7.3.11 *Liriomyza trifolii* (Mujica et al.)

1. Development Time

Stage: Eggs	Stage: Larvae	Stage: Pupae	Stage: Female	Stage: Male
Model: logit	Model: cloglog	Model: logit	Model: probit	Model: cloglog
Slope: 5.2	Slope: 4.27	Slope: 25.07	Slope: 1.39	Slope: 1.44

2. Development Rate

Stage: Eggs Model 26: Tb Model Parameters: sy=0.168 b=0.214 Tb=8.047 DTb=4.331 Formula: $y \sim sy*e^{(b*(x-Tb)-e^{b*(x-Tb)/DTb})}$
Stage: Larvae Model 13: SharpeDeMichelle 13 Parameters: p=28.839 Tl=308.063 Ha=-62054.236 Hl=-79759.509 Formula: $y \sim (p*(x/298.16)*e^{(Ha/1.987)*((1/298.16)-(1/x))})/(1+e^{(Hl/1.987)*((1/Tl)-(1/x))})$
Stage: Pupae Model 26: Tb Model Parameters: sy=0.057 b=0.211 Tb=10.511 DTb=3.635 Formula: $y \sim sy*e^{(b*(x-Tb)-e^{b*(x-Tb)/DTb})}$

3. Senescence

Stage: Female Model 25: Exponential Simple Parameters: b1=0.081 b2=0.058 Formula: $y \sim b1*e^{(b2*x)}$
Stage: Male Model 25: Exponential Simple Parameters: b1=0.413 b2=0.036 Formula: $y \sim b1*e^{(b2*x)}$

4. Mortality

Stage: Eggs Model 26: Wang 1 Parameters: Topt=29.838 B=3.154 H=0.007 Formula: $y \sim 1 - 1/(e^{(1+e^{-(x-Topt)/B})*(1+e^{-(Topt-x)/B})*H})$
Stage: Larvae Model 27 : Wang 2 Parameters : Tl=26.137 Th=26.137 B=5.504 H=0.167 Formula : $y \sim 1 - 1/(e^{(1+e^{-(x-Tl)/B})*(1+e^{-(Th-x)/B})*H})$
Stage: Pupae Model 30: Wang 5 Parameters: Topt=20.401 B=5.794 H=8.229 Formula: $y \sim 1 - H/(e^{(1+e^{-(x-Topt)/B})*(1+e^{-(Topt-x)/B})})$

5. Total Oviposition

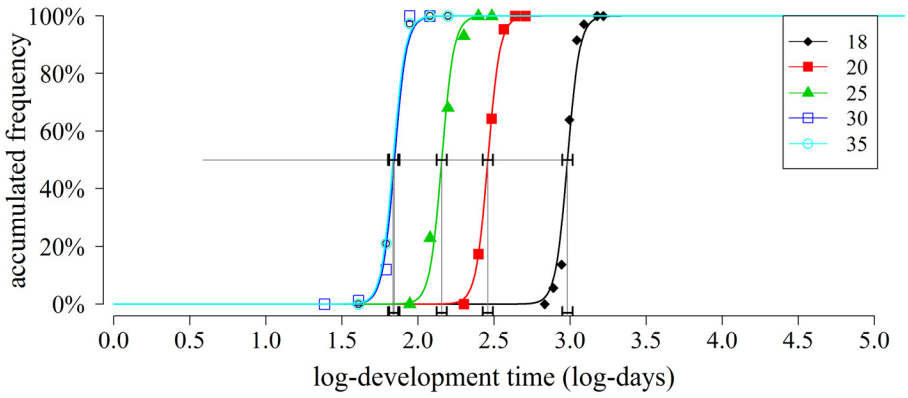
Stage: Female Model 45: Wang 10 Parameters: a=2.895 Tl=42.383 Th=11.828 Bl=11.821 Bh=29.865 Formula: $y \sim e^{a*(1-e^{-(x-Tl)/Bl})*(1-e^{-(Th-x)/Bh})}$

6. Relative Oviposition

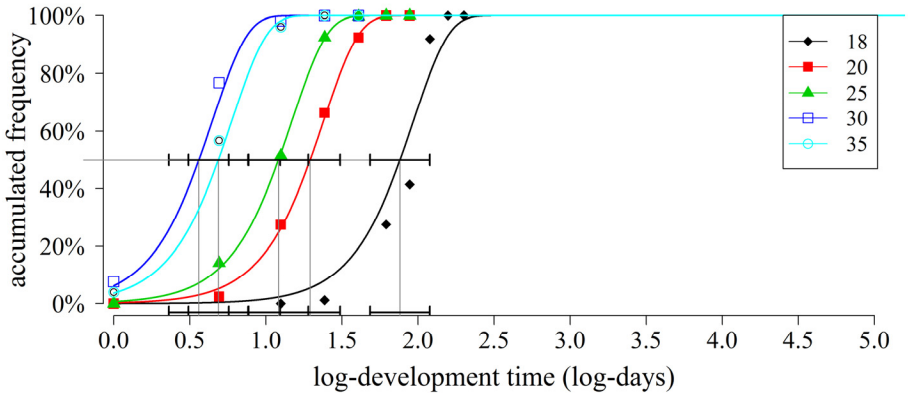
Stage: Female Model 2: Gamma Parameters: a=1.982 b=1.339 Formula: y ~ pgamma(x, a, b)

7. Development Time

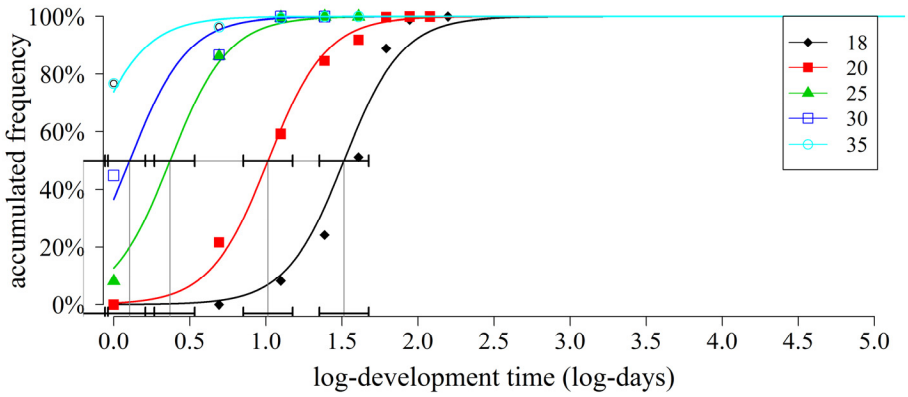
Eggs



Larvae

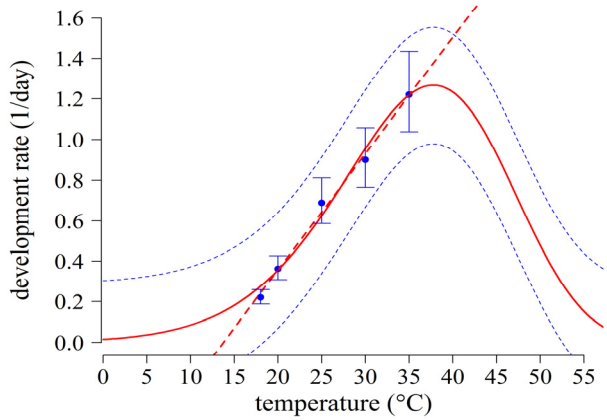


Pupae

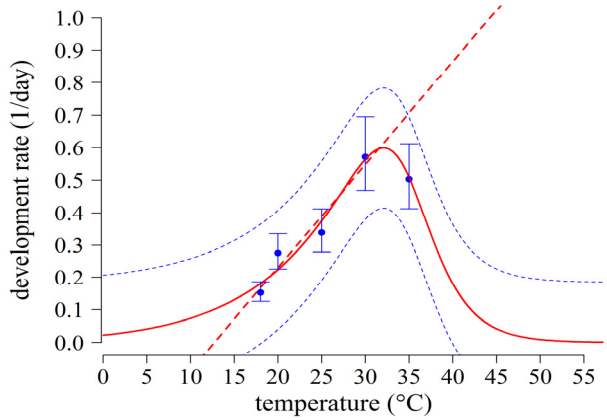


8. Development Rate

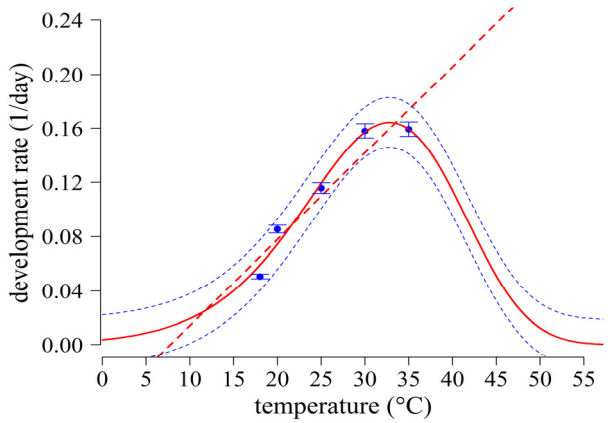
Eggs



Larvae

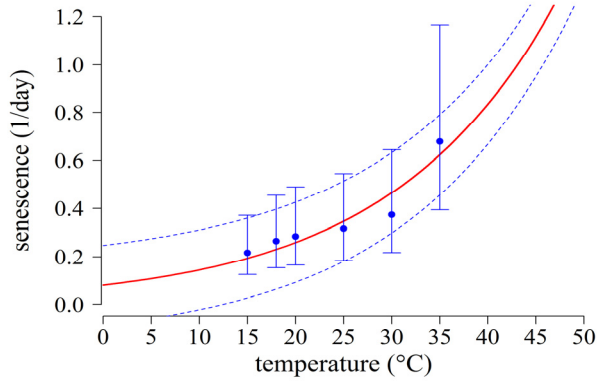


Pupae

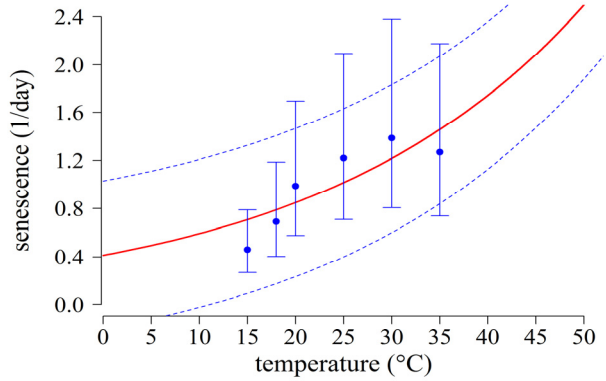


9. Senescence

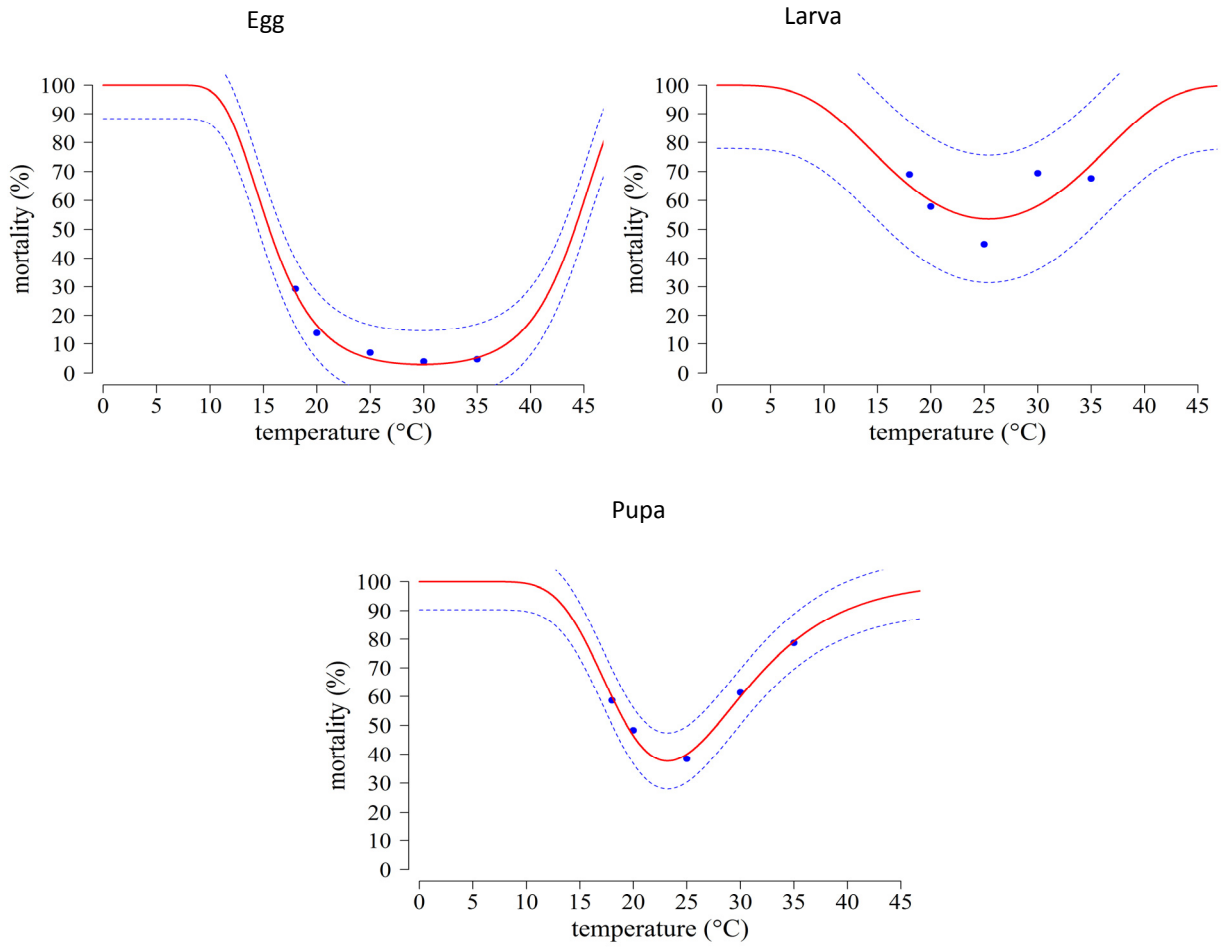
Female



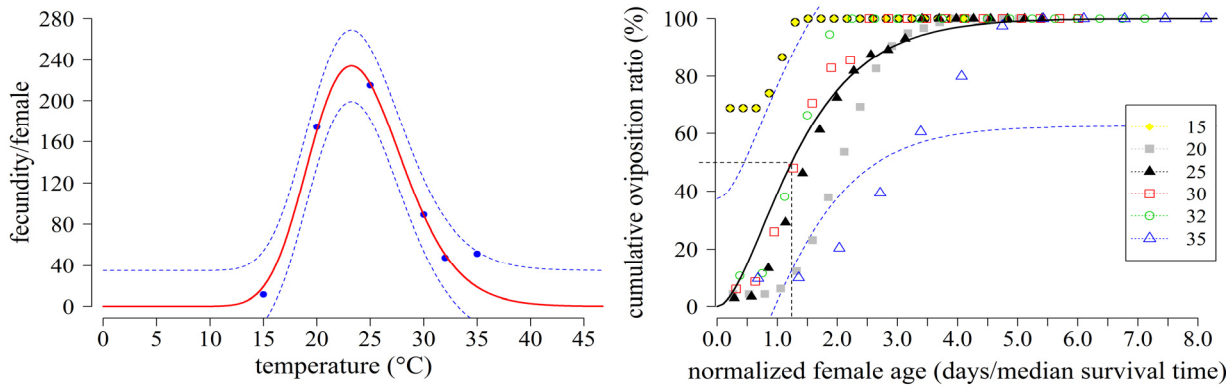
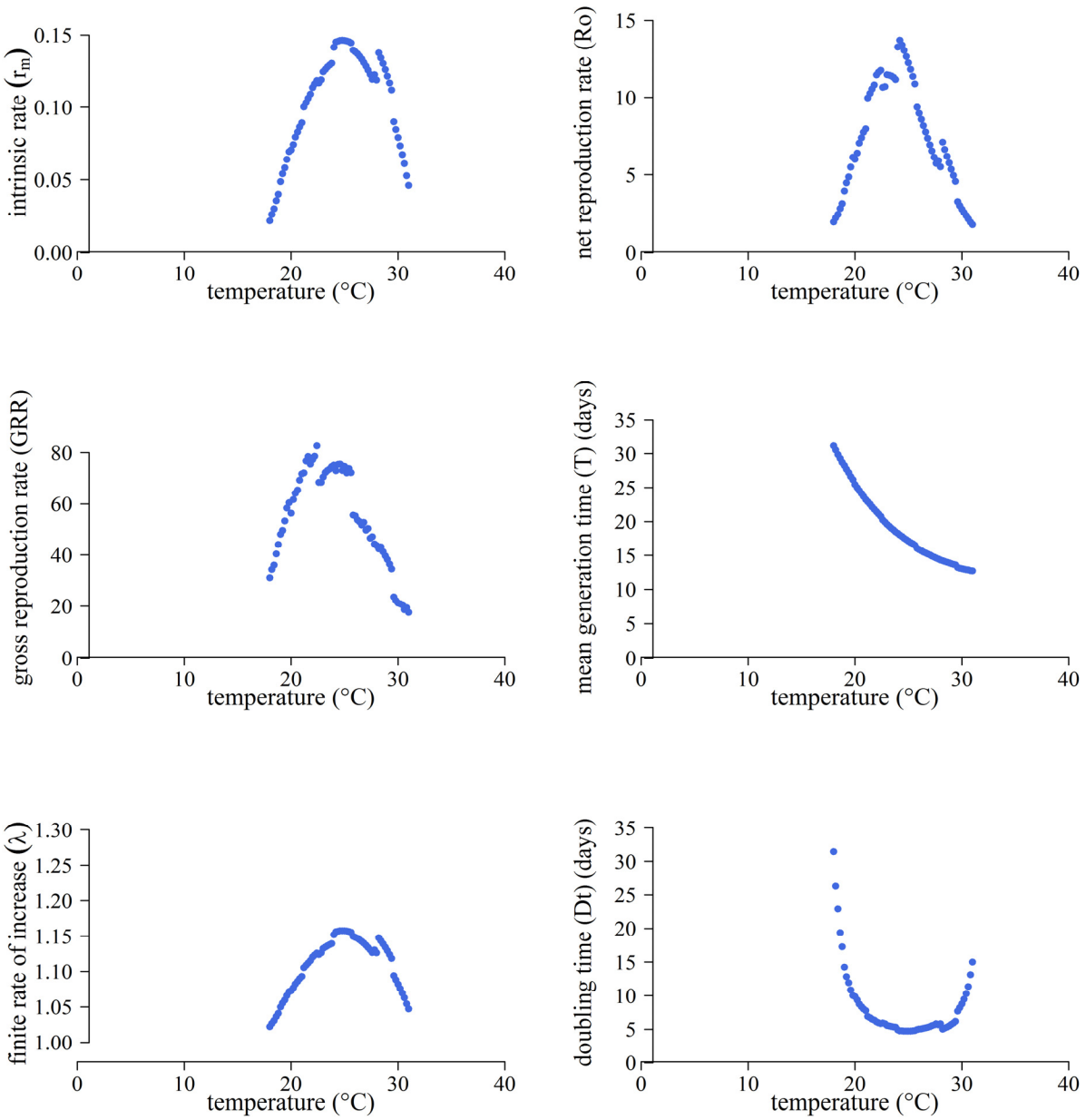
Male



10. Mortality



11. Total and Relative Oviposition



12. Estimated life table parameters using deterministic simulation