**Supplementary information for**

**Effects of microplastics on immune responses of the yellow catfish *Pelteobagrus fulvidraco* under hypoxia**

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**Figure S1.** The fitting results of TNF-α and HIF-1α by unary function.

**Figure S2.** The residuals of each fitting values of Y by unary function.

**Figure S3.** The fitting results of TNF-α and HIF-1α by sine function.

**Figure S4.** The residuals of each fitting values of Y by sine function.

**Figure S5.** The fitting results of TNF-α and HIF-1α by logarithmic function.

**Figure S6.** The residuals of each fitting values of Y by logarithmic function.



**Fig. S1**

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**Fig. S2**

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**Fig. S3**

**Fig. S4**

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**Fig. S5**

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**Fig. S6**

**Table S1.** Comparison of fitting degree between unary function, sine function and logarithmic function by Akaike Information Criterion (AIC) and Bayesian Information Criterion (BIC). The lower values of AIC and BIC, the better the fitting degree is.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Unary Function | Sine Function | Logarithmic Function |
| Akaike Information Criterion (AIC) | **-4.42** | 4.86 | 1.15 |
| Bayesian Information Criterion (BIC) | **-3.46** | 4.31 | 0.61 |