**Table S2. Effects of phenol on the expression levels of CYP6 genes in 4th instar *Chironomus kiinensis* larvae during the 96-h exposure period**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Concentration** | **Time** | **CYP6EV10** | **CYP6EW3** | **CYP6EV9** | **CYP6FX1** | **CYP6FY1** | **CYP6FW1** | **CYP6EY2** | **CYP6FV1** | **CYP6FV2** | **CYP6GB1** |
| **1 μM** | **6 h** | 11.28±0.92 | -8.32±0.36 | -0.31±0.02 | -0.31±0.04 | -8.21±0.55 | 1.78±0.66 | 0.27±0.07 | 12.60±1.20 | 1.84±0.71 | 15.00±0.88 |
| **12 h** | -5.31±0.30 | -8.29±0.14 | -4.32±0.37 | 6.57±0.27 | -4.07±0.07 | 9.51±1.49 | -1.60±0.32 | 18.72±1.95 | 14.20±0.38 | 20.74±0.06 |
| **24 h** | -2.78±1.16 | -17.98±2.31 | -15.73±0.68 | -12.43±0.93 | -0.38±0.08 | -2.78±0.17 | -1.74±0.10 | 12.08±0.28 | 1.78±0.54 | 3.31±0.47 |
| **48 h** | -4.75±0.12 | -1.90±0.97 | -17.54±0.35 | -10.80±0.52 | -8.77±1.31 | -1.99±0.19 | 6.16±0.27 | -1.84±0.99 | 7.43±0.41 | -2.44±0.52 |
| **72 h** | -4.89±0.75 | -6.35±1.08 | -11.83±0.99 | -14.43±0.13 | -17.49±0.49 | 0.81±0.11 | -0.49±0.04 | 10.75±0.45 | 1.44±0.20 | -0.85±0.02 |
| **96 h** | -5.01±0.14 | -6.59±1.33 | -2.67±0.39 | -14.26±0.13 | -18.24±0.86 | -1.56±0.91 | -1.37±0.72 | -0.83±0.13 | 3.57±0.38 | -1.83±0.18 |
| **10 μM** | **6 h** | -6.43±0.69 | -9.32±0.88 | -20.59±0.52 | -17.86±0.40 | -18.01±0.43 | -2.22±0.06 | -3.62±0.28 | -2.72±0.22 | 2.01±0.62 | 0.41±0.04 |
| **12 h** | -3.49±0.64 | -18.01±0.18 | -18.27±0.30 | -13.65±1.72 | 2.01±0.01 | 6.82±0.13 | -0.49±0.06 | 1.11±0.82 | 4.15±0.09 | 15.95±0.88 |
| **24 h** | -4.77±0.62 | -1.11±0.19 | -2.41±0.12 | -15.93±0.05 | -17.57±0.98 | -4.84±0.44 | 6.03±0.35 | 9.47±0.15 | 9.33±0.48 | 19.74±0.67 |
| **48 h** | -4.27±0.59 | -2.37±0.55 | -17.67±0.21 | 0.61±0.05 | 1.31±0.25 | 0.74±0.07 | 5.06±0.59 | 13.97±1.36 | 4.57±0.45 | 20.94±1.83 |
| **72 h** | -1.69±0.09 | -2.23±0.85 | 2.10±0.15 | -11.06±1.76 | 1.66±0.23 | -0.26±0.02 | 3.13±0.36 | 3.99±0.46 | 2.75±0.90 | 1.61±0.68 |
| **96 h** | -4.57±0.16 | -6.57±0.61 | -12.58±0.41 | -14.04±0.07 | -4.34±0.64 | -2.99±0.85 | 1.81±0.64 | 8.09±0.51 | 6.96±0.45 | -1.94±0.30 |
| **100 μM** | **6 h** | -7.23±0.63 | -10.86±3.01 | -20.49±0.75 | -14.06±1.03 | -3.08±0.39 | -8.05±0.74 | -2.02±0.27 | -3.19±0.55 | -0.65±0.07 | 12.25±0.04 |
| **12 h** | -5.18±0.25 | -2.75±0.69 | -12.67±1.79 | -14.53±0.57 | -0.72±0.05 | -1.43±0.58 | 4.44±0.75 | 11.60±1.46 | 5.66±0.48 | -0.92±0.06 |
| **24 h** | -4.02±0.18 | 2.77±0.10 | 1.00±0.67 | 1.27±0.06 | -0.93±0.11 | -4.72±0.61 | 7.59±0.52 | -1.27±0.28 | 7.01±0.55 | 5.49±0.34 |
| **48 h** | -1.23±0.79 | -2.87±0.48 | -18.96±0.92 | -8.94±0.03 | -11.57±4.99 | -1.01±0.64 | 4.23±0.40 | -1.60±0.16 | 7.10±0.18 | -2.54±0.71 |
| **72 h** | 4.02±0.03 | -2.81±0.76 | -0.96±0.03 | -0.50±0.07 | -11.61±1.09 | -1.20±0.10 | 5.25±1.21 | -5.26±0.04 | 2.78±0.52 | 14.04±0.87 |
| **96 h** | -5.17±0.77 | -10.07±1.24 | -16.37±0.91 | -15.55±6.30 | -8.55±0.94 | -3.92±0.25 | -1.30±0.58 | -5.89±0.17 | -0.38±0.03 | -2.51±0.24 |
|  | | | | | | | | | | | |