



The High Affinity IgE Receptor (FceRI) as a Target for Anti-allergic Agents

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Prevention of the effector cell activation via high affinity IgE receptor (Fc ϵ RI) is thought to be a straightforward strategy for suppressing the allergic reaction. Among the numerous methods to prevent the activation through Fc ϵ RI, three versions are described in this article. The first and second ideas involve inhibition of binding between Fc ϵ RI and IgE with a soluble form of the Fc ϵ RI α chain and a humanized antibody directed against the α chain, respectively. Both of these paths involve suppression the histamine release from human peripheral blood ba sophils in vitro. They also inhibited the allergic reaction in vivo. The soluble α inhibited the anaphylactic reaction in rodents and the Fab fragments of the humanized anti-Fc ϵ RI α chain antibody suppressed the dermal response in rhesus monkeys. The third idea involves repression of Fc ϵ RI expression by suppressing the transcription of the genes encoding the subunits of Fc ϵ RI. Although no plausible candidate molecule for actualizing this idea can be identified at present, further analyses of the transcriptional regulatory mechanisms in the human Fc ϵ RI α and α human genes will lead to the discovery of novel targets for developing anti-allergic agents.

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