

Supplementary Materials: Transcriptome Analysis of the Immune Process of Golden Pompano (*Trachinotus ovatus*) Infected with *Streptococcus agalactiae*

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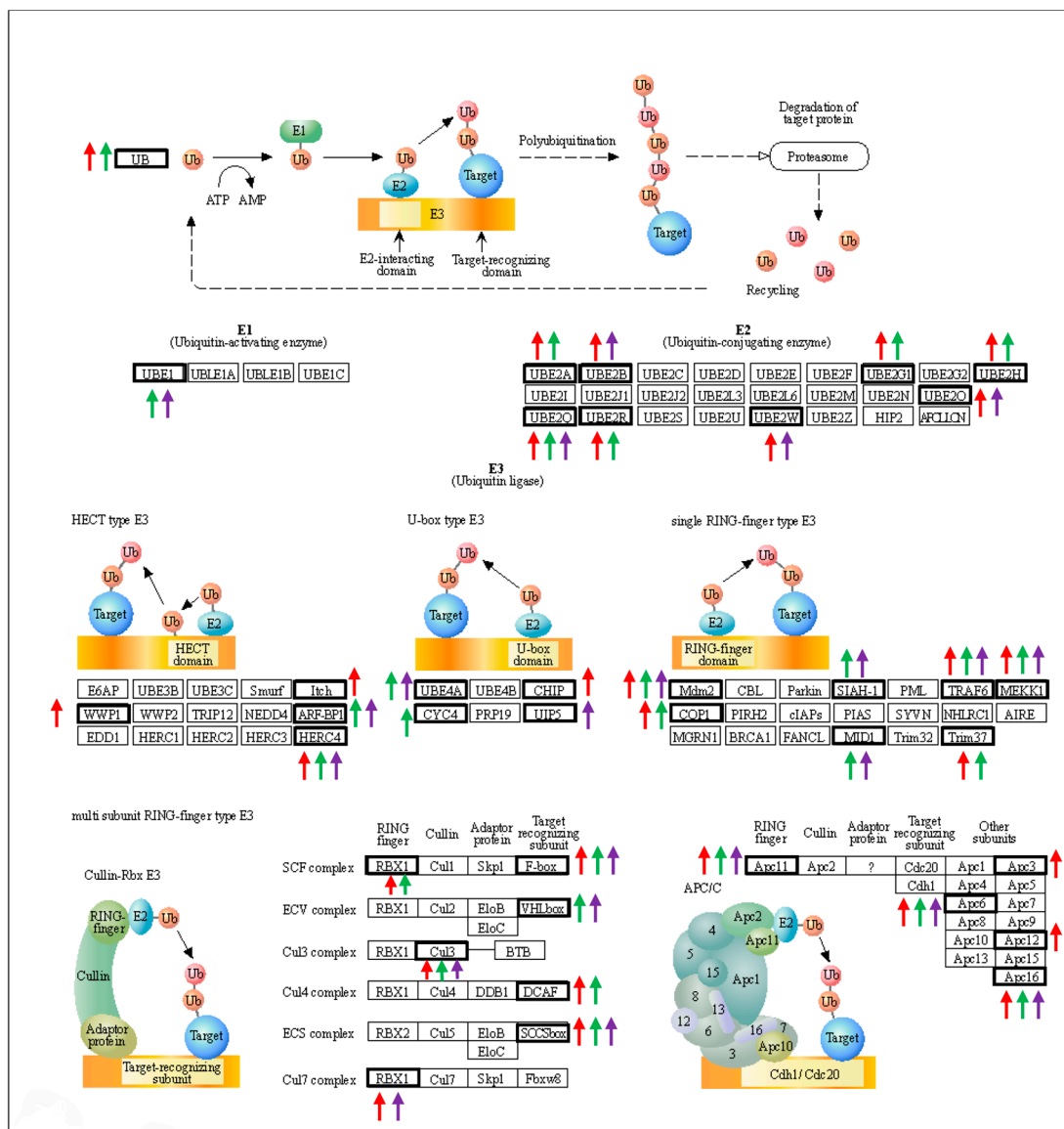


Figure S2. The Changes of hepatic ubiquitin-mediated proteolysis at 96 h of infection. Red, green and purple arrows indicate genes increased in liver, spleen and head kidney, respectively.

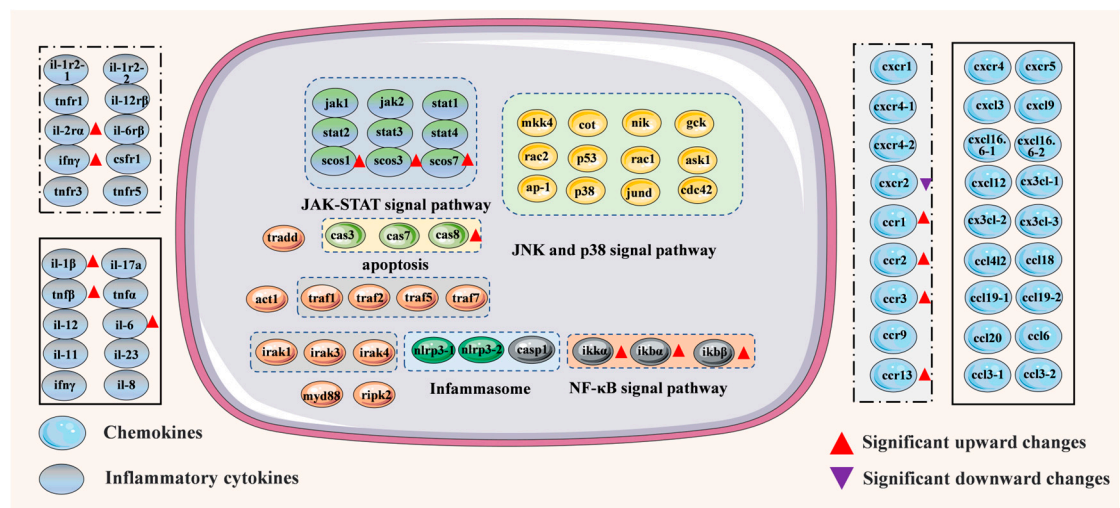


Figure S3. Illustrated overview of the inflammatory response in the golden pompano.

96 h

**Head
kidney**

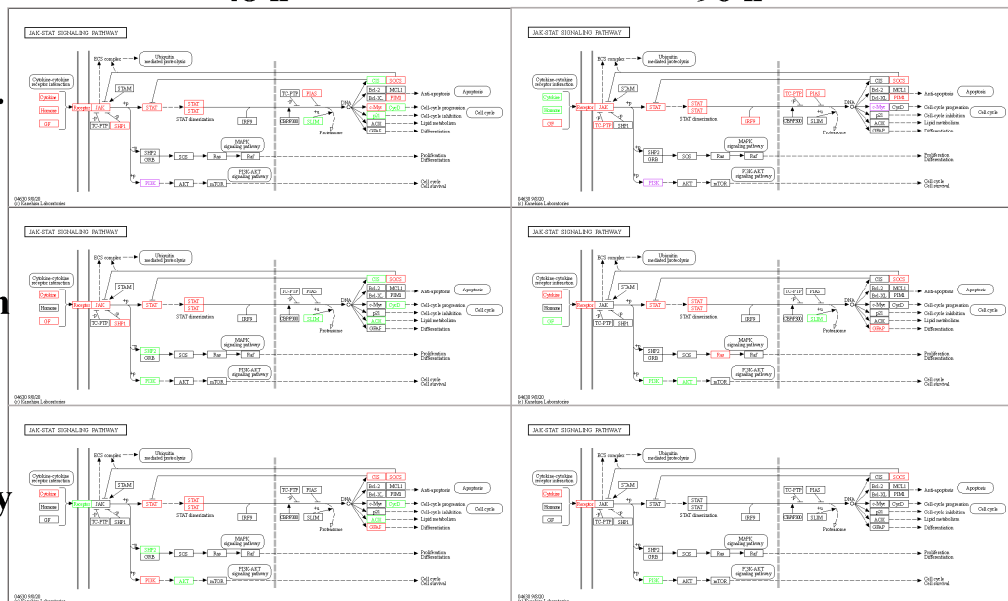


Figure S4. Changes in JAK-STAT signaling pathway at different time points after infection. Red boxes indicate genes with increased expression; Green boxes indicate genes with reduced expression; Purple boxes indicate genes whose expression is uncertain.

Table S1. Disembarkation data.

Sample	Reads No.	Bases (bp)	Q30 (bp)	N (%)	Q20 (%)	Q30 (%)
L_0h_1	39676608	5951491200	5607981841	0.001981	97.8	94.22
L_0h_2	41292022	6193803300	5853270194	0.00198	97.92	94.5
L_0h_3	42934994	6440249100	6101225698	0.000419	98.12	94.73
L_48h_1	41360092	6204013800	5856722232	0.001994	97.86	94.4
L_48h_2	48428598	7264289700	6857823411	0.002054	97.85	94.4
L_48h_3	53730328	8059549200	7648608671	0.000422	98.07	94.9
L_120h_1	43540034	6531005100	6170911247	0.002054	97.89	94.48
L_120h_2	46592402	6988860300	6597987025	0.001981	97.86	94.4
L_120h_3	52789260	7918389000	7492303157	0.00076	98.06	94.61
S_0h_1	47685276	7152791400	6734254870	0.002025	97.71	94.14
S_0h_2	45760068	6864010200	6454451025	0.001988	97.64	94.03
S_0h_3	48411046	7261656900	6830617546	0.000418	97.76	94.06
S_48h_1	41081800	6162270000	5799023198	0.001983	97.71	94.1
S_48h_2	47026060	7053909000	6645418380	0.001967	97.73	94.2
S_48h_3	47386166	7107924900	6707249476	0.000752	97.86	94.36
S_120h_1	38767690	5815153500	5462583776	0.001977	97.58	93.93
S_120h_2	44228828	6634324200	6220086399	0.001988	97.5	93.75
S_120h_3	44661820	6699273000	6304585232	0.000753	97.73	94.1
K_0h_1	40243318	6036497700	5657818109	0.001994	97.51	93.72
K_0h_2	44653136	6697970400	6286477924	0.001917	97.58	93.85
K_0h_3	42451546	6367731900	6003742574	0.000756	97.83	94.28
K_48h_1	40374500	6056175000	5704413388	0.001996	97.71	94.19
K_48h_2	43262788	6489418200	6109281693	0.002009	97.71	94.14
K_48h_3	47852690	7177903500	6758383972	0.00075	97.79	94.15
K_120h_1	43226452	6483967800	6113049947	0.002017	97.74	94.27
K_120h_2	47072796	7060919400	6654394249	0.00197	97.74	94.24
K_120h_3	41473580	6221037000	5861696101	0.000752	97.83	94.22

L0 h~120 h, S0 h~120 h and K 0 h~120 h represented the samples of liver, spleen and head kidney at 0, 48, and 120 h post-injection of *Streptococcus agalactiae*, respectively.

Table S2. Data filtering statistics.

Sample	Clean Reads No.	Clean Data (bp)	Clean Reads %	Clean Data %
L_0h_1	36764982	5514747300	92.66	92.66
L_0h_2	38252016	5737802400	92.63	92.63
L_0h_3	40154812	6023221800	93.52	93.52
L_48h_1	38254420	5738163000	92.49	92.49
L_48h_2	44733368	6710005200	92.36	92.36
L_48h_3	49753466	7463019900	92.59	92.59
L_120h_1	40072692	6010903800	92.03	92.03
L_120h_2	43236278	6485441700	92.79	92.79
L_120h_3	48831400	7324710000	92.5	92.5
S_0h_1	43909038	6586355700	92.08	92.08
S_0h_2	42313106	6346965900	92.46	92.46
S_0h_3	45266726	6790008900	93.5	93.5
S_48h_1	37719350	5657902500	91.81	91.81
S_48h_2	42792586	6418887900	90.99	90.99
S_48h_3	44273978	6641096700	93.43	93.43
S_120h_1	35432678	5314901700	91.39	91.39
S_120h_2	40217176	6032576400	90.92	90.92
S_120h_3	41729568	6259435200	93.43	93.43
K_0h_1	36873200	5530980000	91.62	91.62
K_0h_2	40791116	6118667400	91.35	91.35
K_0h_3	39570698	5935604700	93.21	93.21
K_48h_1	37073164	5560974600	91.82	91.82
K_48h_2	39396582	5909487300	91.06	91.06
K_48h_3	44493376	6674006400	92.97	92.97
K_120h_1	39505048	5925757200	91.39	91.39
K_120h_2	43325542	6498831300	92.03	92.03
K_120h_3	38727706	5809155900	93.37	93.37

L0h~120h, S0h~120h and K0h~120h represented the samples of liver, spleen and head kidney at 0, 48, and 120 h post-injection of *Streptococcus agalactiae*, respectively.