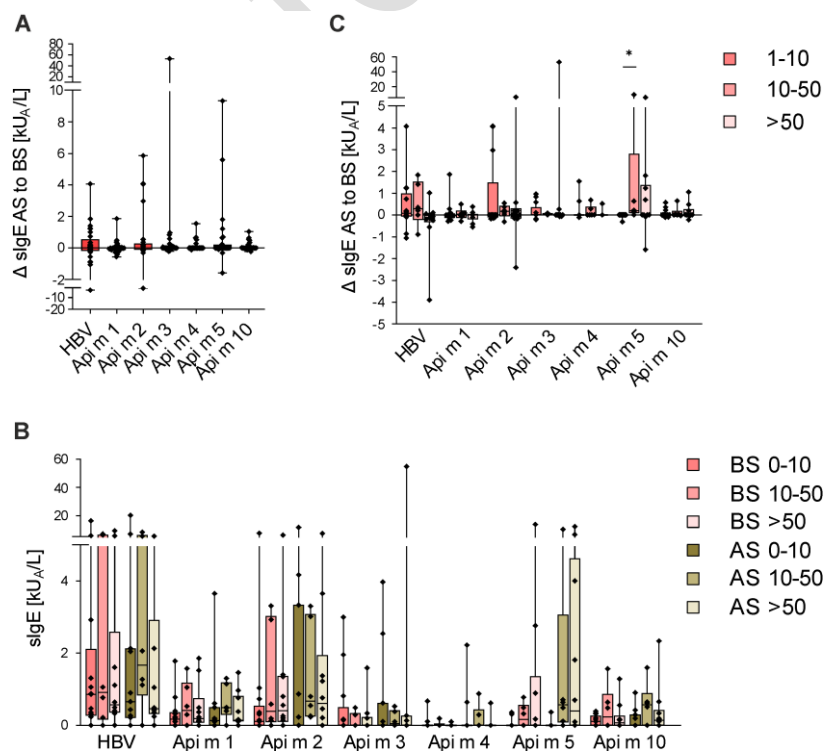


## SUPPLEMENTARY MATERIAL

**Figure S1.** Component-resolved IgE and responses in non-allergic beekeepers of cohort I. (A) Changes in HBV and allergen sIgE titers during the beekeeping season represented as calculated delta values. For the calculation, sIgE values below 0.1 kU<sub>A</sub>/L were considered non-detectable and counted as zero. Statistical analysis was performed using Kruskal-Wallis test. (B) HBV- and allergen sIgE levels before (BS) and after (AS) the beekeeping season in beekeepers reporting 0-10 (n=11), 10-50 (n=6), and >50 (n=10) honeybee stings during the season. Statistical analysis was performed for each allergen separately using Kruskal-Wallis test. (C) Changes in HBV- and allergen sIgE titers during the beekeeping season in beekeepers of the different sting frequency categories represented as calculated delta values. For the calculation, sIgE values below 0.1 kU<sub>A</sub>/L were considered non-detectable and counted as zero. Statistical analysis was performed for each allergen separately using Kruskal-Wallis test. AS, after season; BS, before season; HBV, honeybee venom.



**Figure S2.** Component-resolved IgE and responses in non-allergic beekeepers of cohort II. (A) HBV- and allergen sIgE levels after the beekeeping season (n=32). (B) Proportion of allergen sIgE titers normalized to the total HBV sIgE titer after the beekeeping season. The graph depicts the average proportion of individual allergens among all beekeepers. sIgE values below 0.1 kU<sub>A</sub>/L were considered non-detectable and counted as zero. HBV, honeybee venom.

