Time series (R)

$\partial \tilde{R}/\partial t(t)$

t

$\tilde{R}(t)$

$dR/dt(\tilde{R},\tilde{N})$

Data time series

Interpolation

Hidden layers

t

$\tilde{N}(t)$

$dN/dt(\tilde{R},\tilde{N})$

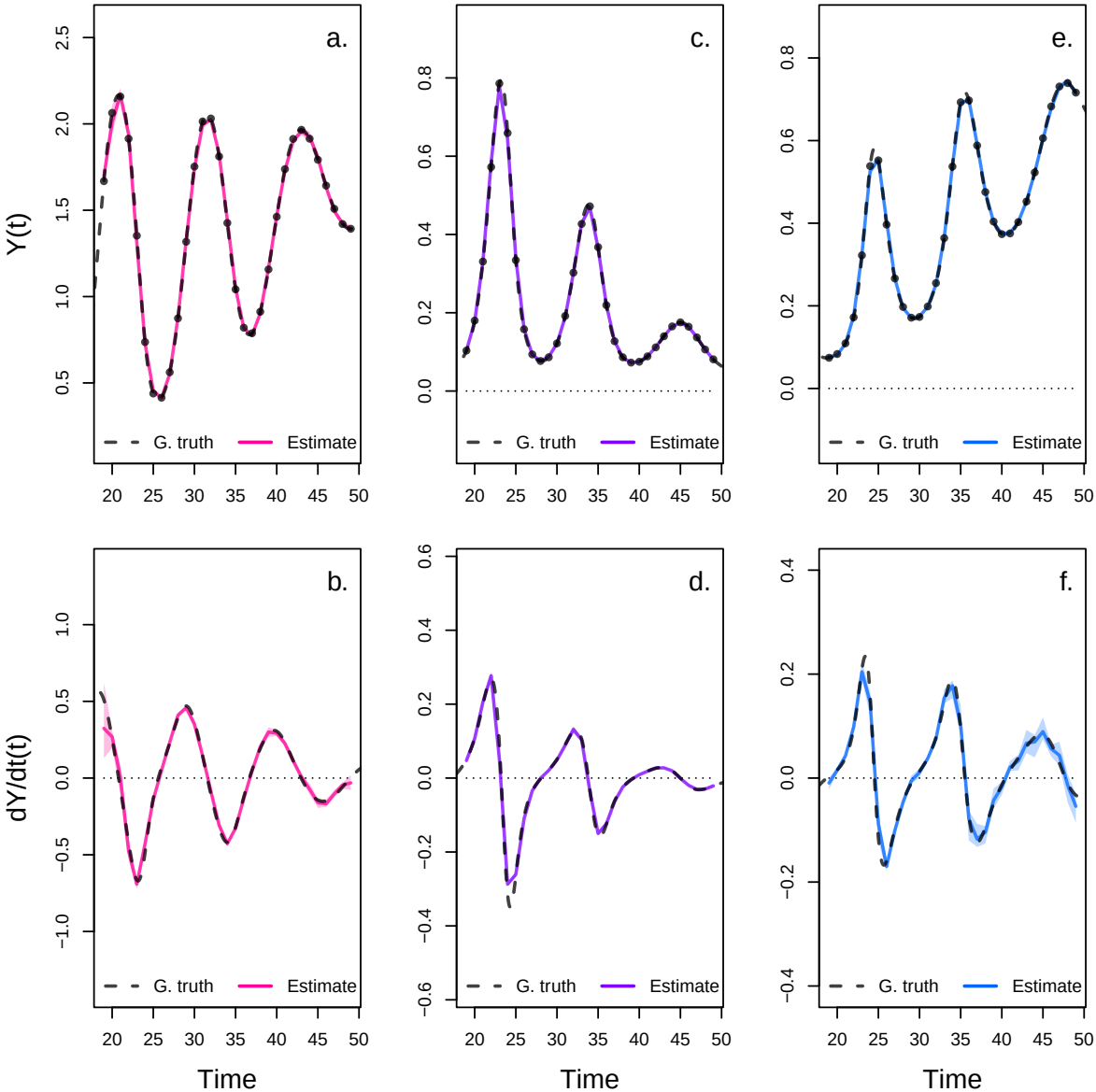
NODE

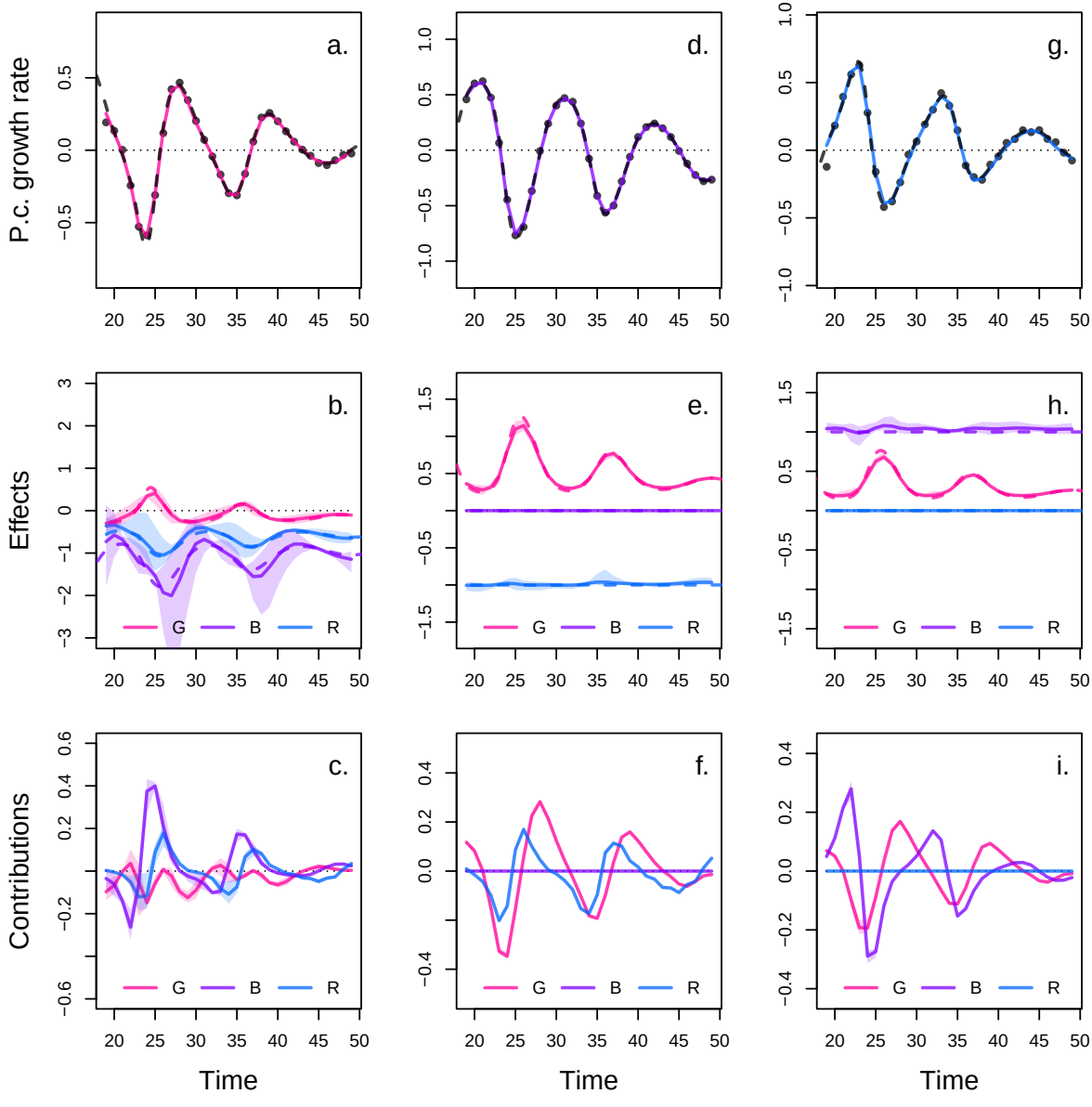
Bayes. regul.

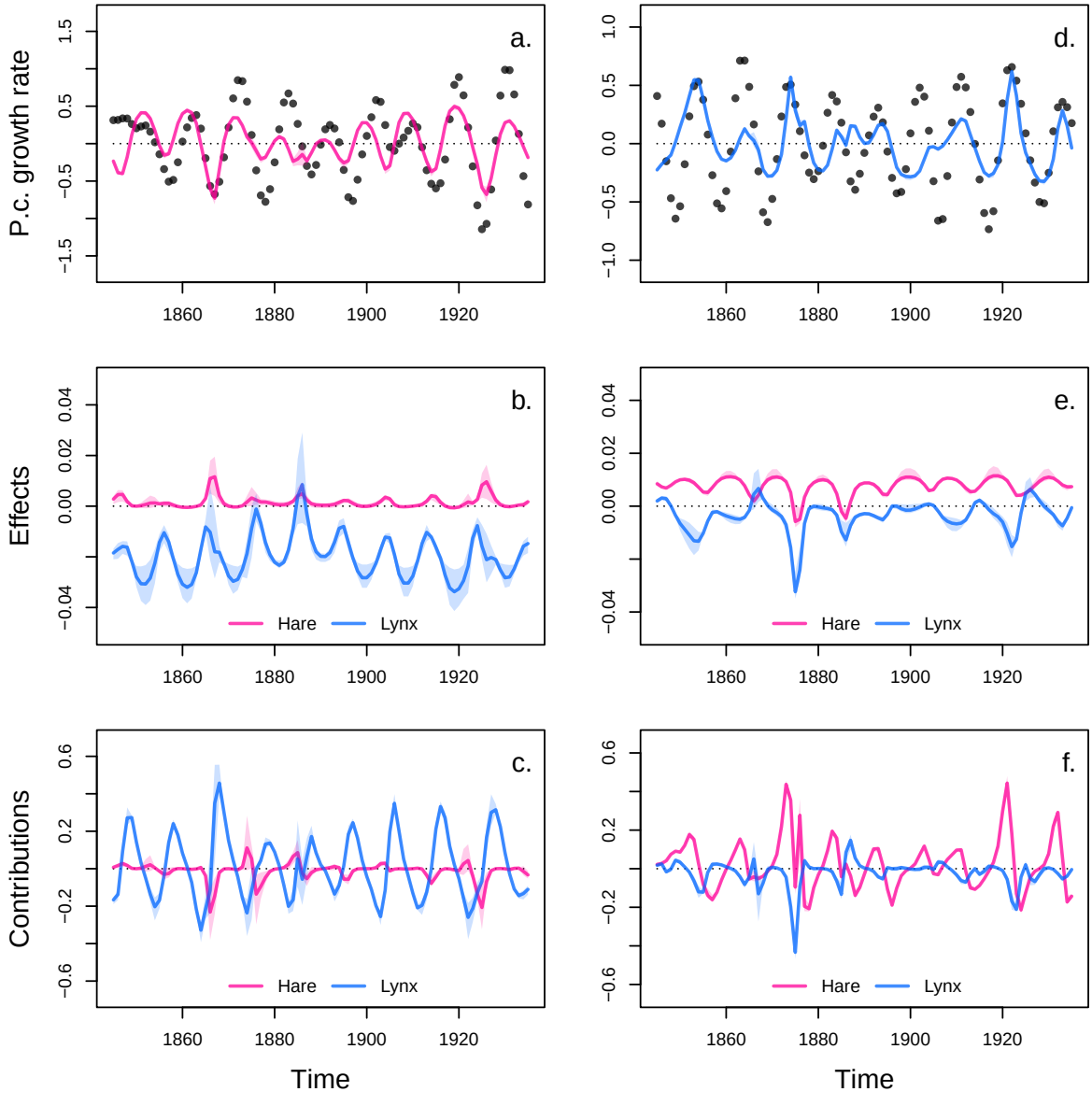
Differentiation

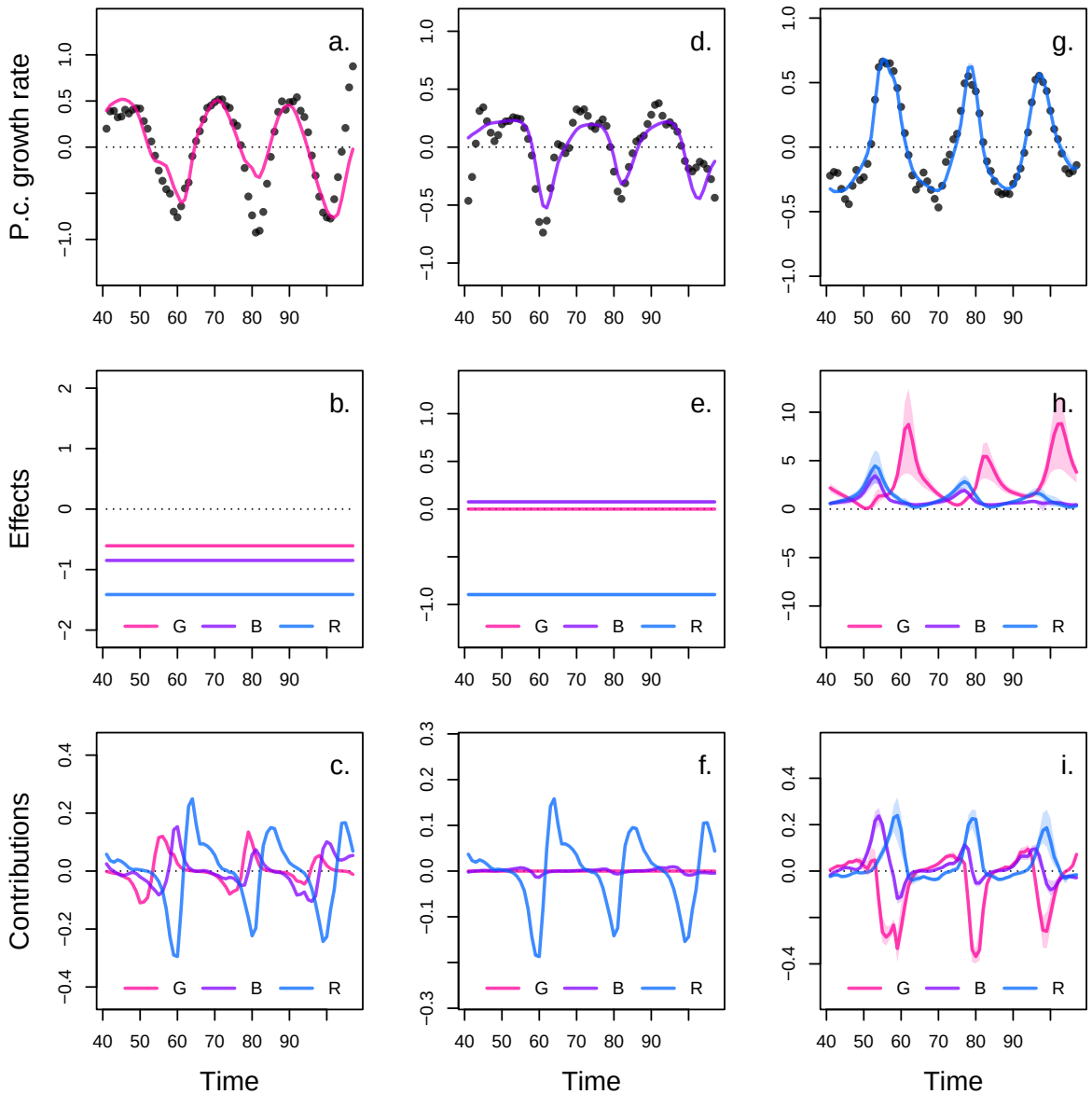
Time series (N)

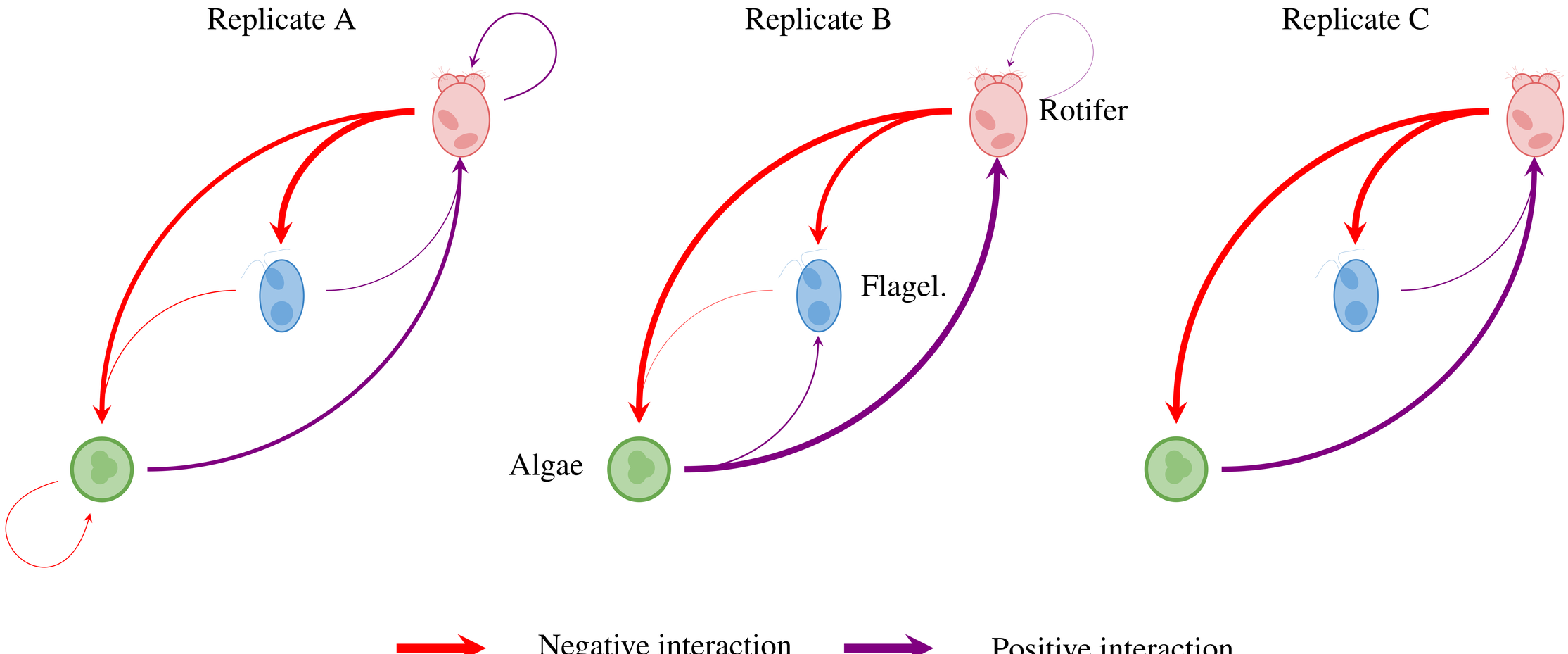
$\partial \tilde{N}/\partial t(t)$


a.
c.
e.
b.
d.
f.
Y(t)
dY/dt(t)
Time
G. truth
Estimate


P.c. growth rate
Effects
Contributions
a.
b.
c.
d.
e.
f.
g.
h.
i.
G
B
R
Time


P.c. growth rate
Effects
Contributions
a.
b.
c.
d.
e.
f.
Hare
Lynx
Time
1860
1880
1900
1920


P.c. growth rate
Effects
Contributions
a.
b.
c.
d.
e.
f.
g.
h.
i.
G
B
R
Time
Time
Time


Replicate A
Replicate B
Replicate C
Rotifer
Flagel.
Algae
Negative interaction
Positive interaction