

Supplemental Material

Supplemental Table 1. Age at fecal sampling and distribution of IgE-mediated conditions diagnosed during the 1st year of life. C, C-section; d, days; V, vaginal delivery; w, weeks.

Sample number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Sampling age (w)	6	12	11	5	6	5	8	7	7	14	4	m	10	4	7	9	9	m	m	m	2
Cow's milk allergy	No	Yes	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	No	No	No	No	No	No	No
Asthma	Yes	No	No	Yes	No	No	Yes	Yes	Yes	Yes	No	Yes	No	No	No	No	No	No	No	No	No
Atopic dermatitis	No	Yes	No	No	Yes	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No
Any atopic disease	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No						
Gestational age (d)	213	230	223	199	224	213	224	184	216	186	194	224	180	215	222	224	203	199	214	217	216
Birth weight (g)	1490	1940	1770	1490	1950	1270	1395	805	1275	565	925	1155	870	1360	1600	1260	880	840	1480	1570	1175
Birth height (cm)	42	42	42	39	42	40	40	34	37	31	34	39	34	39	42	39	35	35	39	43	39
Gender	M	M	F	M	M	M	F	F	M	M	M	M	M	M	M	F	F	M	F	F	F
Delivery	C	V	V	C	C	C	C	C	V	C	C	C	C	C	V	C	C	C	C	C	C
Maternal peripartum antibiotic treatment	Yes	Yes	No	Yes	Yes	No	Yes	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No

Supplemental Table 2. Complete list of multiplexed allergens (whole allergens and molecules) assessed in the study.

Aca m	Blag 1	Cor a_pollen	Gal d_white	Ori v	Pop n
Aca s	Blag 2	Cra c 6	Gal d_yolk	Ory c 1	Pru av
Ach d	Blag 4	Cry j 1	Gly d 2	Ory c 2	Pru du
Act d 1	Blag 5	Cuc m 2	Gly m 4	Ory c 3	Pru p 3
Act d 10	Blag 9	Cuc p	Gly m 5	Ory s	Pru p 7
Act d 2	Blot 10	Cup a 1	Gly m 6	Ory_meat	Pyr c
Act d 5	Blot 21	Cup s	Gly m 8	Ost e	Raj c
Ail a	Blot 5	Cyn d	Hel a	Ovi a_epithelia	Raj c Parvalbumin
All c	Bos d 2	Cyn d 1	Hev b 1	Ovi a_meat	Rat n
All s	Bos d 4	Cyp c 1	Hev b 11	Ovi a_milk	Rud spp.
Alng 1	Bos d 5	Dau c	Hev b 3	Pan b	Sac c
Alng 4	Bos d 6	Dau c 1	Hev b 5	Pan m	Sal k
Alta 1	Bos d 8	Der f 1	Hev b 6.02	Pap s	Sal k 1
Alta 6	Bos d_meat	Der f 2	Hev b 8	Pap s 2S Albumin	Sal s
Ama r	Bos d_milk	Der p 1	Hom g	Par j	Sal s 1
Amb a	Bro pa	Der p 10	Hom s LF	Par j 2	Sco s
Amb a 1	Cam d	Der p 11	Hor v	Pas n	Sco s 1
Amb a 4	Can f 1	Der p 2	Jug r 1	Pec spp.	Sec c_flour
Ana o	Can f 2	Der p 20	Jug r 2	Pen ch	Sec c_pollen
Ana o 2	Can f 3	Der p 21	Jug r 3	Pen m 1	Ses i
Ana o 3	Can f 4	Der p 23	Jug r 4	Pen m 2	Ses i 1
Ani s 1	Can f 6	Der p 5	Jug r 6	Pen m 3	Sin
Ani s 3	Can f_Fd1	Der p 7	Jug r_pollen	Pen m 4	Sin a 1
Api g 1	Can f_male urine	Dol spp	Jun a	Per a	Sol spp.
Api g 2	Can s	Equ c 1	Len c	Per a 7	Sol t
Api g 6	Can s 3	Equ c 3	Lep d 2	Pers a	Sola l
Api m	Cap a	Equ c 4	Lit s	Pet c	Sola l 6
Api m 1	Cap h_epithelia	Equ c_meat	Loc m	Pha v	Sus d 1
Api m 10	Cap h_milk	Equ c_milk	Lol p 1	Phl p 1	Sus d_epithelia
Ara h 1	Car c	Fag e	Lol spp.	Phl p 12	Sus d_meat
Ara h 15	Car i	Fag e 2	Lup a	Phl p 2	Ten m
Ara h 2	Car p	Fag s 1	Mac i 2S Albumin	Phl p 5.0101	Thu a
Ara h 3	Cav p 1	Fel d 1	Mac inte	Phl p 6	Thu a 1
Ara h 6	Che a	Fel d 2	Mal d 1	Phl p 7	Tri a 14
Ara h 8	Che a 1	Fel d 4	Mal d 2	Pho d 2	Tri a 19
Ara h 9	Che q	Fel d 7	Mal d 3	Phod s 1	Tri a aA_TI
Arg r 1	Chi spp.	Fic b	Mala s 11	Phr c	Tri fo
Art v	Cic a	Fic c	Mala s 5	Pim a	Tri s
Art v 1	Cit s	Fra a 1+3	Mala s 6	Pis s	Tyr p
Art v 3	Clah	Fra e	Man i	Pis v 1	Tyr p 2
Asp f 1	Clah 8	Fra e 1	Mel g	Pis v 2	Ulm c
Asp f 3	Clu h	Gad m	Mer a 1	Pis v 3	Urt d
Asp f 4	Clu h 1	Gad m 1	Mes a 1	Pis v 4	Vac m
Asp f 6	Cor a 1.0103	Gad m 2+3	Mor r	Pla a 1	Ves v
Ave s	Cor a 1.0401	Gal d 1	Mus a	Pla a 2	Ves v 1
Ber e	Cor a 11	Gal d 2	Mus m 1	Pla a 3	Ves v 5
Ber e 1	Cor a 12	Gal d 3	Myt e	Pla l	Vit v 1
Bet v 1	Cor a 14	Gal d 4	Ole e 1	Pla l 1	Xip g 1
Bet v 2	Cor a 8	Gal d 5	Ole e 7	Pol d	Zea m
Bet v 6	Cor a 9	Gal d_meat	Ole e 9	Pol d 5	Zea m 14