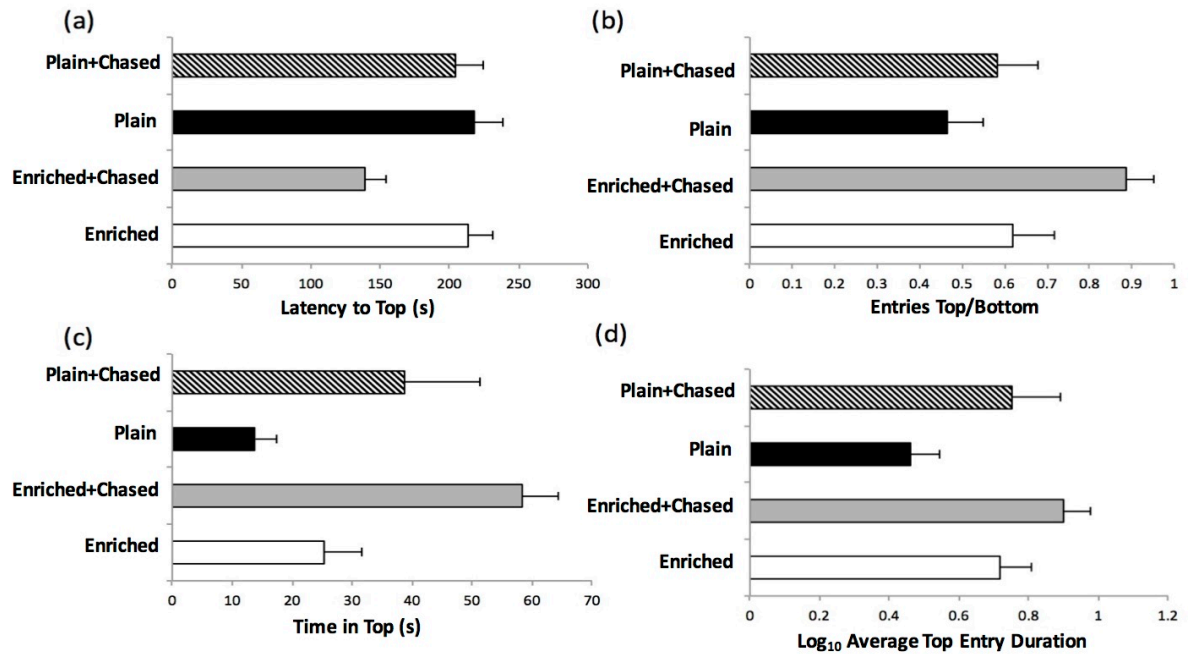Figure 1 SM.



Differences in behaviours between juveniles from different treatments in the novel tank diving test. (a) Latency to top, (b) Entries in top/bottom, (c) Time in top and (d) Log10 Average top entry duration.

Table 1 SM: Summary of behaviours measured for juvenile fish in the novel tank diving test. Adapted from Cachat et al. [34].

| Behaviour (units) | Increasing value indicates |
| --- | --- |
| Latency to enter the top (s) | Lower anxiety levels |
| Ratio of entries to top/bottom | Lower anxiety levels |
| Time spent in top (s) | Lower anxiety levels |
| Average top entry duration (s) (time spent in the top divided by the number of entries to the top) | Lower anxiety levels |
| Freezing duration (s) | Higher anxiety levels |
| Movement rate (number of grid lines crossed/min) | Lower anxiety levels |

Table 2 SM: Comparison of behaviours in juvenile fish during the novel tank diving test.

* Indicates significant difference.

| | Enrichment | | Chasing | |
|---|---|---|---|---|
| | **Mean ± SE (Enriched)** | | **Mean ± SE (Chasing)** | |
| | **Mean ± SE (Plain)** | **F-value; P-value** | **Mean ± SE (No-Chasing)** | **F-value; P-value** |
| **Latency to enter top (s)** | 176.33 ± 13.15 <br> 211.16 ± 14.26 | $F_{1, 68} = 3.51$; P = 0.06 | 215.73 ± 13.49 <br> 171.76 ± 13.57 | $F_{1, 68} = 5.60$; P = 0.02* |
| **Number of entries top/bottom** | 0.75 ± 0.06 <br> 0.52 ± 0.06 | $F_{1, 68} = 6.89$; P = 0.01* | 0.54 ± 0.07 <br> 0.73 ± 0.06 | $F_{1, 68} = 4.88$; P = 0.03* |
| **Time in top (s)** | 41.83 ± 5.14 <br> 26.22 ± 6.84 | $F_{1, 68} = 3.89$; P = 0.05* | 19.51 ± 4.77 <br> 48.55 ± 6.11 | $F_{1, 68} = 13.44$; P < 0.01* |
| **Top entry duration (s)** | 7.81 ± 1.49 <br> 10.05 ± 5.92 | $F_{1, 68} = 4.00$; P = 0.05* | 4.35 ± 0.63 <br> 13.51 ± 5.98 | $F_{1, 68} = 5.48$; P = 0.05* |
| **Freezing duration (s)** | 48.57 ± 8.86 <br> 92.99 ± 14.74 | $F_{1, 68} = 6.71$; P = 0.01* | 83.81 ± 11.73 <br> 57.75 ± 13.29 | $F_{1, 68} = 2.31$; P = 0.13 |
| **Movement rate (lines/min)** | 35.06 ± 1.87 <br> 30.82 ± 2.50 | $F_{1, 68} = 1.88$; P = 0.18 | 30.41 ± 2.25 <br> 35.46 ± 2.14 | $F_{1, 68} = 2.66$; P = 0.11 |