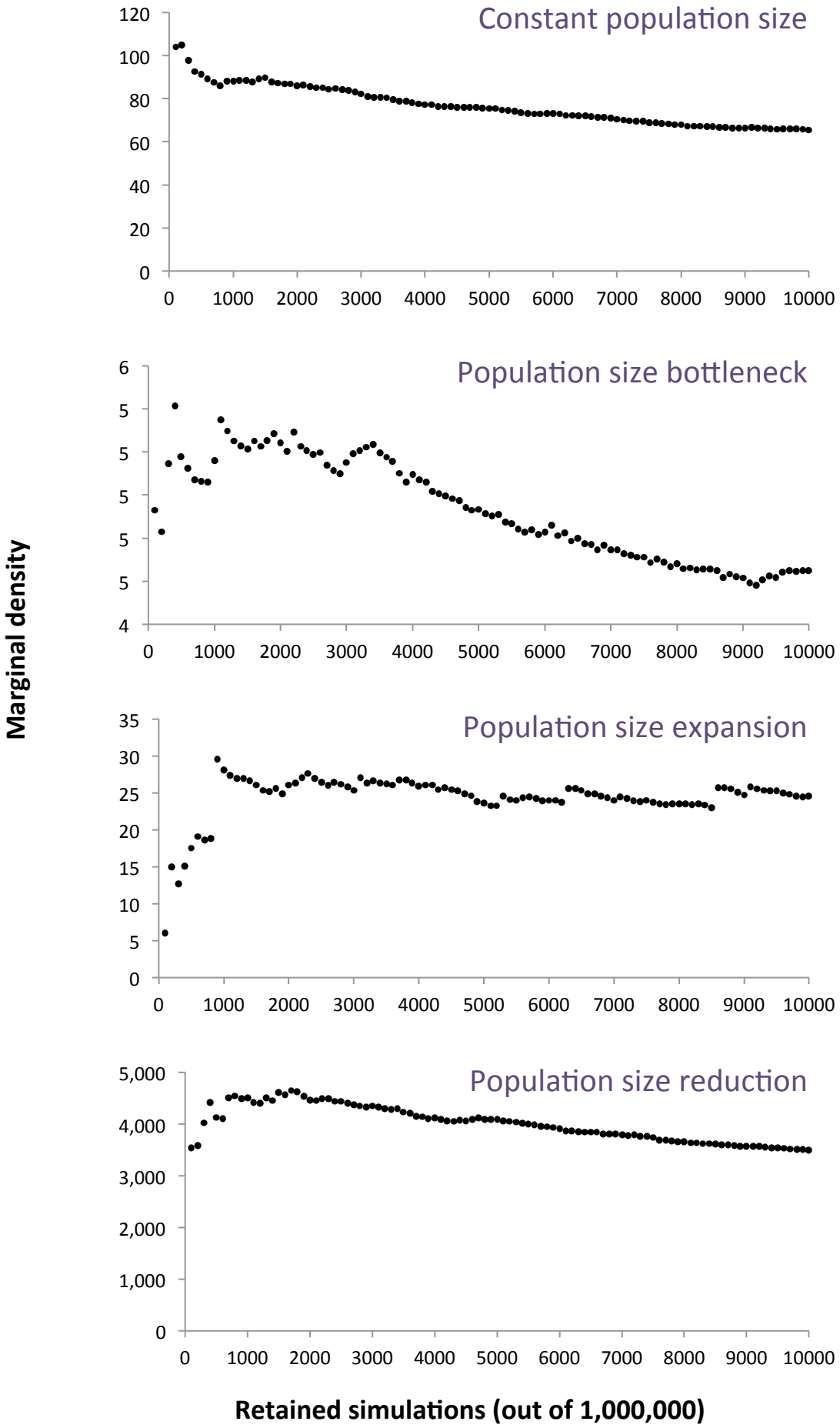
Figure S1. Results of the four demographic models investigated by Approximate Bayesian Computation (ABC) for *Cardamine impatiens* and *C. resedifolia*. For each demographic model we report the marginal densities (a) and modes (b), the bandwidth of the kernel (c), and the posterior probabilities of each of the model parameters (d).

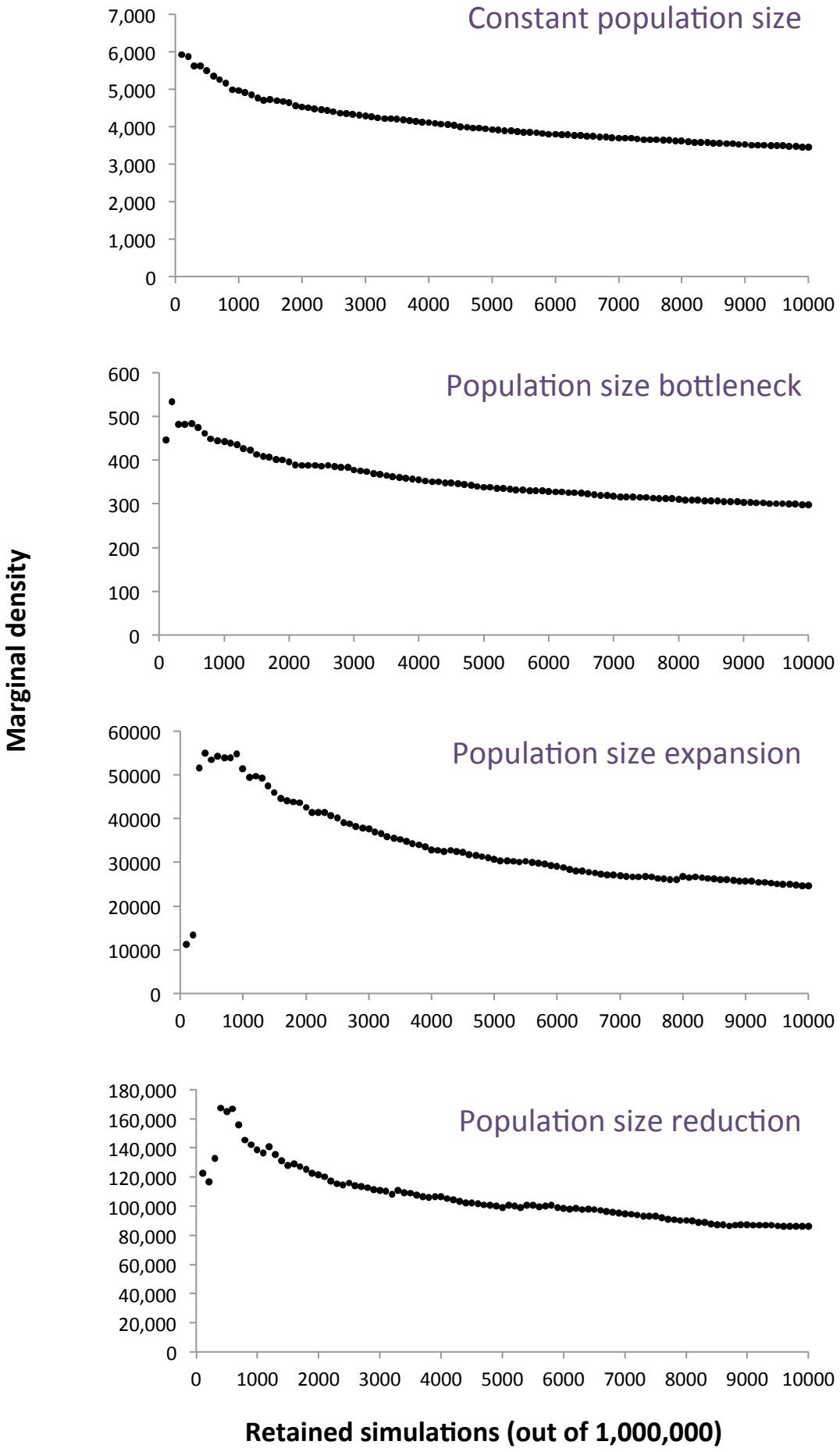
Cardamine impatiens

a

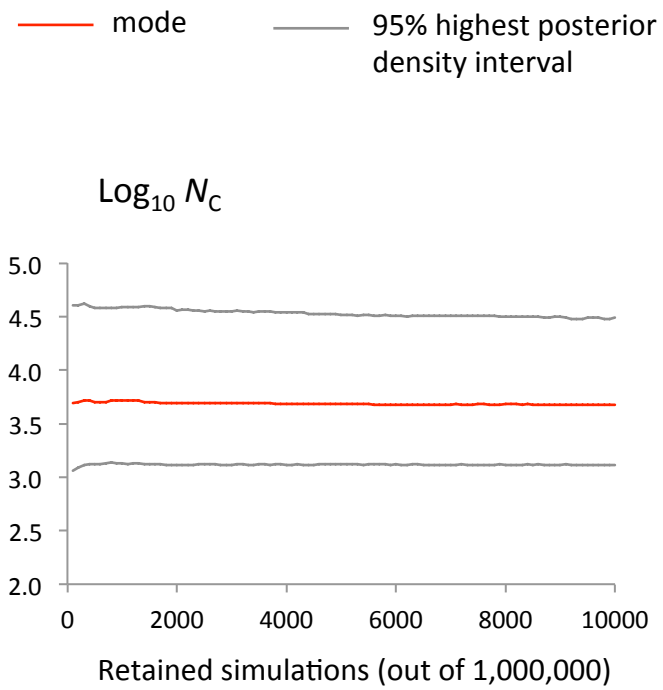


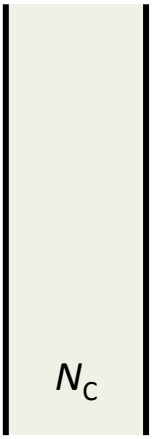
Cardamine resedifolia

a



b *Cardamine impatiens*





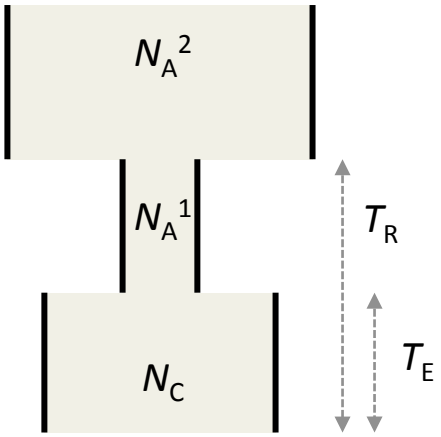
Constant population size (CON)

N_C = Current population size

b *Cardamine impatiens*

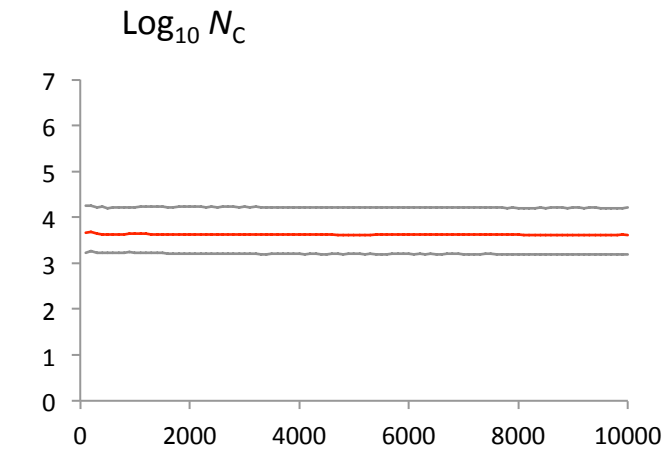
mode

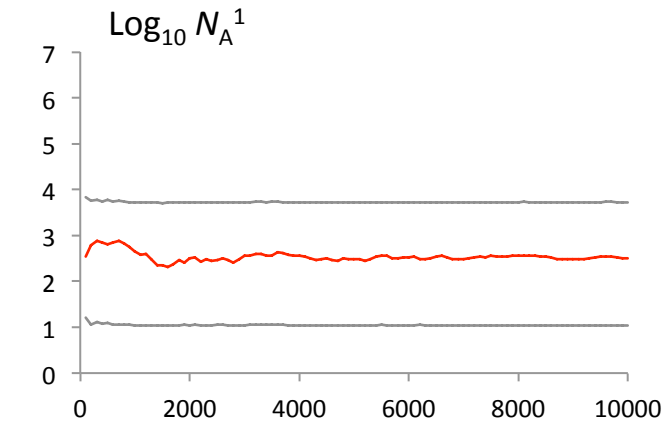
95% highest posterior density interval

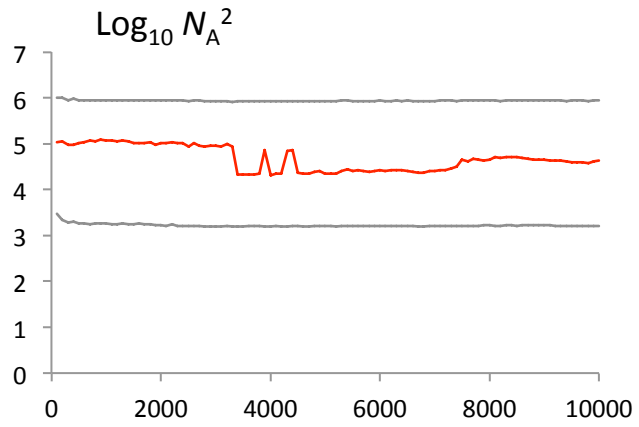


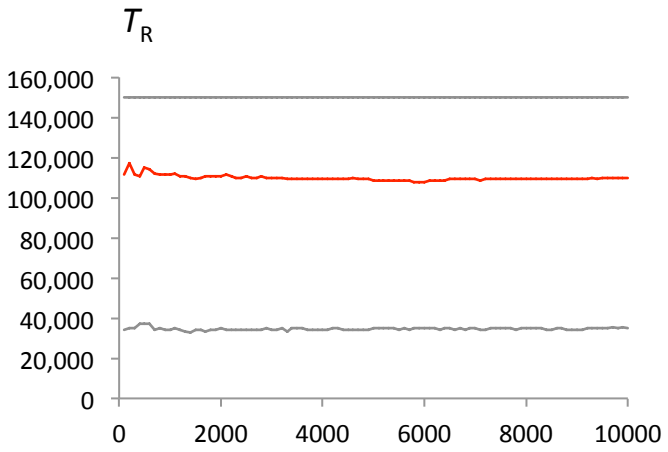
Population size bottleneck (BOT)

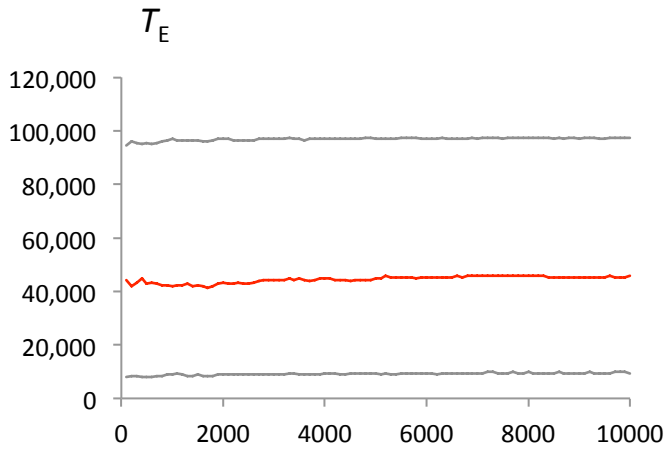
N_C = Current population size
N_A = Ancestral population size
T_R = Time of population size reduction
T_E = Time of population size expansion





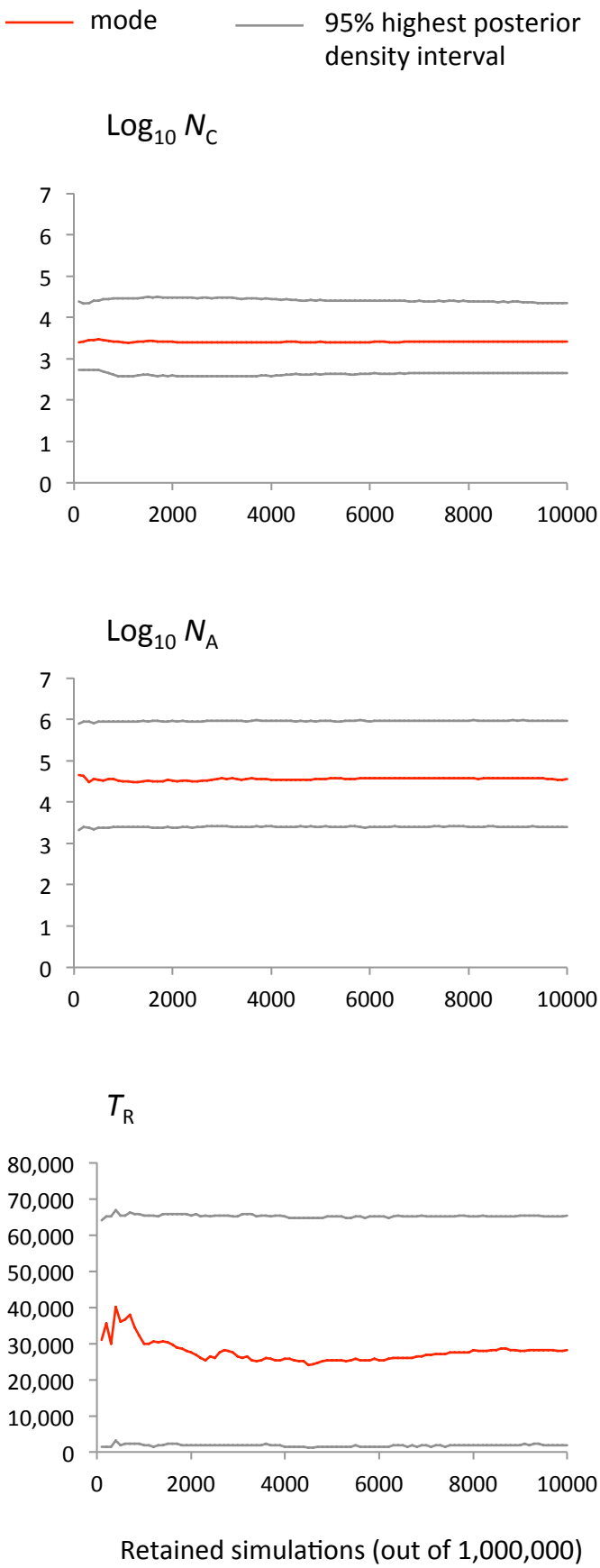


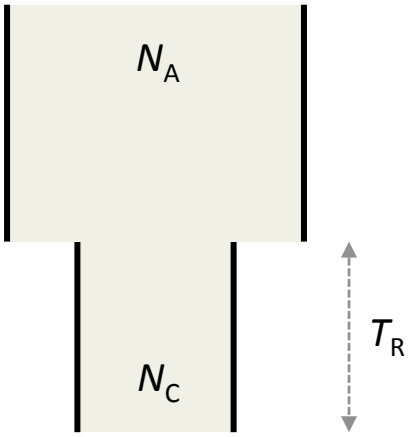




Retained simulations (out of 1,000,000)

b *Cardamine impatiens*

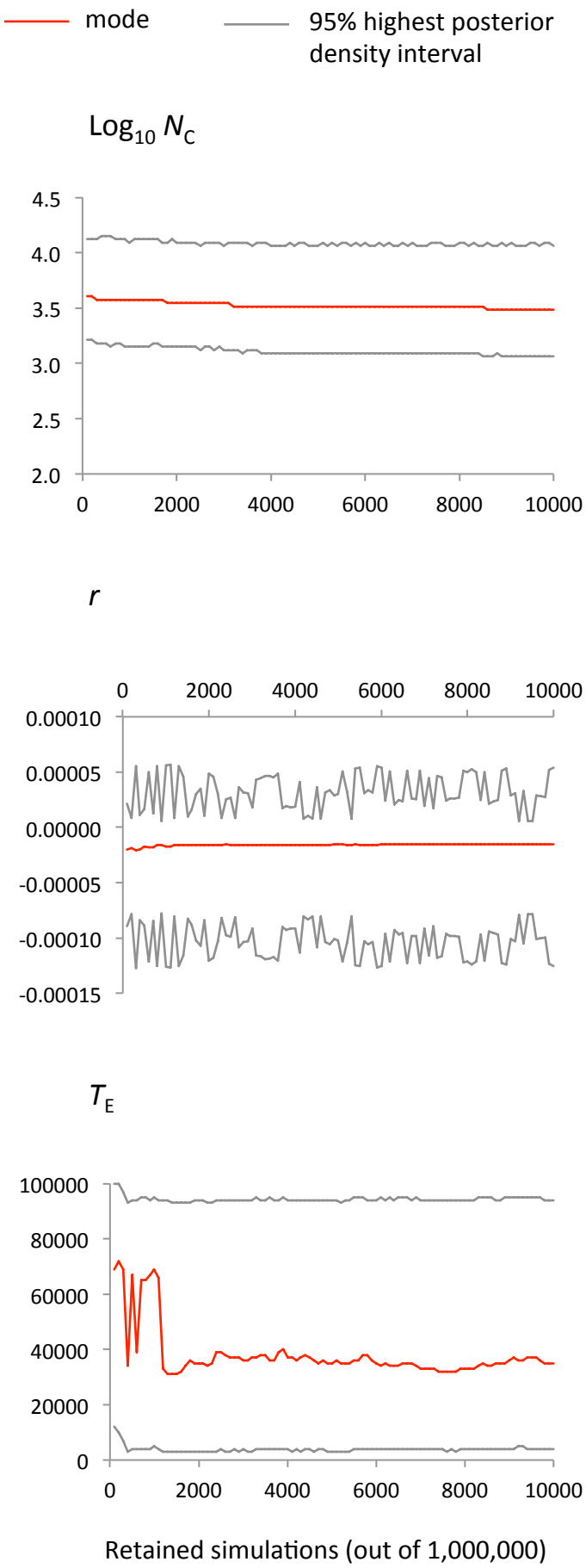


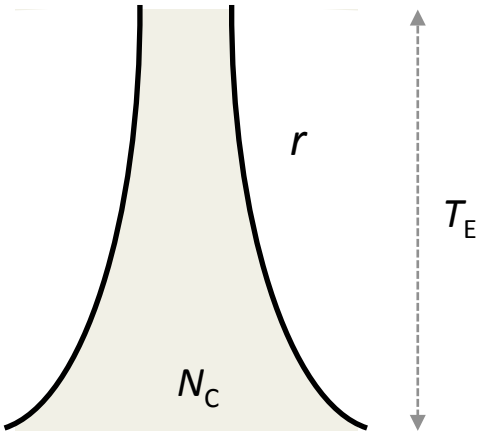


Population size reduction (RED)

N_C = Present population size
N_A = Ancestral population size
T_R = Time of population size reduction

b *Cardamine impatiens*

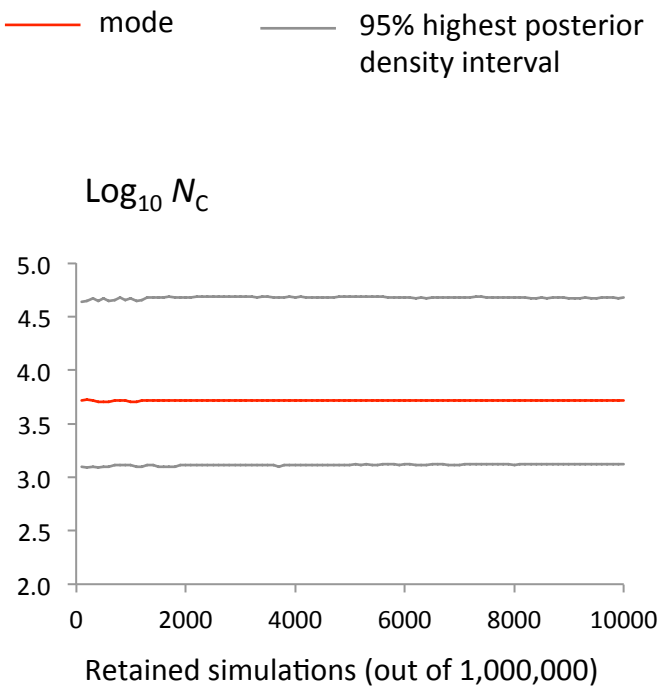


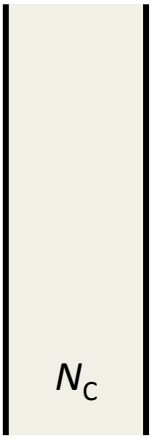


Population size expansion (EXP)

N_C = Current population size
T_E = Time of population size expansion
r = exponential growth parameter

b *Cardamine resedifolia*





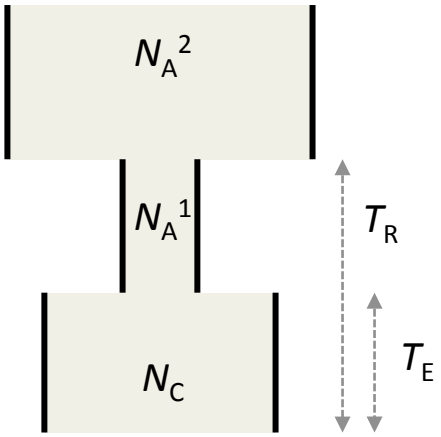
Constant population size (CON)

N_C = Current population size

b *Cardamine resedifolia*

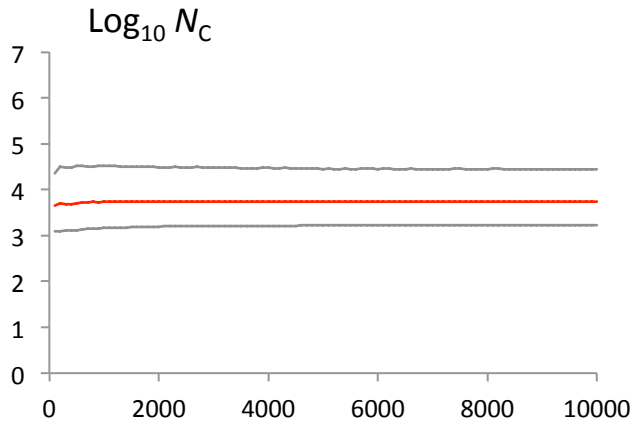
mode

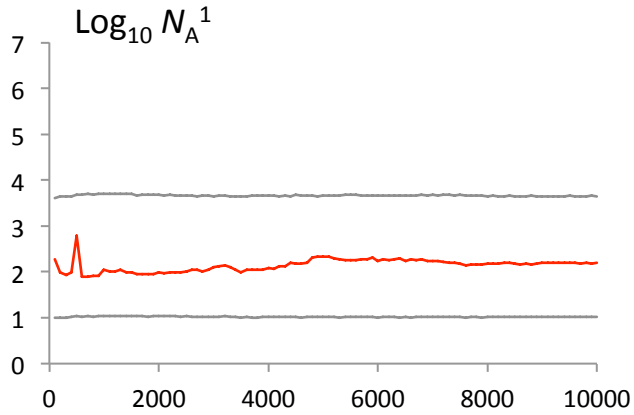
95% highest posterior density interval

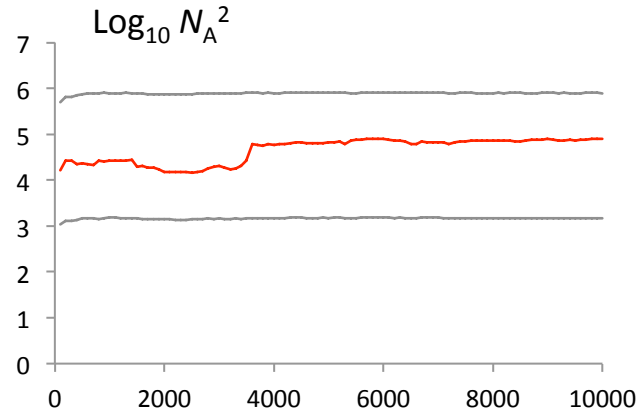


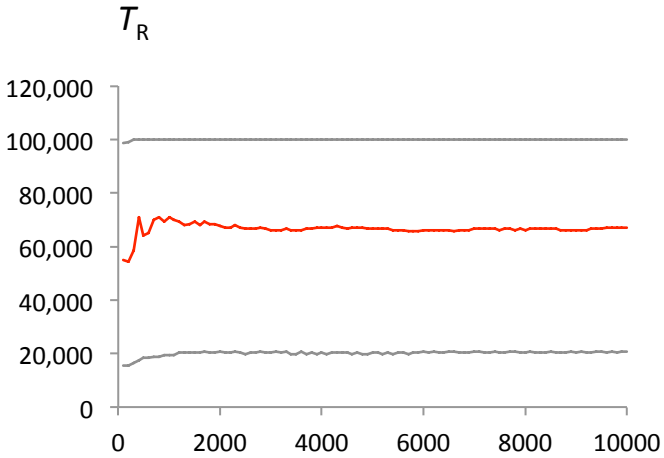
Population size bottleneck (BOT)

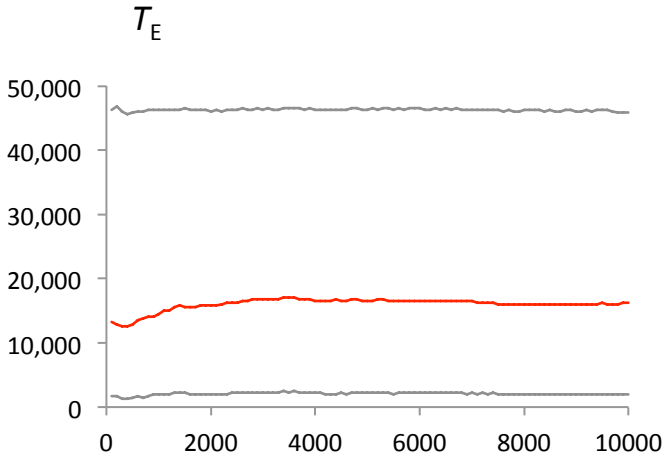
N_C = Current population size
N_A = Ancestral population size
T_R = Time of population size reduction
T_E = Time of population size expansion





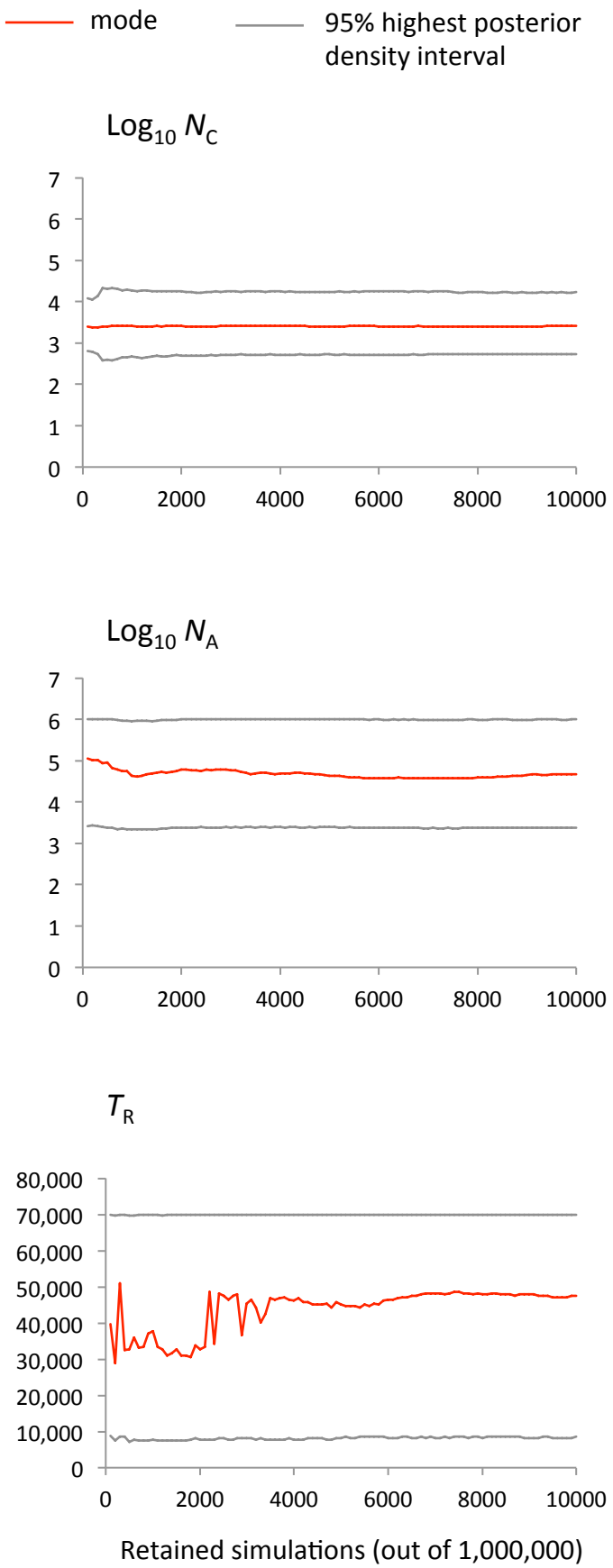


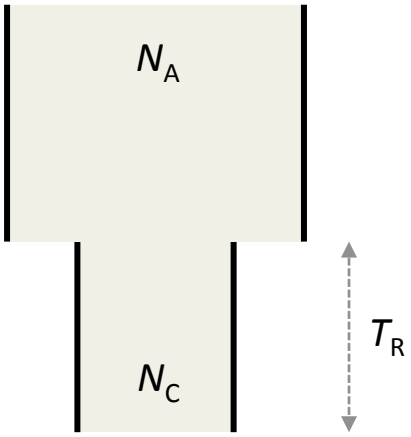




Retained simulations (out of 1,000,000)

b *Cardamine resedifolia*

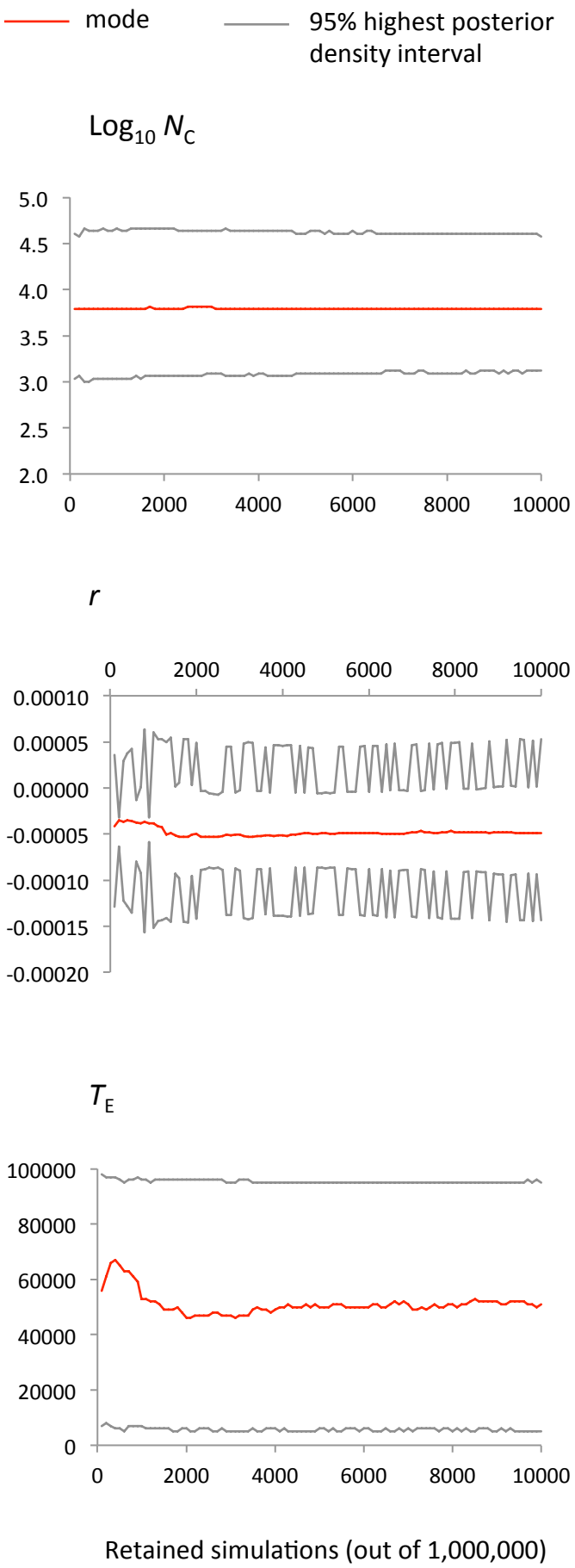


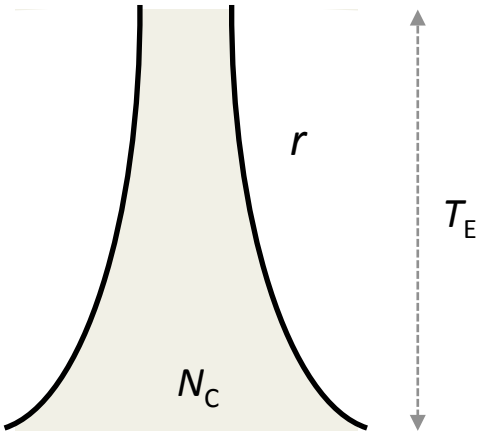


Population size reduction (RED)

N_C = Present population size
N_A = Ancestral population size
T_R = Time of population size reduction

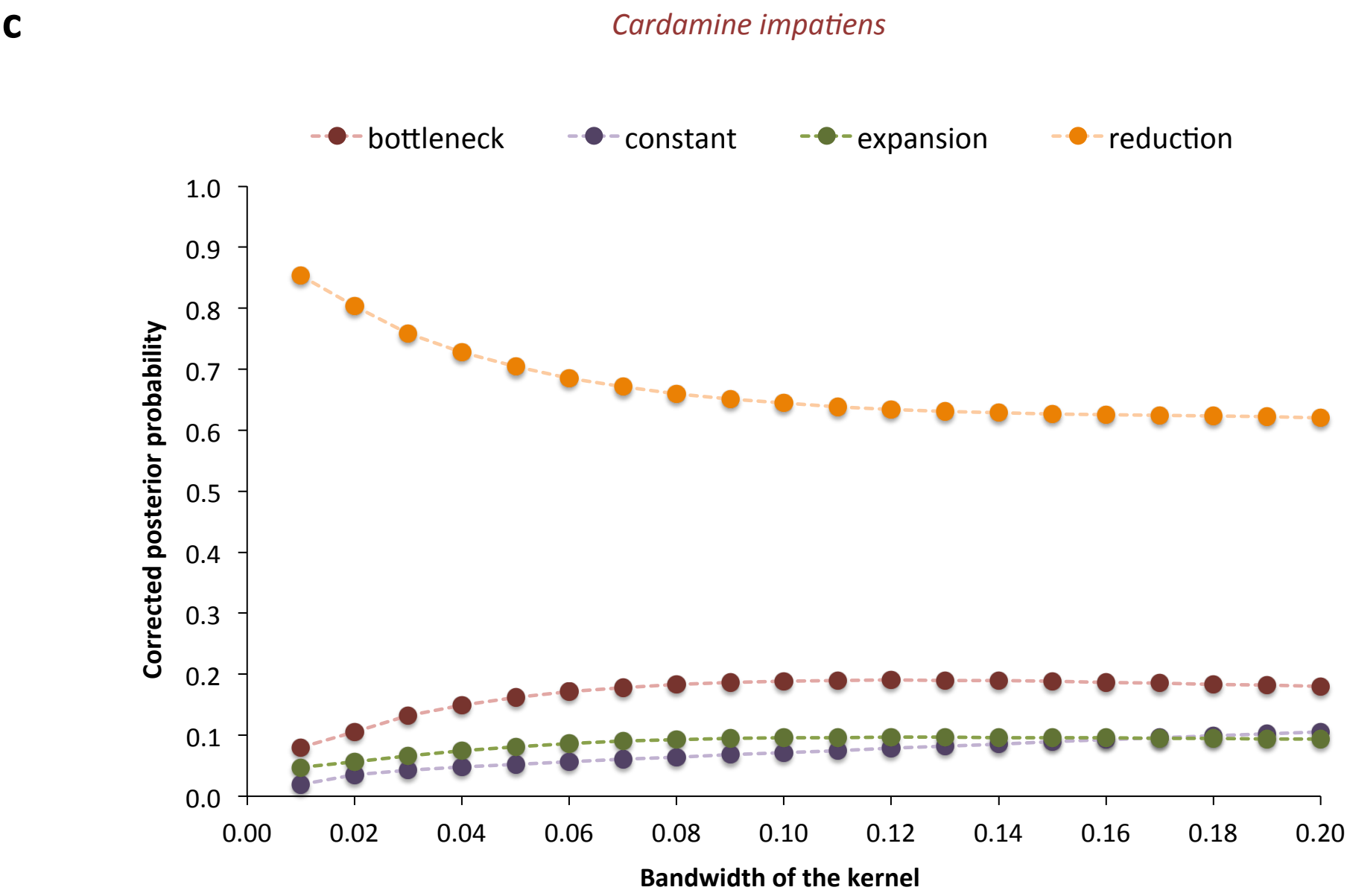
b *Cardamine resedifolia*

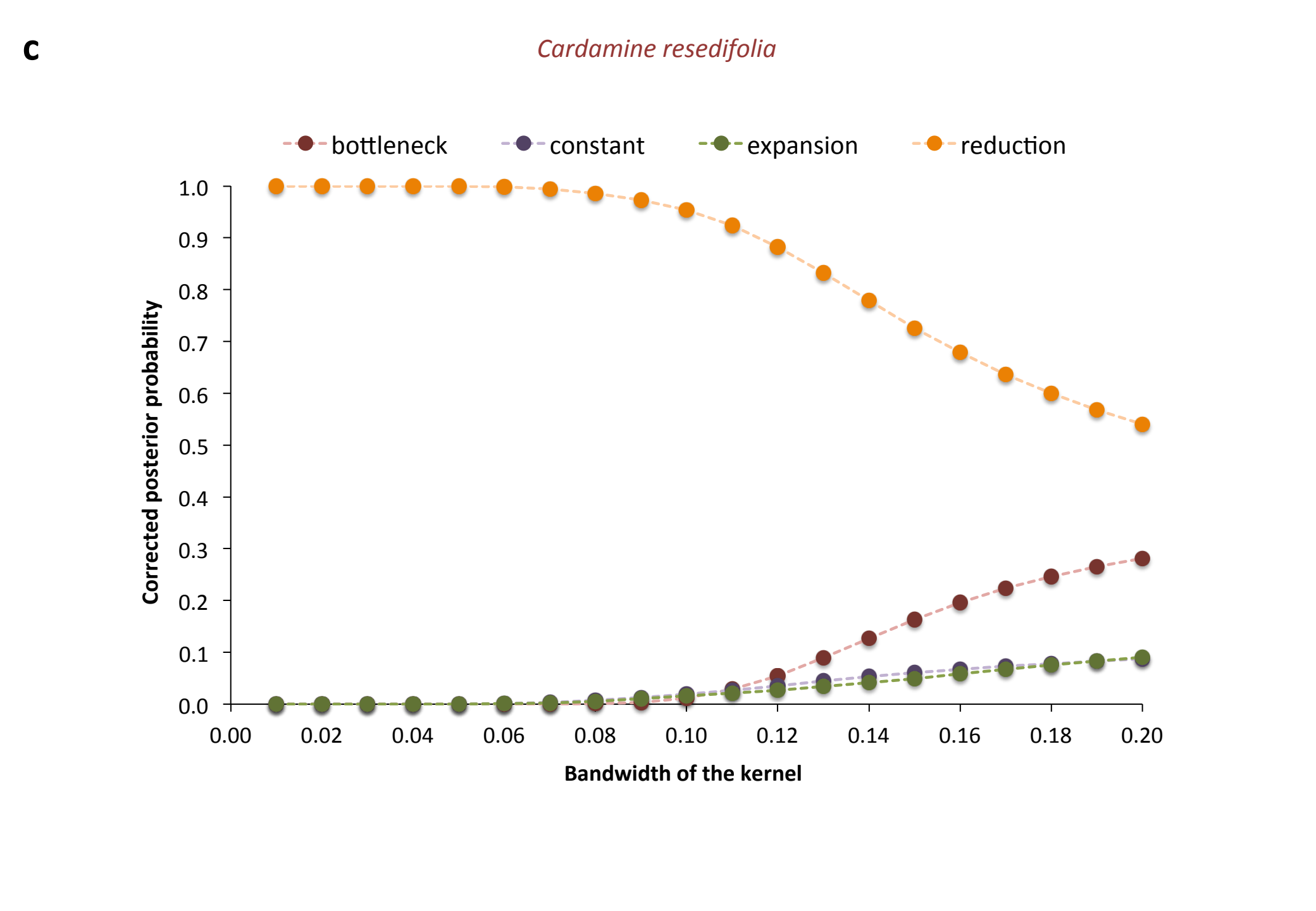




Population size expansion (EXP)

N_C = Current population size
T_E = Time of population size expansion
r = exponential growth parameter


c
Cardamine impatiens
bottleneck
constant
expansion
reduction
Corrected posterior probability
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
0.16
0.18
0.20
Bandwidth of the kernel


c
Cardamine resedifolia
bottleneck
constant
expansion
reduction
Corrected posterior probability
1.0
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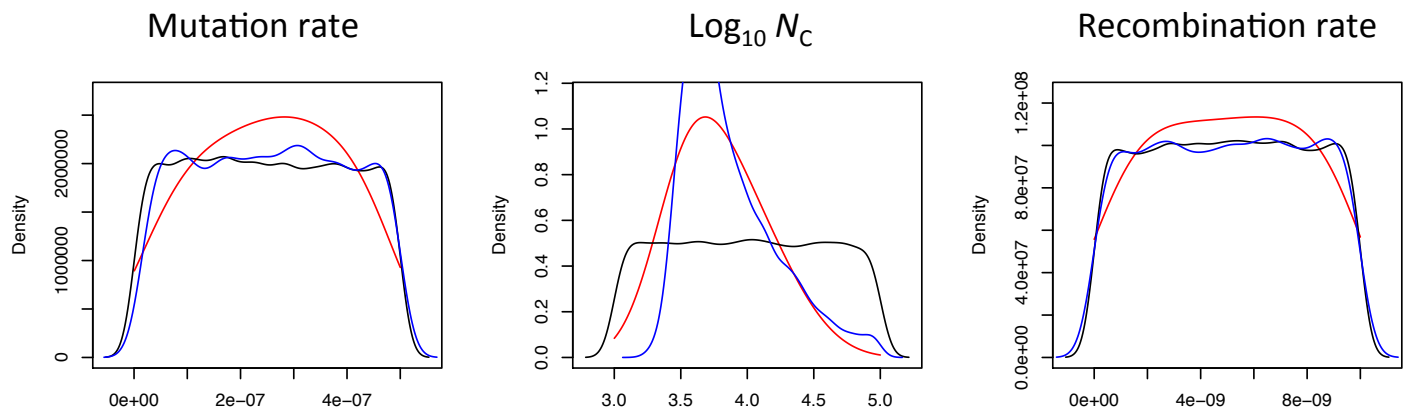
0.5
0.4
0.3
0.2
0.1
0.0
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
0.16
0.18
0.20
Bandwidth of the kernel

d

Cardamine impatiens

Constant population size (CON)

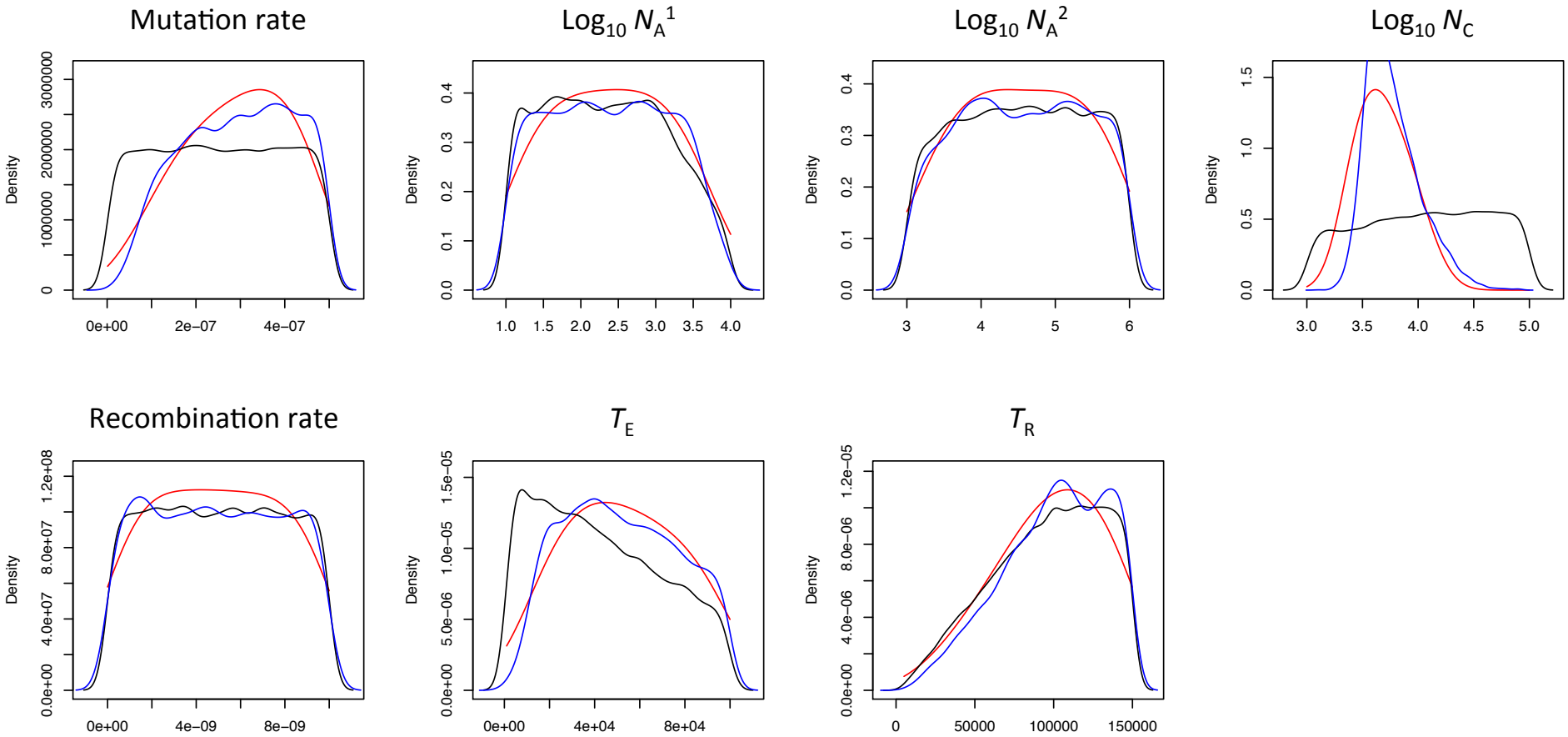


Prior distribution
Posterior distribution
Marginal distribution among the 5,000 retained simulations (0.5% of total)

d

Cardamine impatiens

Population size bottleneck (BOT)

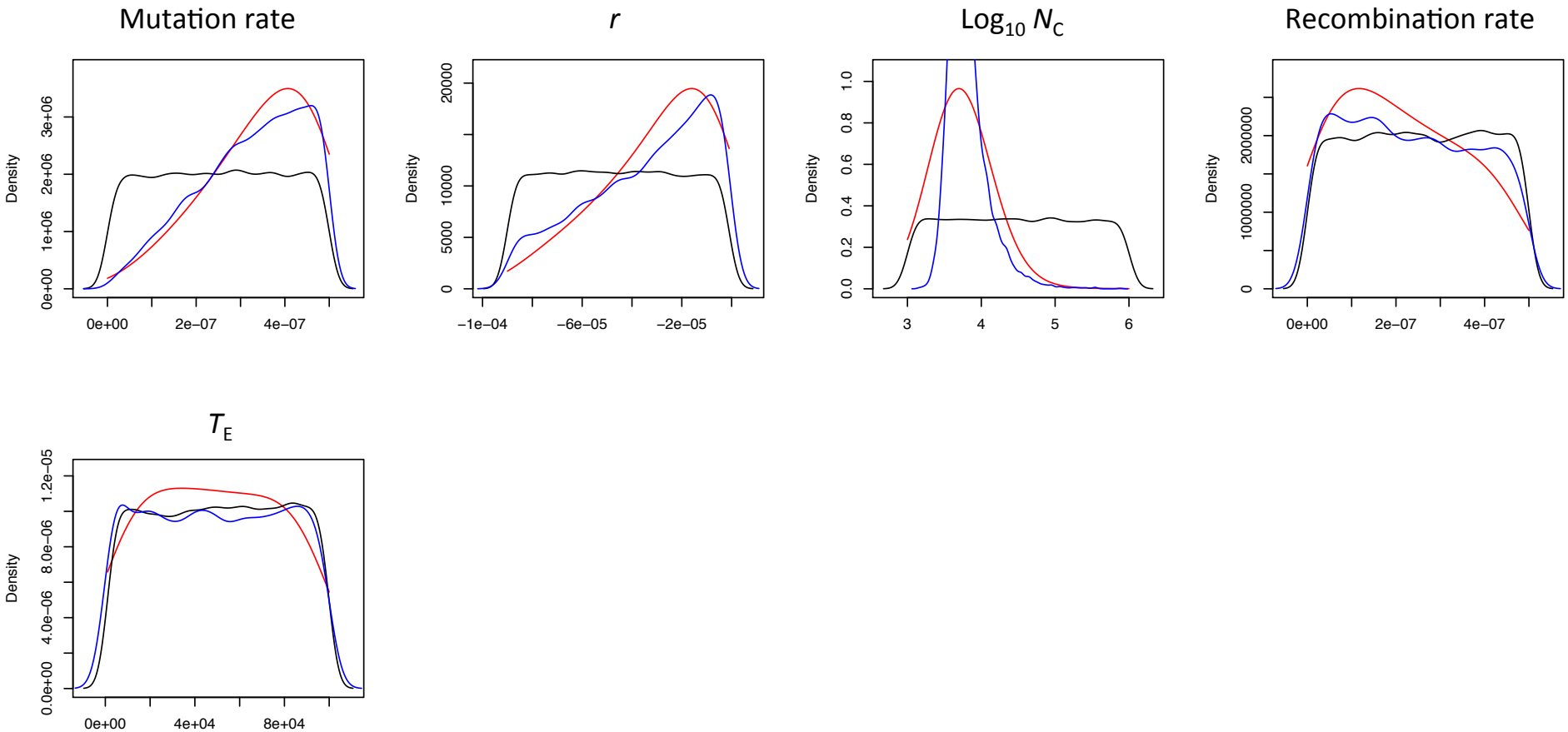


Prior distribution
Posterior distribution
Marginal distribution among the 5,000 retained simulations (0.5% of total)

d

Cardamine impatiens

Population size expansion (EXP)

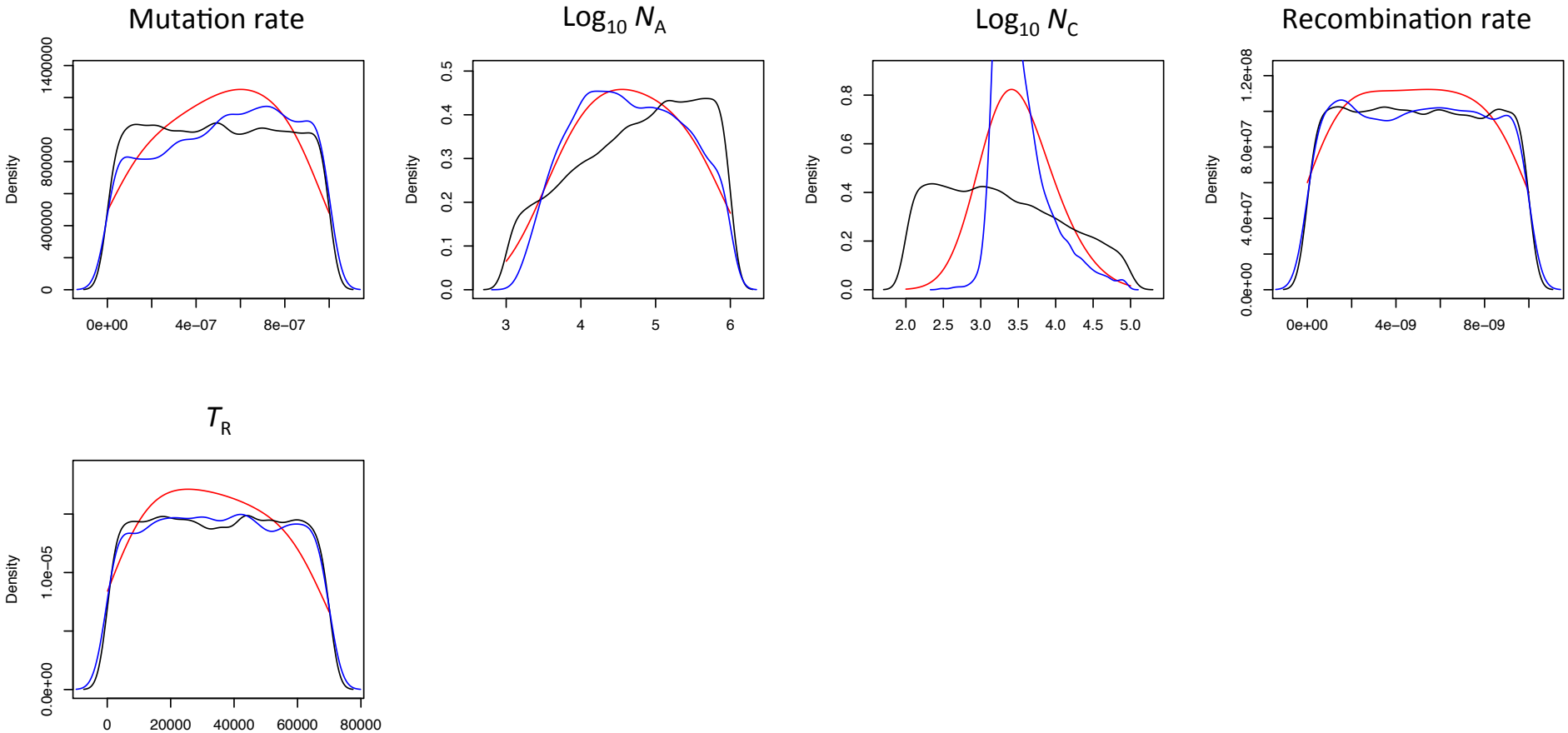


Prior distribution
Posterior distribution
Marginal distribution among the 5,000 retained simulations (0.5% of total)

d

Cardamine impatiens

Population size reduction (RED)

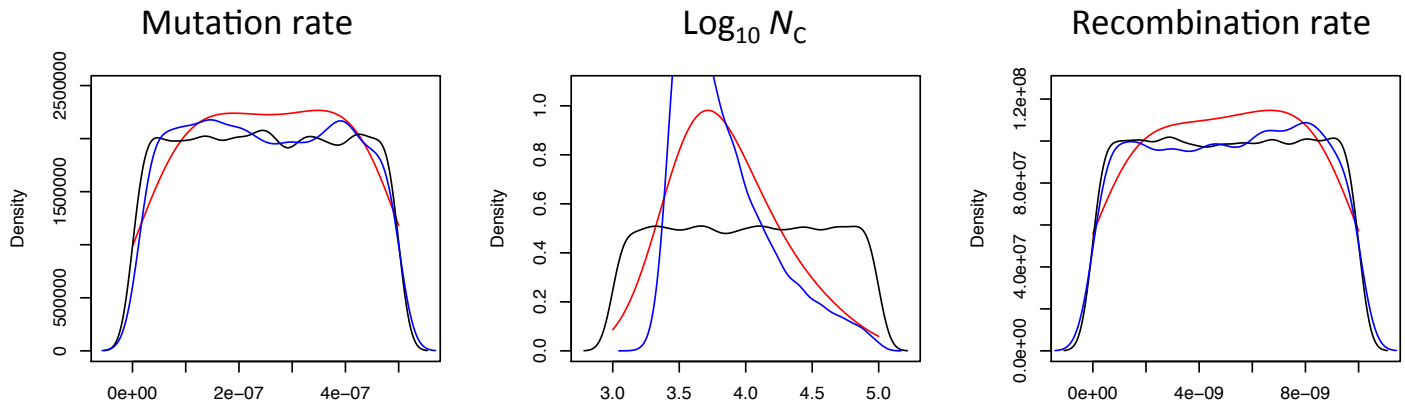


Prior distribution
Posterior distribution
Marginal distribution among the 5,000 retained simulations (0.5% of total)

d

Cardamine resedifolia

Constant population size (CON)

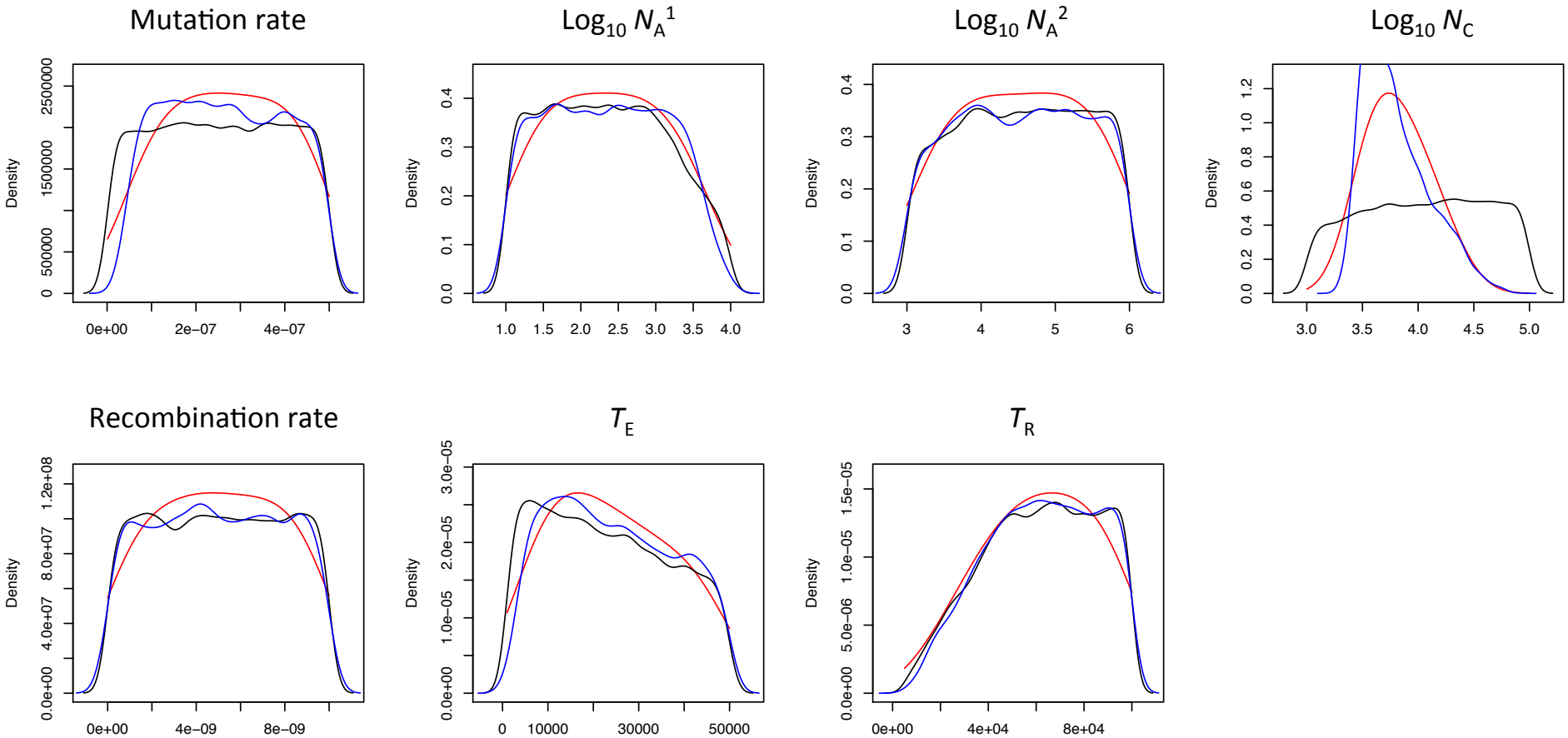


Prior distribution
Posterior distribution
Marginal distribution among the 5,000 retained simulations (0.5% of total)

d

Cardamine resedifolia

Population size bottleneck (BOT)

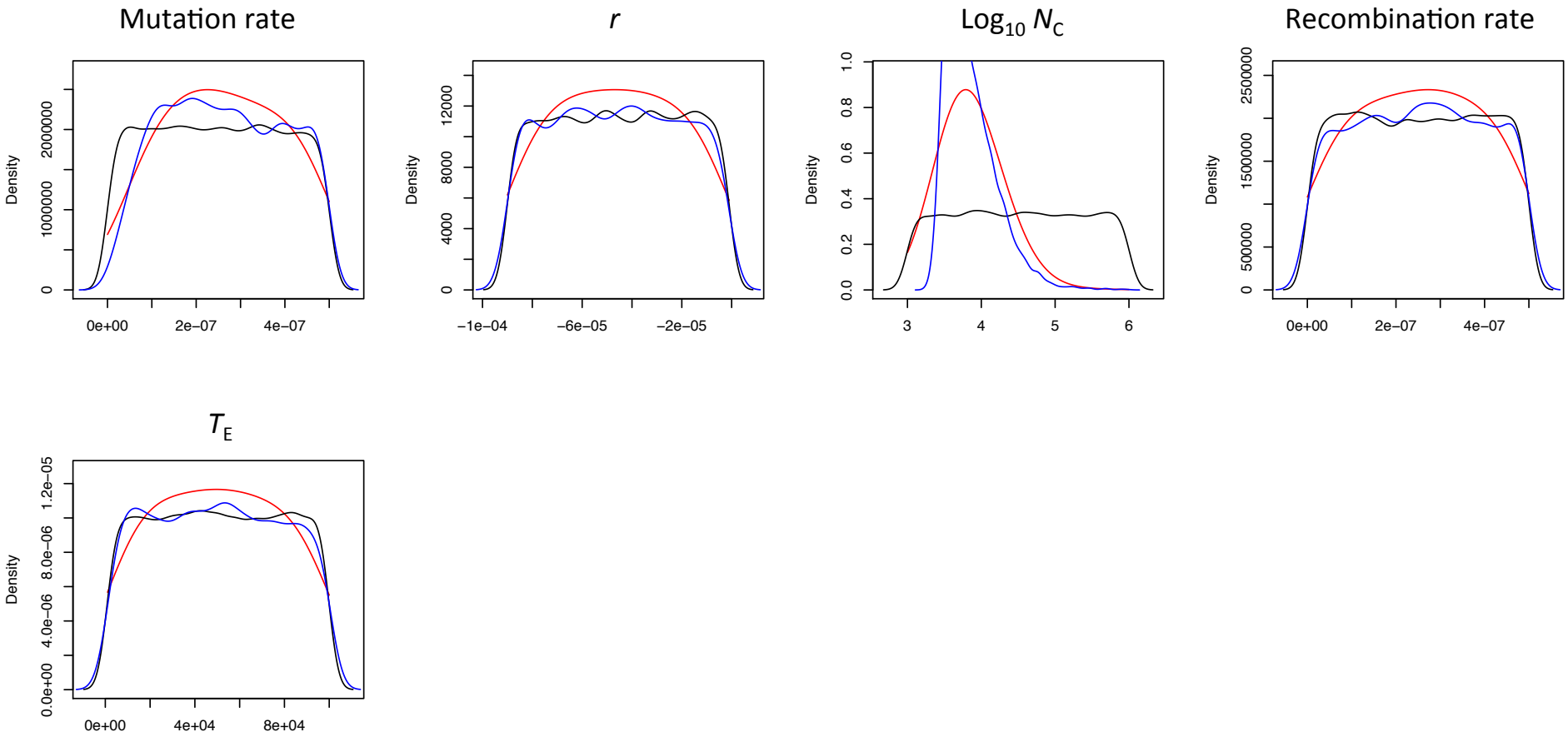


Prior distribution
Posterior distribution
Marginal distribution among the 5,000 retained simulations (0.5% of total)

d

Cardamine resedifolia

Population size expansion (EXP)

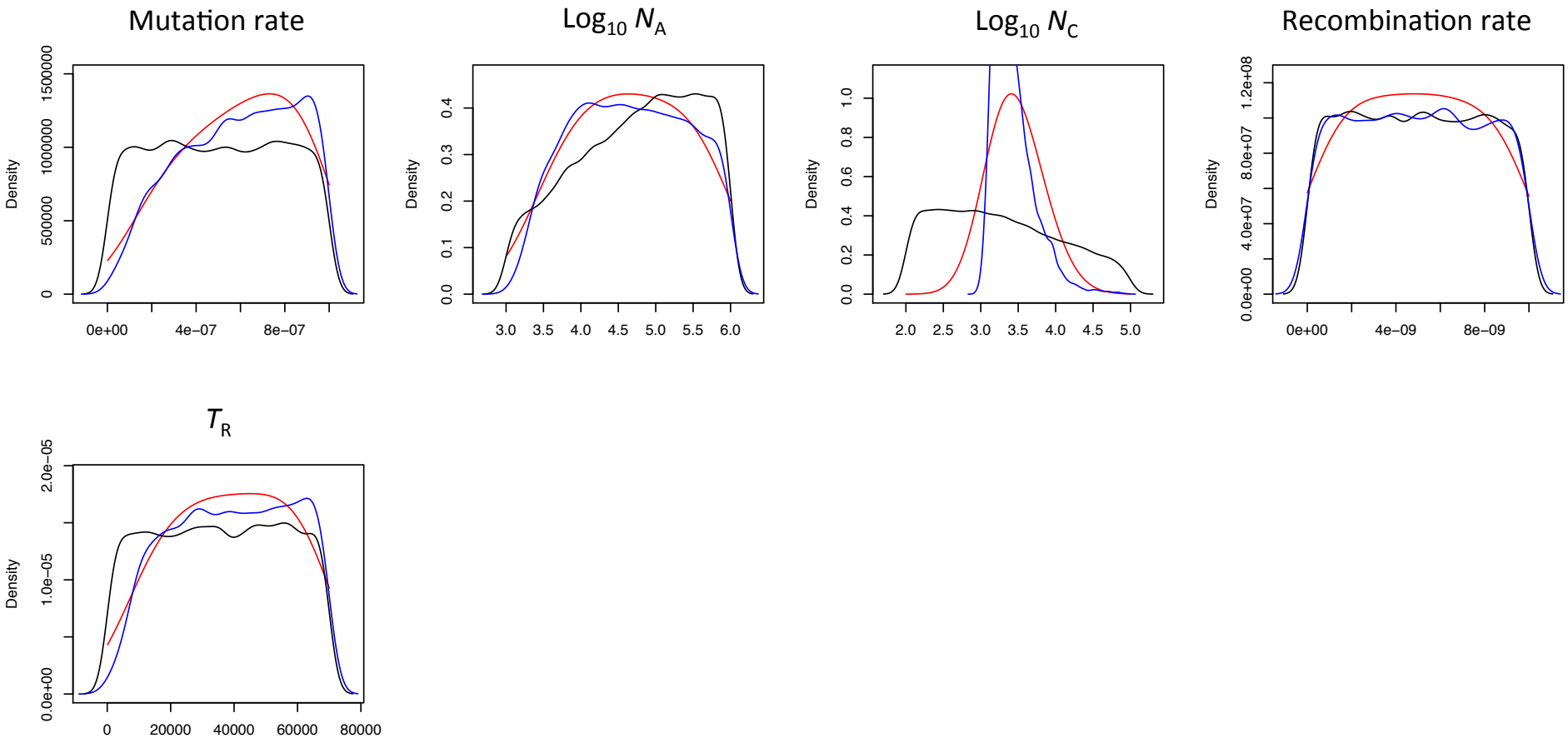


Prior distribution
Posterior distribution
Marginal distribution among the 5,000 retained simulations (0.5% of total)

d

Cardamine resedifolia

Population size reduction (RED)



Prior distribution
Posterior distribution
Marginal distribution among the 5,000 retained simulations (0.5% of total)