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Control of allergic diseases by regulation of mast cell activation

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Abstract

Allergy is induced by the release of chemical mediators from mast cells. We identified novel immunoreceptors, Allergin-1 and MAIR-I, which inhibit the release of chemical mediators from mast cells. In this project, we will search novel inhibitory immunoreceptors expressed on human mast cells and clarify their role in the regulatory mechanism of allergic diseases. Furthermore, we will develop novel therapeutic approach targetting the inhibitory immunoreceptors on mast cells for allergic diseases.