

Patient	Age	Sex	Symptoms after honey ingestion	Symptoms after royal jelly (RJ) ingestion	Previous honeybee sting	Symptoms related to pollinosis	SPT (mm)	PPT (mm)	CAP (kU/L)	Total IgE (kU/L)	Other allergies
1	13	M	anaphylaxis	no	no	rhinoconjunctivitis and asthma	Artemisia 8 x 5 Taraxacum 6 x 4	honey artisanal 7 x 6 industrial negative RJ artisanal negative	Artemisia 9.21 Art v 1 9.44 Art v 3 <0.35 rApi m 1, rApi m 5 and rApi m 10 <0.35 honey 3.5	111	no
2	32	F	hives, cutaneous pruritus, dyspnea	no	no	rhinoconjunctivitis and asthma	Artemisia 10 x14	Honey artisanal np industrial 12 x 8 RJ artisanal negative	Art v 1 29.10 Art v 3 <0.35 rApi m 1, rApi m 5 and rApi m 10 <0.35 honey 0.55	291	dog and cat danders, grass and <i>Cupressus pollens</i> , house mites
3	56	F	cutaneous and oral pruritus, sneeze dyspnea, facial erythema	no	no	no	Artemisia 5 x 7	Honey artisanal 4 x 4 industria 7 x 7 RJ artisanal negative	Art v 1 0.83 Art v 3 <0.35 honeybee venom <0.35 rApi m 1 <0.35 honey <0.35	27.6	no
4	44	F	oral pruritus, hives, dyspnea	no	local reaction	rhinoconjunctivitis	Artemisia 10 x 8	honey artisanal np industrial 8 x 8 RJ artisanal np	Artemisia 31.6 Art v 1 4.8 Art v 3 0.47 honeybee venom <0.35 rApi m 1 <0.35 honey 1.6	340	grass and <i>Cupressus pollens</i> , house mites, dog dander
5	30	F	angioedema and hives		local reaction	rhinoconjunctivitis	Artemisia 11 x 9 Taraxacum 9 x 7	honey artisanal 7 x 5 industrial negative RJ artisanal negative	Artemisia 8.72 Art v 1 2.13 Art v 3 <0.35 rApi m 1, rApi m 5 and rApi m 10 <0.35 honey <0.35	65.9	dog and cat danders, grass pollen, house mites
6	28	M	discomfort and abdominal pain	no	local reaction	rhinoconjunctivitis	Artemisia 4 x 4	honey artisanal negative RJ artisanal negative	Artemisia 0.66 Art v 1 and Art v 3 <0.35 honeybee venom <0.35 rApi m 1 np honey <0.35	48.2	grass and profilin
7	22	F	lip angioedema	no	no	rhinoconjunctivitis	Artemisia negative	honey industrial 3 x 3 RJ artisanal 4 x 4	Artemisia <0.35 Art v 1 and Art v 3 <0.35 honeybee venom <0.35 rApi m 1 <0.35 honey 0.65	328	grass

**Table 1.** Clinical data of the seven patients sensitized to the honey allergen around 50 kDa.

Abbreviations: SPT, skin prick testing (mean wheal in mm); PPT, prick-prick testing; CAP, specific IgE determination by the ImmunoCAP system; np, not performed.

**Table 2.** Results of the RP-LC-MS/MS analysis of the around 50-kDa allergen detected by the patients and the subsequent searching against the *Apis mellifera* reference proteome downloaded from the UniprotKB repository.

Protein Accession number	Sequence coverage (%)	Matched peptides	Average mass	Description
O18330 MRJP1_APIME	78	108	48886	Major royal jelly protein 1 OS=Apis mellifera OX=7460 GN=MRJP1 PE=1 SV=1
O77061 MRJP2_APIME	62	45	51074	Major royal jelly protein 2 OS=Apis mellifera OX=7460 GN=MRJP2 PE=1 SV=1
Q17060 MRJP3_APIME	38	23	61662	Major royal jelly protein 3 OS=Apis mellifera OX=7460 GN=MRJP3 PE=1 SV=1
tr Q9U8X5 Q9U8X5_APIME	33	19	55947	Alpha-amylase OS=Apis mellifera OX=7460 GN=406114 PE=2 SV=1
O97432 MRJP5_APIME	29	17	70236	Major royal jelly protein 5 OS=Apis mellifera OX=7460 GN=MRJP5 PE=2 SV=1
Q17058 MAL1_APIME	28	11	65565	Alpha-glucosidase OS=Apis mellifera OX=7460 PE=1 SV=1