

Interestingly, only 8 patients presented symptoms of apple allergy. Immunological analysis of Mal d 1 and Bet v 1 showed that diversity of allergenicity was determined mainly by the difference in allergen expression levels [8]. Bet v 1 homologs of loquat and Mal d 1 were also considered to have different expression levels. Further investigation of the differences between the properties of the Bet v 1 homolog of loquat and Mal d 1 is needed.

The limitations of this study included its small sample size, especially with respect to patients who experienced anaphylaxis. It is necessary to investigate more cases of anaphylaxis to loquat in order to determine the exact protein identities of possible allergens.

Our results indicated that the main allergen causing loquat allergy was a Bet v 1 homolog with a sequence similar to that of Mal d 1, but with a different immunoblot pattern. These findings may contribute to the development of improved prognostic and therapeutic tools for loquat allergy and loquat-related anaphylaxis.

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Conflicts of Interest

Kayoko Matsunaga belongs to an endowed department sponsored by Hoyu Co., Ltd. The remaining authors declare that they have no conflicts of interest.

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