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Supplementary data

Table S 1: Number of identified mite molecular allergens, geographical location, and corresponding basal atopic disease (allergic rhinitis (AR), and allergic asthma (AA)) in 268 patients studied with microarray.

Number of identified mite allergens	AR Lima (North)	AR Lima (Centre)	AR Arequipa	AR Piura	AR Tacna	AR Tarapoto
0	7	11	17	10	12	13
1	0	1	2	2	1	1
2	2	1	2	6	3	3
3	0	2	0	2	1	4
4	3	4	0	1	1	0
5	3	0	0	1	2	0
6	2	3	0	1	3	1
7	2	1	0	2	0	3
8	2	0	2	0	0	0
9	3	0	0	1	0	2
10	5	0	0	1	0	1
11	3	0	0	0	0	0
12	1	1	0	1	0	1
13	1	0	0	0	0	0
14	1	1	0	1	0	0
Number of identified mite allergens	**AA Lima (North)**	**AA Lima (Centre)**	**AA Arequipa**	**AA Piura**	**AA Tacna**	**AA Tarapoto**
0	0	7	18	4	8	3
1	0	2	1	1	0	1
2	0	1	0	0	1	1
3	1	1	0	0	1	1
4	1	0	0	0	1	2
5	0	2	0	2	1	2
6	1	1	2	5	0	1
7	2	0	0	1	1	0
8	1	1	0	1	2	3
9	2	2	1	0	2	0
10	0	0	0	0	0	1
11	0	1	0	0	2	0
12	0	1	0	0	0	0
13	1	1	0	0	1	0
14	1	0	0	0	0	0

Table S 2: Serological analysis - Mean (frequency) of specific IgE responses (kU/L) to mite molecular allergens in patients with allergic rhinitis (AR, n = 135) and allergic asthma (AA, n = 75). Bold figures indicate significant differences ($P < 0.05$) in mean sIgE levels to mite molecular allergens between the two atopic conditions.

Molecule	sIgE AR Lima (North)	sIgE AR Lima (Centre)	sIgE AR Arequipa	sIgE AR Piura	sIgE AR Tacna	sIgE AR Tarapoto	sIgE AR Lima (North)	sIgE AR Lima (Centre)	sIgE AR Arequipa	sIgE AR Piura	sIgE AR Tacna	sIgE AR Tarapoto
Der p 1	22.90 ± 15.55	22.90 ± 15.55	0.71 ± 2.38	5.79 ± 11.90	3.59 ± 9.10	5.89 ± 11.24	17.73 ± 14.62	6.47 ± 12.87	3.61 ± 10.32	13.94 ± 16.72	11.90 ± 16.44	10.72 ± 15.86
Der p 2	34.59 ± 13.88	6.06 ± 13.75	1.87 ± 6.42	13.14 ± 17.50	8.76 ± 16.29	8.71 ± 14.66	25.11 ± 19.93	11.13 ± 17.85	5.74 ± 15.01	16.39 ± 19.53	16.78 ± 20.06	16.90 ± 20.59
Der p 5	13.29 ± 14.61	1.51 ± 6.62	0.11 ± 0.51	6.17 ± 13.65	1.78 ± 5.53	1.28 ± 4.22	7.63 ± 9.88	2.53 ± 6.84	1.33 ± 6.2	6.73 ± 11.74	9.19 ± 16.60	1.45 ± 5.54
Der p 7	11.98 ± 13.53	0.22 ± 1.12	0.00 ± 0.00	0.60 ± 2.25	0.01 ± 0.04	0.90 ± 4.92	6.44 ± 10.21	4.49 ± 11.02	0.01 ± 0.0	0.33 ± 1.17	2.94 ± 7.59	1.01 ± 3.90
Der p 10	0.00 ± 0.00	1.79 ± 0.75	0.09 ± 0.38	1.37 ± 5.75	0.08 ± 0.39	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.0	0.00 ± 0.0	2.42 ± 10.82	0.99 ± 3.82
Der p 11	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.0	0.00 ± 0.0	0.00 ± 0.00	0.00 ± 0.00
Der p 20	0.67 ± 2.08	0.06 ± 0.37	0.45 ± 1.71	0.11 ± 0.52	0.00 ± 0.02	0.00 ± 0.00	1.31 ± 2.55	0.14 ± 0.61	0.14 ± 0.4	2.57 ± 9.62	2.29 ± 9.39	0.00 ± 0.00
Der p 21	15.54 ± 15.98	4.58 ± 13.23	0.32 ± 1.54	4.20 ± 11.17	0.02 ± 0.09	3.25 ± 11.23	11.58 ± 13.53	5.11 ± 11.79	1.06 ± 4.9	4.73 ± 1.49	7.20 ± 15.64	3.74 ± 12.85
Der p 23	15.78 ± 14.71	2.57 ± 6.37	0.64 ± 2.15	4.37 ± 10.48	1.58 ± 3.19	3.38 ± 9.03	10.57 ± 11.87	3.50 ± 8.95	1.96 ± 6.4	6.70 ± 11.26	6.22 ± 10.45	4.19 ± 8.93
Der f 1	5.31 ± 5.98	0.21 ± 0.75	0.21 ± 0.85	2.79 ± 8.39	1.37 ± 4.69	0.77 ± 1.94	5 ± 6.64	0.95 ± 2.50	0.77 ± 2.3	6.33 ± 11.43	6.44 ± 12.38	3.19 ± 8.20
Der f 2	28.48 ± 12.61	4.68 ± 11.13	0.85 ± 2.89	10.61 ± 15.67	7.67 ± 15.26	5.90 ± 11.18	18.27 ± 16.55	9.30 ± 16.16	4.47 ± 11.81	14.05 ± 17.95	14.67 ± 18.80	14.40 ± 18.63
Blo t 5	11.64 ± 13.88	5.57 ± 11.52	0.00 ± 0.00	0.76 ± 3.07	0.00 ± 0.00	2.33 ± 8.30	7.85 ± 9.66	4.50 ± 9.17	0.25 ± 1.1	0.25 ± 0.93	2.28 ± 6.13	6.46 ± 15.67
Blo t 10	0.08 ± 0.25	1.62 ± 7.12	0.15 ± 0.61	1.16 ± 4.76	0.12 ± 0.55	0.00 ± 0.02	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.0	0.00 ± 0.0	2.16 ± 9.64	0.84 ± 3.26
Blo t 21	12.65 ± 14.59	7.10 ± 12.67	0.04 ± 0.21	1.51 ± 4.60	0.00 ± 0.00	4.31 ± 10.57	15.77 ± 17.80	6.02 ± 10.64	0.37 ± 1.7	0.06 ± 0.12	0.36 ± 1.15	8.21 ± 15.44
Gly d 2	6.61 ± 6.57	0.91 ± 3.80	0.04 ± 0.14	0.22 ± 0.78	0.02 ± 0.08	0.93 ± 4.20	1.62 ± 3.25	2.93 ± 5.61	0.00 ± 0.0	0.37 ± 0.94	0.89 ± 2.05	2.03 ± 4.92
Lep d 2	2.62 ± 3.16	0.53 ± 1.49	0.08 ± 0.39	0.41 ± 1.66	0.04 ± 0.13	1.10 ± 3.80	4.41 ± 10.48	1.68 ± 3.53	0.00 ± 0.0	0.00 ± 0.0	0.05 ± 0.16	1.96 ± 5.60
Tyr p 2	1.49 ± 2.05	1.91 ± 7.02	0.07 ± 0.34	0.18 ± 0.63	0.00 ± 0.00	1.65 ± 6.91	6.71 ± 14.15	2.54 ± 6.67	0.10 ± 0.4	0.00 ± 0.0	0.36 ± 1.30	0.87 ± 1.46

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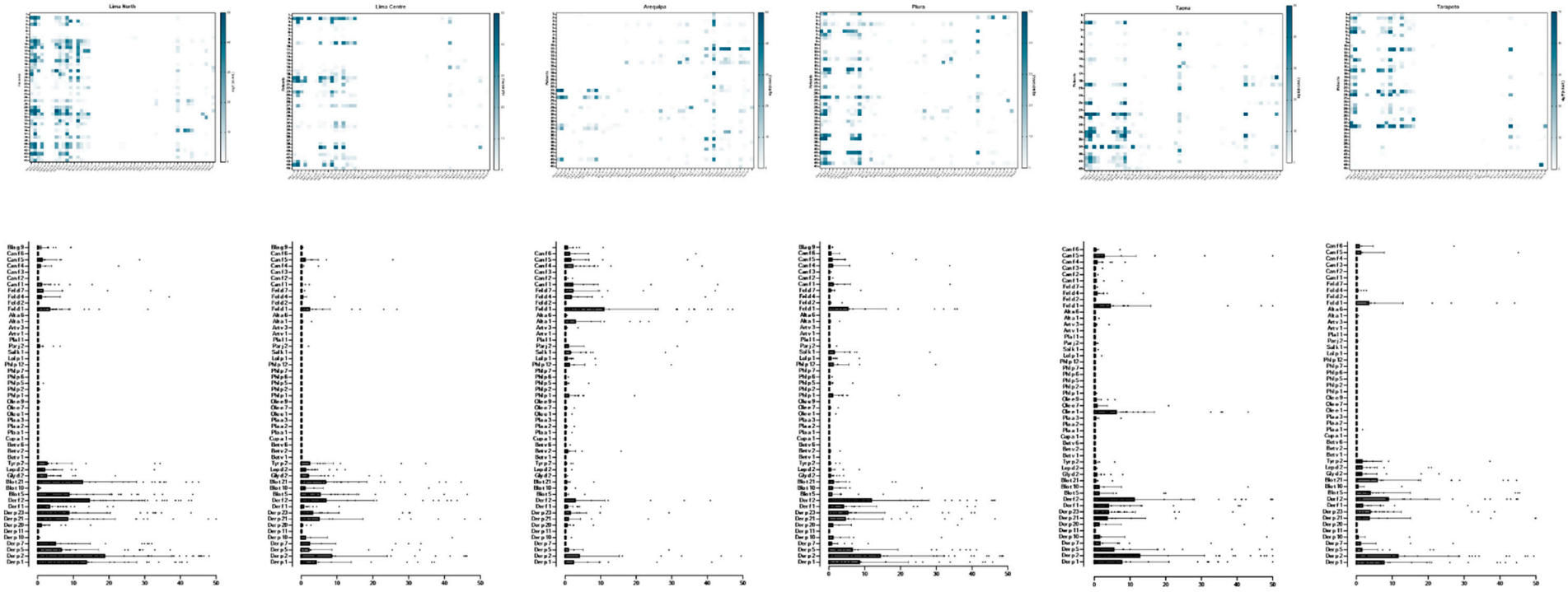


Figure S 1. Heatmap illustrating the sensitization profile to the allergens in Perú, accompanied by their serodominance levels. A. Lima (North); B. Lima (Centre); C. Arequipa; D. Piura; E. Tacna; F. Tarapoto. AR, allergic rhinitis; A, asthma.