|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Dependent variable** | **Fixed effects**  **(scaled and centred)** | **Random effects** | **Distribution, link function** |
| **Maternal effects** |  |  |  |  |
|  | Egg size | Female mass\*Temperature  Egg count  Parent days in treatment | Female | Gaussian, identity |
|  | Clutch size | Female mass\*Temperature  Egg size | Female | Gaussian, identity |
|  | Reproductive output | Female mass\*Temperature | Female | Gaussian, identity |
|  | Yolk Sac | Female mass\*Temperature  Parent days in treatment | Female | Gaussian, identity |
|  |  |  |  |  |
| **Standard Length** | Hatching | Male standard length\*Temperature  Parental days in treatment | Male | Gaussian, identity |
|  | 1-month | Male standard length\*Temperature  Parental days in treatment  density | Male | Gaussian, identity |
|  | 2-month | Male standard length\*Temperature  Parental days in treatment  density | Male | Gaussian, identity |
|  | 2.5-month | Male standard length\*Temperature  Parental days in treatment  Density  Age (days) | Male | Gaussian, identity |
|  |  |  |  |  |
| **Mass** | Hatching | Male mass\*Temperature  Parental days in treatment | Male | Gaussian, log  (Dispformula = ~Temperature) |
|  | 1-month | Male mass\*Temperature  Density | Male | Gamma, log |
|  | 2-month | Male mass\*Temperature  Density | Male | Gaussian, identity |
|  | 2.5-month | Male mass\*Temperature  Density  Age (days)  Parental days in treatment | Male | Gaussian, identity |
|  |  |  |  |  |
| **Oxygen uptake** | Resting oxygen uptake | Paternal resting\*Temperature  Mass | Male  Chamber | Gaussian, identity |
|  | Maximum oxygen uptake | Paternal max\*Temperature  Mass | Male | Gaussian, identity |
|  | Absolute aerobic scope | Paternal AAS\*Temperature  Mass | Male | Gaussian, identity |
|  |  |  |  |  |
| **Growth rate** | Growth rate (standard length) | poly(Age (days), 2)\*Temperature  Density  Paternal standard length  Parental days in treatment | Male | Gaussian, identity  (Dispformula = ~Age) |
|  | Growth rate (mass) | poly(Age (days),2)\*Temperature  Density  Paternal mass | Male | Gaussian, identity  (Dispformula =~Age) |