Table 3: Set up of the Taiwan-Europe fixed-effects linear models: estimated terms, response variables, additional explanatory variables and minimal adequate models.

| Estimated term | Model no | Response variable | Additional explanatory variables in the maximal models | Explanatory variables and interactions in the minimal adequate models |
|----------------|----------|-------------------|------------------------------------------------------|-------------------------------------------------|
| Recovery       | 1        | Numbers of L3 + L4 + adults recovered alive | Eel sex | Eel species, Parasite population, Dpi, Eel species*Dpi, Parasite population*Dpi, Eel species*Parasite population |
|                | 2        | Number of L3 recovered alive | Number of L4 recovered alive, Number of adults recovered alive, Number of dead larvae, Number of dead adults, Mean length of adults recovered alive, Number of eggs | Eel species, Parasite population, Dpi, Number of L4 recovered alive, Mean length of adults, Number of adults recovered alive, Eel species*Parasite population |
|                | 3        | Number of L4 recovered alive | Number of L3 recovered alive, Number of adults recovered alive, Number of dead larvae, Number of dead adults, Mean length of adults recovered alive, Number of eggs | Eel species, Parasite population, Dpi, Number of L3 recovered alive, Eel species*Parasite population, Eel species*Dpi, Parasite population*Dpi, Eel species*Parasite population*Dpi |
|                | 4        | Number of adults recovered alive | Number of L3 recovered alive, Number of L4 recovered alive, Number of dead larvae, Number of dead adults, Number of eggs | Eel species, Parasite population, Dpi, Number of dead adults, Number of eggs, Eel species*Dpi, Parasite population*Number of dead adults, Eel species*Number of eggs, Parasite population*Number of eggs |
|                | 5        | Number of dead adults | Number of L3 recovered alive, Number of L4 recovered alive, Number of adults recovered alive | Eel species, Parasite population, Dpi |
| Estimated term | Model no | Response variable | Additional explanatory variables in the maximal models | Explanatory variables and interactions in the minimal adequate models |
|----------------|----------|-------------------|------------------------------------------------------|---------------------------------------------------------------|
|                |          |                   | Number of dead larvae                                 | Number of dead larvae                                         |
|                |          |                   | Mean length of adults recovered alive                 | Number of eggs                                                |
|                |          |                   | Number of eggs                                        | Number of adults recovered alive                              |
|                |          |                   | Eel species*Dpi                                       | Parasite population*Number of dead larvae                     |
|                |          |                   | Eel species*Number of dead larvae                     | Number of eggs                                                |
|                |          |                   | Parasite population*Number of adults                  |                                                              |
|                | 6        | Number of dead larvae | Number of L3 recovered alive                          | Eel species                                                   |
|                |          |                   | Number of L4 recovered alive                          | Parasite population                                           |
|                |          |                   | Number of adults recovered alive                      | Dpi                                                          |
|                |          |                   | Number of dead adults                                 | Number of dead adults                                         |
|                |          |                   | Mean length of adults recovered alive                 | Eel species*Parasite population                               |
|                |          |                   | Number of eggs                                        | Eel species*Dpi                                               |
|                |          |                   |                                                     | Eel species*Number of dead adults                             |
| Reproductive  | 7 (big   | Log number of eggs | Number of L3 recovered alive                          | Eel species                                                   |
| potential      | model)   |                   | Number of L4 recovered alive                          | Dpi                                                          |
|                |          |                   | Number of adults recovered alive                      | Number of dead adults                                         |
|                |          |                   | Number of dead larvae                                 | Mean length of adults recovered alive                         |
|                |          |                   | Mean length of adults recovered alive                 | Eel species*Dpi                                               |
|                | 8 (small | Log number of eggs | Number of L3 recovered alive                          | Eel species                                                   |
|                | model)   |                   | Number of L4 recovered alive                          | Dpi                                                          |
|                |          |                   | Number of dead larvae                                 | Eel species*Dpi                                               |