

## SUPPLEMENTARY MATERIAL

**Table S1: Population demographics of the association cohorts.**

	Cases (n=956)	Non-atopic Controls (n=723)
Mean age $\pm$ s.d.	21.66 $\pm$ 4.83	21.69 $\pm$ 4.90
Gender		
Male (%)	404 (42.3%)	192 (26.7%)
Female (%)	552 (57.7%)	527 (73.3%)
Chronicity		
> 12 months (%)	341 (36.4%)	-
$\leq$ 12 months (%)	597 (63.6%)	-
Severity		
Mild (%)	550 (58.6%)	-
Moderate (%)	285 (30.4%)	-
Severe (%)	103 (11.0%)	-

**Case:** Answered YES to "ever had a recurrent itchy rash lasting at least 6 months", YES to "itchy rash affected a flexural region" AND positive house dust mite skin prick test result

**Non-atopic Control:** Answered NO to "ever had a recurrent itchy rash lasting at least 6 months", NO to "itchy rash affected a flexural region" AND negative house dust mite skin prick test result

**Chronicity > 12 months:** Answered NO to "Has this rash cleared completely at any time during the last 12 months?"

**Chronicity  $\leq$  12 months:** Answered YES to "Has this rash cleared completely at any time during the last 12 months?"

**Severity mild:** Answered NEVER to "In the past 12 months, how often, on average, have you been kept awake at night by this itchy rash?"

**Severity moderate:** Answered "Less than one night per week" to "In the past 12 months, how often, on average, have you been kept awake at night by this itchy rash?"

**Severity severe:** Answered "One or more nights per week" to "In the past 12 months, how often, on average, have you been kept awake at night by this itchy rash?"