



Monoclonal Antibodies for Targeted Biological Treatment of Severe Asthma

Guest Editor:

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Message from the Guest Editor

Asthma is a chronic respiratory disorder consisting of usually variable bronchial obstruction and hyperresponsiveness. Several endotypes play a crucial role in the pathobiology of asthma, causing heterogeneous clinical manifestations. Within this context, many targets for biological treatment of severe asthma, such as immunoglobulins E (IgE), pro-inflammatory cytokines and their receptors, have been identified. Specifically, omalizumab (anti-IgE), mepolizumab (anti-IL-5), reslizumab (anti-IL-5), benralizumab (anti-IL-5 receptor) and dupilumab (anti-IL-4/IL-3 receptors) are available in clinical practice, providing excellent clinical and functional effects even in a real-life environment. Furthermore, other biologics that target innate cytokines, such as IL-33 and thymic stromal lymphopoietin (TSLP), are under development. The aim is implementing phenotype/endotype-specific treatments, in order to delineate a personalized therapeutic approach tailored on the patient and chosen on the basis of existing and emerging biomarkers.





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