



PIRAMID

PROTEIN INTERACTIONS
IN RATIONAL APPROACHES
FOR MEDICINAL
INNOVATIVE DRUGS

Protein-Protein Interaction IL-15



Context :

Cytokines are key mediators involved in the regulation of the normal immune response. Dysregulation of cytokine expression has a complex role in the pathogenesis of autoimmune diseases.

IL-15

IL-15R α binds to IL-15 with high affinity, retaining IL-15 on the surface of IL-15-producing cells. IL-15 is then **trans-presented to β / γ c dimeric receptors on nearby effector NK and T cells, participating to the immunological synapse.**

IL-15 uncontrolled expression would undeniably result in the induction of autoimmunity.

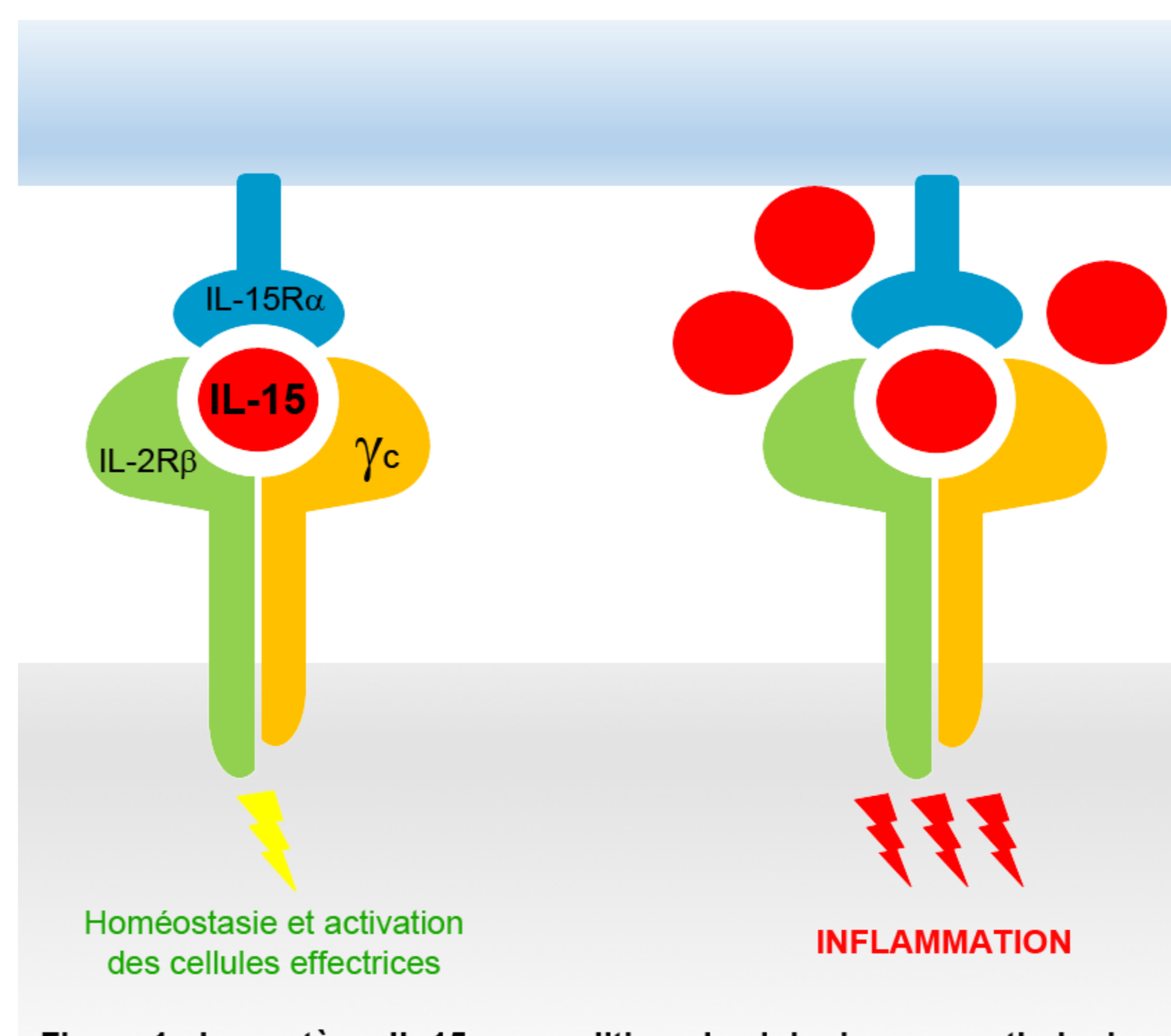


Figure 1 : Le système IL-15 en condition physiologique ou pathologique

Goals and ambitions :

The aim of this project is the **identification of low molecular weight chemical compounds capable of inhibiting the actions of IL-15 overexpressed in the context of autoimmune diseases.**

Resources :

2 PhD

1 post-doctoral

Laboratory **CEISAM**, Laboratory **CRCINA**, Laboratory **SONAS**, Laboratory **IMMM**.



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