**Table S3** Network topology of fungi in the different life stages and associated habitats of *Anoplophora glabripennis*

| Samples | Nodes | Edges | Positive correlation ratio (%) | Negative correlation ratio (%) | Ascomycota (%) | Basidiomycota (%) | Mucoromycota (%) |
|---|---|---|---|---|---|---|---|
| Egg | 42 | 165 | 98.18 | 1.92 | 80.95 | 16.67 | 2.38 |
| Female gut | 43 | 77 | 54.55 | 45.45 | 81.4 | 16.28 | 2.33 |
| Larval gut | 33 | 38 | 92.11 | 7.89 | 87.88 | 12.12 | 0.00 |
| Male gut | 49 | 294 | 62.24 | 7.76 | 79.59 | 18.37 | 2.04 |
| Oviposition slit | 33 | 51 | 80.38 | 19.62 | 81.82 | 18.18 | 0.00 |
| Frass | 29 | 32 | 68.75 | 31.25 | 89.66 | 10.34 | 0.00 |