**Supplemental Table 3** Frequency, code, and odds ratio (OR) with 95% confidence interval (CI) of each three-locus haplotype observed in healthy, Addisonian (AD) and symmetrical lupoid onychodystrophy (SLO) bearded collies in the combined dataset. Text in bold indicates the haplotype frequency significantly differed between cases and controls. Haplotype codes are as used in Table 5; additional codes added as needed.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Code | Haplotype | Controls | | | AD | | | | SLO | | | |
|  | DLA-DRB1/DQA1/DQB1 | 2*n*=336 | % | 2*n*=180 | | % | OR (95%CI) | p-value† | 2*n*=100 | % | OR (95%CI) | p-value† |
| 1 | 009:01/001:01/008:02 | 35 | 10.4 | 45 | | 25.0 | **2.87 (1.76 – 4.66)** | **0.00002** | 1 | 1.0 | **0.09 (0.01 – 0.64)** | **0.00302** |
| 2 | 015:01/006:01/003:01 | 39 | 11.6 | 22 | | 12.2 | 1.06 (0.61 – 1.85) | 0.8865 | 4 | 4.0 | **0.32 (0.11 – 0.91)** | **0.03361** |
| 3 | 015:01/006:01/023:01 | 40 | 11.9 | 31 | | 17.2 | 1.54 (0.93 – 2.56) | 0.10779 | 2 | 2.0 | **0.15 (0.04 – 0.64)** | **0.00306** |
| 4 | 018:01/001:01/002:01 | 109 | 32.4 | 42 | | 23.3 | **0.63 (0.42 – 0.96)** | **0.03310** | 47 | 47.0 | **1.85 (1.17 – 2.91)** | **0.00898** |
| 5 | 018:01/001:01/008:02 | 91 | 27.1 | 35 | | 19.4 | 0.65 (0.42 – 1.01) | 0.06729 | 46 | 46.0 | **2.29 (1.45 – 3.64)** | **0.00042** |
| 6 | 015:01/006:01/022:01 | 5 | 1.5 | 2 | | 1.1 | 0.74 (0.14 – 3.87) | 1 | 0 | 0.0 | N/A |  |
| 7 | 002:01/009:01/001:01 | 7 | 2.1 | 0 | | 0 | N/A |  | 0 | 0.0 | N/A |  |
| 8 | 023:01/003:01/005:01 | 2 | 0.6 | 0 | | 0 | N/A |  | 0 | 0.0 | N/A |  |
| 9 | 015:02/006:01/023:01 | 1 | 0.3 | 1 | | 0.6 | 1.87 (0.12 – 30.10) | 1 | 0 | 0.0 | N/A |  |
| 10 | 006:01/005:01:1/007:01 | 1 | 0.3 | 0 | | 0 | N/A |  | 0 | 0.0 | N/A |  |
| 11 | 009:01/001:01/008:01:1 | 1 | 0.3 | 0 | | 0 | N/A |  | 0 | 0.0 | N/A |  |
| 12 | 013:01/001:01/002:01 | 2 | 0.6 | 1 | | 0.6 | 0.93 (0.08 – 10.36) | 1 | 0 | 0.0 | N/A |  |
| 13 | 015:01/006:01/020:02 | 2 | 0.6 | 0 | | 0 | N/A |  | 0 | 0.0 | N/A |  |
| 30 | 003:01/001:01/008:02 | 1 | 0.3 | 0 | | 0 | N/A |  | 0 | 0.0 | N/A |  |
| 31 | Eg51v/017:01/038:01 | 0 | 0 | 1 | | 0.6 | N/A |  | 0 | 0.0 | N/A |  |

*N/A* not enough data points to calculate; †Fisher’s exact p-value, significant at p < 0.05