

Supporting Information

Ion transport and metabolic regulation induced by nanoplastic toxicity in gill of *Litopenaeus vannamei* using proteomics

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Table S1. Sequences of primers used for RT-qPCR analysis.

Primer	Sequences (5'–3')	GenBank No.
<i>NKA-F</i>	CCCCTGAGAGGATCCTGGAA	HM626274.1
<i>NKA-R</i>	AGGTACGGGCAAACACGATT	
<i>CA-F</i>	TTGCTGGGGGAATGTCACTC	HM991703.2
<i>CA-R</i>	CACAAGGCATCCTCCGAGTT	
<i>AMPK-F</i>	GGCTCAGGAACCTTCGGAAG	KP272116.1
<i>AMPK-R</i>	GACCACACATCCACCTCTGG	
<i>ABCT3-F</i>	CAGGATGACCTCTTCGTCGG	KX880378.1
<i>ABCT3-R</i>	GTGGATGTAGTAGTCGGCCG	
<i>NOS-F</i>	TCCCTATCATGGGCCCAAGA	GQ429217.1
<i>NOS-R</i>	TTCTGGTACACACACTCGGC	
<i>Trx-F</i>	ACCAAGTGAAAGACCAGGAAGA	EU499301.1
<i>Trx-R</i>	TTCTCAACGAGTTCGAGGAGC	
<i>HSP60-F</i>	ATAACTCCACGCCTGATC	FJ710169.2
<i>HSP60-R</i>	GCCAACAACACCAACGAA	
<i>HSP70-F</i>	ACTCAGCTCGAACTTACCC	AY645906.1
<i>HSP70-R</i>	ACCACCTACTCTGACAACCA	
<i>β-actin-F</i>	TCCATGCCCAGGAATGAG	AF300705.2
<i>β-actin-R</i>	GAGCAGGAGATGACCACCG	

Figure S1. (A) Fourier transform infrared spectroscopy analysis of PS; (B) dynamic light scattering of the PS dispersed in freshwater; (C,D): transmission electron microscopy image of PS (scale bars: 50 nm, 500 nm); (E, F): scanning electron microscopy image of PS (scale bars: 100 nm, 200 nm).

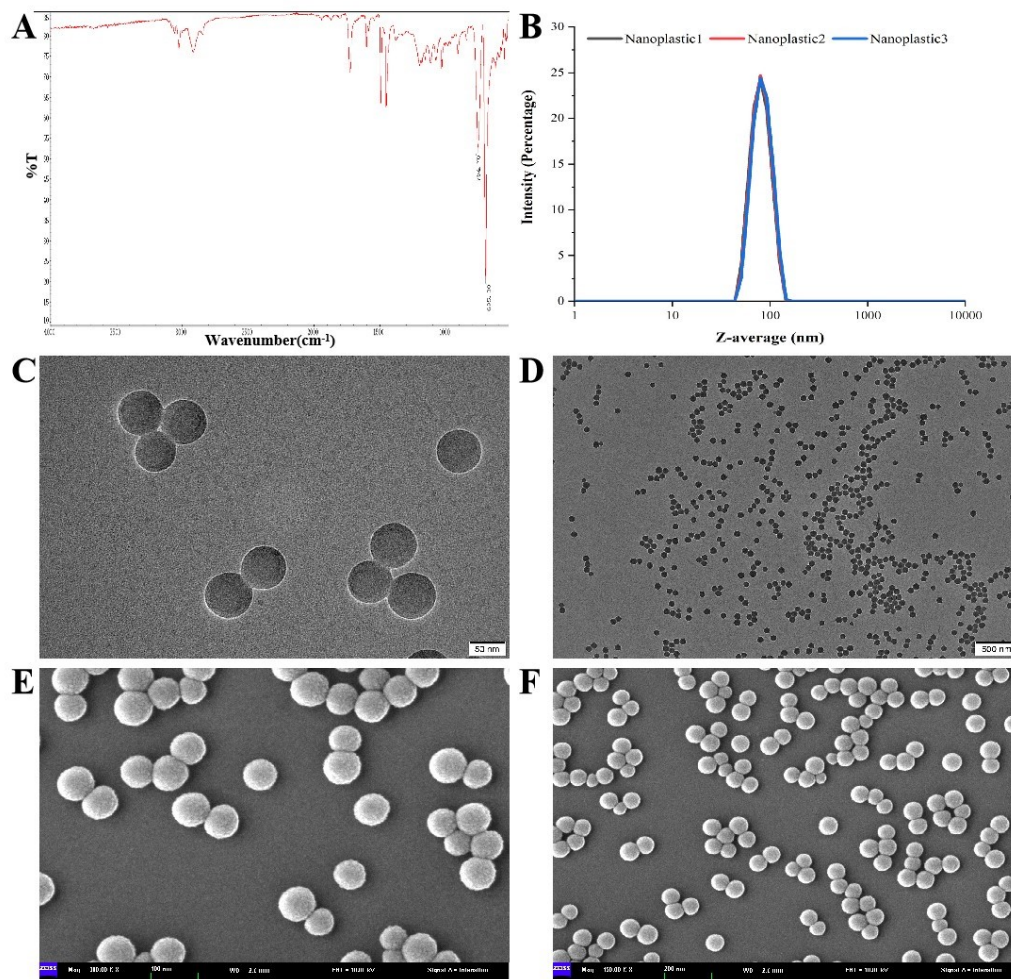


Figure S2. Identified DEPs and cluster analysis results. (a) Principal component analysis of the Lv1 and Lv0 groups. (b) Volcano plot of the DEPs between the Lv1 and Lv0 groups. (c) DEP statistics. (d) Clustering of the DEPs. The proteins presented a 1-fold change (Lv1 vs. Lv0). Up- and downregulated DEPs are indicated in red and blue, respectively.

