Additional file 2: Figure S2. Partial least-squares discriminant analysis model overview depicting the optimal number of components used to build the model (p1-p5). The Y-axis represents the cumulative fit (R²Y) and prediction (Q²Y) coefficients for each of the components (A). Validation of the model (permutation test, 500 permutations) to estimate R²Y and Q²Y significance. pR²Y and pQ² are considered significant at P < 0.05 (B). Observation diagnostics was performed to detect outliers by plotting the score and orthogonal distances of each sample (red = control fish; blue = fish with low/medium infection degree; green = fish with high infection degree). No outliers were detected in this model (C) (PDF).