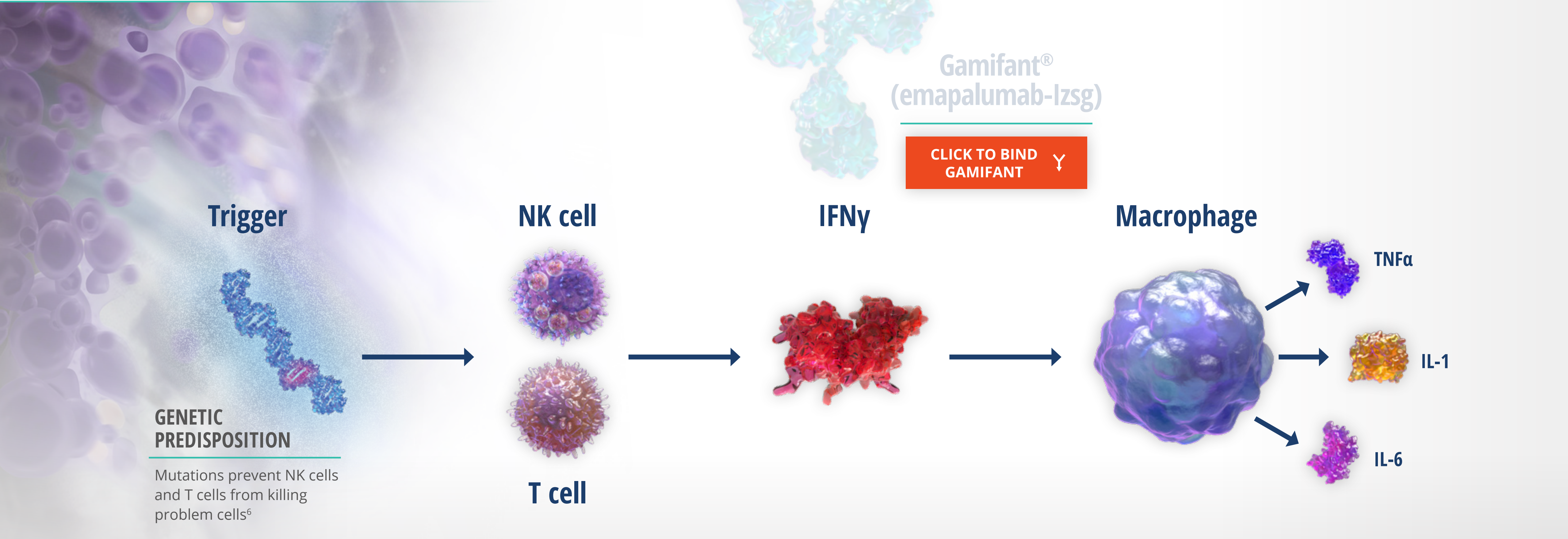


IMMEDIATE ACTION IS REQUIRED TO NEUTRALIZE IFN γ —

A central and upstream cytokine that induces hyperinflammation in primary HLH¹⁻⁵

Click on any element to see the role it plays in this rare and life-threatening disease.

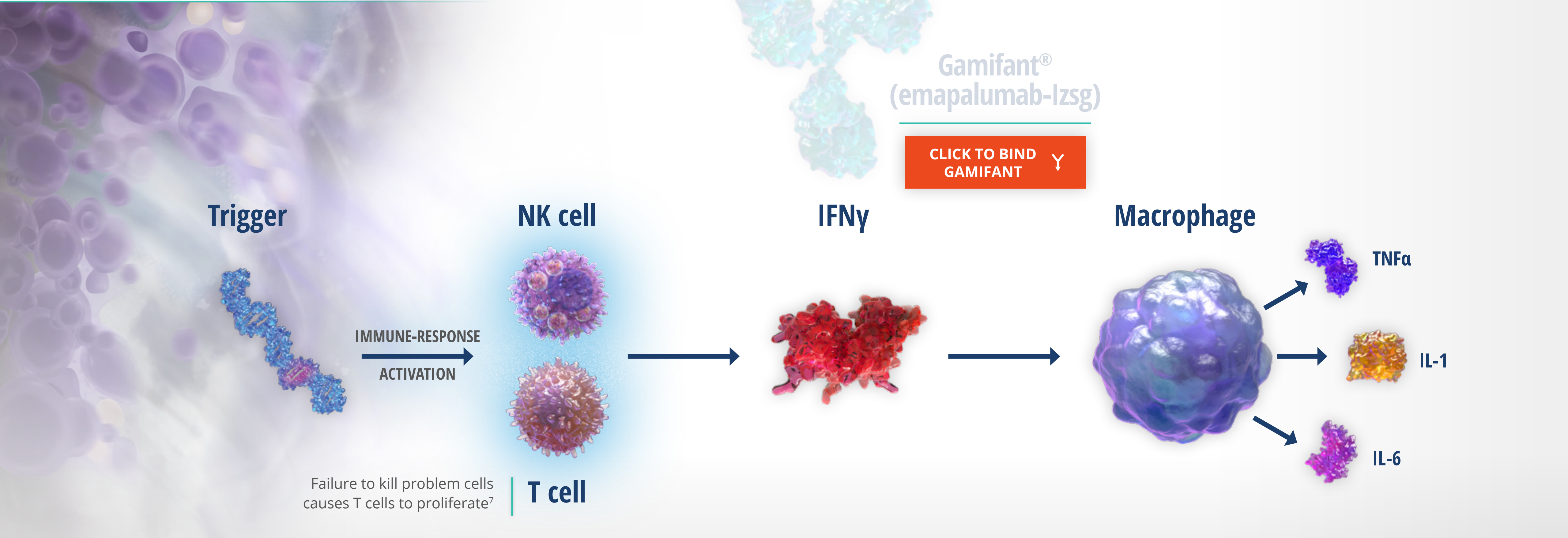


► In primary HLH, genetic mutations prevent perforin pore formation needed for cell lysis.⁶

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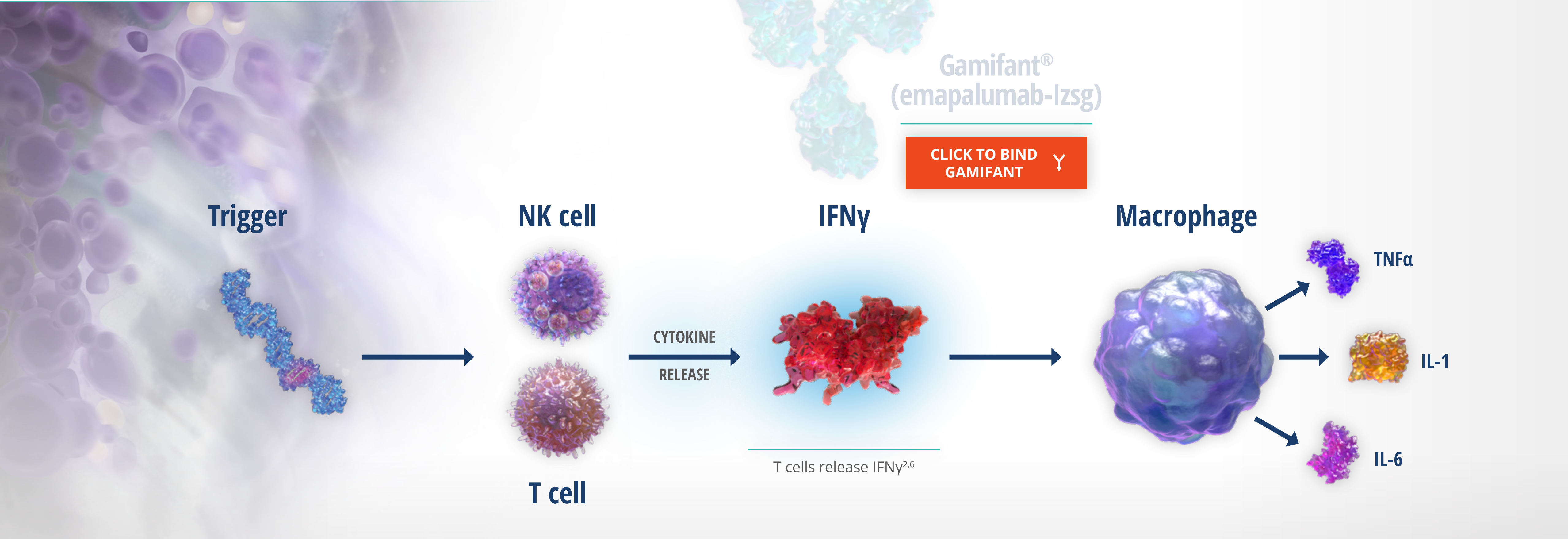


► The failure to kill antigen-presenting cells leads to the proliferation and hyperactivation of T cells.⁷

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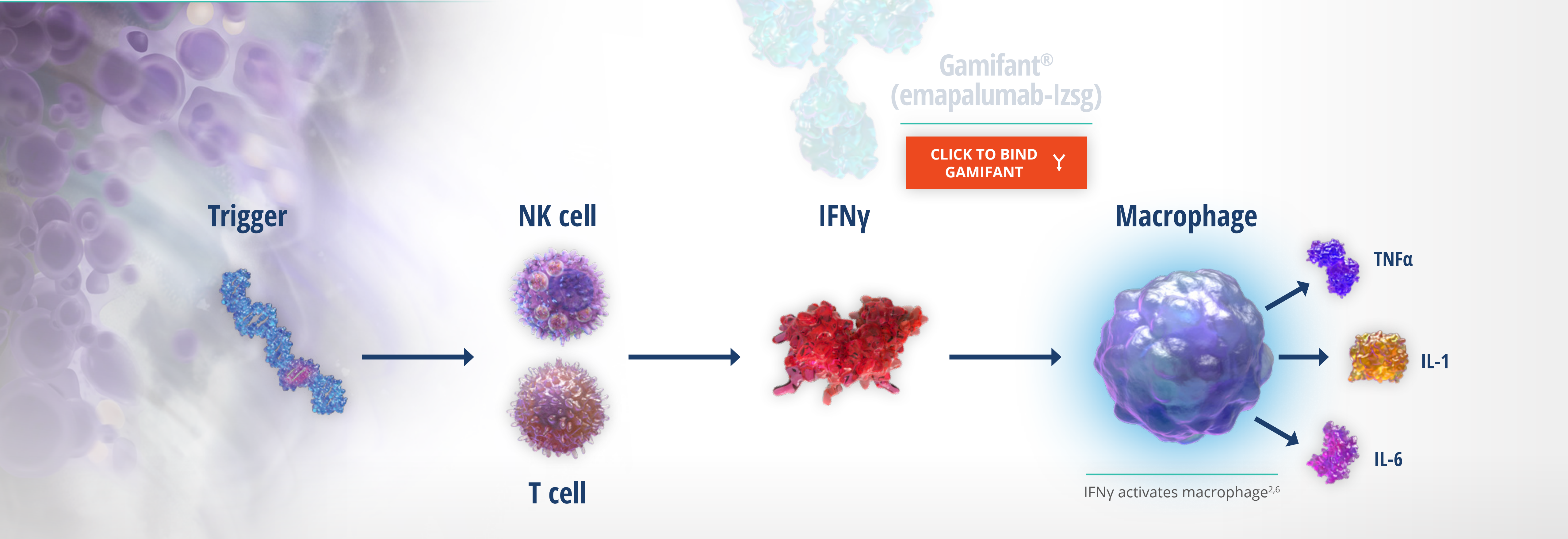


▶ Activated macrophages release even more T cells and inflammatory cytokines—most notably IFN γ .^{2,6}

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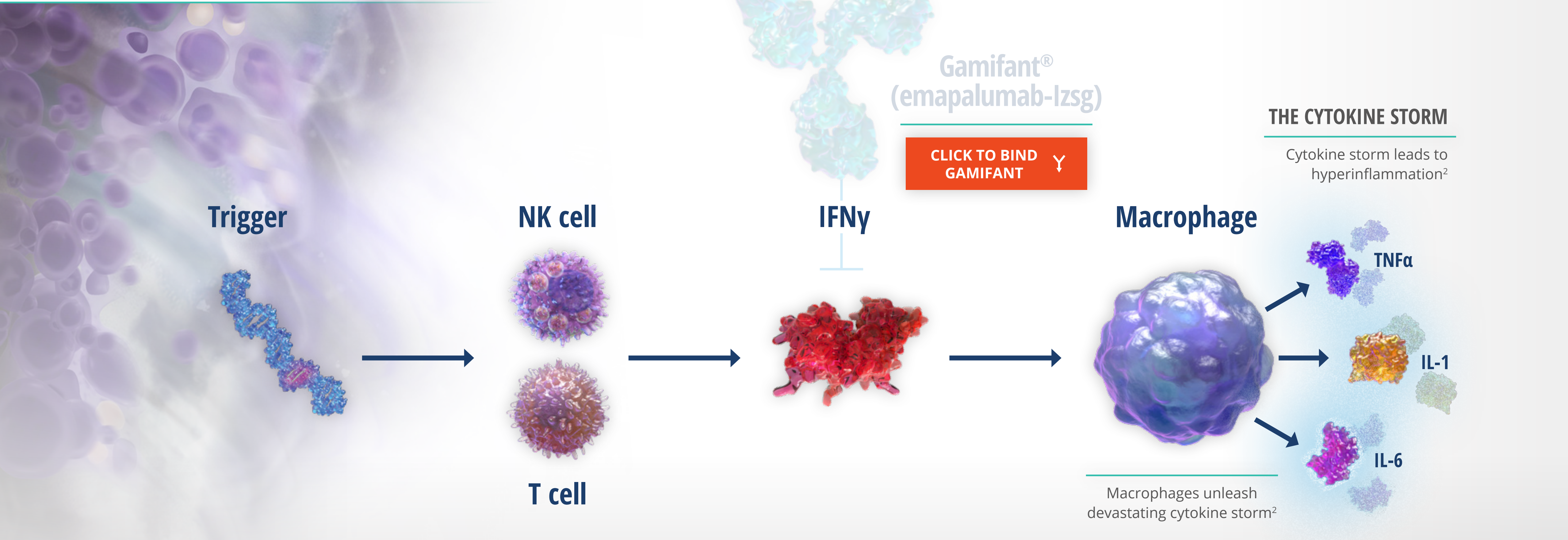


► Once IFN γ is released, it binds directly to the macrophage’s cell receptors.⁷

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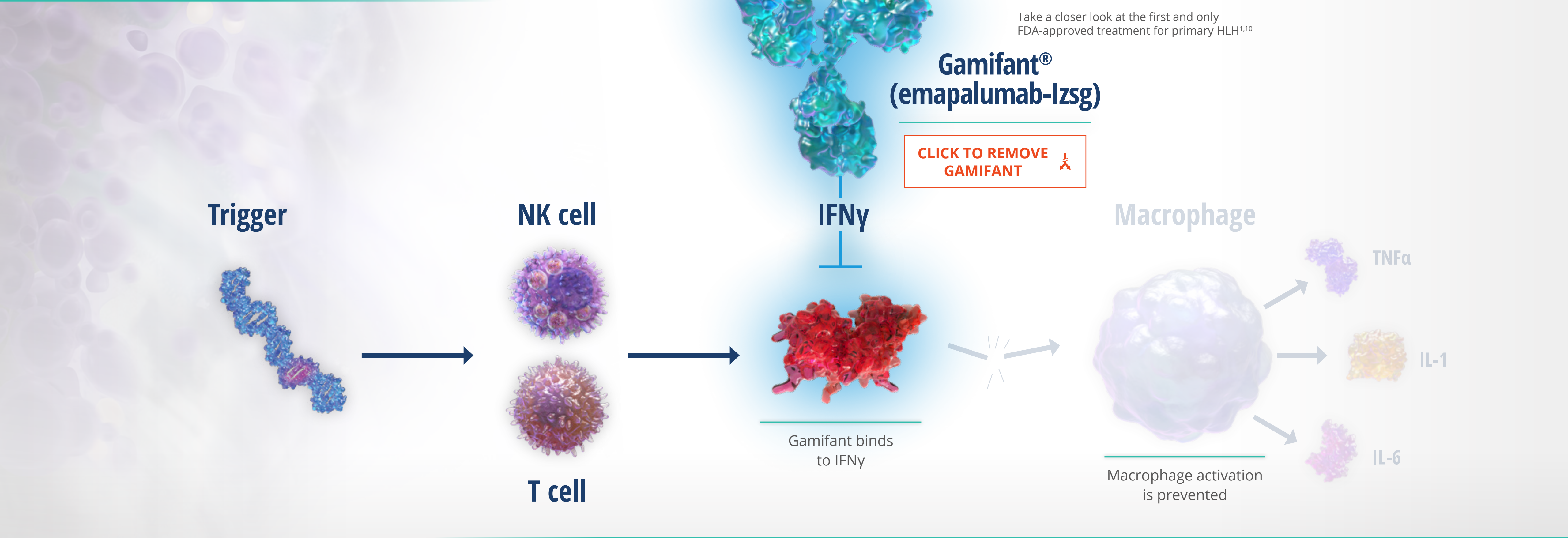


► The activated macrophage releases even more cytokines, including but not limited to tumor necrosis factor alpha, interleukin-1, and interleukin-6. This “cytokine storm” leads to the hyperinflammatory symptoms of primary HLH.²

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► Gamifant binds to IFN γ , inhibiting macrophage activation. As a result, the cytokine storm is subdued.¹