.0000366	0
92.	*Escherichia*	0	0	0.000311567	0
93.	*Eubacteriales_Family_XIII_Incertae_Sedis_unclassified*	0	0	0.0000094	0
94.	*Exiguobacterium*	0	0	0	0.000182433
95.	*Flavobacterium*	0	0	2.46667E-06	0
96.	*Gemella*	0	0	3.33667E-05	0
97.	*GGB27768*	3.04333E-05	0	0	0
98.	*GGB37557*	0	0	3.34333E-05	1.00667E-05
99.	*GGB4243*	0	0	0.000011	0
100.	*GGB7463*	0	0	0.0000359	0
101.	*GGB75086*	0.0000074	0	0	0
102.	*GGB9534*	0	0	2.15667E-05	0
103.	*Halobacteriovorax*	0	0	1.93667E-05	0.0000011

104.	*Henriciella*	0	0	3.53333E-06	0
105.	*Hyphomonas*	0	0	0.0000084	0
106.	*Luteirhabdus*	0	0	0.0000083	0
107.	*Marinicauda*	0	0	0.0000163	3.33333E-07
108.	*Marinilactibacillus*	0.0086141	0	0	0
109.	*Marinobacterium*	0	0	0	0.000184133
110.	*Marisediminitalea*	0	0	0.0000113	0
111.	*Mediterraneibacter*	0	0	0.0006277	0
112.	*Mesoflavibacter*	0	0	0.0005044	0.0002171
113.	*Mucispirillum*	3.25333E-05	0	0	0
114.	*Mycolicibacterium*	0	0	0.0000085	0
115.	*Oceanicaulis*	0	0	0.000104533	8.31667E-05
116.	*Pacificispira*	0	0	0.0001139	0.0000524
117.	*Pacificitalea*	0	0	0	8.33333E-06
118.	*Parabacteroides*	0	0	0.0007447	0
119.	*Parvibaculum*	0	0	9.76667E-06	0
120.	*Parvimonas*	0	0	0.000177	0
121.	*Peptostreptococcus*	0	0	0.0000067	0
122.	*Phocaeicola*	0	0	0.000487433	0
123.	*Porphyromonas*	0	0	0.0008497	0
124.	*Pustulibacterium*	0	0	3.32667E-05	5.00333E-05
125.	*Roseivirga*	0	0	0.0001603	1.72333E-05
126.	*Roseovarius*	0	0	7.66667E-07	8.96667E-06
127.	*Salegentibacter*	0	0	3.66667E-06	2.53333E-06
128.	*Sinobacterium*	0	0	7.37667E-05	1.36667E-06
129.	*Solobacterium*	0	0	0.000193367	0
130.	*Sulfitobacter*	0	0	8.56667E-06	0.0000286
131.	*Thalassolituus*	0	0	5.31333E-05	0.000177033
132.	*Thauera*	0	0	8.94667E-05	0.0001213
133.	*Tritonibacter*	0	0	0.0000271	0.000128467
134.	*Vescimonas*	0	0	0.000180867	0
	Total genera	54	79	99	78

Supplementary Table 3 | Metagenome-assembled genomes (MAGs) recovered across all cultivation conditions with >50% completeness and <10% contamination.

MAG_ID	completeness	contamination	size
Droplet_55MPa_metaspades_bin_9	56.38	9.561	3446042
Droplet_55MPa_metaspades_bin_8	76.8	2.277	3126177
Droplet_55MPa_metaspades_bin_7	62.93	0.862	2211492
Droplet_55MPa_metaspades_bin_6	67.39	3.448	4424716
Droplet_55MPa_metaspades_bin_5	98.05	0.553	3623180
Droplet_55MPa_metaspades_bin_4	67.24	0	3971983
Droplet_55MPa_metaspades_bin_31	51.75	2.848	1163561
Droplet_55MPa_metaspades_bin_30	99.72	0.618	3089618
Droplet_55MPa_metaspades_bin_3	98.18	1.381	4247479
Droplet_55MPa_metaspades_bin_29	93.12	1.905	3435648
Droplet_55MPa_metaspades_bin_28	51.88	1.724	3238728
Droplet_55MPa_metaspades_bin_27	98.49	0.101	3614573
Droplet_55MPa_metaspades_bin_26	96.26	1.045	4199898
Droplet_55MPa_metaspades_bin_25	77.34	0.567	3451255
Droplet_55MPa_metaspades_bin_24	51.72	0	2868294
Droplet_55MPa_metaspades_bin_23	93.24	0.546	4087151
Droplet_55MPa_metaspades_bin_22	86.59	3.818	3598450
Droplet_55MPa_metaspades_bin_21	87.94	0.538	2357863
Droplet_55MPa_metaspades_bin_20	55.92	0.129	2649206
Droplet_55MPa_metaspades_bin_19	98.85	0.19	3271005
Droplet_55MPa_metaspades_bin_18	60.59	0.757	2436435
Droplet_55MPa_metaspades_bin_17	91.92	1.81	2837936
Droplet_55MPa_metaspades_bin_16	98.9	0.694	3596449
Droplet_55MPa_metaspades_bin_15	88.51	0.84	2994847
Droplet_55MPa_metaspades_bin_14	64.48	0	2961195
Droplet_55MPa_metaspades_bin_13	66.33	2.618	2922110
Droplet_55MPa_metaspades_bin_12	96.48	0.898	4289192
Droplet_55MPa_metaspades_bin_11	93.54	0.746	3915115
Droplet_55MPa_metaspades_bin_10	91.26	0.603	3417478
Droplet_55MPa_metaspades_bin_1	57.75	0	3504794
Droplet_28MPa_metaspades_bin_9	96.17	1.272	4364926
Droplet_28MPa_metaspades_bin_8	66.03	3.672	3062875
Droplet_28MPa_metaspades_bin_7	98.76	0.694	3584754

Droplet_28MPa_metaspades_bin_6	61	4.051	2962749
Droplet_28MPa_metaspades_bin_5	76.85	3.036	2335423
Droplet_28MPa_metaspades_bin_4	96.64	0.746	4256343
Droplet_28MPa_metaspades_bin_35	53.95	3.394	1900914
Droplet_28MPa_metaspades_bin_34	60.42	2.672	1215240
Droplet_28MPa_metaspades_bin_33	50.27	2.579	1834432
Droplet_28MPa_metaspades_bin_32	59.7	1.912	1395707
Droplet_28MPa_metaspades_bin_31	85.62	1.804	3687638
Droplet_28MPa_metaspades_bin_30	61.91	1.567	2268282
Droplet_28MPa_metaspades_bin_3	92.23	0.746	4069396
Droplet_28MPa_metaspades_bin_29	68.1	0	4584280
Droplet_28MPa_metaspades_bin_28	73.27	3.448	2310010
Droplet_28MPa_metaspades_bin_27	81.21	2.14	2528708
Droplet_28MPa_metaspades_bin_26	98.36	0.956	4314614
Droplet_28MPa_metaspades_bin_25	58.53	2.571	2132496
Droplet_28MPa_metaspades_bin_24	59.05	0.863	2754812
Droplet_28MPa_metaspades_bin_23	78.79	2.608	3639141
Droplet_28MPa_metaspades_bin_22	95.23	0.814	2825237
Droplet_28MPa_metaspades_bin_21	97.18	1.013	4422360
Droplet_28MPa_metaspades_bin_20	99.23	0.231	3282638
Droplet_28MPa_metaspades_bin_2	80.39	3.105	2940681
Droplet_28MPa_metaspades_bin_19	91.07	5.472	4379430
Droplet_28MPa_metaspades_bin_18	64.82	1.939	2724339
Droplet_28MPa_metaspades_bin_17	99.72	0.274	2906845
Droplet_28MPa_metaspades_bin_16	53.44	5.172	2580688
Droplet_28MPa_metaspades_bin_15	98.44	0.269	3289194
Droplet_28MPa_metaspades_bin_14	54.31	0	2174700
Droplet_28MPa_metaspades_bin_13	60.35	8.656	2417004
Droplet_28MPa_metaspades_bin_12	82.03	1.986	1869282
Droplet_28MPa_metaspades_bin_11	66.22	0.974	2077154
Droplet_28MPa_metaspades_bin_10	50.34	6.896	2083525
Droplet_28MPa_metaspades_bin_1	87.38	0.862	2383144
Droplet_0.1MPa_metaspades_bin_9	58.62	0.862	2025932
Droplet_0.1MPa_metaspades_bin_8	70.41	2.5	3140951
Droplet_0.1MPa_metaspades_bin_7	82.76	1.204	2934586
Droplet_0.1MPa_metaspades_bin_6	72.39	0.622	2026536

Droplet_0.1MPa_metaspades_bin_5	85.91	0.753	3613705
Droplet_0.1MPa_metaspades_bin_4	54.66	8.117	3591390
Droplet_0.1MPa_metaspades_bin_35	69.73	3.587	3192055
Droplet_0.1MPa_metaspades_bin_34	63.08	0	2119073
Droplet_0.1MPa_metaspades_bin_33	58.1	0	1345258
Droplet_0.1MPa_metaspades_bin_32	76.21	3.074	2300368
Droplet_0.1MPa_metaspades_bin_31	57.93	2.586	3142179
Droplet_0.1MPa_metaspades_bin_30	66.84	3.448	3537914
Droplet_0.1MPa_metaspades_bin_3	97.77	0.412	2847382
Droplet_0.1MPa_metaspades_bin_29	77.78	1.05	2376207
Droplet_0.1MPa_metaspades_bin_28	82.71	1.304	3547674
Droplet_0.1MPa_metaspades_bin_27	79.49	2.604	2633747
Droplet_0.1MPa_metaspades_bin_26	55.32	1.724	3840924
Droplet_0.1MPa_metaspades_bin_25	79.46	1.06	1798328
Droplet_0.1MPa_metaspades_bin_24	95.24	0.673	2835459
Droplet_0.1MPa_metaspades_bin_23	98.53	0.484	3252459
Droplet_0.1MPa_metaspades_bin_22	65.51	1.724	2703788
Droplet_0.1MPa_metaspades_bin_21	62.63	0.341	2176487
Droplet_0.1MPa_metaspades_bin_20	72.36	0.69	2986833
Droplet_0.1MPa_metaspades_bin_2	65.51	0	3042317
Droplet_0.1MPa_metaspades_bin_19	100	0.956	4530714
Droplet_0.1MPa_metaspades_bin_18	98.13	0.168	3947538
Droplet_0.1MPa_metaspades_bin_17	83.23	0.013	2310531
Droplet_0.1MPa_metaspades_bin_16	100	0.746	5380681
Droplet_0.1MPa_metaspades_bin_15	82.44	1.301	4393700
Droplet_0.1MPa_metaspades_bin_14	73	5.417	3244740
Droplet_0.1MPa_metaspades_bin_13	96.42	0.77	4836550
Droplet_0.1MPa_metaspades_bin_12	72.12	0	3571014
Droplet_0.1MPa_metaspades_bin_11	79.78	2.494	2803437
Droplet_0.1MPa_metaspades_bin_10	97.64	0.694	3526712
Droplet_0.1MPa_metaspades_bin_1	74.93	2.667	2595085
Bulk_55MPa_metaspades_bin_9	81.41	2.785	2517706
Bulk_55MPa_metaspades_bin_8	97.42	0	2963034
Bulk_55MPa_metaspades_bin_7	89.61	0.497	3651743
Bulk_55MPa_metaspades_bin_6	63.79	0	3271636
Bulk_55MPa_metaspades_bin_5	75.65	2.793	2387737

Bulk_55MPa_metaspades_bin_4	56.89	2.586	3943872
Bulk_55MPa_metaspades_bin_3	92.38	2.663	4231083
Bulk_55MPa_metaspades_bin_2	98.49	1.013	3603310
Bulk_55MPa_metaspades_bin_15	60.44	2.756	1862716
Bulk_55MPa_metaspades_bin_14	53.02	9.276	3168079
Bulk_55MPa_metaspades_bin_13	99.74	1.212	3099023
Bulk_55MPa_metaspades_bin_12	96.23	0.936	4287943
Bulk_55MPa_metaspades_bin_11	55.51	1.724	2708606
Bulk_55MPa_metaspades_bin_10	98.79	0.269	3331584
Bulk_55MPa_metaspades_bin_1	87.66	0.538	2286484