**Supplementary Table 2. Comparison of eosinophils and IgE in HV vs IBD.**

| Eosinophils | Number | Eosinophils count Mean ± SEM | Median | Std. Deviation | Range | Eosinophils mean HV vs IBD M-W test | Correlation of VAS score Spearman’s r | Correlation of TEWL Spearman’s r | Correlation of SCH Spearman’s r |
|-------------|--------|-----------------------------|--------|----------------|-------|------------------------------------|-------------------------------------|----------------------------------|----------------------------------|
| Healthy volunteers | 39     | 178.9 ± 31.49 | 140.4  | 196.6          | 32.9 to 974.9 | $P = 0.10$ ns | -0.005 | 0.98 ns | 0.077 | 0.64 ns | -0.065 | 0.69 ns |
| IBD total     | 71     | 208.0 ± 18.29 | 163.0  | 154.1          | 15.0 to 713.8 | -0.1803 | 0.13 ns | 0.043 | 0.72 ns | 0.0584 | 0.63 ns |

| IgE | Number | Serum IgE Mean ± SEM | Median | Std. Deviation | Range | Serum IgE mean HV vs IBD M-W test | Correlation of VAS score Spearman’s r | Correlation of TEWL Spearman’s r | Correlation of SCH Spearman’s r |
|-----|--------|---------------------|--------|----------------|-------|------------------------------------|-------------------------------------|----------------------------------|----------------------------------|
| Healthy volunteers | 39     | 190.5 ± 54.50 | 62.1   | 340.3          | 3.2 to 1990 | $P = 0.62$ ns | -0.013 | 0.93 ns | 0.105 | 0.53 ns | -0.331 | 0.039* |
| IBD total     | 43     | 167.0 ± 42.76 | 71.9   | 280.4          | 1.2 to 1346 | -0.1241 | 0.48 ns | -0.241 | 0.12 ns | -0.029 | 0.85 ns |