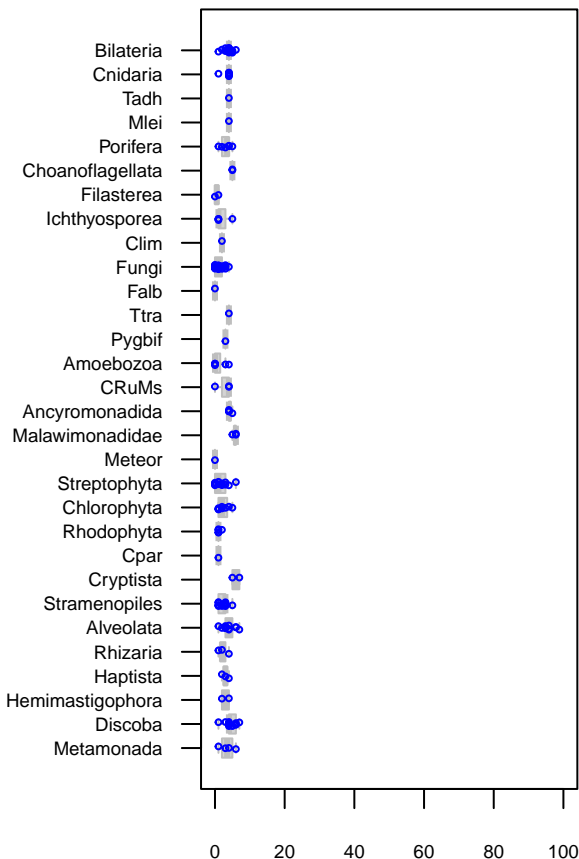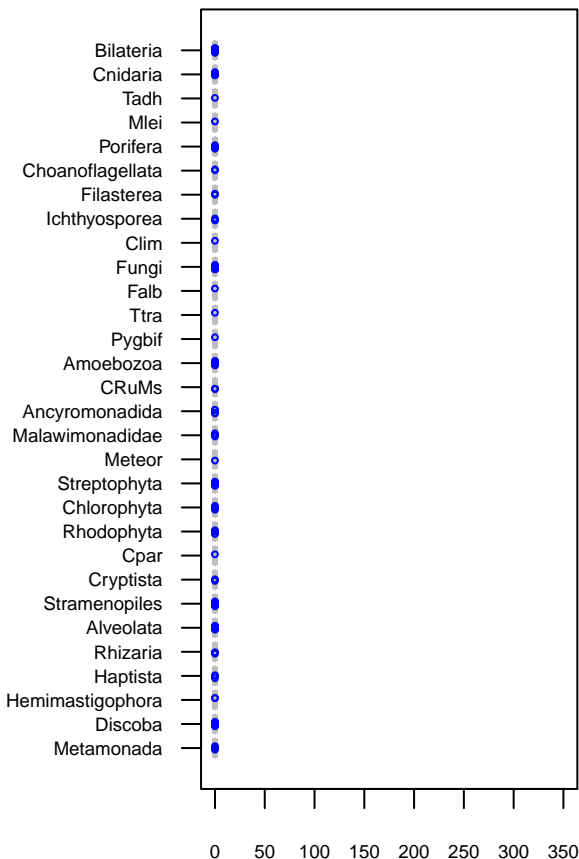**Dpy−30 OG counts in descendant nodes**

Dpy−30 gene counts in descendant nodes

Gains and losses in ancestral nodes, Dpy−30
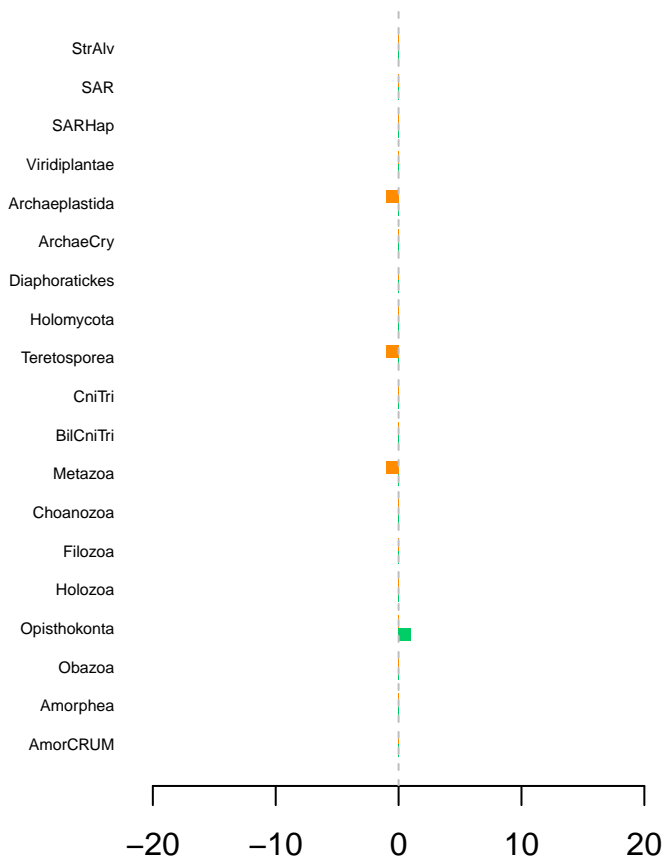
Gains and losses in extant nodes, Dpy−30

Metamonada
Discoba
Hemimastigophora
Haptista
Rhizaria
Alveolata
Stramenopiles
Cryptista
Cpar
Rhodophyta
Chlorophyta
Streptophyta
Meteor
Malawimonadidae
Ancyromonadida
CRuMs
Amoebozoa
Pygbif
Ttra
Falb
Fungi
Clim
Ichthyosporea
Filasterea
Choanoflagellata
Porifera
Mlei
Tadh
Cnidaria
Bilateria

−40   −20   0   20   40
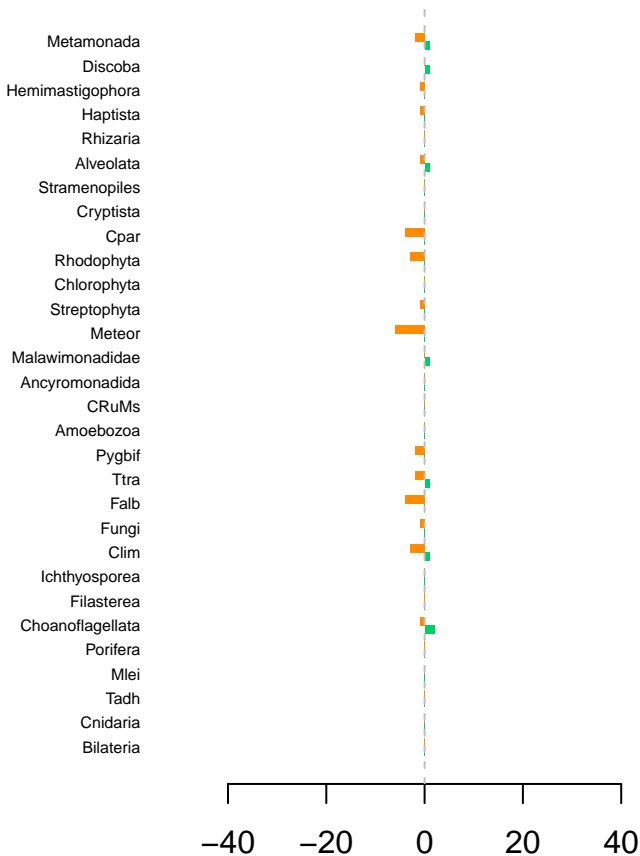
Presence in extant nodes, Dpy−30

Metamonada n = 4	
Discoba n = 6	
Hemimastigophora n = 4	
Haptista n = 3	
Rhizaria n = 5	
Alveolata n = 5	
Stramenopiles n = 4	
Cryptista n = 6	
Cpar n = 1	
Rhodophyta n = 2	
Chlorophyta n = 5	
Streptophyta n = 4	
Meteor n = 0	
Malawimonadidae n = 5	
Ancyromonadida n = 5	
CRuMs n = 5	
Amoebozoa n = 4	
Pygbif n = 3	
Ttra n = 4	
Falb n = 0	
Fungi n = 3	
Clim n = 2	
Ichthyosporea n = 4	
Filasterea n = 5	
Choanoflagellata n = 6	
Porifera n = 4	
Mlei n = 4	
Tadh n = 4	
Cnidaria n = 4	
Bilateria n = 4	

0   20   40   60   80   100

Presence in ancestral nodes, Dpy−30

StrAlv n = 5	
SAR n = 5	
SARHap n = 5	
Viridiplantae n = 5	
Archaeplastida n = 5	
ArchaeCry n = 6	
Diaphoratickes n = 5	
Holomycota n = 4	
Teretosporea n = 4	
CniTri n = 4	
BilCniTri n = 4	
Metazoa n = 4	
Choanozoa n = 5	
Filozoa n = 5	
Holozoa n = 5	
Opisthokonta n = 5	
Obazoa n = 5	
Amorphea n = 5	
AmorCRUM n = 6	

0   20   40   60   80   100