**Table S1** Prediction capacity of the multi-variate prediction models trained from the lipid profiles of the infected and control locust brains. Accuracy of each model was estimated using leave-one-out cross-validation

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| --- | --- | --- |
| Lipids used in model | Accuracy  | Misclassified samples |
| 7: C14:0, C16:0, C16:1, C18:0, C18:1n9c, C18:2n6c and C18:3n3 | 98% | 1 control sample of day 4 predicted as infected |
| 4: C16:0, C16:1, C18:2n6c and C18:3n3 | 98% | 1 control sample of day 4 predicted as infected |
| 3: C16:1, C18:2n6c and C18:3n3 | 98% | 1 control sample of day 4 predicted as infected |
| 2: C16:1 and C18:2n6c | 94% | 1 control sample of day 4 predicted as infected; 1 infected sample of day 1 predicted as control; 1 infected sample of day 5 predicted as control |