Table S1. Details of legume allergens (WHO/IUIS Allergen database (allergen.org)).

Species	Allergen	Protein family
Arachis hypogaea (Peanut)		
	Ara h 1	Cupin (Vicillin-type, 7S globulin)
	Ara h 2	Conglutin (2S albumin)
	Ara h 3	Cupin (Legumin-type, 11S globulin, Glycinin)
	Ara h 4	renamed to Ara h 3.02, number not available for future submissions
	Ara h 5	Profilin
	Ara h 6	Conglutin (2S albumin)
	Ara h 7	Conglutin (2S albumin)
	Ara h 8	Pathogenesis-related protein, PR-10, Bet v 1 family member
	Ara h 9	Nonspecific lipid-transfer protein type 1
	Ara h 10	16 kDa oleosin
	Ara h 11	14 kDa oleosin
	Ara h 12	Defensin
	Ara h 13	Defensin
	Ara h 14	Oleosin
	Ara h 15	Oleosin
	Ara h 16	nonspecific Lipid Transfer Protein 2
	Ara h 17	nonspecific Lipid Transfer Protein 1
Glycine max (Soybean)		
	Gly m 1	Hydrophobic protein from soybean
	Gly m 2	Defensin
	Gly m 3	Profilin
	Gly m 4	Pathogenesis-related protein, PR-10, Bet v 1 family member
	Gly m 5	Beta-conglycinin (vicilin, 7S globulin)
	Gly m 6	Glycinin (legumin, 11S globulin)
	Gly m 7	Seed biotinylated protein
	Gly m 8	2S albumin
Lens culinaris (Lentil)		
	Len c 1	Gamma-vicilin subunit
	Len c 2	Seed-specific biotinylated protein
	Len c 3	Nonspecific lipid transfer protein type 1
Lupinus albus (White lupin)		
	Lup an 5	Profilin
Lupinus angustifolius (narrow-leaved blue lupin)		
	Lup an 1	Conglutin beta (7S seed storage globulin, vicilin)
Phaseolus vulgaris (Green bean, French bean		
	Pha v 3	Nonspecific lipid transfer protein type 1
Pisum sativum (Pea)		
	Pis s 1	Vicilin
	Pis s 2	Convicilin
	Pis s 3	nsLTP

Vigna radiata (Mung bean)	
Vig r 1	Pathogenesis-related protein, PR-10, Bet v 1 family member
Vig r 2	8S Globulin (Vicilin)
Vig r 3	Renamed to Vig r 2.0201
Vig r 4	Seed albumin
Vig r 5	Identified as fragment of Vig r 2
Vig r 6	Cytokinin-specific binding protein (CSBP), Bet v 1 family member

Table S2. Search queries for articles reporting legume sensitization in different electronic bibliographic databases.

Bibliographic database	Search query (performed on: 08-12-2017)
Scopus	(Article title, Abstract, Keywords): Prevalence AND (Food hypersensitivity OR Food allergy) AND (Fabaceae OR Legume OR Pea OR Lentil OR Bean OR Peanut OR Soybean OR Lupin OR Chickpea)
Web of Science	(All databases) TOPIC: (Prevalence AND (Food hypersensitivity OR Food allergy) AND (Fabaceae OR Legume OR Pea OR Lentil OR Bean OR Peanut OR Soybean OR Lupin OR Chickpea))
Pubmed	(All Fields): Prevalence AND (Food hypersensitivity [Mesh] OR Food allergy) AND (Fabaceae [Mesh] OR Legume OR Pea OR Lentil OR Bean OR Peanut OR Soybean OR Lupin OR Chickpea)
EMbase	(Article title, Abstract, Author Keywords): Prevalence AND (Food AND hypersensitivity OR (Food AND allergy)) AND (Fabaceae OR Legume OR Pea OR Lentil OR Bean OR Peanut OR Soybean OR Lupin OR Chickpea)

Table S3. Search queries for peanut allergen sensitization in different electronic bibliographic databases.

Bibliographic database	Search query (performed on: 27-04-2018)
Scopus	(Article title, Abstract, Keywords): Sensitization AND "Ara h"
Web of Science	(All databases) TOPIC: Sensitization AND "Ara h"
Pubmed	(All Fields): (Sensitization AND "Ara h")
EMbase	(Article title, Abstract, Author Keywords): Sensitization AND "Ara h"

Table S4. Overview of articles (n = 42) investigating legume sensitization and relative and absolute peanut consumption values taken from EFSA, GEMS and WWEIA consumption surveys. Values are corrected for amount of peanut protein (25%).

Authors	Nation	Study size	Reported age in years (mean or range)	Reported prevalence (%)	Peanut protein consumption (g/kg bw/day)	Peanut protein consumption (g/day)	Average percentage peanut consumers (%)
Arshad et al. [1]	United Kingdom	978	4	1.1 Pn	0.007	0.14	3.3
Baatenburg de Jong et al. [2]	Netherlands	9044	0-18	7.7 Pn 4.6 S	0.047	1.38	15.3
Bähr et al. [3]	Germany	92	44	2.2 P 2.2 Pn 3.3 S	0.005	0.35	2.3
Björnsson et al. [4]	Sweden	1397	20-44	2.2 Lp 3.1 Pn	0.004	0.34	4.2
Branum et al. [5]	United States	5369	1-17	9.3 Pn	0.035	1.07	22.0
Bunyavanich et al. [6]	United States	616	8	5.0 Pn	0.043	1.34	30.0
Burney et al. [7]	Switzerland	485	38	5.04 Pn 5.07 Ln 4.61 S	n.a.*	n.a.	n.a.
	Spain	310	37.4	7.18 Pn	0.001	0.08	2.0

	Netherlands	476	36.5	6.71 Ln 6.47 S 1.58 Pn 1.24 Ln 1.45 S	0.021	1.35	13.5
	Poland	379	38.6	3.12 Pn 2.87 Ln 2.35 S	n.a.	n.a.	n.a.
	Bulgaria	113	37.6	1.79 Pn 4.48 Ln 1.79 S	n.a.	n.a.	n.a.
	Iceland	479	39.4	0.45 Pn 0.74 Ln 0.15 S	n.a.	n.a.	n.a.
Chen et al. [8]	China	477	0-1	0.4 Pn	0.021**	n.a.	3.0
Eller et al. [9]	Denmark	501	1-6	5.2 Pn	0.004	0.05	2.7
Ernst et al. [10]	Germany	13100	3-17	10.6 Pn 6.3 S	0.003	0.06	2.0
Gayraud et al.[11]	Belgium	2680	0-15	0.87 Pn 0.2 Lp	0.002	0.04	1.0
		2686	>15	0.6 Pn 0.6 Lp	0.002	0.11	1.1
Gislason et al. [12]	Iceland	570	33	0.8 Pn 0.2 S	n.a.	n.a.	n.a.
	Sweden	625	32.6	3.7 Pn 2.8 S	0.004	0.34	4.2
Grundy et al. [13]	United Kingdom	1246	3.2	3.3 Pn	0.006	0.02	1.1
Hourihane et al. [14]	United Kingdom	1072	4-5	2.8 Pn	0.007	0.14	3.3
Jøhnke et al. [15]	Denmark	497	1.5	4.0 Pn	0.004	0.05	2.7
Kim et al. [16]	China	2118	11-71	12.3 Pn 3.9 S	0.013***	n.a.	4.0
Krause et al. [17]	Denmark	1031	5-18	2.6 Pn 2.1 S	0.006	0.30	5.6
Liu et al. [18]	United States	909	1-5	7.1 Pn	0.053	0.82	24.0
		2869	6-19	10.7 Pn	0.028	1.13	20.5
		1672	20-39	8.7 Pn	0.015	1.03	19.5
		1361	40-59	6.5 Pn	0.020	1.53	24.0
		1392	>60	4.5 Pn	0.015	1.28	25.0
Mahesh et al. [19]	India	10931	34.3	8.78 Ln 9.24 S	n.a.	n.a.	n.a.
Martin et al. [20]	Australia	2739	1	8.73 Pn 2.3 Pn	0.019****	n.a.	17.5
Matricardi et al. [21]	Germany	273	2-10	7.0 S	n.a.	n.a.	n.a.
McGowan et al. [22]	United States	4995	6-19	11.2 Pn	0.028	1.13	20.5
		2901	6-19	10.5 Pn	0.028	1.13	20.5
Mortz et al. [23]	Denmark	862	14.1	5.8 Pn	0.006	0.30	5.6
Mustafayev et al.[24]	Turkey	6963	10.8	0.7 Pn	n.a.	n.a.	n.a.
Nicolaou et al. [25]	United Kingdom	933	8	11.8 Pn	0.007	0.14	3.3
Osborne et al. [26]	Australia	2757	1	6.4 Pn	0.019****	n.a.	17.5
Östblom et al. [27]	Sweden	2336	4	5.0 Pn 3.0 S	0.001	0.04	1.2
Pénard-Morand et al. [28]	France	6672	9-11	1.1 Pn	0.002	0.04	2.4
Pereira et al. [29]	United Kingdom	699	11	3.7 Pn	0.004	0.20	3.8
		649	15	2.6 Pn	0.004	0.20	3.8
Peters et al. [30]	Australia	5129	1	7.6 Pn	0.019****	n.a.	17.5
Rentzos et al. [31]	Sweden	944	18-75	2.8 Pn	0.004	0.34	4.2

				1.6 B 0.4 P 0.2 S			
Roberts et al. [32]	United Kingdom	6412	7	1.4 Pn 0.2 S	0.007	0.14	3.3
Ruokolainen et al. [33]	Finland	98	7-11	12.2 Pn 4.1 S	0.003	0.05	1.3
	Russia	82	7-11	1.2 Pn 0 S	n.a.	n.a.	n.a.
	Finland	98	15-20	10.2 Pn 6.1 S	0.001	0.03	0.7
	Russia	82	15-20	0 Pn 0 S	n.a.	n.a.	n.a.
Salo et al. [34]	United States	856	1-5	6.8 Pn	0.053	0.82	24.0
		580	6-9	8.2 Pn	0.043	1.23	25.0
		2277	10-19	11.5 Pn	0.020	1.09	19.0
		912	20-29	10.3 Pn	0.013	0.85	18.0
		756	30-39	7.2 Pn	0.015	1.21	21.0
		768	40-49	8.7 Pn	0.020	1.46	23.5
		588	50-59	3.8 Pn	0.020	1.61	24.5
		620	60-69	6.9 Pn	0.018	1.39	25.5
		444	70-79	2.5 Pn	0.015	1.17	24.5
		323	>80	1.9 Pn	0.018	1.12	24.0
Schäfer et al. [35]	Germany	1537	50	6.8 Pn 1.7 S	0.005	0.35	2.3
Schnabel et al. [36]	Germany	1082	2	2.1 Pn	0.002	0.02	1.2
		1082	6	5.2 Pn 3.8 S	0.003	0.06	2.0
Strinnholm et al. [37]	Sweden	2585	7-8	3.2 Pn 0.6 S	0.001	0.04	1.2
Sun et al. [38]	China	7085	9.6	4.5 Pn 1.6 S	0.013***	n.a.	4.0
Tariq et al. [39]	United Kingdom	1218	4	1.2 Pn	0.007	0.14	3.3
Venter et al. [40]	United Kingdom	700	6	2.6 Pn	0.007	0.14	3.3
Venter et al. [41]	United Kingdom	763	1	0.4 Pn	0.002	0.01	0.7
		658	2	3.3 Pn	0.001	0.02	1.1
		642	3	2.0 Pn	0.001	0.02	1.1
		588	10	2.4 Pn 0.68 Lp	0.007	0.14	3.3
Woods et al. [42]	Australia	457	39.2	5.7 Pn	0.015*****	n.a.	19.5

Pn = peanut; S = soybean; P = green pea; Lp = lupine; Ln = lentil; B = bean. *n.a. = no consumption values were available for this country. ** Consumption value from "Children" from the 2002 China Nutrition and Health Survey. *** Consumption value from "General population" from the 2002 China Nutrition and Health Survey. ****Consumption value from "Children 2-6-year-old" from the 2007 Australian National Children's Nutrition and Physical Activity Survey. *****Consumption value from "Children 2-16-year-old" from the 2007 Australian National Children's Nutrition and Physical Activity Survey.

Table S5. Articles (n = 21) investigating peanut allergen sensitization in peanut allergic children and adults.

Author	Reported prevalence of sensitization (%)					
	Ara h 1	**Ara h 2**	**Ara h 3**	**Ara h 6**	**Ara h 7**	**Ara h 8**
Agabriel et al. [43]	60.0	63.0	46.0	64.0		25.0
Blankestijn et al. [44]	43.0	65.0	38.0	60.0	60.0	
Uotila et al. [45]	43.0	57.0	36.0	60.0		53.0
Ma et al. [46]	5.6	11.0	5.6			22.2
Comberiati et al. [47]	8.3	58.3	16.7			25.0
Kukkonen et al. [48]	64.0	95.0	57.0	98.0		79.0

Bernard et al.[49]	56.0	77.0				
Ebisawa et al.[50]	38.0	88.0	42.0			42.0
Lopes de Oliveira et al. [51]	90.0	94.0	78.0			
Suratannon et al. [52]	26.3	68.4	21.1			15.8
Ballmer-Weber et al. [53]	44.0	56.0	25.0	50.0		34.0
Pedrosa et al.[54]	54.6	59.1	27.3	77.3		27.3
Ackerbauer et al. [55]	62.0	71.0	35.0	71.0		45.0
Bégin et al. [56]	63.0	95.0	43.0			
Arkwright et al. [57]	46.0	75.0	36.0			21.0
Pedrosa et al. [58]	60.0	72.7	43.6			
Movérare et al. [59]	52.7	56.8	44.6			70.3
Peeters et al. [60]	53.0	83.0	50.0	87.0		
Astier et al.[61]	40.0	100.0	27.0			
Klemans et al.[62]	25.6	43.0	16.3			59.3
Van Erp et al.[63]		33.7				38.6
Mean sensitization percentages	46.8	67.7	36.2	70.9	60.0	39.8

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