SUPPLEMENTARY INFORMATION

**Microplastics induce dose-specific transcriptomic disruptions in energy metabolism and immunity of the pearl oyster *Pinctada margaritifera***

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**Table S1.**

Sequencing results and reads survival after trimming and mapping. No significant differences were observed between individuals (ANOVA, df = 3, F = 1.47, *P* = 0.24).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Individual** | **Condition (µg L-1)** | **Input Read Pairs** | **Both Surviving** | **Mapped** |
| 1 | 0 (control) | 2.15 × 107 | 1.99 × 107 | 1.39 × 107 |
| 2 | 0 (control) | 1.93 × 107 | 1.77 × 107 | 1.23 × 107 |
| 3 | 0 (control) | 2.04 × 107 | 1.87 × 107 | 1.28 × 107 |
| 4 | 0 (control) | 1.66 × 107 | 1.54 × 107 | 1.05 × 107 |
| 5 | 0 (control) | 2.01 × 107 | 1.85 × 107 | 1.29 × 107 |
| 6 | 0 (control) | 1.86 × 107 | 1.71 × 107 | 1.20 × 107 |
| 7 | 0 (control) | 1.99 × 107 | 1.83 × 107 | 1.31 × 107 |
| 8 | 0 (control) | 1.81 × 107 | 1.65 × 107 | 1.11 × 107 |
| 9 | 0 (control) | 2.01 × 107 | 1.85 × 107 | 1.28 × 107 |
| 10 | 0 (control) | 1.62 × 107 | 1.50 × 107 | 9.83 × 106 |
| 11 | 0.25 | 1.89 × 107 | 1.74 × 107 | 1.19 × 107 |
| 12 | 0.25 | 1.61 × 107 | 1.49 × 107 | 1.02 × 107 |
| 13 | 0.25 | 2.33 × 107 | 2.14 × 107 | 1.48 × 107 |
| 14 | 0.25 | 1.97 × 107 | 1.82 × 107 | 1.22 × 107 |
| 15 | 0.25 | 1.65 × 107 | 1.52 × 107 | 1.03 × 107 |
| 16 | 0.25 | 1.94 × 107 | 1.80 × 107 | 1.26 × 107 |
| 17 | 0.25 | 2.19 × 107 | 2.03 × 107 | 1.36 × 107 |
| 18 | 0.25 | 2.24 × 107 | 2.08 × 107 | 1.43 × 107 |
| 19 | 0.25 | 1.83 × 107 | 1.69 × 107 | 1.13 × 107 |
| 20 | 0.25 | 1.94 × 107 | 1.80 × 107 | 1.24 × 107 |
| 21 | 2.5 | 1.76 × 107 | 1.62 × 107 | 1.08 × 107 |
| 22 | 2.5 | 1.88 × 107 | 1.73 × 107 | 1.19 × 107 |
| 23 | 2.5 | 2.17 × 107 | 2.01 × 107 | 1.34 × 107 |
| 24 | 2.5 | 2.06 × 107 | 1.90 × 107 | 1.31 × 107 |
| 25 | 2.5 | 1.91 × 107 | 1.76 × 107 | 1.20 × 107 |
| 26 | 2.5 | 1.96 × 107 | 1.80 × 107 | 1.22 × 107 |
| 27 | 2.5 | 1.83 × 107 | 1.69 × 107 | 1.08 × 107 |
| 28 | 2.5 | 1.73 × 107 | 1.59 × 107 | 1.10 × 107 |
| 29 | 2.5 | 1.86 × 107 | 1.71 × 107 | 1.18 × 107 |
| 30 | 2.5 | 1.83 × 107 | 1.69 × 107 | 1.09 × 107 |
| 31 | 25 | 1.94 × 107 | 1.80 × 107 | 1.24 × 107 |
| 32 | 25 | 2.13 × 107 | 1.97 × 107 | 1.33 × 107 |
| 33 | 25 | 1.79 × 107 | 1.66 × 107 | 1.09 × 107 |
| 34 | 25 | 1.33 × 107 | 1.22 × 107 | 8.31 × 106 |
| 35 | 25 | 2.10 × 107 | 1.94 × 107 | 1.34 × 107 |
| 36 | 25 | 2.04 × 107 | 1.88 × 107 | 1.28 × 107 |
| 38 | 25 | 1.94 × 107 | 1.78 × 107 | 1.24 × 107 |
| 39 | 25 | 2.19 × 107 | 2.02 × 107 | 1.42 × 107 |
| 40 | 25 | 1.78 × 107 | 1.64 × 107 | 1.10 × 107 |

**Figure S1.** Correlation matrix between micro-PS concentrations (0.25, 2.5 and 25 µg L-1) and control conditions. (A) Intra- and inter-group variation observations. (B) Violin plot of intra-group variation.



**B**

**A**

**Table S2.**

Differentially expressed genes over all micro-PS treatments (0.25, 2.5 and 25 µg L-1) compared with non-exposed (control) conditions. Values represent Log2 fold change (log2FC) for genes significantly expressed (FDR < 0.01). N/A means that gene name of the protein does not exist on Uniprot.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **DEG** | **Protein** | **Log2FC****0.25/Control** | **Log2FC****2.5/Control** | **Log2FC****25/Control** |
| *Myd88* | Myeloid differentiation primary response protein  | 2.31 | -3.13 | -2.49 |
| *Abcb1* | Multidrug resistance protein 1 | -2.20 | -2.24 | -2.69 |
| *Slc22a21* | Solute carrier family 22 member 21 | -3.17 | 2.71 | 2.42 |
| *Cel* | Bile salt-activated lipase | -5.12 | -4.12 | -4.55 |
| *Orct* | Organic cation transporter protein | -3.66 | 2.52 | 2.59 |
| *Sult1c4* | Sulfotransferase 1C4 | -2.09 | -3.59 | -3.40 |
| *Cyp2d11* | Cytochrome P450 2D11 | -3.25 | -2.12 | -2.77 |
| *Gst1* | Glutathione S-transferase 1 | -2.18 | -2.32 | -2.20 |
| N/A | Actin, cytoplasmic | -5.64 | -5.04 | -6.04 |

**Table S3.**

List of DEGs for pairwise comparisons with associated Log2FoldChange. Positive Log2FC indicate down-regulation compared to control. N/A means that gene name of the protein and corresponding species do not exist on Uniprot.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Condition** | **Trinity ID** | **Log2FC** | **Pvalue** | **FDR** | **Uniprot ID** | **Uniprot sp.** |
| 0.25/Control | TRINITY\_DN79715\_c0\_g1\_i1 | -5.64 | 3.25E-14 | 2.31E-12 | ACTC | BRAFL |
| 0.25/Control | TRINITY\_DN64957\_c2\_g1\_i2 | -5.13 | 1.83E-08 | 4.69E-07 | CEL | BOVIN |
| 0.25/Control | TRINITY\_DN68364\_c0\_g5\_i1 | -4.49 | 4.46E-08 | 1.04E-06 | N/A | N/A |
| 0.25/Control | TRINITY\_DN63876\_c4\_g2\_i1 | -4.03 | 1.74E-12 | 9.68E-11 | N/A | N/A |
| 0.25/Control | TRINITY\_DN58769\_c0\_g1\_i3 | -4.00 | 1.58E-04 | 1.44E-03 | LAC6 | ARATH |
| 0.25/Control | TRINITY\_DN78649\_c4\_g2\_i6 | -3.93 | 5.11E-16 | 4.62E-14 | WWOX | MOUSE |
| 0.25/Control | TRINITY\_DN83526\_c2\_g3\_i2 | -3.81 | 4.73E-11 | 2.00E-09 | EAA1 | BOVIN |
| 0.25/Control | TRINITY\_DN58584\_c0\_g1\_i2 | -3.70 | 1.76E-10 | 6.72E-09 | EAA4 | MOUSE |
| 0.25/Control | TRINITY\_DN59906\_c0\_g1\_i3 | -3.68 | 2.36E-05 | 2.83E-04 | CAH14 | HUMAN |
| 0.25/Control | TRINITY\_DN61026\_c4\_g7\_i5 | -3.66 | 7.53E-09 | 2.08E-07 | ORCT | DROME |
| 0.25/Control | TRINITY\_DN76194\_c0\_g3\_i3 | -3.45 | 3.01E-04 | 2.48E-03 | N/A | N/A |
| 0.25/Control | TRINITY\_DN80924\_c0\_g2\_i1 | -3.25 | 1.71E-04 | 1.54E-03 | CP2DB | MOUSE |
| 0.25/Control | TRINITY\_DN63980\_c0\_g2\_i2 | -3.17 | 1.98E-07 | 4.03E-06 | S22AL | MOUSE |
| 0.25/Control | TRINITY\_DN64665\_c1\_g2\_i1 | -3.17 | 3.13E-08 | 7.57E-07 | N/A | N/A |
| 0.25/Control | TRINITY\_DN60042\_c0\_g1\_i1 | -3.14 | 3.94E-09 | 1.16E-07 | CALM | HALOK |
| 0.25/Control | TRINITY\_DN70307\_c4\_g1\_i7 | -3.11 | 6.46E-13 | 3.89E-11 | TPMT | DANRE |
| 0.25/Control | TRINITY\_DN78076\_c3\_g1\_i1 | -3.10 | 1.50E-08 | 3.90E-07 | AK1BA | HUMAN |
| 0.25/Control | TRINITY\_DN66849\_c1\_g4\_i1 | -3.08 | 8.56E-07 | 1.51E-05 | RDH12 | HUMAN |
| 0.25/Control | TRINITY\_DN77379\_c0\_g1\_i2 | -3.01 | 3.18E-06 | 4.90E-05 | N/A | N/A |
| 0.25/Control | TRINITY\_DN75538\_c0\_g1\_i6 | -2.89 | 1.91E-09 | 5.98E-08 | CAHZ | DANRE |
| 0.25/Control | TRINITY\_DN75844\_c0\_g1\_i2 | -2.81 | 1.44E-04 | 1.32E-03 | TYRO | PINMA |
| 0.25/Control | TRINITY\_DN62220\_c2\_g2\_i4 | -2.74 | 7.93E-07 | 1.42E-05 | N/A | N/A |
| 0.25/Control | TRINITY\_DN83398\_c3\_g1\_i1 | -2.69 | 4.18E-09 | 1.22E-07 | GSTO1 | HUMAN |
| 0.25/Control | TRINITY\_DN73050\_c0\_g1\_i1 | -2.66 | 8.31E-05 | 8.34E-04 | PWAP | HALAI |
| 0.25/Control | TRINITY\_DN80924\_c1\_g3\_i1 | -2.61 | 2.29E-05 | 2.76E-04 | CP2CN | RAT |
| 0.25/Control | TRINITY\_DN65229\_c5\_g1\_i2 | -2.60 | 1.15E-03 | 7.46E-03 | N/A | N/A |
| 0.25/Control | TRINITY\_DN80046\_c0\_g1\_i2 | -2.58 | 2.33E-10 | 8.72E-09 | GSTO1 | HUMAN |
| 0.25/Control | TRINITY\_DN82701\_c0\_g2\_i5 | -2.57 | 1.48E-08 | 3.88E-07 | KLD8A | HUMAN |
| 0.25/Control | TRINITY\_DN73411\_c1\_g1\_i2 | -2.57 | 3.39E-14 | 2.39E-12 | DOPDB | XENLA |
| 0.25/Control | TRINITY\_DN62969\_c6\_g3\_i1 | -2.54 | 3.22E-04 | 2.63E-03 | N/A | N/A |
| 0.25/Control | TRINITY\_DN83475\_c5\_g2\_i2 | -2.53 | 3.08E-05 | 3.56E-04 | T2EB | HUMAN |
| 0.25/Control | TRINITY\_DN64372\_c2\_g3\_i1 | -2.53 | 1.78E-06 | 2.91E-05 | CAH2 | HUMAN |
| 0.25/Control | TRINITY\_DN75123\_c0\_g1\_i3 | -2.51 | 8.58E-05 | 8.54E-04 | Y381 | RICFE |
| 0.25/Control | TRINITY\_DN66476\_c1\_g2\_i4 | -2.49 | 3.26E-07 | 6.36E-06 | N/A | N/A |
| 0.25/Control | TRINITY\_DN70992\_c0\_g1\_i3 | -2.49 | 4.85E-04 | 3.69E-03 | DHGL | DROPS |
| 0.25/Control | TRINITY\_DN85354\_c2\_g2\_i2 | -2.49 | 3.60E-04 | 2.87E-03 | ARSJ | HUMAN |
| 0.25/Control | TRINITY\_DN66849\_c1\_g1\_i3 | -2.49 | 2.90E-11 | 1.27E-09 | RDH12 | HUMAN |
| 0.25/Control | TRINITY\_DN50370\_c0\_g1\_i4 | -2.48 | 4.43E-04 | 3.42E-03 | N/A | N/A |
| 0.25/Control | TRINITY\_DN73060\_c3\_g1\_i2 | -2.47 | 6.87E-05 | 7.13E-04 | N/A | N/A |
| 0.25/Control | TRINITY\_DN57200\_c0\_g1\_i2 | -2.44 | 5.58E-06 | 8.11E-05 | N/A | N/A |
| 0.25/Control | TRINITY\_DN75297\_c0\_g4\_i3 | -2.44 | 9.53E-07 | 1.66E-05 | DHRSX | HUMAN |
| 0.25/Control | TRINITY\_DN74567\_c0\_g1\_i2 | -2.44 | 4.42E-16 | 4.02E-14 | XKR6 | TETNG |
| 0.25/Control | TRINITY\_DN63069\_c2\_g7\_i1 | -2.43 | 3.50E-09 | 1.04E-07 | N/A | N/A |
| 0.25/Control | TRINITY\_DN78619\_c0\_g2\_i1 | -2.43 | 7.43E-07 | 1.34E-05 | KI18A | HUMAN |
| 0.25/Control | TRINITY\_DN60189\_c0\_g1\_i3 | -2.43 | 7.24E-10 | 2.43E-08 | N/A | N/A |
| 0.25/Control | TRINITY\_DN84345\_c6\_g1\_i3 | -2.42 | 9.56E-05 | 9.36E-04 | TLR22 | CHICK |
| 0.25/Control | TRINITY\_DN86344\_c3\_g1\_i7 | -2.40 | 1.13E-12 | 6.62E-11 | N/A | N/A |
| 0.25/Control | TRINITY\_DN79742\_c1\_g1\_i1 | -2.40 | 1.01E-15 | 8.67E-14 | CP2BJ | MOUSE |
| 0.25/Control | TRINITY\_DN61385\_c3\_g2\_i5 | -2.39 | 2.68E-11 | 1.18E-09 | N/A | N/A |
| 0.25/Control | TRINITY\_DN71932\_c0\_g3\_i1 | -2.38 | 6.23E-06 | 8.89E-05 | N/A | N/A |
| 0.25/Control | TRINITY\_DN82810\_c0\_g1\_i2 | -2.38 | 2.69E-22 | 5.03E-20 | N/A | N/A |
| 0.25/Control | TRINITY\_DN69247\_c4\_g4\_i4 | -2.37 | 8.75E-12 | 4.22E-10 | CAH14 | HUMAN |
| 0.25/Control | TRINITY\_DN85423\_c2\_g1\_i6 | -2.36 | 2.30E-04 | 1.97E-03 | OXLA | BUNMU |
| 0.25/Control | TRINITY\_DN76372\_c1\_g1\_i4 | -2.36 | 1.03E-04 | 1.00E-03 | N/A | N/A |
| 0.25/Control | TRINITY\_DN62937\_c6\_g1\_i2 | -2.34 | 4.34E-12 | 2.23E-10 | CBR1 | RAT |
| 0.25/Control | TRINITY\_DN72185\_c1\_g1\_i4 | -2.32 | 8.52E-11 | 3.40E-09 | YAJO | ECOLI |
| 0.25/Control | TRINITY\_DN79062\_c0\_g2\_i1 | -2.31 | 2.91E-04 | 2.41E-03 | CHRR | SHIFL |
| 0.25/Control | TRINITY\_DN65228\_c1\_g3\_i1 | -2.30 | 8.60E-04 | 5.87E-03 | ST1A1 | HUMAN |
| 0.25/Control | TRINITY\_DN72091\_c0\_g1\_i1 | -2.30 | 5.10E-05 | 5.50E-04 | SSUH2 | HUMAN |
| 0.25/Control | TRINITY\_DN61826\_c1\_g2\_i2 | -2.28 | 2.54E-04 | 2.15E-03 | DHGL | DROME |
| 0.25/Control | TRINITY\_DN80924\_c0\_g1\_i1 | -2.27 | 6.04E-05 | 6.37E-04 | CP2J6 | MOUSE |
| 0.25/Control | TRINITY\_DN81318\_c0\_g2\_i2 | -2.27 | 2.81E-12 | 1.49E-10 | N/A | N/A |
| 0.25/Control | TRINITY\_DN61786\_c0\_g2\_i2 | -2.27 | 9.54E-04 | 6.41E-03 | KARG | HALMK |
| 0.25/Control | TRINITY\_DN64118\_c0\_g1\_i1 | -2.26 | 6.53E-08 | 1.46E-06 | N/A | N/A |
| 0.25/Control | TRINITY\_DN81879\_c7\_g1\_i3 | -2.26 | 3.04E-13 | 1.92E-11 | CP1A1 | ORYLA |
| 0.25/Control | TRINITY\_DN88452\_c5\_g1\_i14 | -2.25 | 2.86E-06 | 4.47E-05 | N/A | N/A |
| 0.25/Control | TRINITY\_DN66562\_c0\_g2\_i6 | -2.24 | 5.12E-04 | 3.84E-03 | N/A | N/A |
| 0.25/Control | TRINITY\_DN61826\_c1\_g1\_i2 | -2.24 | 5.94E-04 | 4.33E-03 | DHGL | DROME |
| 0.25/Control | TRINITY\_DN78912\_c1\_g2\_i2 | -2.24 | 2.89E-04 | 2.40E-03 | GSTO1 | HUMAN |
| 0.25/Control | TRINITY\_DN76322\_c1\_g2\_i6 | -2.24 | 2.88E-14 | 2.06E-12 | N/A | N/A |
| 0.25/Control | TRINITY\_DN81879\_c7\_g3\_i2 | -2.23 | 5.77E-04 | 4.24E-03 | CP17A | ICTPU |
| 0.25/Control | TRINITY\_DN58052\_c0\_g1\_i4 | -2.23 | 8.40E-21 | 1.38E-18 | N/A | N/A |
| 0.25/Control | TRINITY\_DN85086\_c2\_g1\_i2 | -2.23 | 8.11E-05 | 8.18E-04 | N/A | N/A |
| 0.25/Control | TRINITY\_DN66026\_c3\_g2\_i2 | -2.20 | 6.14E-08 | 1.39E-06 | MDR1 | HUMAN |
| 0.25/Control | TRINITY\_DN72087\_c1\_g2\_i1 | -2.19 | 1.39E-03 | 8.74E-03 | N/A | N/A |
| 0.25/Control | TRINITY\_DN77465\_c1\_g1\_i1 | -2.19 | 5.26E-06 | 7.68E-05 | MGST1 | HUMAN |
| 0.25/Control | TRINITY\_DN56148\_c0\_g1\_i1 | -2.18 | 1.17E-05 | 1.54E-04 | GST1 | ONCVO |
| 0.25/Control | TRINITY\_DN42302\_c0\_g1\_i1 | -2.17 | 3.51E-04 | 2.82E-03 | N/A | N/A |
| 0.25/Control | TRINITY\_DN83587\_c0\_g1\_i8 | -2.17 | 7.04E-05 | 7.28E-04 | RTBS | DROME |
| 0.25/Control | TRINITY\_DN75972\_c0\_g1\_i3 | -2.17 | 9.94E-10 | 3.25E-08 | N/A | N/A |
| 0.25/Control | TRINITY\_DN75194\_c0\_g1\_i2 | -2.16 | 1.35E-05 | 1.74E-04 | N/A | N/A |
| 0.25/Control | TRINITY\_DN66975\_c0\_g1\_i1 | -2.15 | 1.53E-03 | 9.43E-03 | N/A | N/A |
| 0.25/Control | TRINITY\_DN82577\_c1\_g2\_i9 | -2.14 | 1.44E-05 | 1.85E-04 | GPR | ECOLI |
| 0.25/Control | TRINITY\_DN59879\_c5\_g2\_i4 | -2.14 | 2.31E-05 | 2.78E-04 | N/A | N/A |
| 0.25/Control | TRINITY\_DN75285\_c0\_g1\_i3 | -2.14 | 3.84E-07 | 7.36E-06 | N/A | N/A |
| 0.25/Control | TRINITY\_DN76453\_c1\_g1\_i6 | -2.13 | 9.45E-05 | 9.27E-04 | N/A | N/A |
| 0.25/Control | TRINITY\_DN67128\_c4\_g3\_i1 | -2.13 | 1.75E-04 | 1.57E-03 | N/A | N/A |
| 0.25/Control | TRINITY\_DN87429\_c0\_g1\_i1 | -2.13 | 8.56E-06 | 1.18E-04 | N/A | N/A |
| 0.25/Control | TRINITY\_DN74028\_c4\_g4\_i1 | -2.12 | 9.50E-04 | 6.38E-03 | CELR3 | MOUSE |
| 0.25/Control | TRINITY\_DN83833\_c4\_g3\_i1 | -2.11 | 1.80E-50 | 3.13E-47 | N/A | N/A |
| 0.25/Control | TRINITY\_DN60801\_c0\_g1\_i2 | -2.09 | 6.71E-15 | 5.26E-13 | ST1C4 | HUMAN |
| 0.25/Control | TRINITY\_DN74956\_c5\_g3\_i7 | -2.09 | 3.80E-05 | 4.26E-04 | GGLO | PIG |
| 0.25/Control | TRINITY\_DN81318\_c0\_g1\_i4 | -2.08 | 1.71E-10 | 6.53E-09 | N/A | N/A |
| 0.25/Control | TRINITY\_DN74877\_c0\_g1\_i6 | -2.08 | 7.30E-06 | 1.02E-04 | N/A | N/A |
| 0.25/Control | TRINITY\_DN76029\_c1\_g2\_i1 | -2.07 | 1.77E-05 | 2.21E-04 | TRS1 | STRTI |
| 0.25/Control | TRINITY\_DN82478\_c0\_g1\_i9 | -2.06 | 2.73E-06 | 4.29E-05 | SIBA | DICDI |
| 0.25/Control | TRINITY\_DN85833\_c2\_g2\_i3 | -2.06 | 1.18E-03 | 7.66E-03 | ST1C2 | MOUSE |
| 0.25/Control | TRINITY\_DN61159\_c0\_g2\_i1 | -2.05 | 2.96E-04 | 2.45E-03 | N/A | N/A |
| 0.25/Control | TRINITY\_DN85796\_c1\_g1\_i4 | -2.05 | 7.59E-08 | 1.69E-06 | YQK4 | CAEEL |
| 0.25/Control | TRINITY\_DN66151\_c6\_g1\_i9 | -2.05 | 1.37E-11 | 6.30E-10 | CP17A | SQUAC |
| 0.25/Control | TRINITY\_DN66798\_c0\_g1\_i1 | -2.04 | 3.87E-15 | 3.18E-13 | TLR13 | MOUSE |
| 0.25/Control | TRINITY\_DN78281\_c1\_g1\_i4 | -2.04 | 6.09E-08 | 1.38E-06 | N/A | N/A |
| 0.25/Control | TRINITY\_DN62898\_c0\_g1\_i1 | -2.03 | 1.28E-03 | 8.16E-03 | N/A | N/A |
| 0.25/Control | TRINITY\_DN87719\_c6\_g2\_i4 | -2.03 | 1.10E-05 | 1.46E-04 | VIT2 | FUNHE |
| 0.25/Control | TRINITY\_DN83450\_c1\_g1\_i5 | -2.02 | 1.31E-21 | 2.32E-19 | N/A | N/A |
| 0.25/Control | TRINITY\_DN58440\_c0\_g1\_i2 | -2.01 | 1.44E-04 | 1.33E-03 | N/A | N/A |
| 0.25/Control | TRINITY\_DN74170\_c2\_g1\_i10 | -2.01 | 6.52E-11 | 2.66E-09 | N/A | N/A |
| 0.25/Control | TRINITY\_DN74474\_c1\_g1\_i2 | -2.01 | 1.40E-03 | 8.79E-03 | N/A | N/A |
| 0.25/Control | TRINITY\_DN77039\_c5\_g1\_i6 | -2.01 | 7.37E-04 | 5.19E-03 | N/A | N/A |
| 0.25/Control | TRINITY\_DN71052\_c0\_g1\_i2 | -2.01 | 1.15E-15 | 9.75E-14 | N/A | N/A |
| 0.25/Control | TRINITY\_DN80620\_c5\_g1\_i8 | -2.00 | 3.29E-04 | 2.67E-03 | N/A | N/A |
| 0.25/Control | TRINITY\_DN84852\_c1\_g1\_i6 | -2.00 | 1.39E-04 | 1.29E-03 | N/A | N/A |
| 0.25/Control | TRINITY\_DN85984\_c2\_g1\_i1 | 2.00 | 5.07E-24 | 1.13E-21 | N/A | N/A |
| 0.25/Control | TRINITY\_DN55838\_c0\_g1\_i2 | 2.00 | 6.60E-20 | 1.00E-17 | FGFR1 | RAT |
| 0.25/Control | TRINITY\_DN59023\_c0\_g1\_i1 | 2.00 | 7.18E-12 | 3.49E-10 | N/A | N/A |
| 0.25/Control | TRINITY\_DN87098\_c3\_g1\_i3 | 2.01 | 1.23E-17 | 1.43E-15 | CTL5 | XENTR |
| 0.25/Control | TRINITY\_DN57599\_c0\_g1\_i1 | 2.01 | 6.02E-11 | 2.48E-09 | N/A | N/A |
| 0.25/Control | TRINITY\_DN64546\_c0\_g1\_i4 | 2.01 | 4.78E-39 | 3.09E-36 | UCP3 | BOVIN |
| 0.25/Control | TRINITY\_DN72529\_c0\_g1\_i2 | 2.01 | 8.43E-16 | 7.29E-14 | CPTP | XENLA |
| 0.25/Control | TRINITY\_DN69559\_c0\_g1\_i5 | 2.02 | 9.99E-19 | 1.32E-16 | C27C1 | DANRE |
| 0.25/Control | TRINITY\_DN69780\_c5\_g1\_i2 | 2.02 | 9.45E-15 | 7.26E-13 | CP2BB | CANLF |
| 0.25/Control | TRINITY\_DN70684\_c5\_g13\_i1 | 2.04 | 1.41E-08 | 3.71E-07 | MOS1T | DROMA |
| 0.25/Control | TRINITY\_DN87405\_c3\_g2\_i1 | 2.04 | 2.93E-10 | 1.07E-08 | N/A | N/A |
| 0.25/Control | TRINITY\_DN74058\_c0\_g1\_i1 | 2.04 | 1.33E-28 | 4.50E-26 | GBS76 | DROME |
| 0.25/Control | TRINITY\_DN82370\_c0\_g1\_i1 | 2.06 | 3.61E-09 | 1.07E-07 | DISP1 | DANRE |
| 0.25/Control | TRINITY\_DN70846\_c0\_g2\_i5 | 2.07 | 3.25E-07 | 6.36E-06 | N/A | N/A |
| 0.25/Control | TRINITY\_DN78977\_c2\_g2\_i2 | 2.08 | 2.17E-43 | 1.88E-40 | P4H3 | ARATH |
| 0.25/Control | TRINITY\_DN66689\_c0\_g2\_i1 | 2.08 | 4.08E-10 | 1.44E-08 | CCKAR | RAT |
| 0.25/Control | TRINITY\_DN82433\_c0\_g2\_i8 | 2.08 | 1.38E-12 | 7.89E-11 | TSN33 | BOVIN |
| 0.25/Control | TRINITY\_DN72691\_c0\_g2\_i2 | 2.09 | 1.22E-04 | 1.15E-03 | N/A | N/A |
| 0.25/Control | TRINITY\_DN62223\_c3\_g3\_i1 | 2.09 | 3.70E-34 | 1.78E-31 | FBX4 | BOVIN |
| 0.25/Control | TRINITY\_DN62958\_c1\_g1\_i2 | 2.11 | 1.86E-10 | 7.03E-09 | N/A | N/A |
| 0.25/Control | TRINITY\_DN60373\_c4\_g2\_i1 | 2.12 | 4.63E-48 | 5.81E-45 | DOT1L | HUMAN |
| 0.25/Control | TRINITY\_DN78863\_c1\_g1\_i7 | 2.13 | 9.96E-34 | 4.59E-31 | PDE11 | DROME |
| 0.25/Control | TRINITY\_DN86000\_c2\_g2\_i1 | 2.14 | 2.54E-20 | 3.96E-18 | N/A | N/A |
| 0.25/Control | TRINITY\_DN71462\_c0\_g1\_i1 | 2.14 | 2.02E-36 | 1.17E-33 | N/A | N/A |
| 0.25/Control | TRINITY\_DN74802\_c9\_g1\_i2 | 2.15 | 3.02E-08 | 7.34E-07 | C1QT4 | MOUSE |
| 0.25/Control | TRINITY\_DN84384\_c0\_g1\_i2 | 2.15 | 3.69E-32 | 1.51E-29 | UN13B | DROME |
| 0.25/Control | TRINITY\_DN82564\_c1\_g2\_i8 | 2.17 | 3.33E-17 | 3.62E-15 | BIRC2 | MOUSE |
| 0.25/Control | TRINITY\_DN62165\_c0\_g1\_i2 | 2.17 | 4.60E-13 | 2.85E-11 | YR811 | MIMIV |
| 0.25/Control | TRINITY\_DN83810\_c0\_g1\_i2 | 2.18 | 2.15E-15 | 1.79E-13 | CES1D | MOUSE |
| 0.25/Control | TRINITY\_DN88383\_c5\_g1\_i2 | 2.18 | 5.67E-15 | 4.58E-13 | FXRD2 | HUMAN |
| 0.25/Control | TRINITY\_DN79788\_c0\_g1\_i8 | 2.18 | 3.24E-22 | 6.01E-20 | N/A | N/A |
| 0.25/Control | TRINITY\_DN63907\_c0\_g1\_i2 | 2.19 | 5.24E-07 | 9.73E-06 | TREA | APIME |
| 0.25/Control | TRINITY\_DN71504\_c0\_g1\_i1 | 2.19 | 1.41E-09 | 4.50E-08 | MOT14 | MOUSE |
| 0.25/Control | TRINITY\_DN59319\_c0\_g1\_i1 | 2.20 | 7.06E-07 | 1.28E-05 | RFX6 | AILME |
| 0.25/Control | TRINITY\_DN72508\_c5\_g1\_i2 | 2.20 | 6.02E-06 | 8.65E-05 | HYKK | HUMAN |
| 0.25/Control | TRINITY\_DN68272\_c3\_g2\_i2 | 2.20 | 4.79E-76 | 3.61E-72 | N/A | N/A |
| 0.25/Control | TRINITY\_DN72731\_c0\_g2\_i1 | 2.20 | 6.10E-15 | 4.85E-13 | N/A | N/A |
| 0.25/Control | TRINITY\_DN70555\_c3\_g2\_i3 | 2.21 | 3.76E-17 | 4.04E-15 | BDH | BOVIN |
| 0.25/Control | TRINITY\_DN85991\_c1\_g1\_i1 | 2.22 | 8.54E-52 | 1.75E-48 | GTR1 | SHEEP |
| 0.25/Control | TRINITY\_DN72949\_c2\_g2\_i1 | 2.22 | 1.85E-07 | 3.78E-06 | N/A | N/A |
| 0.25/Control | TRINITY\_DN79283\_c1\_g1\_i2 | 2.23 | 4.02E-10 | 1.43E-08 | N/A | N/A |
| 0.25/Control | TRINITY\_DN81133\_c0\_g1\_i8 | 2.24 | 1.44E-16 | 1.41E-14 | N/A | N/A |
| 0.25/Control | TRINITY\_DN85984\_c2\_g4\_i1 | 2.24 | 1.62E-21 | 2.82E-19 | N/A | N/A |
| 0.25/Control | TRINITY\_DN79339\_c1\_g1\_i2 | 2.24 | 6.98E-12 | 3.42E-10 | VKT3 | HETCR |
| 0.25/Control | TRINITY\_DN87405\_c3\_g1\_i1 | 2.25 | 2.93E-13 | 1.85E-11 | N/A | N/A |
| 0.25/Control | TRINITY\_DN72375\_c0\_g1\_i2 | 2.26 | 3.43E-05 | 3.89E-04 | N/A | N/A |
| 0.25/Control | TRINITY\_DN71616\_c0\_g1\_i1 | 2.27 | 1.26E-20 | 2.04E-18 | SYT4 | HUMAN |
| 0.25/Control | TRINITY\_DN82564\_c1\_g1\_i1 | 2.28 | 2.91E-20 | 4.51E-18 | BIR7A | XENLA |
| 0.25/Control | TRINITY\_DN81775\_c0\_g1\_i7 | 2.28 | 9.36E-04 | 6.31E-03 | N/A | N/A |
| 0.25/Control | TRINITY\_DN59758\_c2\_g1\_i3 | 2.29 | 1.44E-06 | 2.41E-05 | B3GT1 | PONPY |
| 0.25/Control | TRINITY\_DN66154\_c0\_g1\_i1 | 2.29 | 2.50E-22 | 4.75E-20 | N/A | N/A |
| 0.25/Control | TRINITY\_DN58184\_c0\_g1\_i1 | 2.29 | 5.42E-05 | 5.80E-04 | N/A | N/A |
| 0.25/Control | TRINITY\_DN54086\_c0\_g1\_i1 | 2.30 | 6.29E-24 | 1.38E-21 | CP3AB | MOUSE |
| 0.25/Control | TRINITY\_DN62328\_c2\_g1\_i15 | 2.30 | 1.60E-05 | 2.02E-04 | SUREJ | STRPU |
| 0.25/Control | TRINITY\_DN83828\_c0\_g2\_i5 | 2.31 | 4.13E-41 | 2.92E-38 | MYD88 | RAT |
| 0.25/Control | TRINITY\_DN82187\_c0\_g1\_i4 | 2.32 | 3.39E-04 | 2.74E-03 | SC6A9 | XENLA |
| 0.25/Control | TRINITY\_DN56043\_c0\_g1\_i1 | 2.32 | 6.92E-11 | 2.80E-09 | ARF12 | CAEBR |
| 0.25/Control | TRINITY\_DN57337\_c0\_g2\_i1 | 2.32 | 1.15E-04 | 1.10E-03 | CAS4 | EPHMU |
| 0.25/Control | TRINITY\_DN78310\_c0\_g1\_i3 | 2.34 | 2.58E-08 | 6.37E-07 | N/A | N/A |
| 0.25/Control | TRINITY\_DN65030\_c0\_g1\_i1 | 2.35 | 9.80E-05 | 9.57E-04 | N/A | N/A |
| 0.25/Control | TRINITY\_DN80002\_c0\_g1\_i1 | 2.35 | 1.91E-04 | 1.70E-03 | S39A6 | HUMAN |
| 0.25/Control | TRINITY\_DN65154\_c0\_g1\_i14 | 2.37 | 1.01E-09 | 3.31E-08 | MOT12 | MOUSE |
| 0.25/Control | TRINITY\_DN68529\_c0\_g1\_i4 | 2.37 | 3.05E-42 | 2.46E-39 | HIL | DROME |
| 0.25/Control | TRINITY\_DN57150\_c0\_g1\_i1 | 2.40 | 6.36E-07 | 1.16E-05 | N/A | N/A |
| 0.25/Control | TRINITY\_DN75616\_c4\_g1\_i1 | 2.45 | 1.07E-48 | 1.52E-45 | KLH26 | DANRE |
| 0.25/Control | TRINITY\_DN61290\_c7\_g1\_i3 | 2.46 | 8.42E-12 | 4.08E-10 | N/A | N/A |
| 0.25/Control | TRINITY\_DN80262\_c0\_g1\_i1 | 2.48 | 3.41E-21 | 5.66E-19 | COCA1 | HUMAN |
| 0.25/Control | TRINITY\_DN85418\_c3\_g1\_i3 | 2.48 | 4.50E-50 | 7.26E-47 | STEA4 | HUMAN |
| 0.25/Control | TRINITY\_DN63562\_c9\_g1\_i4 | 2.48 | 4.13E-24 | 9.33E-22 | PA216 | RAT |
| 0.25/Control | TRINITY\_DN68724\_c1\_g1\_i2 | 2.48 | 1.65E-68 | 9.33E-65 | ANK3 | HUMAN |
| 0.25/Control | TRINITY\_DN82739\_c4\_g3\_i2 | 2.50 | 4.13E-14 | 2.88E-12 | MOT5 | MOUSE |
| 0.25/Control | TRINITY\_DN82307\_c0\_g3\_i2 | 2.52 | 1.53E-21 | 2.69E-19 | N/A | N/A |
| 0.25/Control | TRINITY\_DN74441\_c1\_g2\_i10 | 2.53 | 5.06E-05 | 5.47E-04 | N/A | N/A |
| 0.25/Control | TRINITY\_DN81123\_c0\_g2\_i2 | 2.53 | 5.36E-53 | 1.35E-49 | N/A | N/A |
| 0.25/Control | TRINITY\_DN70965\_c0\_g1\_i8 | 2.53 | 2.17E-04 | 1.88E-03 | N/A | N/A |
| 0.25/Control | TRINITY\_DN68577\_c5\_g1\_i6 | 2.53 | 1.56E-17 | 1.76E-15 | ARF | CRYNJ |
| 0.25/Control | TRINITY\_DN62362\_c0\_g2\_i2 | 2.54 | 3.04E-18 | 3.75E-16 | MEGF6 | HUMAN |
| 0.25/Control | TRINITY\_DN61536\_c0\_g1\_i1 | 2.55 | 2.27E-24 | 5.33E-22 | N/A | N/A |
| 0.25/Control | TRINITY\_DN68466\_c3\_g1\_i1 | 2.56 | 3.29E-10 | 1.19E-08 | OX2R | RAT |
| 0.25/Control | TRINITY\_DN71462\_c0\_g3\_i1 | 2.57 | 4.88E-38 | 2.98E-35 | N/A | N/A |
| 0.25/Control | TRINITY\_DN73985\_c1\_g2\_i2 | 2.59 | 7.80E-09 | 2.15E-07 | N/A | N/A |
| 0.25/Control | TRINITY\_DN59740\_c4\_g1\_i7 | 2.59 | 4.89E-15 | 3.96E-13 | N/A | N/A |
| 0.25/Control | TRINITY\_DN64543\_c8\_g1\_i3 | 2.63 | 1.61E-05 | 2.03E-04 | HERC4 | MOUSE |
| 0.25/Control | TRINITY\_DN82307\_c0\_g2\_i2 | 2.64 | 6.96E-19 | 9.36E-17 | SPR | DROME |
| 0.25/Control | TRINITY\_DN72949\_c2\_g1\_i2 | 2.65 | 1.24E-07 | 2.64E-06 | RTJK | DROME |
| 0.25/Control | TRINITY\_DN54260\_c0\_g1\_i1 | 2.68 | 8.95E-06 | 1.22E-04 | NPT2B | RAT |
| 0.25/Control | TRINITY\_DN83889\_c2\_g4\_i8 | 2.69 | 8.93E-46 | 9.17E-43 | ETHE1 | MOUSE |
| 0.25/Control | TRINITY\_DN40910\_c0\_g1\_i1 | 2.69 | 1.62E-12 | 9.17E-11 | N/A | N/A |
| 0.25/Control | TRINITY\_DN57984\_c0\_g1\_i3 | 2.69 | 7.11E-04 | 5.04E-03 | N/A | N/A |
| 0.25/Control | TRINITY\_DN68377\_c0\_g1\_i2 | 2.71 | 1.58E-10 | 6.06E-09 | S39AE | DANRE |
| 0.25/Control | TRINITY\_DN59117\_c0\_g1\_i2 | 2.72 | 9.09E-04 | 6.15E-03 | MYCT | MOUSE |
| 0.25/Control | TRINITY\_DN75684\_c2\_g1\_i6 | 2.75 | 9.40E-43 | 7.87E-40 | N/A | N/A |
| 0.25/Control | TRINITY\_DN84476\_c1\_g1\_i6 | 2.75 | 2.49E-06 | 3.95E-05 | BIR7B | XENLA |
| 0.25/Control | TRINITY\_DN60596\_c0\_g1\_i3 | 2.76 | 7.96E-05 | 8.07E-04 | N/A | N/A |
| 0.25/Control | TRINITY\_DN75314\_c0\_g1\_i8 | 2.78 | 1.57E-48 | 2.08E-45 | N/A | N/A |
| 0.25/Control | TRINITY\_DN76755\_c0\_g1\_i8 | 2.79 | 3.63E-16 | 3.36E-14 | N/A | N/A |
| 0.25/Control | TRINITY\_DN79286\_c0\_g1\_i1 | 2.82 | 1.16E-44 | 1.09E-41 | CP7A1 | MOUSE |
| 0.25/Control | TRINITY\_DN56359\_c0\_g1\_i1 | 2.91 | 4.85E-06 | 7.13E-05 | CCKAR | XENLA |
| 0.25/Control | TRINITY\_DN78937\_c4\_g1\_i8 | 2.91 | 5.64E-06 | 8.18E-05 | MYCT | HUMAN |
| 0.25/Control | TRINITY\_DN53365\_c0\_g2\_i1 | 2.91 | 3.69E-16 | 3.40E-14 | N/A | N/A |
| 0.25/Control | TRINITY\_DN78714\_c0\_g1\_i6 | 2.92 | 8.58E-20 | 1.27E-17 | NAS15 | CAEEL |
| 0.25/Control | TRINITY\_DN67262\_c0\_g1\_i2 | 2.97 | 6.12E-07 | 1.12E-05 | DPGN | DIPMA |
| 0.25/Control | TRINITY\_DN75033\_c1\_g1\_i1 | 2.98 | 7.65E-08 | 1.70E-06 | CADH6 | CHICK |
| 0.25/Control | TRINITY\_DN68583\_c3\_g2\_i3 | 2.98 | 2.34E-34 | 1.15E-31 | N/A | N/A |
| 0.25/Control | TRINITY\_DN63137\_c7\_g2\_i8 | 3.00 | 2.53E-08 | 6.27E-07 | N/A | N/A |
| 0.25/Control | TRINITY\_DN59787\_c0\_g1\_i1 | 3.06 | 1.02E-56 | 3.28E-53 | N/A | N/A |
| 0.25/Control | TRINITY\_DN70113\_c0\_g2\_i3 | 3.07 | 3.12E-08 | 7.56E-07 | N/A | N/A |
| 0.25/Control | TRINITY\_DN64093\_c3\_g2\_i2 | 3.14 | 7.24E-47 | 7.79E-44 | CDD | MOUSE |
| 0.25/Control | TRINITY\_DN71231\_c0\_g1\_i1 | 3.14 | 4.60E-17 | 4.86E-15 | N/A | N/A |
| 0.25/Control | TRINITY\_DN72135\_c0\_g1\_i6 | 3.17 | 9.44E-30 | 3.33E-27 | UN93A | XENLA |
| 0.25/Control | TRINITY\_DN80566\_c0\_g1\_i2 | 3.17 | 4.07E-14 | 2.85E-12 | N/A | N/A |
| 0.25/Control | TRINITY\_DN78908\_c0\_g1\_i9 | 3.18 | 7.27E-16 | 6.37E-14 | HOXX | BRADU |
| 0.25/Control | TRINITY\_DN65545\_c0\_g1\_i1 | 3.20 | 8.16E-20 | 1.23E-17 | NAS34 | CAEEL |
| 0.25/Control | TRINITY\_DN66759\_c0\_g3\_i1 | 3.22 | 1.48E-04 | 1.36E-03 | N/A | N/A |
| 0.25/Control | TRINITY\_DN42466\_c0\_g1\_i1 | 3.27 | 4.26E-12 | 2.20E-10 | KCNB1 | PIG |
| 0.25/Control | TRINITY\_DN57738\_c0\_g1\_i1 | 3.41 | 2.03E-06 | 3.28E-05 | N/A | N/A |
| 0.25/Control | TRINITY\_DN42525\_c0\_g1\_i1 | 3.54 | 1.85E-05 | 2.29E-04 | N/A | N/A |
| 0.25/Control | TRINITY\_DN21158\_c0\_g1\_i1 | 3.77 | 9.53E-06 | 1.29E-04 | N/A | N/A |
| 0.25/Control | TRINITY\_DN71231\_c0\_g2\_i1 | 3.80 | 5.13E-17 | 5.34E-15 | N/A | N/A |
| 0.25/Control | TRINITY\_DN66508\_c1\_g1\_i2 | 4.09 | 2.50E-25 | 6.35E-23 | N/A | N/A |
| 0.25/Control | TRINITY\_DN70128\_c0\_g1\_i6 | 4.15 | 3.03E-05 | 3.52E-04 | TENA | HUMAN |
| 0.25/Control | TRINITY\_DN58364\_c0\_g1\_i8 | 4.24 | 1.08E-04 | 1.04E-03 | N/A | N/A |
| 0.25/Control | TRINITY\_DN47119\_c0\_g1\_i1 | 4.31 | 6.17E-06 | 8.82E-05 | N/A | N/A |
| 0.25/Control | TRINITY\_DN59968\_c0\_g1\_i4 | 4.32 | 8.81E-33 | 3.83E-30 | HSP71 | ANOAL |
| 0.25/Control | TRINITY\_DN83319\_c1\_g1\_i10 | 4.36 | 1.42E-31 | 5.54E-29 | HSP70 | ONCVO |
| 0.25/Control | TRINITY\_DN58249\_c1\_g1\_i4 | 4.38 | 2.01E-04 | 1.77E-03 | N/A | N/A |
| 0.25/Control | TRINITY\_DN57644\_c0\_g1\_i2 | 4.52 | 2.13E-30 | 7.75E-28 | HSP70 | CHICK |
| 0.25/Control | TRINITY\_DN56942\_c0\_g4\_i1 | 4.54 | 5.84E-06 | 8.43E-05 | N/A | N/A |
| 0.25/Control | TRINITY\_DN56407\_c0\_g1\_i4 | 4.66 | 5.94E-10 | 2.02E-08 | N/A | N/A |
| 0.25/Control | TRINITY\_DN71438\_c0\_g1\_i4 | 4.85 | 3.51E-08 | 8.31E-07 | N/A | N/A |
| 0.25/Control | TRINITY\_DN77031\_c2\_g1\_i7 | 5.94 | 3.75E-41 | 2.73E-38 | MMP19 | MOUSE |
| 0.25/Control | TRINITY\_DN63468\_c5\_g1\_i2 | 7.20 | 1.12E-05 | 1.49E-04 | SMUG1 | MOUSE |
| 0.25/Control | TRINITY\_DN63686\_c2\_g2\_i1 | 7.57 | 1.89E-05 | 2.34E-04 | N/A | N/A |
| 2.5/Control | TRINITY\_DN80566\_c0\_g1\_i2 | -7.26 | 4.07E-14 | 2.85E-12 | N/A | N/A |
| 2.5/Control | TRINITY\_DN68272\_c3\_g2\_i2 | -5.13 | 4.79E-76 | 3.61E-72 | N/A | N/A |
| 2.5/Control | TRINITY\_DN79715\_c0\_g1\_i1 | -5.04 | 3.25E-14 | 2.31E-12 | ACTC | BRAFL |
| 2.5/Control | TRINITY\_DN65632\_c5\_g3\_i1 | -4.50 | 2.79E-36 | 1.54E-33 | N/A | N/A |
| 2.5/Control | TRINITY\_DN61104\_c0\_g1\_i27 | -4.41 | 1.43E-03 | 8.95E-03 | N/A | N/A |
| 2.5/Control | TRINITY\_DN64957\_c2\_g1\_i2 | -4.12 | 1.83E-08 | 4.69E-07 | CEL | BOVIN |
| 2.5/Control | TRINITY\_DN65990\_c0\_g1\_i3 | -3.95 | 4.19E-21 | 6.91E-19 | N/A | N/A |
| 2.5/Control | TRINITY\_DN71660\_c1\_g1\_i12 | -3.61 | 2.18E-44 | 1.97E-41 | USP1 | PINMG |
| 2.5/Control | TRINITY\_DN58072\_c0\_g1\_i1 | -3.60 | 2.07E-39 | 1.38E-36 | N/A | N/A |
| 2.5/Control | TRINITY\_DN60801\_c0\_g1\_i2 | -3.59 | 6.71E-15 | 5.26E-13 | ST1C4 | HUMAN |
| 2.5/Control | TRINITY\_DN63895\_c0\_g1\_i7 | -3.58 | 3.43E-06 | 5.23E-05 | C356 | FUNHE |
| 2.5/Control | TRINITY\_DN69887\_c0\_g1\_i6 | -3.54 | 4.20E-05 | 4.65E-04 | GDAP1 | HUMAN |
| 2.5/Control | TRINITY\_DN65264\_c0\_g1\_i8 | -3.48 | 3.93E-05 | 4.39E-04 | N/A | N/A |
| 2.5/Control | TRINITY\_DN61385\_c3\_g2\_i5 | -3.38 | 2.68E-11 | 1.18E-09 | N/A | N/A |
| 2.5/Control | TRINITY\_DN83828\_c0\_g2\_i5 | -3.13 | 4.13E-41 | 2.92E-38 | MYD88 | RAT |
| 2.5/Control | TRINITY\_DN66911\_c0\_g1\_i13 | -3.09 | 5.79E-05 | 6.16E-04 | IOD1 | FUNHE |
| 2.5/Control | TRINITY\_DN46990\_c0\_g1\_i1 | -3.00 | 4.09E-19 | 5.70E-17 | N/A | N/A |
| 2.5/Control | TRINITY\_DN68364\_c0\_g5\_i1 | -2.94 | 4.46E-08 | 1.04E-06 | N/A | N/A |
| 2.5/Control | TRINITY\_DN61536\_c0\_g1\_i1 | -2.92 | 2.27E-24 | 5.33E-22 | N/A | N/A |
| 2.5/Control | TRINITY\_DN72154\_c0\_g2\_i9 | -2.88 | 2.50E-05 | 2.97E-04 | BIRC2 | HUMAN |
| 2.5/Control | TRINITY\_DN80924\_c1\_g1\_i11 | -2.84 | 6.67E-05 | 6.97E-04 | CP2C8 | HUMAN |
| 2.5/Control | TRINITY\_DN65545\_c0\_g1\_i1 | -2.83 | 8.16E-20 | 1.23E-17 | NAS34 | CAEEL |
| 2.5/Control | TRINITY\_DN53310\_c0\_g1\_i3 | -2.83 | 1.68E-08 | 4.32E-07 | N/A | N/A |
| 2.5/Control | TRINITY\_DN71462\_c0\_g1\_i1 | -2.82 | 2.02E-36 | 1.17E-33 | N/A | N/A |
| 2.5/Control | TRINITY\_DN76194\_c0\_g3\_i3 | -2.54 | 3.01E-04 | 2.48E-03 | N/A | N/A |
| 2.5/Control | TRINITY\_DN81368\_c0\_g2\_i3 | -2.53 | 2.70E-07 | 5.36E-06 | BIRC1 | HUMAN |
| 2.5/Control | TRINITY\_DN75297\_c0\_g4\_i3 | -2.48 | 9.53E-07 | 1.66E-05 | DHRSX | HUMAN |
| 2.5/Control | TRINITY\_DN71462\_c0\_g3\_i1 | -2.47 | 4.88E-38 | 2.98E-35 | N/A | N/A |
| 2.5/Control | TRINITY\_DN74584\_c0\_g1\_i6 | -2.46 | 1.53E-05 | 1.95E-04 | CCD73 | MOUSE |
| 2.5/Control | TRINITY\_DN75684\_c2\_g1\_i6 | -2.39 | 9.40E-43 | 7.87E-40 | N/A | N/A |
| 2.5/Control | TRINITY\_DN66151\_c6\_g1\_i9 | -2.35 | 1.37E-11 | 6.30E-10 | CP17A | SQUAC |
| 2.5/Control | TRINITY\_DN80566\_c1\_g2\_i1 | -2.34 | 2.09E-26 | 5.96E-24 | N/A | N/A |
| 2.5/Control | TRINITY\_DN85433\_c3\_g1\_i1 | -2.34 | 8.20E-04 | 5.66E-03 | UD2C1 | RABIT |
| 2.5/Control | TRINITY\_DN75515\_c0\_g1\_i3 | -2.33 | 3.80E-09 | 1.12E-07 | BIR7A | XENLA |
| 2.5/Control | TRINITY\_DN56148\_c0\_g1\_i1 | -2.32 | 1.17E-05 | 1.54E-04 | GST1 | ONCVO |
| 2.5/Control | TRINITY\_DN80566\_c1\_g3\_i4 | -2.29 | 1.86E-19 | 2.68E-17 | N/A | N/A |
| 2.5/Control | TRINITY\_DN77031\_c2\_g1\_i7 | -2.28 | 3.75E-41 | 2.73E-38 | MMP19 | MOUSE |
| 2.5/Control | TRINITY\_DN58609\_c0\_g1\_i1 | -2.28 | 1.10E-22 | 2.21E-20 | N/A | N/A |
| 2.5/Control | TRINITY\_DN66026\_c3\_g2\_i2 | -2.24 | 6.14E-08 | 1.39E-06 | MDR1 | HUMAN |
| 2.5/Control | TRINITY\_DN68447\_c0\_g2\_i3 | -2.24 | 1.53E-03 | 9.43E-03 | HTAI2 | GORGO |
| 2.5/Control | TRINITY\_DN65670\_c7\_g1\_i6 | -2.19 | 1.32E-04 | 1.23E-03 | NMAH | SCHPO |
| 2.5/Control | TRINITY\_DN84758\_c2\_g1\_i14 | -2.18 | 2.26E-07 | 4.56E-06 | CP1A1 | MICTO |
| 2.5/Control | TRINITY\_DN65228\_c1\_g3\_i1 | -2.16 | 8.60E-04 | 5.87E-03 | ST1A1 | HUMAN |
| 2.5/Control | TRINITY\_DN85433\_c3\_g2\_i2 | -2.13 | 3.35E-04 | 2.72E-03 | N/A | N/A |
| 2.5/Control | TRINITY\_DN80924\_c0\_g2\_i1 | -2.12 | 1.71E-04 | 1.54E-03 | CP2DB | MOUSE |
| 2.5/Control | TRINITY\_DN62031\_c0\_g2\_i2 | -2.12 | 1.74E-05 | 2.18E-04 | N/A | N/A |
| 2.5/Control | TRINITY\_DN80924\_c0\_g1\_i1 | -2.11 | 6.04E-05 | 6.37E-04 | CP2J6 | MOUSE |
| 2.5/Control | TRINITY\_DN80771\_c1\_g1\_i1 | -2.08 | 3.21E-05 | 3.69E-04 | FBLN2 | HUMAN |
| 2.5/Control | TRINITY\_DN80771\_c0\_g1\_i2 | -2.07 | 2.57E-17 | 2.85E-15 | MATN2 | HUMAN |
| 2.5/Control | TRINITY\_DN78076\_c3\_g1\_i1 | -2.06 | 1.50E-08 | 3.90E-07 | AK1BA | HUMAN |
| 2.5/Control | TRINITY\_DN58543\_c11\_g2\_i2 | -2.05 | 1.43E-04 | 1.32E-03 | PHM | DROME |
| 2.5/Control | TRINITY\_DN61297\_c0\_g1\_i3 | -2.04 | 1.74E-04 | 1.57E-03 | N/A | N/A |
| 2.5/Control | TRINITY\_DN81879\_c7\_g1\_i3 | -2.04 | 3.04E-13 | 1.92E-11 | CP1A1 | ORYLA |
| 2.5/Control | TRINITY\_DN78351\_c0\_g2\_i2 | 2.00 | 3.70E-23 | 7.68E-21 | ORCT | DROME |
| 2.5/Control | TRINITY\_DN72619\_c4\_g3\_i2 | 2.01 | 1.95E-09 | 6.09E-08 | PGBM | MOUSE |
| 2.5/Control | TRINITY\_DN70965\_c0\_g1\_i8 | 2.04 | 2.17E-04 | 1.88E-03 | N/A | N/A |
| 2.5/Control | TRINITY\_DN78611\_c0\_g1\_i2 | 2.05 | 9.80E-05 | 9.57E-04 | CML12 | ORYSJ |
| 2.5/Control | TRINITY\_DN88227\_c12\_g2\_i1 | 2.05 | 7.26E-05 | 7.48E-04 | N/A | N/A |
| 2.5/Control | TRINITY\_DN76804\_c2\_g1\_i1 | 2.07 | 3.98E-07 | 7.59E-06 | N/A | N/A |
| 2.5/Control | TRINITY\_DN85133\_c1\_g1\_i4 | 2.09 | 2.11E-15 | 1.77E-13 | N/A | N/A |
| 2.5/Control | TRINITY\_DN85062\_c1\_g2\_i16 | 2.11 | 5.87E-08 | 1.33E-06 | ORCT | DROME |
| 2.5/Control | TRINITY\_DN66588\_c0\_g2\_i1 | 2.11 | 1.44E-09 | 4.60E-08 | SO4C1 | MOUSE |
| 2.5/Control | TRINITY\_DN87712\_c7\_g3\_i2 | 2.12 | 8.86E-05 | 8.78E-04 | PLMN | MOUSE |
| 2.5/Control | TRINITY\_DN77484\_c0\_g2\_i2 | 2.16 | 1.97E-09 | 6.14E-08 | LHPL3 | DANRE |
| 2.5/Control | TRINITY\_DN73390\_c0\_g1\_i5 | 2.19 | 1.01E-08 | 2.74E-07 | YFEX | ECOLI |
| 2.5/Control | TRINITY\_DN68535\_c2\_g3\_i2 | 2.20 | 2.43E-08 | 6.04E-07 | YOBN | BACSU |
| 2.5/Control | TRINITY\_DN87961\_c3\_g1\_i1 | 2.22 | 2.32E-11 | 1.03E-09 | GP158 | BOVIN |
| 2.5/Control | TRINITY\_DN87712\_c7\_g2\_i2 | 2.23 | 5.25E-04 | 3.93E-03 | SPAN | STRPU |
| 2.5/Control | TRINITY\_DN78074\_c1\_g1\_i2 | 2.24 | 4.35E-09 | 1.27E-07 | LGR6 | MOUSE |
| 2.5/Control | TRINITY\_DN78580\_c0\_g1\_i1 | 2.25 | 3.87E-05 | 4.34E-04 | HIP | MYTED |
| 2.5/Control | TRINITY\_DN81796\_c0\_g1\_i5 | 2.28 | 1.11E-03 | 7.27E-03 | N/A | N/A |
| 2.5/Control | TRINITY\_DN50594\_c0\_g1\_i1 | 2.28 | 1.89E-06 | 3.07E-05 | N/A | N/A |
| 2.5/Control | TRINITY\_DN55913\_c0\_g1\_i1 | 2.29 | 6.84E-04 | 4.88E-03 | N/A | N/A |
| 2.5/Control | TRINITY\_DN59153\_c0\_g1\_i8 | 2.34 | 2.55E-06 | 4.05E-05 | N/A | N/A |
| 2.5/Control | TRINITY\_DN84167\_c0\_g1\_i2 | 2.35 | 2.30E-06 | 3.68E-05 | HYPDH | XENLA |
| 2.5/Control | TRINITY\_DN84937\_c1\_g2\_i1 | 2.35 | 8.57E-12 | 4.14E-10 | N/A | N/A |
| 2.5/Control | TRINITY\_DN66937\_c0\_g2\_i2 | 2.38 | 3.34E-04 | 2.71E-03 | GIMA4 | HUMAN |
| 2.5/Control | TRINITY\_DN55093\_c0\_g1\_i1 | 2.39 | 7.14E-04 | 5.06E-03 | CELR3 | RAT |
| 2.5/Control | TRINITY\_DN83937\_c0\_g1\_i6 | 2.42 | 6.74E-05 | 7.03E-04 | LIN41 | XENTR |
| 2.5/Control | TRINITY\_DN73384\_c2\_g1\_i3 | 2.42 | 2.89E-07 | 5.73E-06 | N/A | N/A |
| 2.5/Control | TRINITY\_DN87187\_c3\_g1\_i1 | 2.43 | 8.68E-04 | 5.92E-03 | MPL3 | DICDI |
| 2.5/Control | TRINITY\_DN71156\_c0\_g1\_i4 | 2.43 | 4.60E-10 | 1.61E-08 | KAT3 | HUMAN |
| 2.5/Control | TRINITY\_DN66930\_c2\_g1\_i4 | 2.44 | 1.59E-03 | 9.74E-03 | N/A | N/A |
| 2.5/Control | TRINITY\_DN75178\_c1\_g2\_i7 | 2.45 | 3.68E-04 | 2.92E-03 | N/A | N/A |
| 2.5/Control | TRINITY\_DN56226\_c0\_g1\_i1 | 2.46 | 8.89E-06 | 1.22E-04 | GP157 | HUMAN |
| 2.5/Control | TRINITY\_DN61026\_c4\_g7\_i5 | 2.52 | 7.53E-09 | 2.08E-07 | ORCT | DROME |
| 2.5/Control | TRINITY\_DN81859\_c4\_g2\_i5 | 2.53 | 2.04E-06 | 3.30E-05 | HEM3 | BOVIN |
| 2.5/Control | TRINITY\_DN70458\_c2\_g4\_i2 | 2.54 | 2.27E-05 | 2.74E-04 | N/A | N/A |
| 2.5/Control | TRINITY\_DN63876\_c4\_g2\_i1 | 2.58 | 1.74E-12 | 9.68E-11 | N/A | N/A |
| 2.5/Control | TRINITY\_DN59448\_c0\_g2\_i5 | 2.60 | 1.59E-05 | 2.01E-04 | XXLT1 | MOUSE |
| 2.5/Control | TRINITY\_DN62806\_c0\_g1\_i8 | 2.61 | 2.97E-08 | 7.27E-07 | N/A | N/A |
| 2.5/Control | TRINITY\_DN32194\_c0\_g1\_i1 | 2.65 | 6.01E-05 | 6.35E-04 | N/A | N/A |
| 2.5/Control | TRINITY\_DN63980\_c0\_g2\_i2 | 2.71 | 1.98E-07 | 4.03E-06 | S22AL | MOUSE |
| 2.5/Control | TRINITY\_DN70458\_c2\_g3\_i1 | 2.72 | 4.74E-05 | 5.16E-04 | N/A | N/A |
| 2.5/Control | TRINITY\_DN82133\_c6\_g1\_i1 | 2.76 | 1.04E-03 | 6.91E-03 | N/A | N/A |
| 2.5/Control | TRINITY\_DN58545\_c0\_g1\_i2 | 2.80 | 4.58E-04 | 3.51E-03 | SEC4 | CANGA |
| 2.5/Control | TRINITY\_DN65159\_c2\_g1\_i1 | 2.81 | 1.98E-04 | 1.75E-03 | N/A | N/A |
| 2.5/Control | TRINITY\_DN59252\_c0\_g1\_i1 | 2.93 | 2.55E-06 | 4.05E-05 | LPH | HUMAN |
| 2.5/Control | TRINITY\_DN62844\_c4\_g1\_i2 | 2.96 | 5.03E-10 | 1.75E-08 | N/A | N/A |
| 2.5/Control | TRINITY\_DN59775\_c1\_g1\_i5 | 3.00 | 4.91E-04 | 3.72E-03 | PLMN | MACEU |
| 2.5/Control | TRINITY\_DN69676\_c8\_g2\_i4 | 3.02 | 7.93E-04 | 5.51E-03 | N/A | N/A |
| 2.5/Control | TRINITY\_DN67540\_c4\_g1\_i1 | 3.02 | 3.51E-04 | 2.82E-03 | N/A | N/A |
| 2.5/Control | TRINITY\_DN84836\_c0\_g2\_i4 | 3.08 | 4.14E-05 | 4.58E-04 | LPH | RABIT |
| 2.5/Control | TRINITY\_DN64504\_c6\_g1\_i6 | 3.22 | 5.20E-05 | 5.59E-04 | MOT12 | HUMAN |
| 2.5/Control | TRINITY\_DN65030\_c0\_g1\_i1 | 3.24 | 9.80E-05 | 9.57E-04 | N/A | N/A |
| 2.5/Control | TRINITY\_DN61402\_c2\_g2\_i4 | 3.27 | 1.13E-07 | 2.41E-06 | N/A | N/A |
| 2.5/Control | TRINITY\_DN79115\_c0\_g1\_i3 | 3.38 | 1.31E-04 | 1.23E-03 | LPH | HUMAN |
| 2.5/Control | TRINITY\_DN76351\_c5\_g3\_i3 | 3.42 | 1.12E-03 | 7.33E-03 | N/A | N/A |
| 2.5/Control | TRINITY\_DN67891\_c1\_g5\_i9 | 3.43 | 3.18E-09 | 9.51E-08 | GXLT1 | MOUSE |
| 2.5/Control | TRINITY\_DN68308\_c2\_g1\_i9 | 4.07 | 3.81E-05 | 4.26E-04 | PRP1 | SALTY |
| 2.5/Control | TRINITY\_DN63468\_c5\_g1\_i2 | 4.55 | 1.12E-05 | 1.49E-04 | SMUG1 | MOUSE |
| 2.5/Control | TRINITY\_DN63686\_c2\_g2\_i1 | 5.43 | 1.89E-05 | 2.34E-04 | N/A | N/A |
| 25/Control | TRINITY\_DN80566\_c0\_g1\_i2 | -7.33 | 4.07E-14 | 2.85E-12 | N/A | N/A |
| 25/Control | TRINITY\_DN79715\_c0\_g1\_i1 | -6.04 | 3.25E-14 | 2.31E-12 | ACTC | BRAFL |
| 25/Control | TRINITY\_DN76947\_c0\_g3\_i7 | -5.76 | 5.79E-04 | 4.25E-03 | TIGD4 | HUMAN |
| 25/Control | TRINITY\_DN64957\_c2\_g1\_i2 | -4.55 | 1.83E-08 | 4.69E-07 | CEL | BOVIN |
| 25/Control | TRINITY\_DN65990\_c0\_g1\_i3 | -4.42 | 4.19E-21 | 6.91E-19 | N/A | N/A |
| 25/Control | TRINITY\_DN65632\_c5\_g3\_i1 | -4.01 | 2.79E-36 | 1.54E-33 | N/A | N/A |
| 25/Control | TRINITY\_DN46990\_c0\_g1\_i1 | -3.93 | 4.09E-19 | 5.70E-17 | N/A | N/A |
| 25/Control | TRINITY\_DN68272\_c3\_g2\_i2 | -3.85 | 4.79E-76 | 3.61E-72 | N/A | N/A |
| 25/Control | TRINITY\_DN58072\_c0\_g1\_i1 | -3.58 | 2.07E-39 | 1.38E-36 | N/A | N/A |
| 25/Control | TRINITY\_DN85433\_c3\_g1\_i1 | -3.44 | 8.20E-04 | 5.66E-03 | UD2C1 | RABIT |
| 25/Control | TRINITY\_DN60801\_c0\_g1\_i2 | -3.40 | 6.71E-15 | 5.26E-13 | ST1C4 | HUMAN |
| 25/Control | TRINITY\_DN80924\_c1\_g1\_i11 | -3.39 | 6.67E-05 | 6.97E-04 | CP2C8 | HUMAN |
| 25/Control | TRINITY\_DN61536\_c0\_g1\_i1 | -3.36 | 2.27E-24 | 5.33E-22 | N/A | N/A |
| 25/Control | TRINITY\_DN50370\_c0\_g1\_i4 | -3.32 | 4.43E-04 | 3.42E-03 | N/A | N/A |
| 25/Control | TRINITY\_DN71420\_c0\_g3\_i1 | -3.05 | 2.04E-04 | 1.79E-03 | RTBS | DROME |
| 25/Control | TRINITY\_DN74584\_c0\_g1\_i6 | -2.99 | 1.53E-05 | 1.95E-04 | CCD73 | MOUSE |
| 25/Control | TRINITY\_DN75684\_c2\_g1\_i6 | -2.98 | 9.40E-43 | 7.87E-40 | N/A | N/A |
| 25/Control | TRINITY\_DN71660\_c1\_g1\_i12 | -2.87 | 2.18E-44 | 1.97E-41 | USP1 | PINMG |
| 25/Control | TRINITY\_DN71462\_c0\_g1\_i1 | -2.81 | 2.02E-36 | 1.17E-33 | N/A | N/A |
| 25/Control | TRINITY\_DN80924\_c0\_g2\_i1 | -2.77 | 1.71E-04 | 1.54E-03 | CP2DB | MOUSE |
| 25/Control | TRINITY\_DN85433\_c3\_g2\_i2 | -2.76 | 3.35E-04 | 2.72E-03 | N/A | N/A |
| 25/Control | TRINITY\_DN80566\_c1\_g2\_i1 | -2.73 | 2.09E-26 | 5.96E-24 | N/A | N/A |
| 25/Control | TRINITY\_DN66026\_c3\_g2\_i2 | -2.69 | 6.14E-08 | 1.39E-06 | MDR1 | HUMAN |
| 25/Control | TRINITY\_DN68364\_c0\_g5\_i1 | -2.66 | 4.46E-08 | 1.04E-06 | N/A | N/A |
| 25/Control | TRINITY\_DN61385\_c3\_g2\_i5 | -2.60 | 2.68E-11 | 1.18E-09 | N/A | N/A |
| 25/Control | TRINITY\_DN83828\_c0\_g2\_i5 | -2.49 | 4.13E-41 | 2.92E-38 | MYD88 | RAT |
| 25/Control | TRINITY\_DN68447\_c0\_g2\_i3 | -2.44 | 1.53E-03 | 9.43E-03 | HTAI2 | GORGO |
| 25/Control | TRINITY\_DN63916\_c0\_g1\_i2 | -2.43 | 6.60E-04 | 4.74E-03 | N/A | N/A |
| 25/Control | TRINITY\_DN72578\_c0\_g1\_i1 | -2.42 | 1.42E-03 | 8.90E-03 | DPEP1 | RABIT |
| 25/Control | TRINITY\_DN58543\_c11\_g2\_i2 | -2.42 | 1.43E-04 | 1.32E-03 | PHM | DROME |
| 25/Control | TRINITY\_DN71462\_c0\_g3\_i1 | -2.34 | 4.88E-38 | 2.98E-35 | N/A | N/A |
| 25/Control | TRINITY\_DN85086\_c2\_g1\_i2 | -2.32 | 8.11E-05 | 8.18E-04 | N/A | N/A |
| 25/Control | TRINITY\_DN76194\_c0\_g3\_i3 | -2.23 | 3.01E-04 | 2.48E-03 | N/A | N/A |
| 25/Control | TRINITY\_DN56148\_c0\_g1\_i1 | -2.20 | 1.17E-05 | 1.54E-04 | GST1 | ONCVO |
| 25/Control | TRINITY\_DN65066\_c3\_g2\_i1 | -2.18 | 8.81E-04 | 6.00E-03 | N/A | N/A |
| 25/Control | TRINITY\_DN80924\_c1\_g3\_i1 | -2.16 | 2.29E-05 | 2.76E-04 | CP2CN | RAT |
| 25/Control | TRINITY\_DN87640\_c2\_g1\_i1 | -2.14 | 3.53E-09 | 1.05E-07 | N/A | N/A |
| 25/Control | TRINITY\_DN70684\_c5\_g13\_i1 | -2.14 | 1.41E-08 | 3.71E-07 | MOS1T | DROMA |
| 25/Control | TRINITY\_DN56033\_c0\_g1\_i1 | -2.13 | 2.33E-13 | 1.49E-11 | IL17L | CRAGI |
| 25/Control | TRINITY\_DN63895\_c0\_g1\_i7 | -2.12 | 3.43E-06 | 5.23E-05 | C356 | FUNHE |
| 25/Control | TRINITY\_DN68724\_c1\_g1\_i2 | -2.05 | 1.65E-68 | 9.33E-65 | ANK3 | HUMAN |
| 25/Control | TRINITY\_DN75844\_c0\_g1\_i2 | -2.04 | 1.44E-04 | 1.32E-03 | TYRO | PINMA |
| 25/Control | TRINITY\_DN82515\_c0\_g1\_i10 | -2.04 | 4.55E-20 | 6.95E-18 | AOX | EMENI |
| 25/Control | TRINITY\_DN77649\_c3\_g1\_i1 | -2.04 | 5.80E-05 | 6.17E-04 | GDAP1 | HUMAN |
| 25/Control | TRINITY\_DN77379\_c0\_g1\_i2 | -2.01 | 3.18E-06 | 4.90E-05 | N/A | N/A |
| 25/Control | TRINITY\_DN62806\_c0\_g1\_i8 | 2.00 | 2.97E-08 | 7.27E-07 | N/A | N/A |
| 25/Control | TRINITY\_DN78351\_c0\_g2\_i2 | 2.01 | 3.70E-23 | 7.68E-21 | ORCT | DROME |
| 25/Control | TRINITY\_DN79115\_c0\_g1\_i3 | 2.03 | 1.31E-04 | 1.23E-03 | LPH | HUMAN |
| 25/Control | TRINITY\_DN59153\_c0\_g1\_i8 | 2.03 | 2.55E-06 | 4.05E-05 | N/A | N/A |
| 25/Control | TRINITY\_DN59906\_c0\_g1\_i3 | 2.07 | 2.36E-05 | 2.83E-04 | CAH14 | HUMAN |
| 25/Control | TRINITY\_DN64504\_c6\_g1\_i6 | 2.10 | 5.20E-05 | 5.59E-04 | MOT12 | HUMAN |
| 25/Control | TRINITY\_DN128055\_c0\_g1\_i1 | 2.12 | 3.50E-06 | 5.34E-05 | N/A | N/A |
| 25/Control | TRINITY\_DN65550\_c4\_g3\_i4 | 2.12 | 7.47E-04 | 5.25E-03 | N/A | N/A |
| 25/Control | TRINITY\_DN83526\_c2\_g3\_i2 | 2.14 | 4.73E-11 | 2.00E-09 | EAA1 | BOVIN |
| 25/Control | TRINITY\_DN59551\_c0\_g1\_i1 | 2.14 | 1.57E-03 | 9.66E-03 | C1QL4 | MOUSE |
| 25/Control | TRINITY\_DN71567\_c0\_g1\_i2 | 2.15 | 2.45E-19 | 3.50E-17 | N/A | N/A |
| 25/Control | TRINITY\_DN74546\_c0\_g4\_i2 | 2.15 | 7.14E-06 | 1.00E-04 | N/A | N/A |
| 25/Control | TRINITY\_DN77484\_c0\_g2\_i2 | 2.16 | 1.97E-09 | 6.14E-08 | LHPL3 | DANRE |
| 25/Control | TRINITY\_DN84370\_c5\_g1\_i16 | 2.17 | 1.21E-12 | 7.02E-11 | GP158 | MOUSE |
| 25/Control | TRINITY\_DN72961\_c0\_g1\_i3 | 2.19 | 1.52E-05 | 1.94E-04 | N/A | N/A |
| 25/Control | TRINITY\_DN58013\_c0\_g1\_i1 | 2.21 | 1.13E-03 | 7.39E-03 | N/A | N/A |
| 25/Control | TRINITY\_DN21158\_c0\_g1\_i1 | 2.23 | 9.53E-06 | 1.29E-04 | N/A | N/A |
| 25/Control | TRINITY\_DN63769\_c0\_g1\_i2 | 2.24 | 7.10E-04 | 5.04E-03 | EST5A | CANLF |
| 25/Control | TRINITY\_DN78611\_c0\_g1\_i2 | 2.27 | 9.80E-05 | 9.57E-04 | CML12 | ORYSJ |
| 25/Control | TRINITY\_DN60528\_c0\_g3\_i2 | 2.28 | 9.28E-04 | 6.26E-03 | N/A | N/A |
| 25/Control | TRINITY\_DN78580\_c0\_g2\_i1 | 2.32 | 1.25E-03 | 8.01E-03 | N/A | N/A |
| 25/Control | TRINITY\_DN55913\_c0\_g1\_i1 | 2.34 | 6.84E-04 | 4.88E-03 | N/A | N/A |
| 25/Control | TRINITY\_DN62249\_c2\_g2\_i1 | 2.34 | 3.17E-04 | 2.59E-03 | N/A | N/A |
| 25/Control | TRINITY\_DN65330\_c0\_g1\_i8 | 2.34 | 1.20E-03 | 7.77E-03 | N/A | N/A |
| 25/Control | TRINITY\_DN62269\_c0\_g1\_i4 | 2.34 | 1.84E-09 | 5.77E-08 | N/A | N/A |
| 25/Control | TRINITY\_DN70128\_c0\_g1\_i6 | 2.37 | 3.03E-05 | 3.52E-04 | TENA | HUMAN |
| 25/Control | TRINITY\_DN78580\_c0\_g1\_i1 | 2.37 | 3.87E-05 | 4.34E-04 | HIP | MYTED |
| 25/Control | TRINITY\_DN59448\_c0\_g2\_i5 | 2.42 | 1.59E-05 | 2.01E-04 | XXLT1 | MOUSE |
| 25/Control | TRINITY\_DN63980\_c0\_g2\_i2 | 2.42 | 1.98E-07 | 4.03E-06 | S22AL | MOUSE |
| 25/Control | TRINITY\_DN60089\_c0\_g2\_i1 | 2.47 | 1.38E-03 | 8.65E-03 | N/A | N/A |
| 25/Control | TRINITY\_DN67282\_c0\_g2\_i1 | 2.48 | 7.77E-06 | 1.08E-04 | N/A | N/A |
| 25/Control | TRINITY\_DN58584\_c0\_g1\_i2 | 2.53 | 1.76E-10 | 6.72E-09 | EAA4 | MOUSE |
| 25/Control | TRINITY\_DN73390\_c0\_g1\_i5 | 2.55 | 1.01E-08 | 2.74E-07 | YFEX | ECOLI |
| 25/Control | TRINITY\_DN55093\_c0\_g1\_i1 | 2.55 | 7.14E-04 | 5.06E-03 | CELR3 | RAT |
| 25/Control | TRINITY\_DN61026\_c4\_g7\_i5 | 2.59 | 7.53E-09 | 2.08E-07 | ORCT | DROME |
| 25/Control | TRINITY\_DN76351\_c5\_g3\_i3 | 2.61 | 1.12E-03 | 7.33E-03 | N/A | N/A |
| 25/Control | TRINITY\_DN81859\_c4\_g2\_i5 | 2.63 | 2.04E-06 | 3.30E-05 | HEM3 | BOVIN |
| 25/Control | TRINITY\_DN77646\_c1\_g1\_i1 | 2.64 | 6.50E-09 | 1.81E-07 | N/A | N/A |
| 25/Control | TRINITY\_DN42525\_c0\_g1\_i1 | 2.72 | 1.85E-05 | 2.29E-04 | N/A | N/A |
| 25/Control | TRINITY\_DN87712\_c7\_g3\_i2 | 2.75 | 8.86E-05 | 8.78E-04 | PLMN | MOUSE |
| 25/Control | TRINITY\_DN75178\_c1\_g2\_i7 | 2.83 | 3.68E-04 | 2.92E-03 | N/A | N/A |
| 25/Control | TRINITY\_DN84167\_c0\_g1\_i2 | 2.83 | 2.30E-06 | 3.68E-05 | HYPDH | XENLA |
| 25/Control | TRINITY\_DN70775\_c0\_g1\_i3 | 2.86 | 1.17E-04 | 1.12E-03 | FAT3 | MOUSE |
| 25/Control | TRINITY\_DN61758\_c1\_g1\_i6 | 2.88 | 1.37E-03 | 8.60E-03 | CAS4 | EPHMU |
| 25/Control | TRINITY\_DN74652\_c2\_g1\_i3 | 2.90 | 7.60E-05 | 7.77E-04 | N/A | N/A |
| 25/Control | TRINITY\_DN68898\_c3\_g1\_i3 | 2.91 | 1.53E-05 | 1.95E-04 | N/A | N/A |
| 25/Control | TRINITY\_DN68308\_c2\_g1\_i9 | 2.96 | 3.81E-05 | 4.26E-04 | PRP1 | SALTY |
| 25/Control | TRINITY\_DN78710\_c0\_g1\_i4 | 3.16 | 2.47E-07 | 4.94E-06 | CEMIP | HUMAN |
| 25/Control | TRINITY\_DN73510\_c5\_g1\_i1 | 3.27 | 3.68E-07 | 7.08E-06 | M130 | STRPU |
| 25/Control | TRINITY\_DN73462\_c3\_g2\_i7 | 3.67 | 5.31E-04 | 3.96E-03 | N/A | N/A |
| 25/Control | TRINITY\_DN63686\_c2\_g2\_i1 | 3.75 | 1.89E-05 | 2.34E-04 | N/A | N/A |

**Table S4.**

Gene Ontology enrichment based on DEGs highlighted in the 0.25 µg L-1 treatment after semantic-based clustering in REVIGO.

|  |  |  |  |
| --- | --- | --- | --- |
| **Term ID** | **GO name** | **log10(*p*-value)** | **DEGs number** |
| GO:0016491 | oxidoreductase activity  | -13.24 | 36 |
| GO:0008395 | steroid hydroxylase activity  | -7.46 | 8 |
| GO:0005506 | iron ion binding  | -7.26 | 13 |
| GO:1901685 | glutathione derivative metabolic process | -7.07 | 4 |
| GO:1901687 | glutathione derivative biosynthetic process | -7.07 | 4 |
| GO:0014809 | regulation of skeletal muscle contraction by regulation of release of sequestered calcium ion | -6.68 | 3 |
| GO:0030613 | oxidoreductase activity, acting on phosphorus or arsenic in donors | -6.68 | 3 |
| GO:0030614 | oxidoreductase activity, acting on phosphorus or arsenic in donors, disulfide as acceptor | -6.68 | 3 |
| GO:0004497 | monooxygenase activity  | -6.03 | 11 |
| GO:0016705 | oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen | -5.98 | 12 |
| GO:0044281 | small molecule metabolic process | -5.81 | 30 |
| GO:0015038 | glutathione disulfide oxidoreductase activity | -5.68 | 3 |
| GO:0020037 | heme binding  | -5.54 | 11 |
| GO:0009407 | toxin catabolic process  | -5.39 | 3 |
| GO:0019852 | L-ascorbic acid metabolic process | -5.17 | 4 |
| GO:0006766 | vitamin metabolic process  | -5.16 | 7 |
| GO:0071243 | cellular response to arsenic-containing substance | -5.14 | 3 |
| GO:0004089 | carbonate dehydratase activity | -5.08 | 4 |
| GO:0046906 | tetrapyrrole binding | -5.05 | 11 |
| GO:0016614 | oxidoreductase activity, acting on CH-OH group of donors | -5.04 | 10 |
| GO:0019748 | secondary metabolic process | -4.99 | 7 |
| GO:0048037 | cofactor binding  | -4.93 | 18 |
| GO:0004364 | glutathione transferase activity | -4.71 | 5 |
| GO:0035722 | interleukin-12-mediated signaling pathway | -4.48 | 3 |
| GO:0033559 | unsaturated fatty acid metabolic process | -4.45 | 6 |
| GO:0042221 | response to chemical  | -4.20 | 27 |
| GO:0008392 | arachidonic acid epoxygenase activity | -4.07 | 4 |
| GO:0006820 | anion transport  | -3.99 | 12 |
| GO:0008391 | arachidonic acid monooxygenase activity | -3.98 | 4 |
| GO:0048878 | chemical homeostasis  | -3.94 | 14 |
| GO:0006790 | sulfur compound metabolic process | -3.94 | 10 |
| GO:0003676 | nucleic acid binding  | -3.88 | 6 |
| GO:0044706 | multi-multicellular organism process | -3.77 | 5 |
| GO:0098739 | import across plasma membrane  | -3.77 | 5 |
| GO:1901568 | fatty acid derivative metabolic process | -3.74 | 6 |
| GO:0016765 | transferase activity, transferring alkyl or aryl (other than methyl) groups | -3.70 | 5 |
| GO:0044425 | membrane part  | -3.67 | 61 |
| GO:0003824 | catalytic activity  | -3.64 | 74 |
| GO:0006629 | lipid metabolic process  | -3.63 | 18 |
| GO:0006749 | glutathione metabolic process  | -3.61 | 4 |
| GO:0009719 | response to endogenous stimulus | -3.54 | 13 |
| GO:0015701 | bicarbonate transport  | -3.53 | 3 |
| GO:0008202 | steroid metabolic process  | -3.48 | 8 |
| GO:0043170 | macromolecule metabolic process | -3.43 | 19 |
| GO:0006811 | ion transport  | -3.41 | 17 |
| GO:0046685 | response to arsenic-containing substance | -3.36 | 3 |
| GO:0044271 | cellular nitrogen compound biosynthetic process | -3.13 | 3 |
| GO:0006066 | alcohol metabolic process  | -3.11 | 8 |
| GO:0044432 | endoplasmic reticulum part  | -3.05 | 16 |
| GO:0016829 | lyase activity  | -2.91 | 7 |
| GO:0022804 | active transmembrane transporter activity | -2.89 | 11 |
| GO:0016616 | oxidoreductase activity, acting on the CH-OH group of donors, NAD or NADP as acceptor | -2.89 | 6 |
| GO:0046914 | transition metal ion binding  | -2.85 | 21 |
| GO:0005996 | monosaccharide metabolic process | -2.79 | 6 |
| GO:0090304 | nucleic acid metabolic process | -2.77 | 8 |
| GO:0008645 | hexose transmembrane transport | -2.76 | 3 |
| GO:0003674 | molecular\_function  | -2.67 | 123 |
| GO:0005215 | transporter activity  | -2.67 | 20 |
| GO:0015149 | hexose transmembrane transporter activity | -2.66 | 3 |
| GO:0006694 | steroid biosynthetic process  | -2.54 | 4 |
| GO:1901615 | organic hydroxy compound metabolic process | -2.47 | 9 |
| GO:0032787 | monocarboxylic acid metabolic process | -2.45 | 9 |
| GO:0005902 | microvillus  | -2.36 | 3 |
| GO:0005887 | integral component of plasma membrane | -2.32 | 16 |
| GO:0044282 | small molecule catabolic process | -2.31 | 8 |
| GO:0044459 | plasma membrane part  | -2.31 | 27 |
| GO:0030414 | peptidase inhibitor activity  | -2.30 | 6 |
| GO:0002755 | MyD88-dependent toll-like receptor signaling pathway | -2.25 | 3 |
| GO:0071702 | organic substance transport  | -2.24 | 20 |
| GO:0050660 | flavin adenine dinucleotide binding | -2.21 | 5 |
| GO:0016209 | antioxidant activity  | -2.19 | 4 |
| GO:0050896 | response to stimulus  | -2.19 | 37 |
| GO:0016667 | oxidoreductase activity, acting on a sulfur group of donors | -2.15 | 3 |
| GO:0006732 | coenzyme metabolic process  | -2.06 | 6 |
| GO:0042476 | odontogenesis  | -2.05 | 3 |
| GO:0051186 | cofactor metabolic process  | -2.05 | 8 |
| GO:0034035 | purine ribonucleoside bisphosphate metabolic process | -2.02 | 3 |

**Table S5.**

Gene Ontology enrichment based on DEGs highlighted in the 2.5 µg L-1 treatment after semantic-based clustering in REVIGO.

|  |  |  |  |
| --- | --- | --- | --- |
| **Term ID** | **GO name** | **log10(*p*-value)** | **DEGs number** |
| GO:0000016 | lactase activity | -7.71 | 3 |
| GO:0017042 | glycosylceramidase activity | -7.71 | 3 |
| GO:0004497 | monooxygenase activity | -6.02 | 8 |
| GO:0016712 | oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen, reduced flavin or flavoprotein as one donor, and incorporation of one atom of oxygen | -5.89 | 6 |
| GO:0020037 | heme binding | -5.65 | 8 |
| GO:0016491 | oxidoreductase activity | -5.40 | 15 |
| GO:0016705 | oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen | -5.36 | 8 |
| GO:0046906 | tetrapyrrole binding | -5.27 | 8 |
| GO:0003824 | catalytic activity | -5.02 | 43 |
| GO:0005506 | iron ion binding | -4.62 | 7 |
| GO:0046914 | transition metal ion binding | -3.81 | 14 |
| GO:0007586 | digestion | -3.31 | 3 |
| GO:0034310 | primary alcohol catabolic process | -3.28 | 3 |
| GO:0019369 | arachidonic acid metabolic process | -3.22 | 3 |
| GO:0048037 | cofactor binding | -3.03 | 9 |
| GO:0008514 | organic anion transmembrane transporter activity | -2.93 | 6 |
| GO:0005789 | endoplasmic reticulum membrane | -2.87 | 8 |
| GO:0043028 | cysteine-type endopeptidase regulator activity involved in apoptotic process | -2.78 | 3 |
| GO:0016765 | transferase activity, transferring alkyl or aryl (other than methyl) groups | -2.72 | 3 |
| GO:0043648 | dicarboxylic acid metabolic process | -2.64 | 3 |
| GO:0044425 | membrane part | -2.58 | 30 |
| GO:0032991 | macromolecular complex | -2.50 | 3 |
| GO:0003674 | molecular function | -2.44 | 61 |
| GO:0010951 | negative regulation of endopeptidase activity | -2.43 | 3 |
| GO:0017001 | antibiotic catabolic process | -2.41 | 3 |
| GO:0012501 | programmed cell death | -2.37 | 6 |
| GO:0001764 | neuron migration | -2.34 | 3 |
| GO:0004252 | serine-type endopeptidase activity | -2.31 | 3 |
| GO:0008219 | cell death | -2.30 | 6 |
| GO:0031099 | regeneration | -2.21 | 3 |
| GO:1901568 | fatty acid derivative metabolic process | -2.20 | 3 |
| GO:0016798 | hydrolase activity, acting on glycosyl bonds | -2.19 | 4 |
| GO:0008202 | steroid metabolic process | -2.11 | 4 |
| GO:1901657 | glycosyl compound metabolic process | -2.10 | 3 |
| GO:0005515 | protein binding | -2.06 | 5 |

**Table S6.**

Gene Ontology enrichment based on DEGs highlighted in the 25 µg L-1 treatment after semantic-based clustering in REVIGO.

|  |  |  |  |
| --- | --- | --- | --- |
| **Term ID** | **GO name** | **log10(*p*-value)** | **DEGs number** |
| GO:0016712 | oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen, reduced flavin or flavoprotein as one donor, and incorporation of one atom of oxygen | -3.66 | 4 |
| GO:0019369 | arachidonic acid metabolic process | -3.42 | 3 |
| GO:0004497 | monooxygenase activity | -3.32 | 5 |
| GO:0008514 | organic anion transmembrane transporter activity | -3.29 | 6 |
| GO:0015238 | drug transmembrane transporter activity | -3.10 | 4 |
| GO:0020037 | heme binding | -3.09 | 5 |
| GO:0016705 | oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen | -2.92 | 5 |
| GO:0016765 | transferase activity, transferring alkyl or aryl (other than methyl) groups | -2.92 | 3 |
| GO:0016491 | oxidoreductase activity | -2.92 | 10 |
| GO:0034767 | positive regulation of ion transmembrane transport | -2.90 | 3 |
| GO:0046906 | tetrapyrrole binding | -2.86 | 5 |
| GO:0003333 | amino acid transmembrane transport | -2.72 | 3 |
| GO:0043436 | oxoacid metabolic process | -2.46 | 8 |
| GO:1901568 | fatty acid derivative metabolic process | -2.38 | 3 |
| GO:0044425 | membrane part | -2.34 | 26 |
| GO:0006855 | drug transmembrane transport | -2.26 | 3 |
| GO:0005506 | iron ion binding | -2.21 | 4 |

### Bacterial charges in tank systems: a metabarcoding approach

## Material and methods

**Experimental design and metabarcoding analysis.** Identical doses and protocols were used to those of Gardon et al. (2018), with the seawater used for the recreated algae/micro-PS mixture filtered at 25 and 5 µm before being put in tanks. No pearl oysters were used in this additional experiment. For bacterial community assessment, we adapted the protocol described in Hildebrandt et al. (2019) to sample microplastic from water bodies. We sampled 50 ml of water from each tank in duplicate at T0 and at T24. We assessed particle size and abundance using a counter-coulter machine (MultisizerTM, (Coulter, 2000). The water samples were centrifuged for 20 minutes at 5000 *g* to specifically assess bacterial communities on the mix of algae and microplastic beads. We added TRIZOL, following the manufacturer's recommended ratio and the samples were stocked at -20°C for later analysis. DNA extraction included a first step of homogenization by vortexing (10 min at 30 beats s-1) in TRIZOL followed by a centrifugation step (12,000 *g* for 10 min at 4°C). Phase separation was achieved by adding 200 µl chloroform and centrifuging for 12 min at 12,000 *g* and 4°C. We removed the supernatant containing the RNA and kept the pellet containing the DNA. A volume of 450 µl of absolute ethanol was added and the tubes were centrifuged for 5 min at 10,000 *g* and 4°C. After removing the supernatant, we washed the DNA three times in 0.1 M sodium citrate followed by centrifuging for 5 min at 10,000 *g* and ambient temperature. We removed DNA salts by adding 1.5 mL 75% ethanol and centrifuging for 5 min at 10,000 *g* and ambient temperature. The supernatant was removed directly by spilling. The "speed vac" was used to dry the samples before adding 100 µl of nuclease-free water for pellet resuspension. DNA quantity and quality were assessed using a Nanodrop (NanoDrop Technologies Inc., USA) and a 2100 BioAnalyzer System (Agilent Technologies, USA). Total bacterial load was assessed by quantitative PCR (q-PCR), with amplification of the V3 region of the 16S SSu rRNA from the bacterial domain (w49dir: 5’-CGGTCCAGACTCCTACGGG -3’; w34rev: 5’-TTACCGCGGCTGCTGGCAC-3’; Lee et al., 1996; Christman et al., 2011) using SYBR Green II (Jin et al., 1994). Quantification was performed on a Mx3000P v4.10 QPCR system (Agilent, 2015). The primer concentrations were 0.2 µM and the following cycling times were used: 95°C for 10 min, 40 x [denaturation at 95°C for 30 s, annealing at 60°C for 30 s, and extension at 72°C for 60 s] followed by a final step at 72°C for 20 min. DNA samples were dried in DNA-stable solution (ThermoFisher Scientific, USA) and sent to the McGill sequencing platform services (Montreal, Canada) for metabarcoding analysis. DNA libraries were prepared by amplifying the V4 region of the 16S SSU rRNA (16S\_515F: 5’-GTGYCAGCMGCCGCGGTAA-3’; 16S\_806rb: 5’-GGACTACNVGGGTWTCTAAT-3’) and multiplexed on a half-lane of a MiSeq 250-bp paired-end (PE) platform.

Reads quality was assessed before and after trimming with FastQC v0.11.8 (<https://www.bioinformatics.babraham.ac.uk/projects/fastqc/>) and MultiQC v1.6 (Ewels et al., 2016). We used the DADA2 algorithm (Callahan et al., 2016) implemented in QIIME v2.0.0 ([https://qiime2.org](https://qiime2.org/)) to cluster amplicon sequence variants (ASVs). We used the GreenGenes 13.8 (99%) database (DeSantis et al., 2006) to infer ASV taxonomy. Statistical analyses and representation were conducted with the *Phyloseq* v1.26.1 (McMurdie and Holmes, 2013) and *Vegan* v2.5-5 R packages (Oksanen et al., 2008).

## Results

We observed large variation in the total bacterial concentration in the algae tanks (assessed by q-PCR) across the duplicate experiments (Figure SI.2) and no significant differences among treatments (Kruskal-Wallis; df = 7; *P* = 0.2058). Our hypothesis that micro-PS could serve as vectors for specific bacteria of biofilms was also not verified in our experiment. Indeed, bacterial composition, assessed by the specific abundance of operational taxonomic units (OTUs) was not affected significantly by treatment (micro-PS *vs.* control; RDA; ANOVA; 1000 permutations; F = 0.34; *P* = 0.93; Fig. S3). Significant differences in bacterial communities, according to OTU abundance values, were only observed with time (T0 and T24; RDA; ANOVA; 1000 permutations; F = 15.98; *P* < 0.001) and among duplicate experiments (experiments 1, 2 and 3; RDA; ANOVA; 1000 permutations; F = 13.31; *P* < 0.001). Similarly, unweighted UniFrac values showed significant differences across each experiment (Permanova; 1000 permutations, q-value < 0.01), but not between treatments (Permanova; 1000 permutations; q-value > 0.05; Table SI.6). Cyanobacteria, Bacteriodetes and Proteobacteria were the most highly represented phyla in our samplings (Figure SI.4). *Flavobacteriaceae* was the most highly represented family in our T0 samples. After 24 h, we observed the same bacterial community variation among treatments (Control and MP): *Alteromonadaceae*, and *Saprospiraceae* and were the most highly represented families in our tanks. We identified some OTUs to the genus level in these families, including *Saprospira* (f. *Saprospiraceae*), *Muricauda* and *Winogradskyella* (f. *Flavobacteriaceae*), *Bacteriovorax* (f. *Bacteriovoraceae*) and, finally, *Alteromonas*, *Glaciecola*, and *Marinobacter* (f. *Alteromonadaceae*).

**Figure S2.** Boxplot of total bacterial quantity expressed in number of bacteria/ml in the different treatments (control, 0.25, 2.5 and 25 µg L-1), following the samplings at T0 and T24 (Kruskal-Wallis; df = 7; *P* = 0.2058). Quantified by q-PCR.



**Figure S3.** Relative OTU representation among variables (treatment, time, experiment) (R² = 0.37; *P* < 0.0001). Significant differences in the bacterial community were only assessed between time points (T0 and T24; RDA; ANOVA; 1000 permutations; F = 15.98; *P* < 0.001) and among duplicate experiments (Experiments 1, 2 and 3; RDA; ANOVA; 1000 permutations; F = 13.31; *P* < 0.001).

**Table S7.**

Statistical analysis of the treatment effects on the unweighted UniFrac values. The values in Group 1 and Group 2 represent microplastic concentrations.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Group 1** | **Group 2** | **Sample size** | **Permutations** | **pseudo-F** | ***P*-value** | **q-value** |
| 0.25 | 2.5 | 24 | 999 | 0.17 | 0.993 | 1 |
| 0.25 | 25 | 24 | 999 | 0.48 | 0.804 | 1 |
| 0.25 | Control | 24 | 999 | 0.21 | 0.99 | 1 |
| 2.5 | 25 | 24 | 999 | 0.55 | 0.793 | 1 |
| 2.5 | Control | 24 | 999 | 0.02 | 1 | 1 |
| 25 | Control | 24 | 999 | 0.51 | 0.823 | 1 |

**Figure S4.** Metabarcoding taxonomic results on families at T0 and T24 among treatments and time. Bacterial composition was significantly affected by time (RDA; ANOVA; 1000 permutations; F = 15.98, *P* < 0.001) but not by treatment.

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