

Table s1. Effects of stressors on the antioxidant capacity of decapoda crustaceans. ↓: decrease activity; ↑: increase activity.

species	Treatment	Changes in antioxidant enzyme activity	Duration	Growth stage	Tissue	Reference
<i>Eriocheir sinensis</i>	Hypoxia	SOD↑ CAT↑ T-AOC↑ MDA↑	24h	Juvenile	Gill, Muscles and hepatopancreas	[1]
	salinity	SOD↑CAT↑ T-AOC↑ GSH-Px↑ MDA↑	72h	Female adult	hepatopancreas	[2]
	cadmium	SOD↑↓ CAT↑↓ GSH-Px↑↓ MDA↑ H2O2↑	6d	adult	hepatopancreas	[3]
	ammonia	SOD↑↓ CAT↑↓ GSH-Px↓	24h	Juvenile	hepatopancreas	[4]
	saline-alkali	SOD↑↓ CAT↑↓ T-AOC↑↓ MDA↑	96h	Juvenile	hepatopancreas	[5]
	abamectin	MDA↑8-OHDG↑	24h	adult	hepatopancreas	[6]
<i>Litopenaeus Vannamei</i>	hypoxia	SOD↑↓ CAT↑↓ GSH-Px↑↓ MDA↑↓	24h	Juvenile	gill, hepatopancreas and hemolymph	[7]
	low temperature and air exposure	SOD↑↓CAT↑↓GSH-Px↑↓TAOC↑↓ MDA↑↓	24h	Juvenile	hepatopancreas and hemolymph	[8]
	<i>Vibrio parahaemolyticus</i>	SOD↓ GSH-Px↓ MDA↑	72h	Juvenile	serum	[9]
	aflatoxin B1	SOD↑↓CAT↑↓GSH-Px↑↓ MDA↑	30 d	Juvenile	Intestines and hepatopancreas	[10]
<i>Penaeus monodon</i>	<i>Vibrio parahaemolyticus</i>	SOD↑↓ CAT↓GSH-Px↑↓MDA↑↓	24h	Juvenile	Gill and hepatopancreas	[11]
	desiccation	SOD↑↓ CAT↓GSH-Px↑↓MDA↑	3h	Juvenile	hepatopancreas	[12]
<i>Procambarus clarkii</i>	acute hypoxia	SOD↑↓CAT↑↓GSH-Px↑↓	13h	adult	hepatopancreas	[13]
	polystyrene microplastics (PS)	SOD↑CAT↑GSH-Px↑↓ MDA↑	48h	Juvenile	hepatopancreas	[14]

	coppe (Cu)	SOD↑CAT↑GSH-Px↑↓ MDA↑↓				
	PS and Cu	SOD↑CAT↑↓GSH-Px↑↓ MDA↑↓				
	thermal stress	SOD↑↓CAT↑↓ T-AOC↑↓ MDA↑↓	96h	Juvenile	hepatopancreas	[15]
	silicone	SOD↑CAT↑ MDA↑	72h	adult	gill, muscle and carapace	[16]
	deltamethrin	8-OHDG↑	96h	Juvenile	serum	[17]
<i>Charybdis japonica</i>	sulfide	SOD↑↓CAT↑↓	96h	adult	hemolymph	[18]
	bisphenol A	SOD↑↓CAT↑↓ GSH-Px↑↓ MDA↑	15d	adult	hepatopancreas and hemolymph	[19]
<i>Portunus trituberculatus</i>	cold acclimation	SOD↑CAT↑ MDA↑	21d	adult	muscle and hepatopancreas	[20]
	cadmium	SOD↑↓CAT↑↓ GSH↑↓	96h	juvenile		[21]
<i>Fenneropenaeus chinensis</i>	cadmium	SOD↑↓CAT↓ GSH↑↓	96h	juvenile		[21]
	white spot syndrome virus (wssv)	SOD↑↓CAT↑↓T-AOC↑↓	72h	juvenile	gill, muscles,plasma, stomach and hepatopancreas	[22]

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