Supplementary Material

Table 1. Results of HEXACO questionnaire of 193 German dairy farmers

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| HEXACO Factor | Mean ± standard deviation | Minimum – Maximum |
| Emotionality | 2.8 ± 0.6 | 1.3 – 4.5 |
| Extraversion | 3.7 ± 0.5 | 2.3 – 4.8 |
| Agreeableness | 3.0 ± 0.5 | 1.5 – 4.5 |
| Conscientiousness | 3.7 ± 0.6 | 2.0 – 5.0 |
| Openness | 3.4 ± 0.6 | 1.8 – 5.0 |

Table 2. Results of the elastic net regression model for *Fasciola hepatica* and *Ostertagia ostertagi*

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| Covariate | Model for *F.hepatica* | Model for *O. ostertagi* |
| Point estimate\* | Point estimate\* |
| Pasture access  | **2.1** | **1.1** |
| *O. ostertagi* seropositivity | **1.5** | \_ |
| *F. hepatica* seropositivity | \_ | **1.3** |
| Conscientiousness | **0.2** | -0.05 |
| Farming type (organic farming) | **0.2** | **0.6** |
| Agreeableness | **-0.1** | -0.02 |
| Openness | . | . |
| Extraversion | . | **-0.3** |
| Emotionality | . | **-0.3** |
| Emotional relationship (neutral) |  | . |
| Emotional relationship (agree) | . | . |
| Income (supplementary income) | . | . |
| Satisfaction animal health (neutral) | . | **0.5** |
| Satisfaction animal health (agree) | . | . |
| Lameness | . | -0.01 |
| Facial expression (at every calving) | . | . |
| Facial expression (in conspicuous calving) | . | . |
| Herd size | . | . |
| Year 1 | . | . |
| Year 2 | . | . |
| Year 3 | . | . |
| Pressure (neutral) | . | . |
| Pressure (agree) | . | . |
| Continuing education (neutral) | . | . |
| Continuing education (agree) | . | . |
| Animal handling (neutral) | . | . |
| Animal handling (agree) | . | . |
| Care of male calves (agree) | . | . |
| Patience (neutral) | . | . |
| Patience (agree) | . | . |
| Discussions improvement (neutral) | . | 0.06 |
| Discussions improvement (agree) | . | -0.1 |
| Pain (neutral) | . | . |
| Pain (agree) | . | . |
| Observation behavior (at every calving) | . | . |
| Observation behavior (at conspicuous calving) | . | . |

\* Larger values of coefficients reflect a stronger influence of the corresponding covariate on the target. Covariates set to zero with no influence on seropositivity are marked by “.”. Values > 0.1 are in bold.

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