

Supplementary Table 1. Pearson's correlation coefficients between sneezing and rubbing counts and allergic parameters

| Variable | Sneezing and rubbing counts | | | | | | | |
|-----------------------------|-----------------------------|----------|-----------|-----------|----------|----------|----------|----------|
| | 0–5 min | 5–10 min | 10–15 min | 15–20 min | 0–10 min | 0–15 min | 5–20 min | 0–20 min |
| Serum ELISA (n=142) | | | | | | | | |
| Total IgE | 0.393*** | 0.557*** | 0.528*** | 0.398*** | 0.512*** | 0.543*** | 0.552*** | 0.529*** |
| OVA-specific IgE | 0.339*** | 0.497*** | 0.486*** | 0.470*** | 0.450*** | 0.484*** | 0.540*** | 0.503*** |
| OVA-specific IgG1 | 0.414*** | 0.448*** | 0.524*** | 0.376*** | 0.475*** | 0.518*** | 0.400*** | 0.447*** |
| OVA-specific IgG2a | 0.459*** | 0.399*** | 0.377*** | 0.482*** | 0.477*** | 0.472*** | 0.478*** | 0.501*** |
| Splenic cell ELISA (n=120) | | | | | | | | |
| IL-4 | 0.362*** | 0.324*** | 0.352*** | 0.393*** | 0.375*** | 0.383*** | 0.394*** | 0.404*** |
| IL-5 | 0.458*** | 0.378*** | 0.386*** | 0.491*** | 0.463*** | 0.458*** | 0.465*** | 0.488*** |
| IL-6 | 0.213 | 0.061 | 0.081 | 0.117 | 0.159 | 0.140 | 0.094 | 0.140 |
| IL-17A | 0.013 | 0.111 | -0.003 | -0.054 | 0.058 | 0.041 | 0.017 | 0.016 |
| IFN- γ | -0.001 | 0.171 | 0.089 | 0.009 | 0.076 | 0.083 | 0.093 | 0.065 |
| Nasal tissue RT-PCR (n=102) | | | | | | | | |
| IL-4 | 0.412*** | 0.496* | 0.586** | 0.824*** | 0.575** | 0.607** | 0.620*** | 0.605*** |
| IL-5 | 0.129 | 0.045 | 0.253 | 0.229 | -0.004 | 0.082 | 0.078 | 0.104 |
| IL-6 | 0.001 | -0.183 | -0.322 | -0.236 | -0.202 | -0.250 | -0.024 | -0.042 |
| IL-17A | 0.175 | 0.132 | 0.063 | 0.127 | 0.144 | 0.123 | 0.145 | 0.186 |
| IFN- γ | 0.069 | 0.165 | 0.281 | 0.151 | 0.143 | 0.194 | 0.081 | 0.082 |
| Tissue eosinophils (n=103) | 0.474*** | 0.379*** | 0.417*** | 0.434*** | 0.468*** | 0.469*** | 0.533*** | 0.600*** |

ELISA, enzyme-linked immunosorbent assay; IgE, immunoglobulin E; OVA, ovalbumin; IL, interleukin; IFN- γ , interferon gamma; RT-PCR, real-time reverse transcription-polymerase chain reaction.

* $P < 0.05$; ** $P < 0.01$; *** $P < 0.001$.