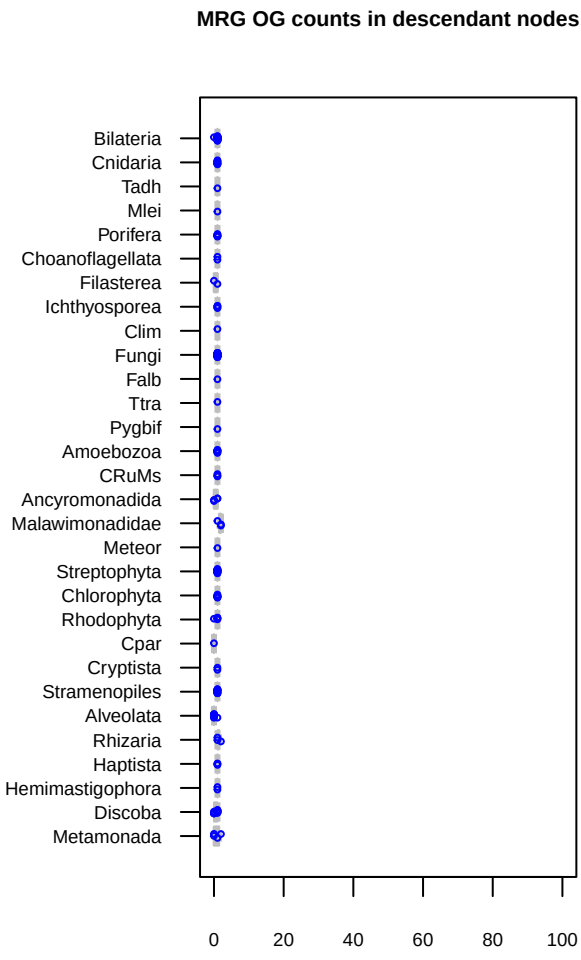
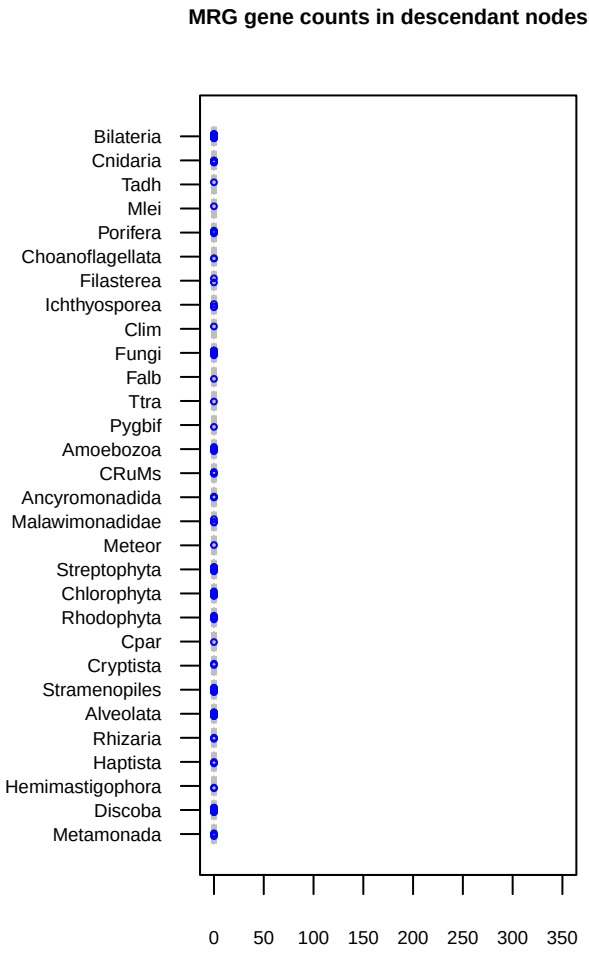
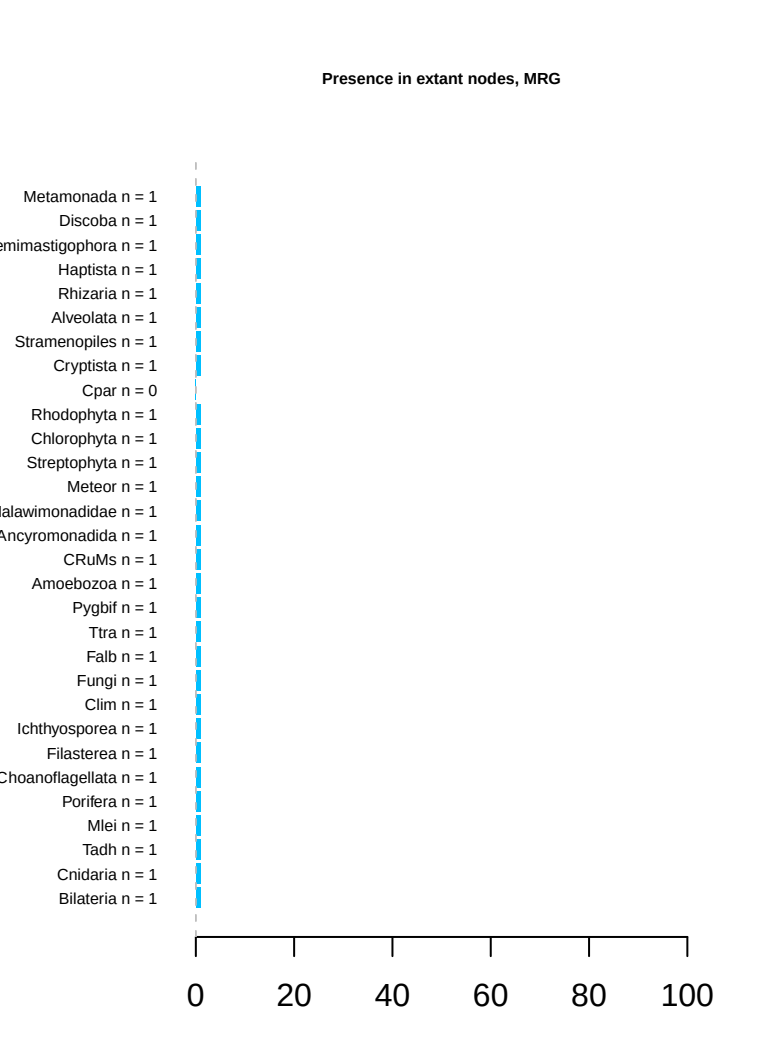

MRG OG counts in descendant nodes
Bilateria
Cnidaria
Tadh
Mlei
Porifera
Choanoflagellata
Filasterea
Ichthyosporea
Clim
Fungi
Falb
Ttra
Pygbif
Amoebozoa
CRuMs
Ancyromonadida
Malawimonadidae
Meteor
Streptophyta
Chlorophyta
Rhodophyta
Cpar
Cryptista
Stramenopiles
Alveolata
Rhizaria
Haptista
Hemimastigophora
Discoba
Metamonada
0
20
40
60
80
100


MRG gene counts in descendant nodes
Bilateria
Cnidaria
Tadh
Mlei
Porifera
Choanoflagellata
Filasterea
Ichthyosporea
Clim
Fungi
Falb
Ttra
Pygbif
Amoebozoa
CRuMs
Ancyromonadida
Malawimonadidae
Meteor
Streptophyta
Chlorophyta
Rhodophyta
Cpar
Cryptista
Stramenopiles
Alveolata
Rhizaria
Haptista
Hemimastigophora
Discoba
Metamonada
0
50
100
150
200
250
300
350

Gains and losses in ancestral nodes, MRG
StrAlv
SAR
SARHap
Viridiplantae
Archaeplastida
ArchaeCry
Diaphoratickes
Holomycota
Teretosporea
CniTri
BilCniTri
Metazoa
Choanozoa
Filozoa
Holozoa
Opisthokonta
Obazoa
Amorphea
AmorCRUM
−20
−10
0
10
20

Gains and losses in extant nodes, MRG
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, MRG
Metamonada n = 1
Discoba n = 1
emimastigophora n = 1
Haptista n = 1
Rhizaria n = 1
Alveolata n = 1
Stramenopiles n = 1
Cryptista n = 1
Cpar n = 0
Rhodophyta n = 1
Chlorophyta n = 1
Streptophyta n = 1
Meteor n = 1
lalawimonadidae n = 1
Ancyromonadida n = 1
CRuMs n = 1
Amoebozoa n = 1
Pygbif n = 1
Ttra n = 1
Falb n = 1
Fungi n = 1
Clim n = 1
Ichthyosporea n = 1
Filasterea n = 1
Choanoflagellata n = 1
Porifera n = 1
Mlei n = 1
Tadh n = 1
Cnidaria n = 1
Bilateria n = 1
0
20
40
60
80
100

Presence in ancestral nodes, MRG
StrAlv n = 1
SAR n = 1
SARHap n = 1
Viridiplantae n = 1
Archaeplastida n = 1
ArchaeCry n = 1
Diaphoratickes n = 1
Holomycota n = 1
Teretosporea n = 1
CniTri n = 1
BilCniTri n = 1
Metazoa n = 1
Choanozoa n = 1
Filozoa n = 1
Holozoa n = 1
Opisthokonta n = 1
Obazoa n = 1
Amorphea n = 1
AmorCRUM n = 1
0
20
40
60
80
100