



Fig. S1. Serum TARC levels based on gender and age differences in nursery school children from Ishigaki Island. There was no significant gender difference. The data were obtained from blood samples ($n=696$) taken in 2008.

Table SI. The annual prevalence of atopic dermatitis (AD) in nursery school children from Ishigaki Island

Year	Boys		Girls		Total	
	Examinees <i>n</i>	AD+ <i>n</i> (%)	Examinees <i>n</i>	AD+ <i>n</i> (%)	Examinees <i>n</i>	AD+ <i>n</i> (%)
2001	342	19 (5.6)	289	20 (6.9)	631	39 (6.2)
2002	446	23 (5.2)	390	30 (7.7)	836	53 (6.3)
2003	455	44 (9.7)	389	49 (12.6)	844	93 (11.0)
2004	412	15 (3.6)	352	13 (3.7)	764	28 (3.7)
2005	422	16 (3.8)	349	23 (6.6)	771	39 (5.1)
2006	395	30 (7.6)	326	25 (7.7)	721	55 (7.6)
2007	398	13 (3.3)	314	11 (3.5)	712	24 (3.4)
2008	401	22 (5.5)	342	23 (6.7)	743	45 (6.1)
2009	319	22 (6.9)	288	20 (6.9)	607	42 (6.9)
2010	313	20 (6.4)	305	26 (8.5)	618	46 (7.4)
2011	303	15 (5.0)	306	16 (5.2)	609	31 (5.1)
Mean prevalence		5.7%		7.0%		6.3%

Table SII. Multivariate logistic regression analysis of the subject's incidences and family history in nursery school children from Ishigaki Island

	OR	95% CI	p-value
Subject's gender	0.87	0.58–1.31	0.5083
Subject's age	1.04	0.90–1.20	0.6220
Subject's allergic rhinitis	0.89	0.29–2.71	0.8400
Subject's bronchial asthma ^a	2.14	1.29–3.56	0.0034
Subject's egg allergy ^a	7.69	3.79–15.64	<0.0001
Paternal atopic dermatitis ^a	3.00	1.29–6.95	0.0104
Paternal allergic rhinitis	1.12	0.64–1.95	0.6925
Paternal bronchial asthma	1.27	0.65–2.50	0.4842
Maternal atopic dermatitis	0.92	0.41–2.08	0.8405
Maternal food allergy	0.75	0.32–1.75	0.5008
Sibbling atopic dermatitis ^a	3.25	1.87–5.66	<0.0001
Sibbling allergic rhinitis	1.18	0.60–2.32	0.6354
Hosmer and Lemeshow test	$\chi^2=6.67$	$p=0.57$	

^aItems with statistical significance.

OR: odds ratio; CI: confidence interval.