

Table S1: Cytokine-induced activation of STAT factors.

Subfamily	Teleost Cytokine	Cognate Receptor(s)	Function	Activated STATs
<i>Fish Type II cytokines biological interactions</i>				
IL-2 subfamily	IL-2	IL-2R β 1/2, IL-2/15Ra	Differentiation and homeostasis of T-cells	STAT5 STAT3
	IL-4/13	IL-4Ra1/2, IL-13Ra1a/ 1b		
	IL-7	IL-7Ra		
	IL-15	IL-2/15Ra		
	IL-21	IL-21Ra1 IL-21Ra1		
β -chain cytokine subfamily	IL-3	IL-3R β / IL-3R α	Unknown in fish	STAT5 STAT3
	IL-5	IL-3R β / IL-3R α		
	GM-CSF	GM-CSFR		
IL-6 sub-family	IL-6	IL-6R	Hematopoiesis	STAT3
	IL-11			
	CNTF-like M17			
IL-12 subfamily	IL-12	IL-12 R beta 1	Chemotaxis and induction of TNF- α expression	STAT4 STAT3/4 STAT1/3 STAT1/4
	IL-23	IL-12 R beta 2		
	IL-27	IL-23 R		
	IL-35	IL-27 R alpha		
		WSX-1 TCCR gp130		
Colony-stimulating factors	M-CSF	CSF-1R	Inflammation	STAT1 STAT3 STAT5 STAT6
<i>Fish β-trefoil cytokines</i>				
	IL-1 β	IL-1R1, IL-1R2, DIGIRR	Inflammatory response, chemokine production	STAT3
	IL-18	IL-18R1 and IL-18R2	IFN- γ production, Th1 immunity	STAT3
	nIL-1Fm	unknown	Unknown	unknown
<i>Type I α-helical cytokine</i>				
	IL-10, Viral IL-10	IL-10R1/CRFB12, IL-10R2/CRFB4	Inflammatory response, proliferation of T and B cells	STAT3
	IL-20L	IL-20R	Keratinocyte proliferation	STAT3
	IL-22	IL-22R1	Antibacterial and antimicrobial immunity	STAT1, STAT3, STAT5
	IL-26	IL-26R	Antibacterial and antimicrobial immunity	STAT1, STAT3, STAT5
	IFN-a, d, e	IFNAR1/CRFB5, IFNAR2/CRFB2	Apoptosis, inflammatory responds	STAT1, STAT3, STAT3
	IFN- γ	IFN- γ R1/CRFB13, IFN- γ R2/CRFB6	Phagocyte activation, Th1 cytokine expression	STAT1
	IFN- γ rel	CRFB17, IFN- γ R2/CRFB6	Regulation of antiviral and anti-bacterial immunity	STAT1
<i>B-jellyroll cytokines</i>				
	TNF- α 1	TNFR2, TNFR1	Phagocytic activity of leucocytes	STAT3
	TNF- α 2	TNFR2, TNFR1	T cell-mediated immunity	STAT3
	TNF-N	Unknown	Unknown	Unknown