

1 **Supplementary material**

- 2 **Table S1** Summary of salivary Fel d 1 values ($\mu\text{g/ml}$) for Group 1 - Missouri for each cat.
- 3 Number of values, minimum, maximum, range, mean, standard deviation (SD),
- 4 coefficient of variation (CV), geometric mean (GM), and skewness

| Cat | n = | Min | Max | Range | Mean | SD | CV (%) | GM | Skewness |
|------------|------------|------------|------------|--------------|-------------|-----------|---------------|-----------|-----------------|
| 1 | 304 | 0.1 | 1.2 | 1.1 | 0.4 | 0.2 | 49.4 | 0.3 | 1.4 |
| 2 | 310 | 0.1 | 7.4 | 7.3 | 0.5 | 0.5 | 99.4 | 0.4 | 9.5 |
| 4 | 221 | 0.1 | 5.1 | 5.0 | 1.1 | 1.0 | 92.3 | 0.8 | 1.9 |
| 5 | 318 | 0.2 | 11.1 | 10.9 | 1.1 | 0.8 | 67.8 | 1.0 | 7.3 |
| 6 | 324 | 0.1 | 6.7 | 6.7 | 1.2 | 0.8 | 67.7 | 1.0 | 2.6 |
| 8 | 110 | 0.3 | 3.5 | 3.2 | 1.5 | 0.6 | 42.6 | 1.4 | 0.7 |
| 9 | 324 | 0.4 | 4.1 | 3.8 | 1.6 | 0.7 | 46.3 | 1.4 | 0.9 |
| 11 | 324 | 0.4 | 7.0 | 6.6 | 2.1 | 1.3 | 61.6 | 1.8 | 1.3 |
| 12 | 322 | 0.2 | 10.9 | 10.7 | 2.1 | 1.4 | 67.0 | 1.8 | 1.9 |
| 13 | 232 | 0.5 | 9.5 | 9.0 | 2.5 | 1.5 | 60.3 | 2.1 | 1.2 |
| 14 | 182 | 0.7 | 8.8 | 8.2 | 2.5 | 1.5 | 59.7 | 2.2 | 1.8 |
| 16 | 322 | 0.5 | 11.9 | 11.4 | 3.1 | 2.1 | 68.0 | 2.5 | 1.6 |
| 18 | 306 | 0.4 | 13.7 | 13.3 | 3.4 | 2.0 | 58.5 | 3.0 | 1.7 |
| 25 | 232 | 0.4 | 20.4 | 19.9 | 4.2 | 2.2 | 52.9 | 3.7 | 2.2 |
| 32 | 92 | 1.0 | 11.8 | 10.7 | 5.0 | 2.5 | 50.5 | 4.4 | 0.9 |
| 33 | 208 | 0.2 | 18.4 | 18.2 | 5.3 | 2.6 | 49.3 | 4.7 | 1.5 |
| 37 | 232 | 0.7 | 23.3 | 22.6 | 6.5 | 3.7 | 57.6 | 5.6 | 1.7 |
| 39 | 98 | 0.8 | 23.7 | 22.9 | 6.7 | 3.1 | 46.0 | 6.0 | 2.2 |
| 40 | 53 | 2.7 | 12.4 | 9.7 | 6.8 | 1.9 | 28.2 | 6.5 | 0.1 |
| 44 | 182 | 0.7 | 21.7 | 21.1 | 8.1 | 3.8 | 47.2 | 7.2 | 0.8 |
| 46 | 322 | 2.0 | 27.2 | 25.2 | 8.7 | 4.0 | 45.4 | 7.9 | 1.1 |
| 50 | 316 | 1.7 | 47.8 | 46.1 | 9.5 | 5.6 | 59.6 | 8.2 | 2.4 |
| 53 | 318 | 1.6 | 34.0 | 32.4 | 11.8 | 4.8 | 41.1 | 10.9 | 1.5 |
| 56 | 322 | 2.0 | 56.8 | 54.7 | 14.6 | 9.0 | 61.3 | 12.3 | 1.4 |
| 57 | 322 | 0.7 | 45.0 | 44.3 | 15.2 | 7.7 | 50.9 | 13.3 | 1.0 |
| 61 | 232 | 4.9 | 103.1 | 98.3 | 20.5 | 11.1 | 54.3 | 18.4 | 3.0 |
| 63 | 232 | 2.8 | 84.7 | 81.9 | 23.4 | 13.8 | 59.1 | 20.0 | 1.6 |

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9 **Table S2** Summary of salivary Fel d 1 values ($\mu\text{g/ml}$) for Group 2 - Ontario for each cat.
10 Number of values, minimum, maximum, range, mean, standard deviation (SD),
11 coefficient of variation (CV), geometric mean (GM), and skewness *The 0 value was
12 ignored to calculate geometric mean

| Cat | n = | Min | Max | Range | Mean | SD | CV (%) | GM | Skewness |
|------------|------------|------------|------------|--------------|-------------|-----------|---------------|-----------|-----------------|
| 3 | 307 | 0.2 | 5.8 | 5.6 | 1.0 | 0.8 | 74.9 | 0.8 | 2.1 |
| 7 | 309 | 0.2 | 11.6 | 11.4 | 1.2 | 1.0 | 82.8 | 1.0 | 4.5 |
| 10 | 306 | 0.4 | 9.3 | 8.9 | 1.7 | 0.9 | 54.8 | 1.5 | 2.5 |
| 15 | 310 | 0.8 | 17.0 | 16.2 | 2.6 | 1.9 | 72.2 | 2.2 | 3.6 |
| 17 | 297 | 0.3 | 26.5 | 26.2 | 3.3 | 4.6 | 139.0 | 2.0 | 2.8 |
| 19 | 307 | 0.8 | 23.0 | 22.2 | 3.9 | 3.0 | 78.1 | 3.2 | 2.8 |
| 20 | 299 | 0.5 | 17.8 | 17.4 | 3.9 | 2.0 | 51.5 | 3.5 | 2.1 |
| 21 | 300 | 0.6 | 26.2 | 25.6 | 4.0 | 2.9 | 72.9 | 3.3 | 2.6 |
| 22 | 310 | 1.0 | 19.6 | 18.6 | 4.0 | 2.2 | 56.1 | 3.6 | 2.9 |
| 23 | 313 | 1.4 | 17.0 | 15.6 | 4.2 | 2.3 | 56.4 | 3.7 | 1.9 |
| 24 | 310 | 1.3 | 16.4 | 15.1 | 4.2 | 2.5 | 59.4 | 3.6 | 1.9 |
| 26 | 305 | 0.9 | 24.0 | 23.1 | 4.2 | 3.5 | 81.4 | 3.4 | 3.1 |
| 27 | 241 | 0.8 | 59.4 | 58.7 | 4.4 | 4.9 | 111.3 | 3.5 | 7.3 |
| 28 | 313 | 1.1 | 27.3 | 26.2 | 4.5 | 3.0 | 66.9 | 3.8 | 2.8 |
| 29 | 289 | 0.6 | 43.3 | 42.7 | 4.5 | 4.5 | 99.8 | 3.5 | 4.2 |
| 30 | 301 | 1.0 | 26.2 | 25.2 | 4.6 | 3.2 | 68.7 | 3.8 | 2.3 |
| 31 | 297 | 0.5 | 38.0 | 37.5 | 4.9 | 4.0 | 80.9 | 4.0 | 3.6 |
| 34 | 256 | 0.0 | 54.0 | 54.0 | 5.7 | 5.9 | 103.3 | 4.5* | 5.1 |
| 35 | 310 | 0.5 | 77.2 | 76.6 | 5.8 | 8.1 | 140.9 | 3.8 | 4.8 |
| 36 | 311 | 2.3 | 80.9 | 78.6 | 6.4 | 5.4 | 83.6 | 5.6 | 9.1 |
| 38 | 308 | 1.8 | 39.1 | 37.3 | 6.6 | 4.0 | 59.7 | 5.8 | 2.9 |
| 41 | 294 | 1.9 | 26.3 | 24.4 | 7.3 | 4.0 | 54.3 | 6.5 | 1.8 |
| 42 | 301 | 1.2 | 110.4 | 109.2 | 7.9 | 7.9 | 101.1 | 6.6 | 8.3 |
| 43 | 288 | 0.8 | 51.7 | 50.9 | 8.0 | 6.6 | 82.0 | 6.5 | 2.9 |
| 45 | 306 | 2.1 | 57.3 | 55.2 | 8.5 | 6.7 | 79.0 | 7.2 | 4.2 |
| 47 | 294 | 1.7 | 119.2 | 117.5 | 9.3 | 14.6 | 157.8 | 5.8 | 4.4 |
| 48 | 303 | 0.9 | 90.6 | 89.7 | 9.3 | 10.1 | 109.3 | 7.0 | 4.8 |
| 49 | 280 | 0.8 | 46.4 | 45.5 | 9.4 | 5.4 | 57.4 | 8.3 | 2.8 |
| 51 | 245 | 0.9 | 59.8 | 59.0 | 11.1 | 8.4 | 76.1 | 8.5 | 2.0 |
| 52 | 307 | 1.4 | 118.0 | 116.6 | 11.4 | 10.2 | 89.0 | 9.3 | 5.3 |
| 54 | 309 | 1.5 | 123.2 | 121.7 | 11.9 | 12.6 | 106.0 | 8.5 | 3.7 |
| 55 | 287 | 1.9 | 111.7 | 109.8 | 14.2 | 10.9 | 76.8 | 11.9 | 4.3 |
| 58 | 303 | 2.9 | 195.3 | 192.5 | 16.6 | 15.1 | 90.8 | 13.9 | 6.9 |
| 59 | 293 | 4.2 | 232.3 | 228.1 | 17.1 | 18.4 | 107.3 | 13.5 | 6.9 |
| 60 | 300 | 2.4 | 104.4 | 102.0 | 18.3 | 11.6 | 63.4 | 15.5 | 2.6 |

| | | | | | | | | | |
|-----------|-----|-----|-------|-------|------|------|-------|------|-----|
| 62 | 271 | 1.4 | 210.7 | 209.3 | 22.0 | 17.0 | 77.4 | 18.4 | 6.1 |
| 64 | 301 | 4.2 | 322.1 | 317.9 | 35.0 | 47.1 | 134.3 | 21.6 | 3.4 |

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16 **Table S3** Success in percent of correctly identifying low-producer cats based on their
 17 average salivary Fel d 1 level only, or combined with their standard deviation (SD), in
 18 relation to the number of samples collected

| Number of salivary Fel d 1 samples | Randomly selected variables | | Sequentially ordered variables | |
|--|--------------------------------|-------------------|-----------------------------------|-------------------|
| | Average | Average and SD | Average | Average and SD |
| 1 | 95% | - | 86% | - |
| 2 | 86% | 86% | 82% | 82% |
| 3 | 86% | 86% | 82% | 91% |
| 4 | 91% | 91% | 77% | 91% |
| 5 | 86% | 91% | 82% | 86% |
| 6 | 82% | 91% | 82% | 91% |
| 7 | 82% | 91% | 91% | 91% |
| 8 | 86% | 95% | 91% | 91% |
| 9 | 86% | 95% | 91% | 91% |
| 10 | 91% | 95% | 91% | 91% |
| 20 | 86% | 100% | 68% | 95% |

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