

## Supplementary material

**Supplementary Table 1:** Individual values of sensitization and food involved in the reactions

PACIENT CODE	GROUP <sup>An=</sup> 1 AnS= 2	PATIENTS REFERRED CULPRIT	PRICK TEST (commercial extract)	PRICK-by-PRICK	slgE	No EPISODES
1	2	P	P, K		P, P3	1
2	2	P	P, H, C, Pn, Wm, F		P, K, On, Gl, Ch, Mn, H, Me, Ca, W, A, Ri, Pi, Al, P3, C8, A9, Jug r 3	1
3	2	P	P, C, Pn, A		P, Wh, Pn, W, P3, T14, A9, M3	1
4	1	P	P, H, W, Pn, Al, Pi		P3, A9, J3,	1
5	1	P	P, H, C, Pn, M, Ak, Gb		P3, C8, T14	1
6	2	Zc, Cb, Wh	P, H, W, Pn, K, C, Gb, M		P3, C8, A9, T14, J3, H, Wh, K, Pn,A, M,W, To, Ch, Le, Gb, Le	2
		Gb, On				2
		Gb, Cf				1
7	2	To	K, Me	To	P, K, On, Ca, Le, W,Ri, Wh, P3	1
8	1	Wh, On, Mh	P, H, C, K, Wh, Pn, Gb, M		P3, T14,A9, C8, Pn	1
9	1	To, Le, Pn, W, H			P3, C8, A9, T14, J3, M3, P	1
10	1	Wh, To, On	P, W, K, C, Pn, M, Gb, To, On, H, A	Cb	P3, C8, A9 Pn, Wh, W	1
		Cb				1
11	1	Le, To, W	P		P3, T14, A9, To, Le, H, K, M, Gb	3

<b>PACIENT CODE</b>	<b>GROUP</b> <sup>An=</sup> 1 AnS= 2	<b>PATIENTS REFERRED CULPRIT</b>	<b>PRICK TEST</b> (commercial extract)	<b>PRICK-by-PRICK</b>	<b>sIgE</b>	<b>No EPISODES</b>
12	2	Pn, W, H	P, C, Wh, Ch, Pn, Gb		P, Wh, Pn, Al, A, Mu, P3	1
13	1	Wh, On, C, Ba	P, C, Ch		P3, C8, A9, J3, P, W	1
14	2	A, Gb	P	A	P3, A, P	1
15	1	Wh, Wm, Ol	P, H, K, C, Pn, M	Me, Le, Gb, A, W	P3, C8, A9, J3	1
16	2	Wh, Ru, Le, Ca	P, K, C, Gb		P3, C8, A9, J3, H, Pn	1
17	1	P, W	P, C, Wh, Pn, Ch, Le		P3, P, Pn, Wh	1
18	1	Le, To	P, M, C, Le		P3, T14, J3, Pn, W, A, P, To	1
		Wh, To, Le				1
		Le, C, Wh				1
		Le, W, Wh				1
19	1	To, Le, Ch	P, H, K, C, Ch, Pn, Gb, Pw, Le, To		P3, J3, A3, T14	1
		P				1
		W				1
20	1	Cr	P, Ak, Me	Cr	P3	1
21	1	Le, C, W, H	P, C, H, M, Pn		P3	1
		Le, Pn, H				1
22	1	Wh, P	P, H, C, K, Wh, Pn, M, Gb		P3, C8, A9, T14, J3	2
		Wh, To, Gb				1
		Gb, Wh				1
		Le, To, C, Wh				3
		Pn, W, Le				1
		Wh, Le, W				2
		To, Le, Ol				1
		Ri, On, Pe,				1
		To				1

<b>PACIENT CODE</b>	<b>GROUP</b> <sup>An=</sup> 1 <sup>AnS=</sup> 2	<b>PATIENTS REFERRED CULPRIT</b>	<b>PRICK TEST</b> (commercial extract)	<b>PRICK-by-PRICK</b>	<b>slgE</b>	<b>No EPISODES</b>
<b>23</b>	1	To, Le, Wh	P, H, K, M, C, Gb, Pn, W, On, Le, To, Wh		P3, A9, J3	<b>3</b>
		Le, C				<b>2</b>
		Gb, Wh				<b>2</b>
		Gb, On, Wh				<b>1</b>
		To, Gb, On,				<b>1</b>
		Le, W				<b>1</b>
		Wh, H				<b>1</b>
		Le, To, C, Mn, Pi				<b>1</b>
<b>24</b>	1	Wh, Po, Gb, Zn, On	P, W, H, Pn, C, Ch, M, Gb, Wh		P3, C8, A9, T14, J3	<b>1</b>
		Pn				<b>1</b>
		W				<b>1</b>
<b>26</b>	1	Le, C, To	P, C, K		P3, C8, A9, T14, J3, M3, Pn, A, W, Le	<b>1</b>
		Le, A				<b>1</b>
<b>27</b>	1	Cb	To	Cb, To, Ca	P, A, K, W, P3, C8	<b>1</b>
<b>30</b>	1	P	P		P, W, T14, P3, J3, A9, M3	<b>1</b>
		Pn, W				<b>1</b>
<b>31</b>	1	P	P, H, K, C, Wh, M, Gb, Pn, Eg, Le, Ch		P, Wh, Pn, K, W, Oa, Om, Pw, T14, P3, J3, A9, C8	<b>1</b>
		Le				<b>1</b>
<b>32</b>	1	A	P		P, W, A, P3	<b>1</b>
<b>34</b>	1	P	P	Or	P, To, Le, Gb, W, Pn, H, A, P3, M3, J3, A9	<b>1</b>
		Or				<b>1</b>
		To				<b>1</b>
		Le				<b>1</b>
<b>37</b>	1	P	P, W, Pn, A	Pg	P3, C8, A9, T14, M3, J3,	<b>1</b>
		Pg				<b>1</b>

<b>PACIENT CODE</b>	<b>GROUP</b> <sup>An=</sup> 1 <sup>AnS=</sup> 2	<b>PATIENTS REFERRED CULPRIT</b>	<b>PRICK TEST</b> (commercial extract)	<b>PRICK-by-PRICK</b>	<b>slgE</b>	<b>No EPISODES</b>
38	1	Wh, Pn, W, H	P, Mk, Eg, H, W, Pn, K,C, Wh, Ak		P3, A9, T14, J3	1
39	1	P	P, A, Wh, Gb, W, H, Pn		P, A, Pn,W, Gb, P3, M3, T14, J3, A9, C8	1
		A				1
40	1	H	P, A, Pn, H		Pn, K, P3, J3, M3, C8, A9	1
41	1	P	P, Pn, Gr, W, Le		P3, A9, J3	1
		Gr				1
42	1	A, W, Le, To	P, A		P3, C8, A9, M3, J3	1
		P				1
		Pr				1
43	2	Sf	P, C, Pn	Sf	P, H, Wh, K, W, Ap,Le, Gb, To, P3, T14, J3, A9, C8	1
44	1	Wh, Pe, To, Le, On	P, Eg, K, C, Wh, Ch, Pn, A, Gb, On Le, To, Sw	Pa	P3, C8, A9, T14, J3,M3, P, Eg-w	1
		P, A				1
		Wh, On, Og				1
		Le, To, C, Wh				2
		Gb, On, Po				1
		Wh, A, Le				1
		Sw				1
		Pr				1
		Wh				1
45	1	Ba	P, W, H, K, C, Wh, Ch, Pn, M, A, Gb, To, Le	Ba	P, W, P2, J3, C8, A9, M3, Gb,	1
46	1	Le, To, W, Pn	P, H, K, C, Pn, M, Gb	W, Le	P3, C8, A9, M3, J3, P	1
47	1	Gb, To, Po, A, Wh, Pn			P3, M3 A9, T14, J3, P, A, Pn, Gb, Le	1
48	1	W	P, W, C, Pn		P, Wh, Pn. To, Gb, P3, J3, A9, C8	1
49	2	Wh	P, C, Pn		P, Wh, A, K, P3, C8, A9	1

<b>PACIENT CODE</b>	<b>GROUP</b> <sup>An=</sup> 1 AnS= 2	<b>PATIENTS REFERRED CULPRIT</b>	<b>PRICK TEST</b> (commercial extract)	<b>PRICK-by-PRICK</b>	<b>sIgE</b>	<b>No EPISODES</b>
50	1	Wh, H	P, Pn, A		P3, C8, K	2
51	1	Le, To, Ca, W, C	P, Le, C, H, W, Pn		P3, C8, A9, T14, J3, M3	1
52	1	Gb	P, W, C, Wh, Pn, H, Gb, Pw, Le, To		P3, C8, J3, T14, C8, A9	1
55	2	Pn, W, H	H, C, Pn		P, P3, J3, M3, T14, Ak, A9, C8	1
56	2	H, Pn, W, Gs		H, W	P3, J3, P, W	1
57	1	W, Le Wh	PP, C, H, Pn, W, M, Ch, Wh		P3	1
58	1	Sf	P, H, K, C, Wh, Pn, M, Ap, Gb	Sf	P3, T14, J3, C8, A9	1
59	1	Le, To, W	P, C, M, Wh, Le		P3, C8, A9, J3, H, P, W	1
60	1	Ri, Wh, W	H, K, C, Pn, M, Gb, Wh, A		P3, C8, A9, J3	1
61	1	Le, To, Wh	P, H, K, Pn, M, Ak, Gb, Le, To, A		P3, C8, A9, J3, P	1
62	1	P, On, Pi, Cd	P, Pi, On		P3, J3, P, Wh	1
		Gb, On, Wh				2
		Wh, P				1
63	1	Wh, H	P, H, K, C, Wh, Ch, Pn, M, Gb, Le		P3, C8, A9, T14, J3	2
		Le				1
		Pn, W, H				1
64	1	Lt	P, H, K, C, Pn, M, A, Me, Eg, Oa		Lt, Gb, Ch, Oa, Pn, A9, P3	1
	1	Ch				1
	1	H, Pn, W				1
65	1	Pn	Pn, H, K, C, Wh, Ch, Pn, M, W, Eg, Le		P, To, Pn, W, Wh, P3, A9, C8, J3, Oa, Eg-W, Om,	1
66	1	P, A	P, H, K, Pn, A, Gb, Al		P3, A9, J3, P, A	1
		P				2
		Pn, Al				1

PACIENT CODE	GROUP An= 1 AnS= 2	PATIENTS REFERRED CULPRIT	PRICK TEST (commercial extract)	PRICK-by-PRICK	slgE	No EPISODES
		Cr				1
<b>67</b>	1	Gb, On, Wh	P, H, C, Pn, M, Gb		P3, C8, A9, J3, M3, P, Wh, W	<b>1</b>
		As, Mh				<b>1</b>
		P				1
<b>68</b>	1	Wh, Mh, On	P, Eg, Mk, K, Pn, M, Gb, On		P3, C8, A9, J3, T14	<b>1</b>
		P				1
<b>69</b>	1	Wh, On, Og, Ch	P, K, C, Wh, On, Gb, H		P3, C8, A9, J3, P, W, H, Wh	<b>1</b>
<b>70</b>	1	Le, To, C, Wh	P, H, K, C, Wh, M, Gb, Pn, On, Le		P3, C8, P, A, K, Gr, Pn, W	<b>2</b>
		Wh, To				<b>1</b>
		Wh, To, On, Le, Pe				<b>1</b>
		Pn				1
		Gr				1
<b>73</b>	1	Sf	P, C, W, Pn		P, P3, T14, J3, A9, C8, M3	1
		W				1
		H				1
<b>74</b>	1	Wh	P, C, Wh, Pn, M, Gb		P, Wh, W, P3, T14, M3, J3, C8, A9,	1
		C				1
		Pn, W, H				1
<b>75</b>	1	W	Pn		P, T3, C8, J3, A9	1
<b>76</b>	1	Gb	P, C, K, A, Le, To, Gb		P3, C8	1
<b>77</b>	1	Gb, P	P, Eg, H, K, Pn, M, Gb		P3, M3, P	<b>1</b>

Results of positive skin prick test (commercial and prick-by-prick) are shown. In bold, the reactions with "plant food mix"; A= apple, Ak= anisakis, Al= almond, An= anaphylaxis, AnS= anaphylactic shock, As= asparagus, A9= Ara h 9, Ba= banana, C= corn, Ca= carrot, Cb= cabbage, Cd= Chard, Cf= Cauliflower, Ch= chickpea, Cr= cherry, C8= Cor a 8, Eg=egg, Eg-w= egg-white, F= fig, Gb= green beans, Gl= garlic, Gs= gooseberry, Gr= grape, H= hazelnut, J3= Jug r 3, K=kiwi, Le= letucce, Lm= lemon balm, Lt= lentil, M=mustard, Me= melon, Mh= mushroom, Mk= milk, Mn= mandarin, M3= Mal d 3, Og= orange, Oa= ovoalbumin, Ol= olives, Om=ovomuroid, On= Onion, P= peach, Pe= Pepper, Pg= pomegranate, Pi= Pine nut, Pn= peanut, Po= potato, Pr= pear, Pw= prawn, P3= Pru p 3, Ri= Rice, Ru= arugula, Sf= sunflower

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<b>PACIENT CODE</b>	<b>GROUP</b> An= 1 AnS= 2	<b>PATIENTS REFERRED CULPRIT</b>	<b>PRICK TEST</b> (commercial extract)	<b>PRICK- by- PRICK</b>	<b>slgE</b>	<b>No EPISODES</b>
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seed,Sw= strawberry, To= tomato, T14= Tri a 14, W= walnut,Wh= wheat, Wm= watermelon, Zc=zucchini.

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Accepted Article

**Supplementary Table 2a.** Top 3 food combinations involved in “plant food mix” group reactions

<b>“PLANT FOOD MIX” GROUP</b>	
n= 67 patients	
<b>FOOD COMBINATION</b>	Nº of patients with reactions with each combination
<b>Le, To, C, Wh</b>	3
<b>Le, To, Wh</b>	3
<b>Gb, On, Wh</b>	3

Le= lettuce, To= tomato, C= corn, Wh= wheat, Gb= green beans, On= onion

The rest of plant food combinations (56) were observed in less than 3 patients, showing the great variability of food combinations that may result in a LTP-dependent reaction.



**Supplementary table 2b.** Top 5 foods involved in “plant food mix” group reactions

<b>“PLANT FOOD MIX” GROUP</b>	
59 food combinations	
<b>FOOD</b>	No of combinations where each food is involved (%)
<b>Wheat</b>	38 (64)
<b>Lettuce</b>	31 (53)
<b>Tomato</b>	23 (39)
<b>Walnut</b>	15 (25)
<b>Green beans</b>	14 (23)