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Current status of wheat allergy research and prospect

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Abstract

Wheat is one of important food crop in the world. However, wheat has some negative things that are allergen. Wheat includes four different allergen kwon as alpha-, beta- and gamma gliadin and amylase inhibitor. Recently, people are interesting to gluten free food or low gliadin food. To study about wheat allergies and research trend is important for future research like as wheat breeding and allergy reduction technology. In this study, we analyzed that the reported on the research field of wheat allergy have been reported until now, and was to provide direction for future research. The analysis of 235 episodes of major papers published from 2007 to 2016. The last 5 years from 2012, wheat allergy appears increasing number of related papers. The ratio of national papers 13% and 60% were published by the United States and other European countries, respectively. The fields of wheat allergen-related preclinical technology and wheat allergen related to genome research for discovery technology were represented high rate by 58% and 26%, respectively. In the case of Korea, significantly account genetic and breeding areas. Recently, however, the research of glutenin protein which is closely linked to wheat allergy is in progress. So, we expected to increase wheat allergy of the research is in the future in Korea.

Key words: Allergy, wheat, gluten, gliadin

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