图示, 工程绘图

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**Figure 1**. Experimental apparatus for testing fish personality. The device was divided into 3 parts: A is a cuboid dark area (length×width×height = 50cm×21cm×15cm), equipped with a black opaque lid (E) and an opaque baffle (D); B is a hexagon lit area (side length = 21cm); C is a lit area with the same shape as A.

**图示

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**Figure 2**. Experimental apparatus for testing swimming performance. A is the rectifier; B is the wire mesh; C is the propeller; D is the swimming test area (50cm×10cm×10cm); The frequency converter controls the motor, and the motor controls the three-blade propeller to create water flow, and the water circulates in the oval swimming tank, and the direction of the blue arrow is the direction of the water flow.

图表, 散点图

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**Figure 3.** The relationship between frequency and velocity.

Control the speed of water flow by adjusting the frequency of the inverter of the device of swimming performance test.

图片包含 雪, 飞机, 卡车, 大

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**Figure 4.** The 21 landmarks used for examination of lateral body shape (boldness depicted). 1. Snout tip; 2. Upper snout end; 3. Upper head end; 4. Dorsal origin; 5-6. Dorsal rhomboid primitive spikes; 7. Origin of dorsal fin base; 8. Highest point of dorsal fin; 9. Base end of dorsal fin; 10. Dorsal origin of caudal fin; 11. Upper lobe terminal of caudal fin; 12. Deepest part of the caudal fin; 13. Lower lobe terminal caudal fin; 14. Ventral origin of caudal fin; 15. Origin of anal fin; 16. Origin of pelvic fin; 17. End of pectoral fin; 18. Origin of pectoral fin; 19. Lower head end; 20. Base of operculum; 21. Lower snout end.

**图表

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**Figure 5**. Swimming performance of individual differences. Blue and red represented bold sturgeon and shy sturgeon respectively; FS and SS represented the first and second swimming performance test respectively. A was the critical swimming speed, B was the swimming fatigue time (endurance), and C was the fatigue recovery time.

图表, 雷达图

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图表, 雷达图

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**Figure 6**. Changes in the proportion of time spent in swimming state and the tail beat frequency with different personalities. Blue, red and yellow represented 1BL/s flow rate, 2BL/s flow rate and 3BL/s flow rate, respectively. Figure A showed the time proportion of swimming state of sturgeon with two personalities at different flow velocity. Figure B showed the tail beat frequency of two personalities at different flow velocity.

**图表, 条形图, 箱线图

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**Figure 7.** Physiological changes in different personalities. 0h, 3h and 24h are the fatigue recovery time of the test Siberian sturgeon; Glu, LD, TP are the concentration of glucose, lactic acid and total protein in the blood respectively.

**![图表

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**Figure** **8.** Grid deformation and variation visualization of morphological features of bold (a) and shy (b) test Siberian sturgeon .