

Garlanda C, Riva F, Bonavita E, Gentile S, Mantovani A. (2013). Decoys and Regulatory "Receptors" of the IL-1/Toll-Like Receptor Superfamily. *Front Immunol.* Jul 9;4:180.

Members of the IL-1 family play a key role in innate and adaptive immunity and in the pathogenesis of diverse diseases. Members of IL-1R like receptor (ILR) family include signaling molecules and negative regulators. The latter include decoy receptors (IL-1RII; IL-18BP) and "receptors" with regulatory function (TIR8/SIGIRR; IL-1RAcPb; DIGIRR). Structural considerations suggest that also TIGIRR-1 and IL-1RAPL may have regulatory function. The presence of multiple pathways of negative regulation of members of the IL-1/IL-1R family emphasizes the need for a tight control of members of this fundamental system.