

Special Issue

Molecular Mechanisms Underlying Glucocorticoid Insensitivity in Asthma

Message from the Guest Editor

Although in most patients with asthma, symptoms are well controlled by inhaled glucocorticoids (GCs), a subgroup of patients suffering from severe asthma respond poorly to GC therapy. Such GC insensitivity (GCI) represents a profound challenge in managing patients with asthma. Even though GCI in patients with severe asthma has been investigated by several groups using immune cells (peripheral blood mononuclear cells and alveolar macrophages), uncertainty exists regarding the underlying molecular mechanisms in non-immune cells. In asthma, airway structural cells are among the targets of GC therapy and have emerged as key contributors not only to bronchoconstriction, but also to airway inflammation and remodeling, as implied by experimental and clinical evidence. This issue aims to foster studies investigating the molecular mechanisms underlying the impairment of GC actions specifically in non-immune cells, such as airway structural cells.

Guest Editor

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