

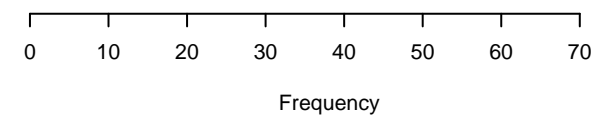
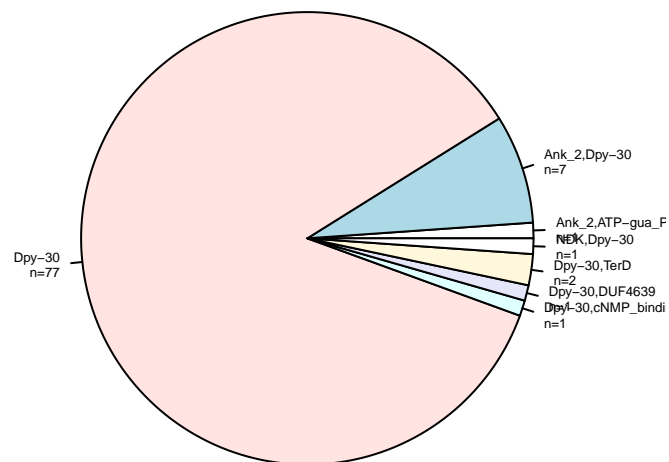
absent absent | n=1



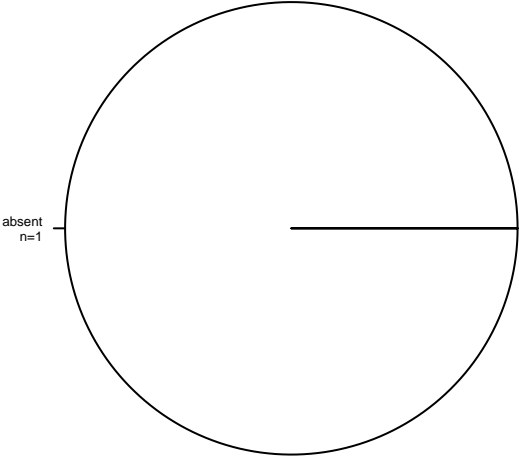
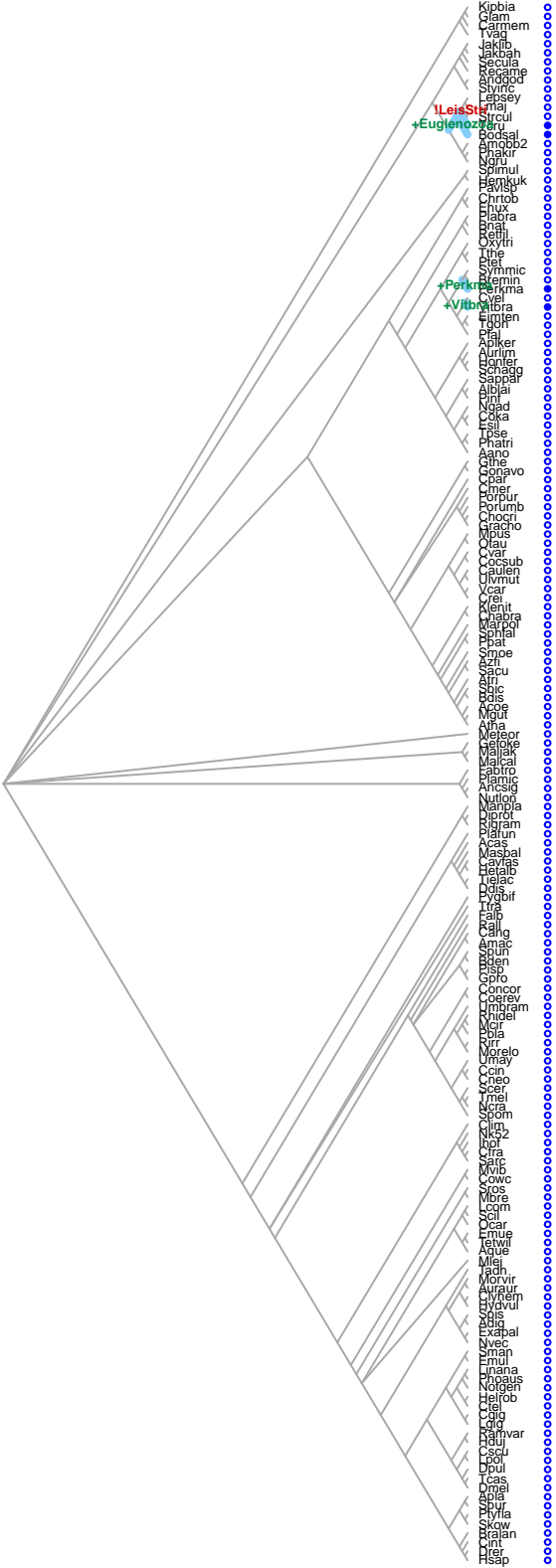
Frequency

in: Ctel,Scil,Choanoflagellata,Pisp,Rall,Masbal,Fabtro,Otau,Pavls,Discoba,Tvag,(  
Presence Eukaryota prob = 0.30  
Present: 24  
Losses: NA

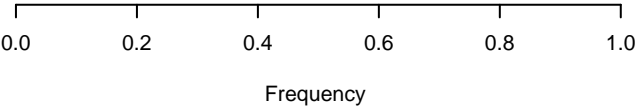
Gain: NA  
Presence Eukaryota prob = 1.00  
Present: 69  
Losses: NA



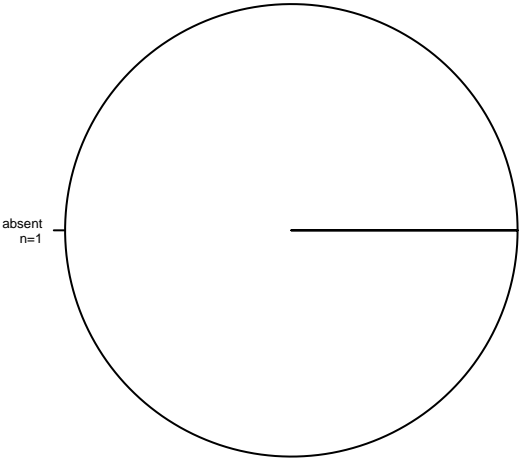
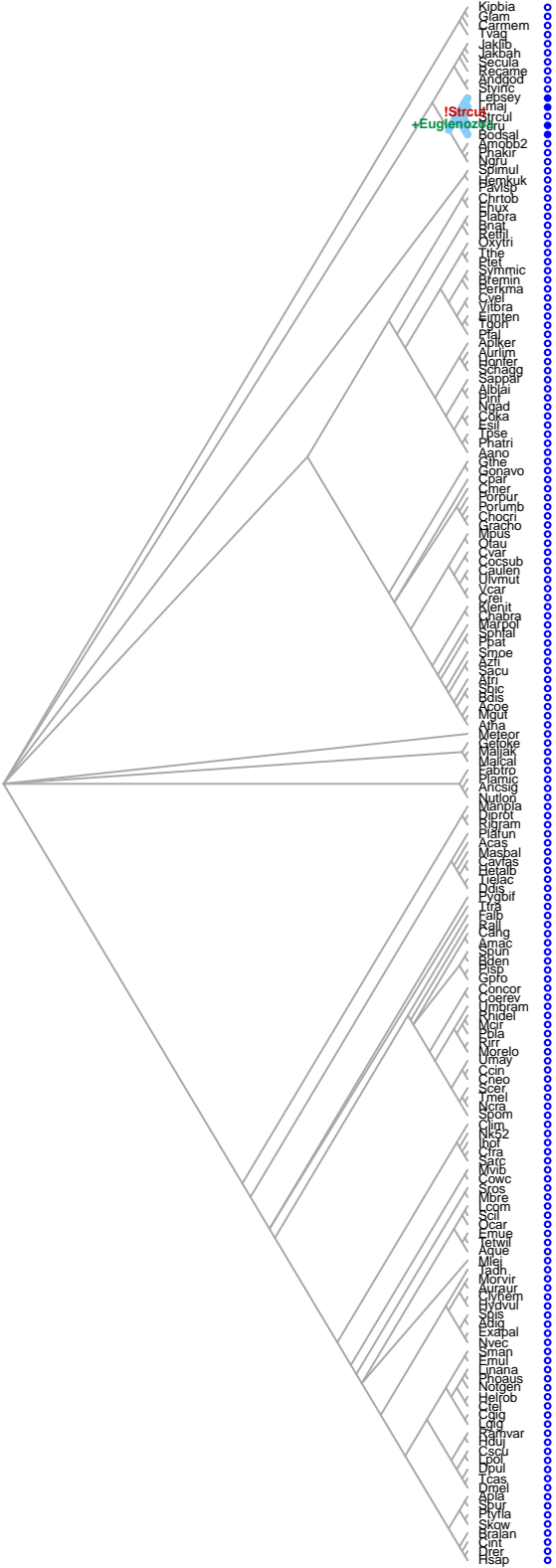
Dpy-30.HG1.10  
like:DPY30



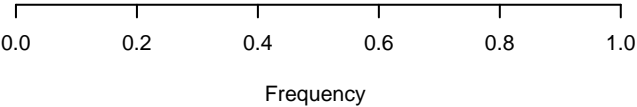
absent absent | n=1

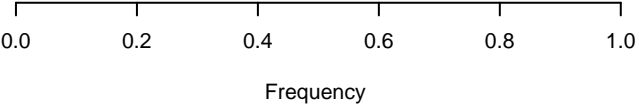
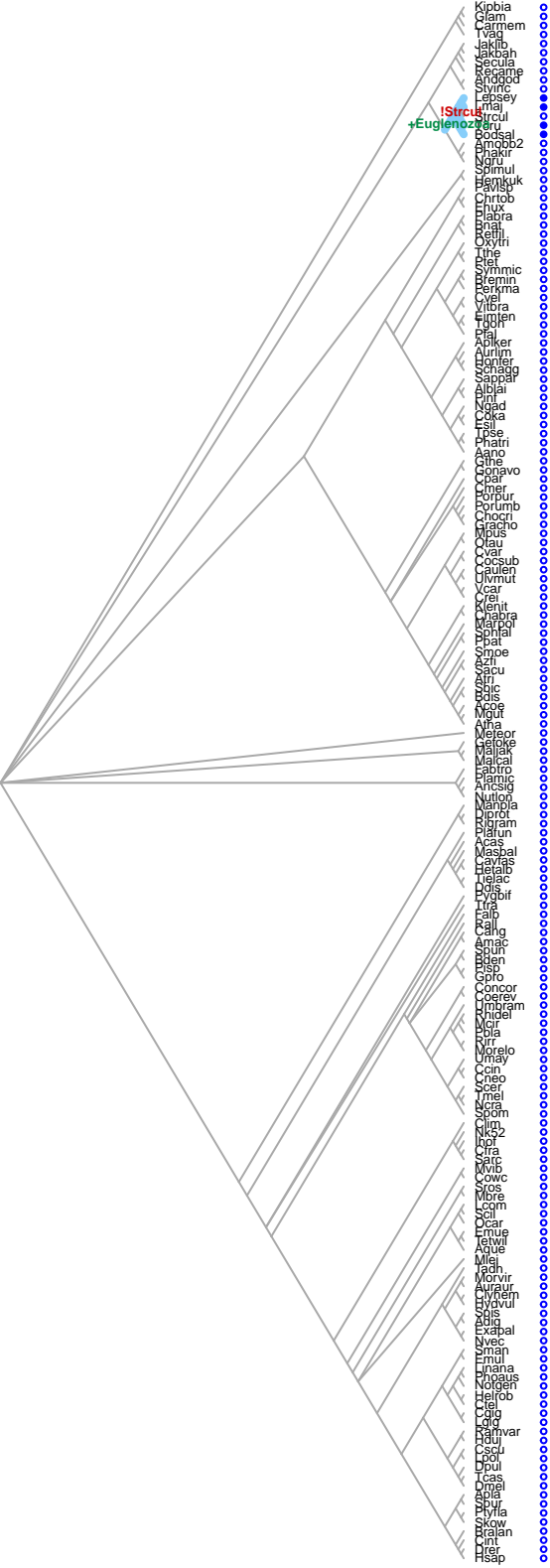


Gain: Vitbra,Perkma,Euglenozoa,NA  
Presence Eukaryota prob = 0.00  
Present: 4  
Losses: NA



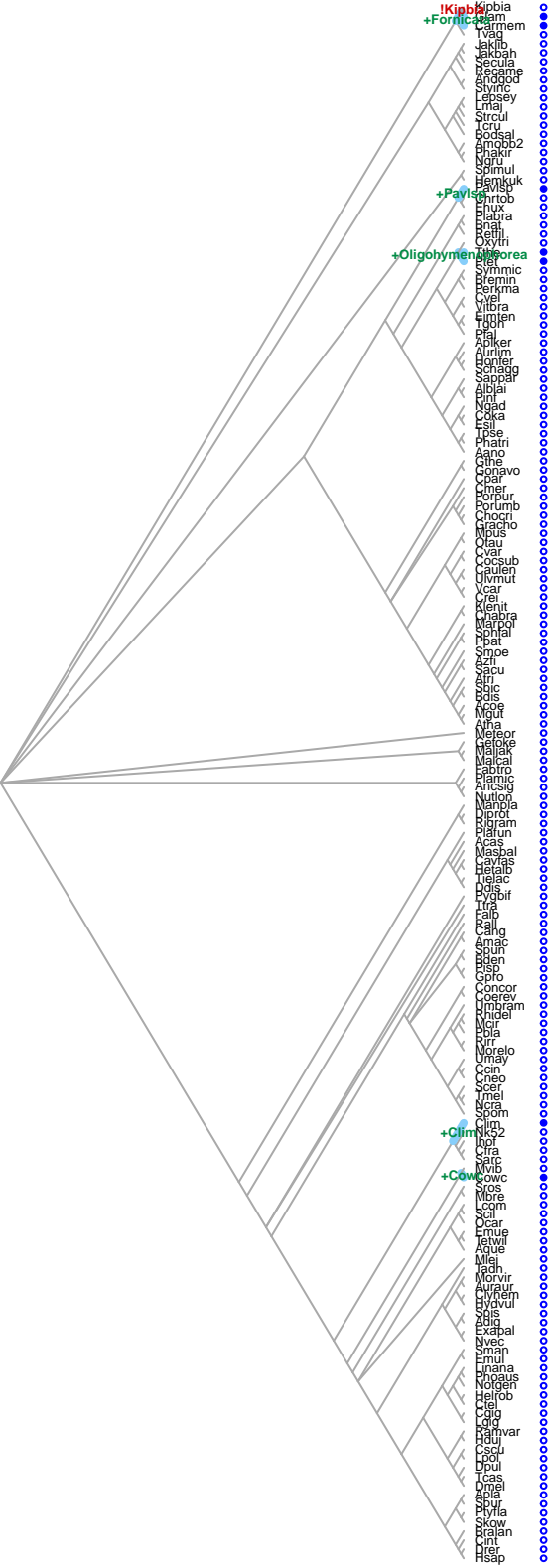
Gain: Euglenozoa,NA  
Presence Eukaryota prob = 0.00  
Present: 4  
Losses: NA



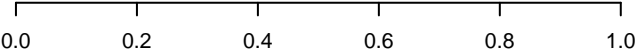


Gain: Euglenozoa,NA  
Presence Eukaryota prob = 0.00  
Present: 4  
Losses: NA

Dpy-30.HG1.13  
like:DPY30

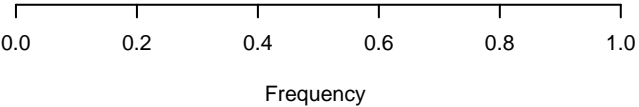
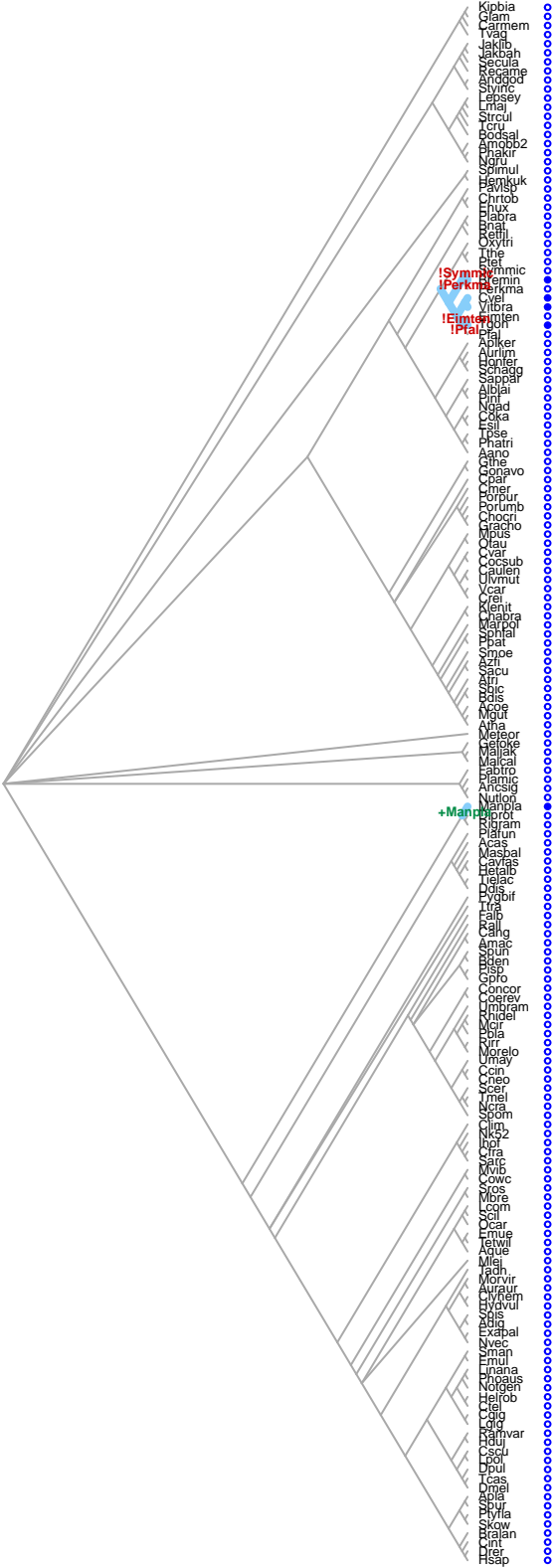


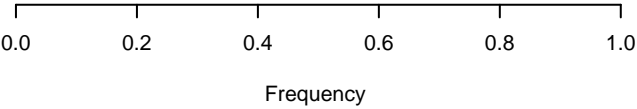
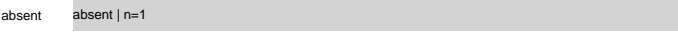
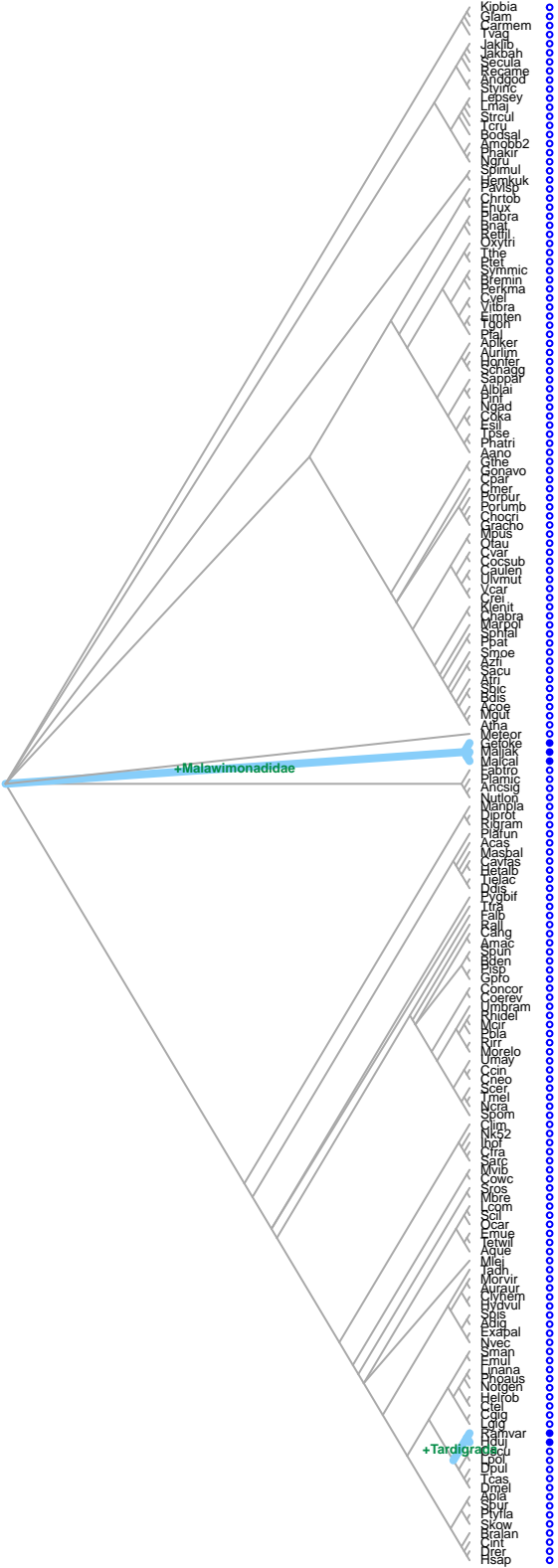
absent absent | n=1



Gain: Cowc,Clim,Oligohymenophorea,Pavlsp,Fornicata,NA  
Presence Eukaryota prob = 0.00  
Present: 7  
Losses: NA

Dpy-30.HG1.14  
like:DPY30

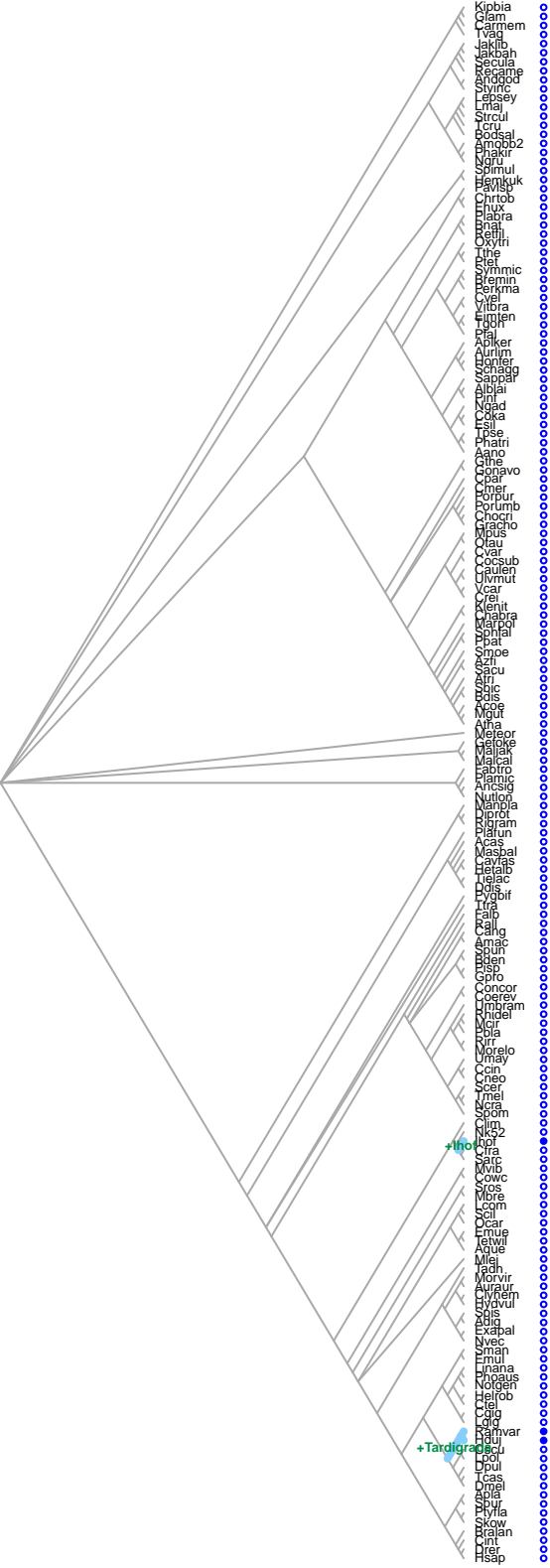




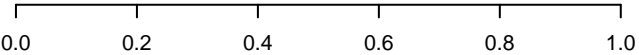
Gain: Tardigrada, Malawimonadidae, NA  
Presence Eukaryota prob = 0.01  
Present: 5  
Losses: NA



Dpy-30.HG1.16  
like:DPY30



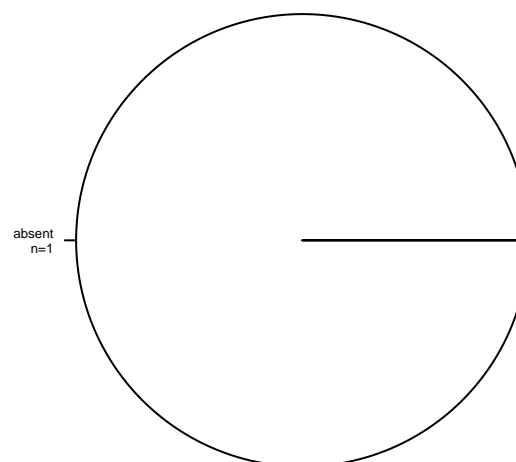
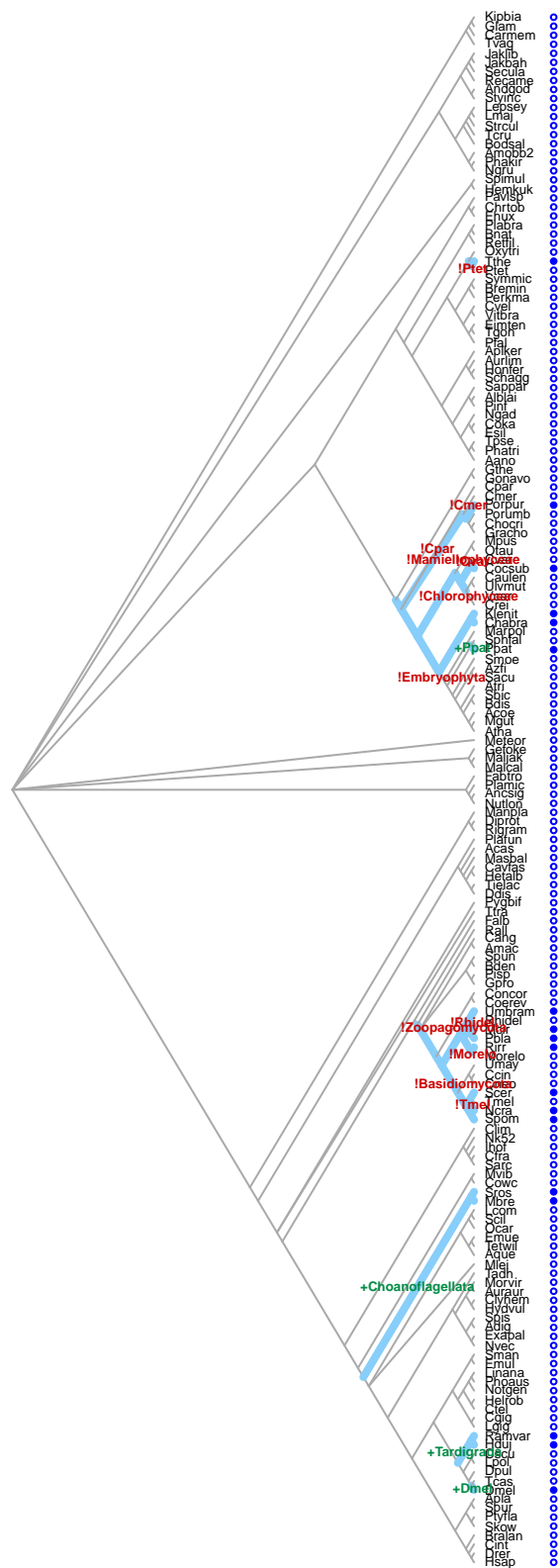
absent absent | n=1



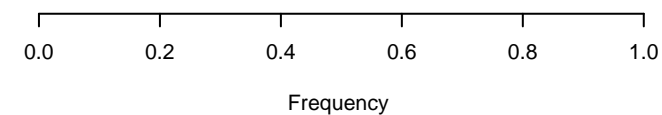
Gain: Tardigrada,Ihof,NA  
Presence Eukaryota prob = 0.00  
Present: 3  
Losses: NA

Frequency

Dpy-30.HG1.17  
like:DPY30

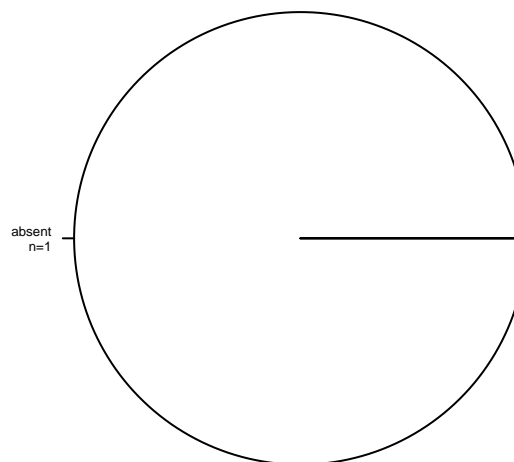


absent absent | n=1



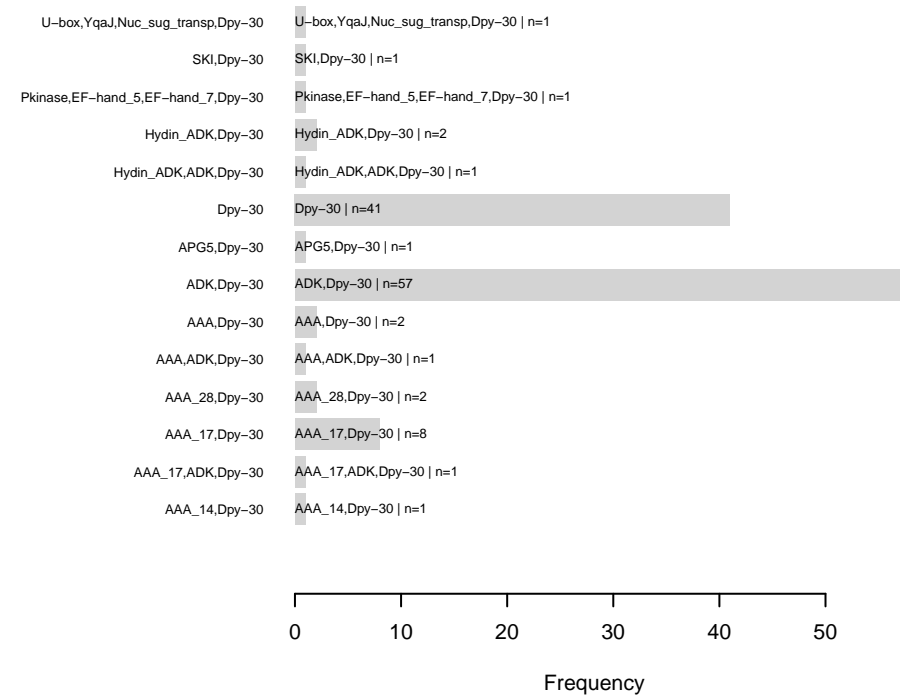
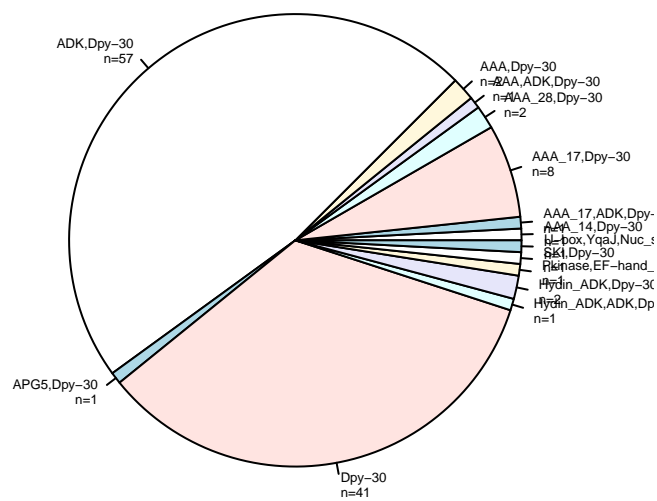
Gain: Dmel,Tardigrada,Choanoflagellata,Ppat,NA  
Presence Eukaryota prob = 0.37  
Present: 18  
Losses: NA

Gain: Dpul,Nk52,Malcal,Lepsey,NA  
Presence Eukaryota prob = 0.80  
Present: 14  
Losses: NA

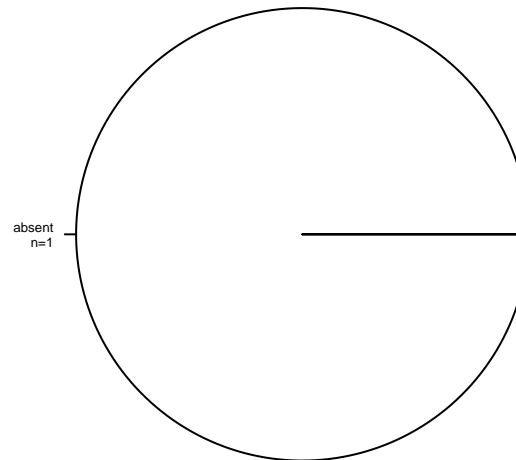
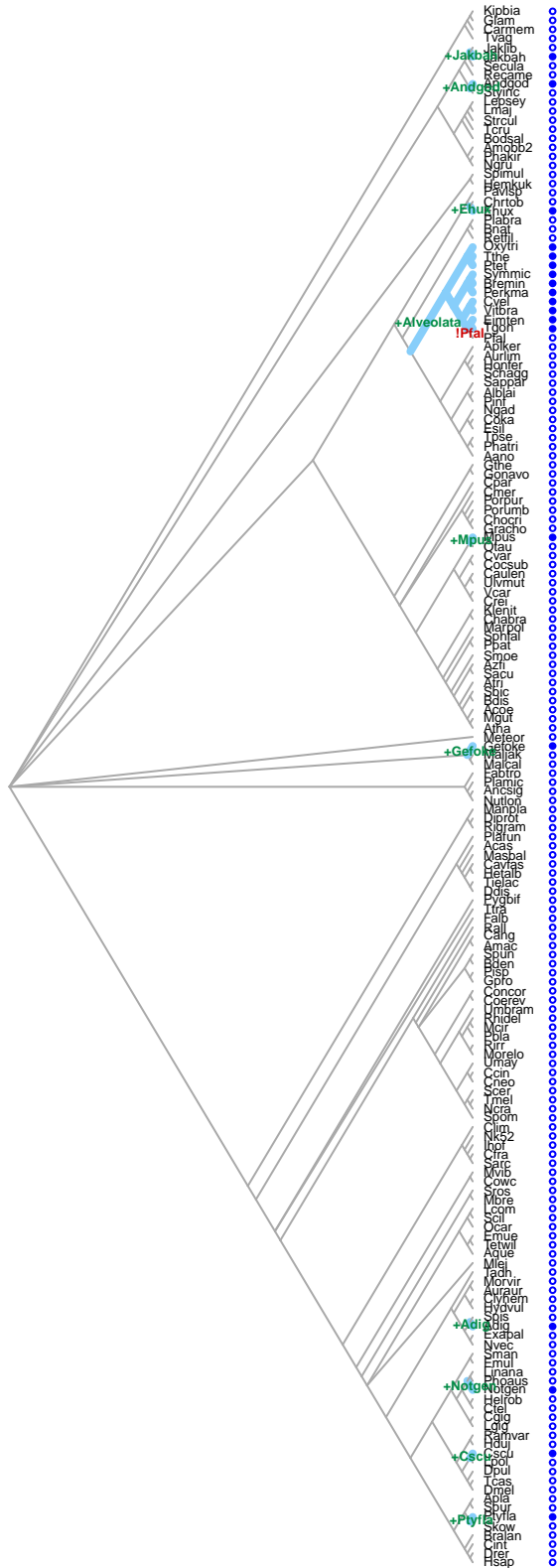


A horizontal axis labeled "Frequency" with tick marks at 0.0, 0.2, 0.4, 0.6, 0.8, and 1.0.

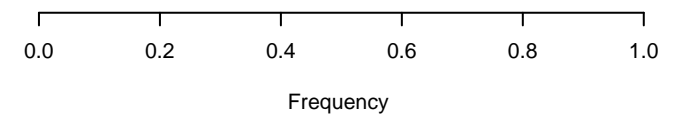
Gain: NA  
Presence Eukaryota prob = 1.00  
Present: 96  
Losses: NA



Dpy-30.HG1.2  
like:AK7/DPY30

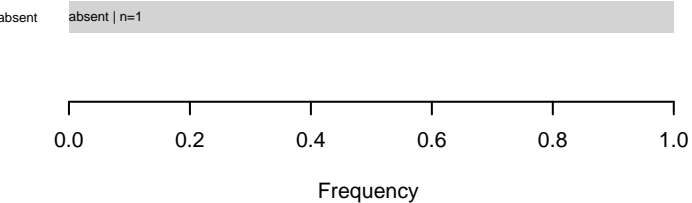
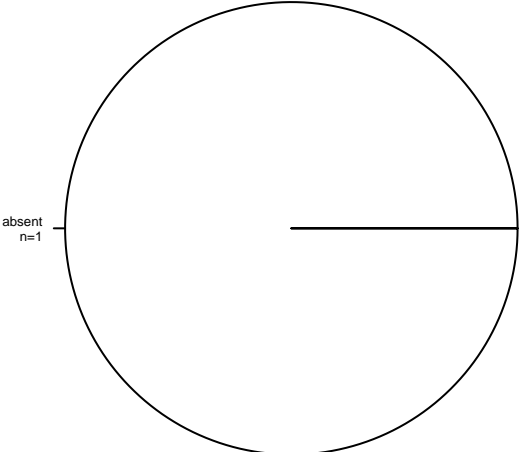
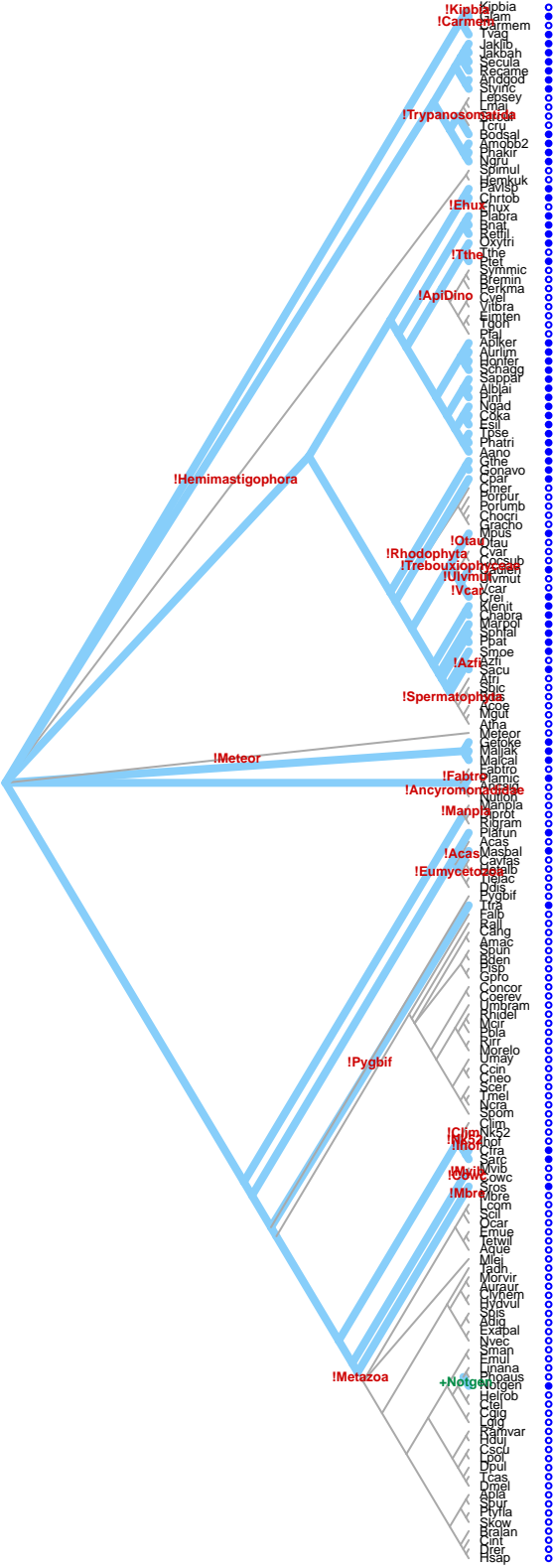


absent absent | n=1

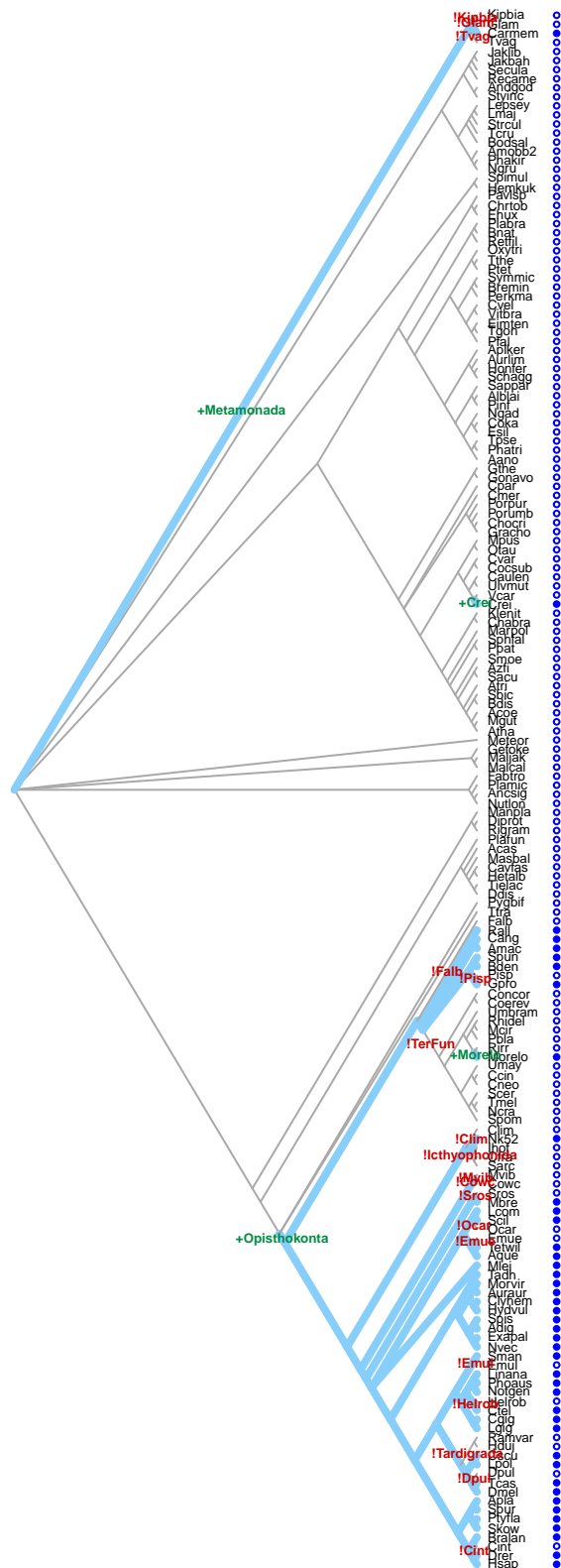


Gain: Ptyfla,Cscu,Notgen,Adig,Gefoke,Mpus,Alveolata,Ehux,Andgod,Jakbah,N  
 Presence Eukaryota prob = 0.00  
 Present: 19  
 Losses: NA

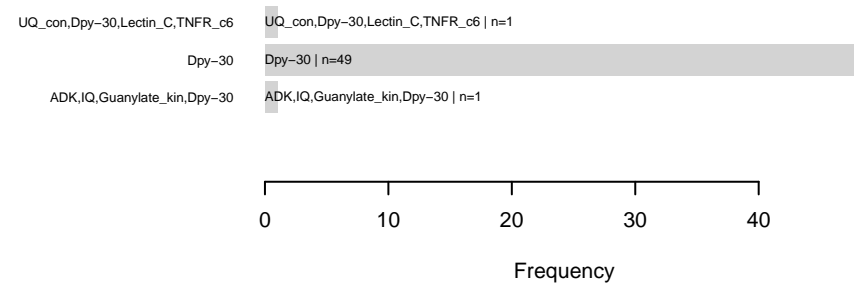
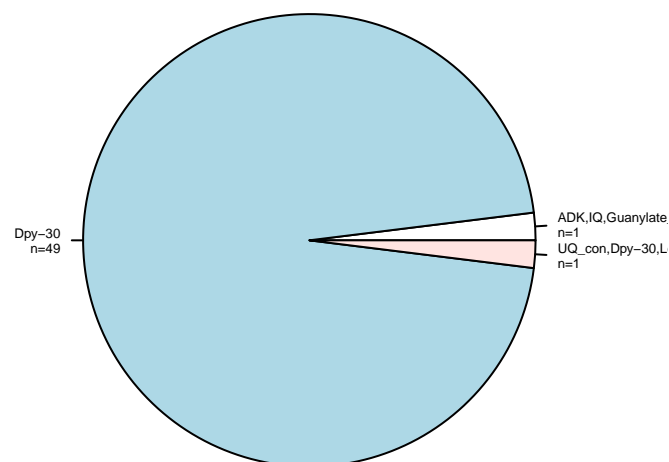
Dpy-30.HG1.20  
like:DPY30



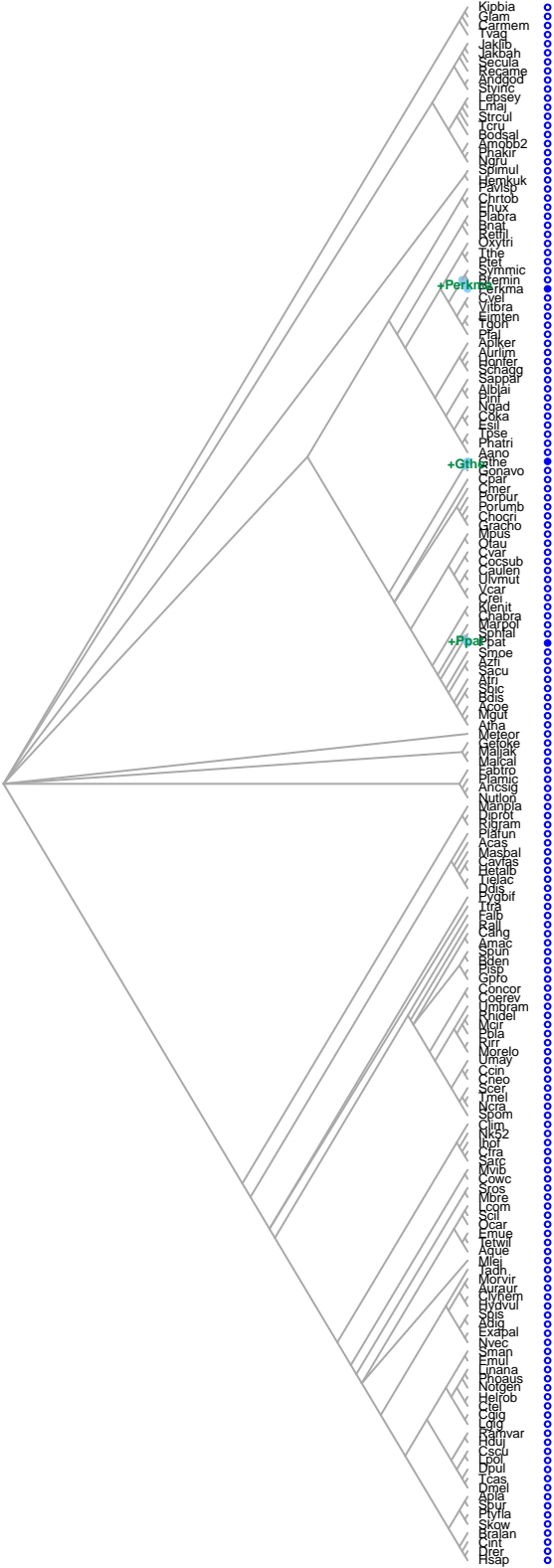
Dpy-30.HG1.21  
DPY30



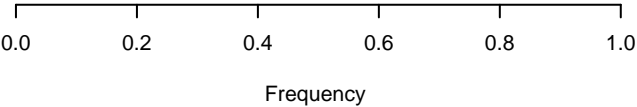
Gain: Opisthokonta,Morelo,Crei,Metamonada,NA  
 Presence Eukaryota prob = 0.09  
 Present: 43  
 Losses: NA



Dpy-30.HG1.4  
like:NME5



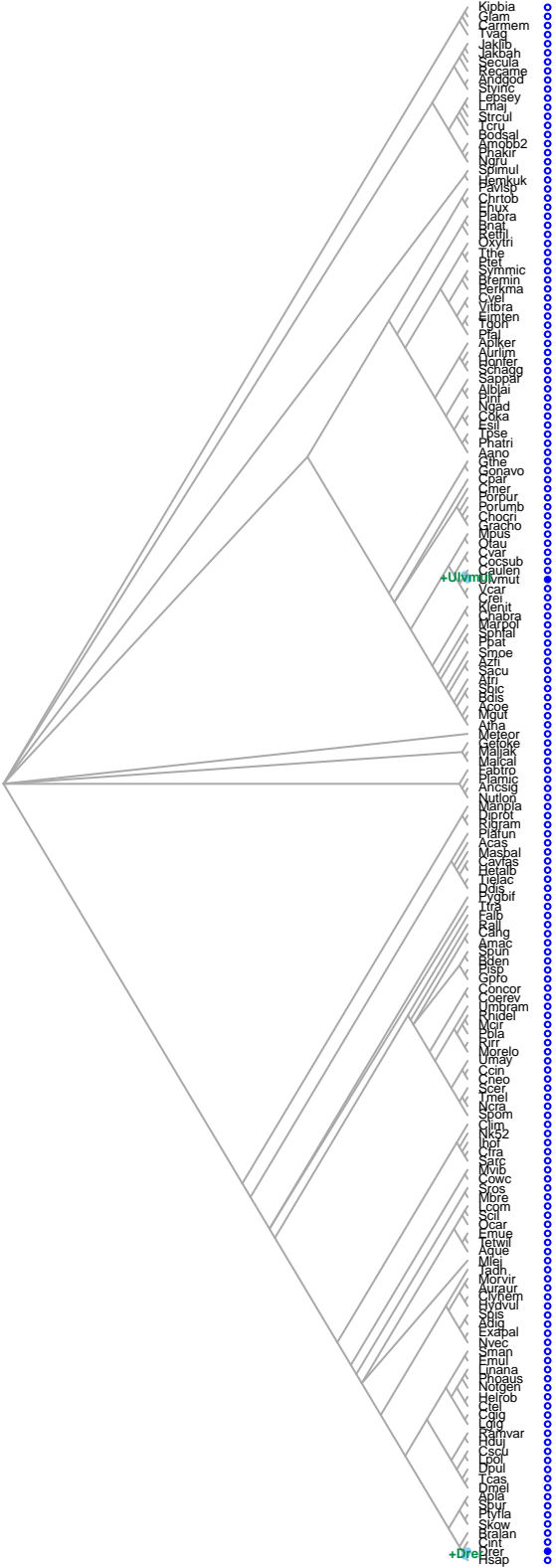
absent absent | n=1



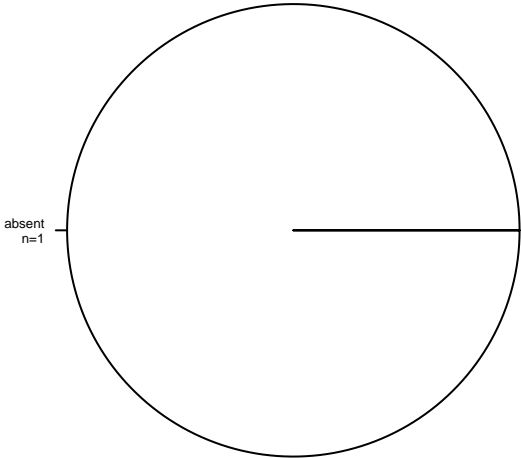
Gain: Ppat,Gthe,Perkma,NA  
Presence Eukaryota prob = 0.00  
Present: 3  
Losses: NA



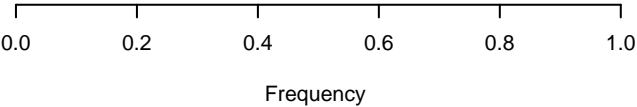
Dpy-30.HG1.5  
like:AK7/DPY30

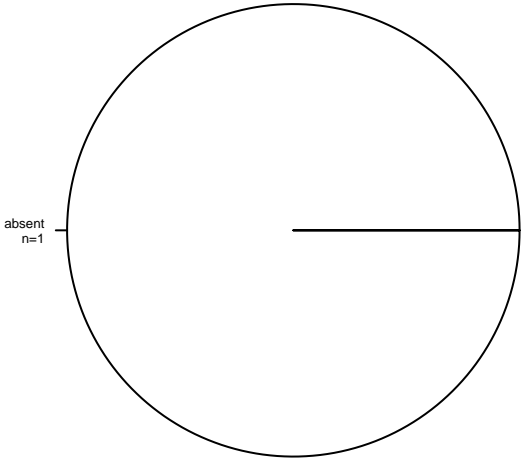
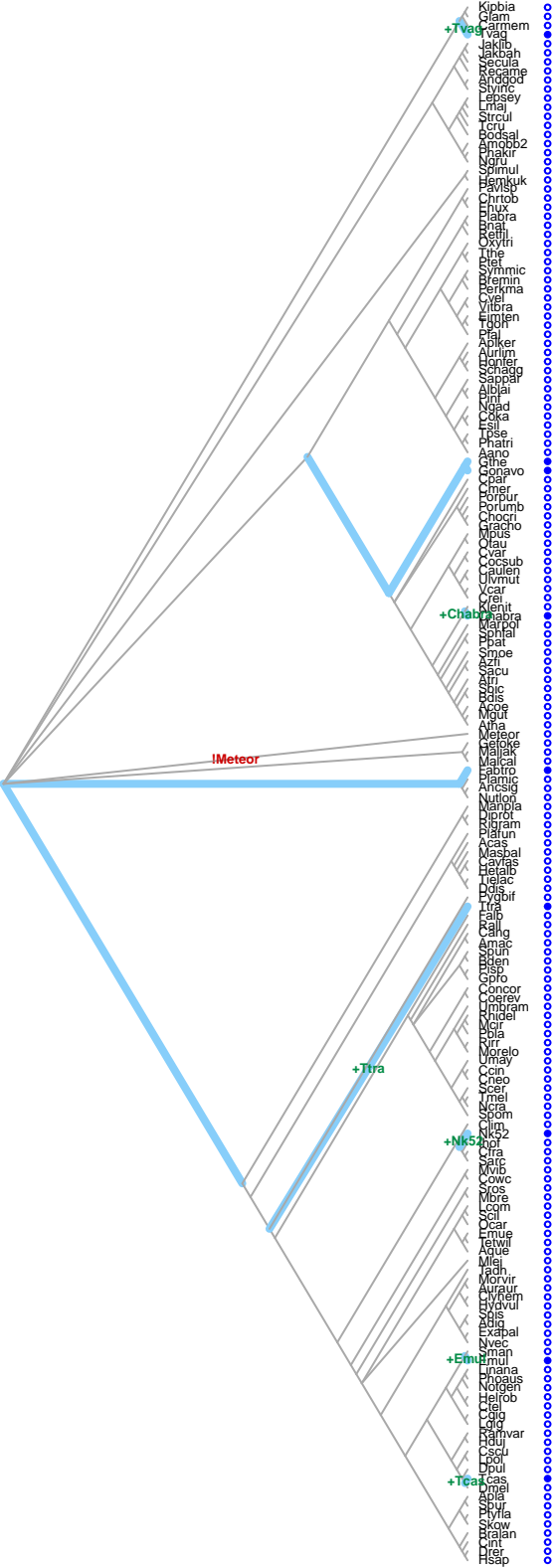


Gain: Drer,Ulvmut,NA  
Presence Eukaryota prob = 0.00  
Present: 2  
Losses: NA

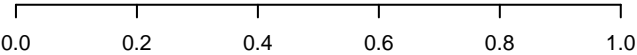


absent absent | n=1



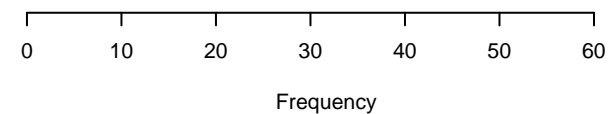
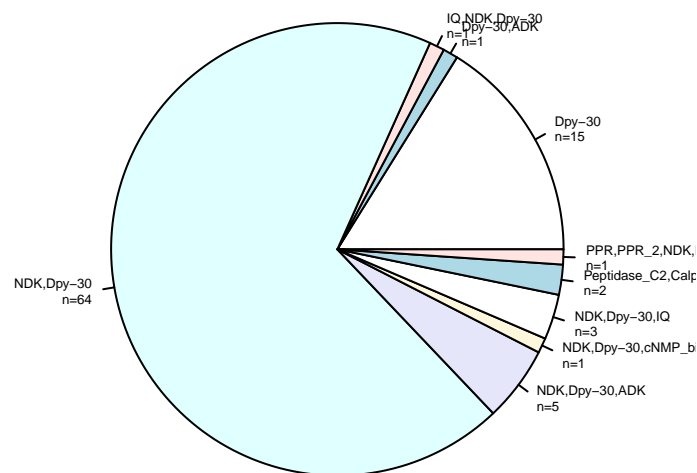


absent absent | n=1

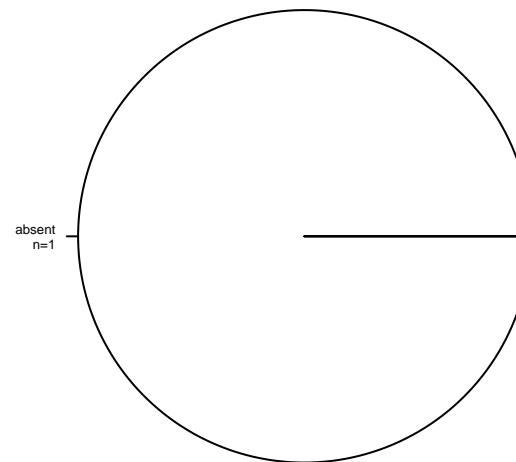
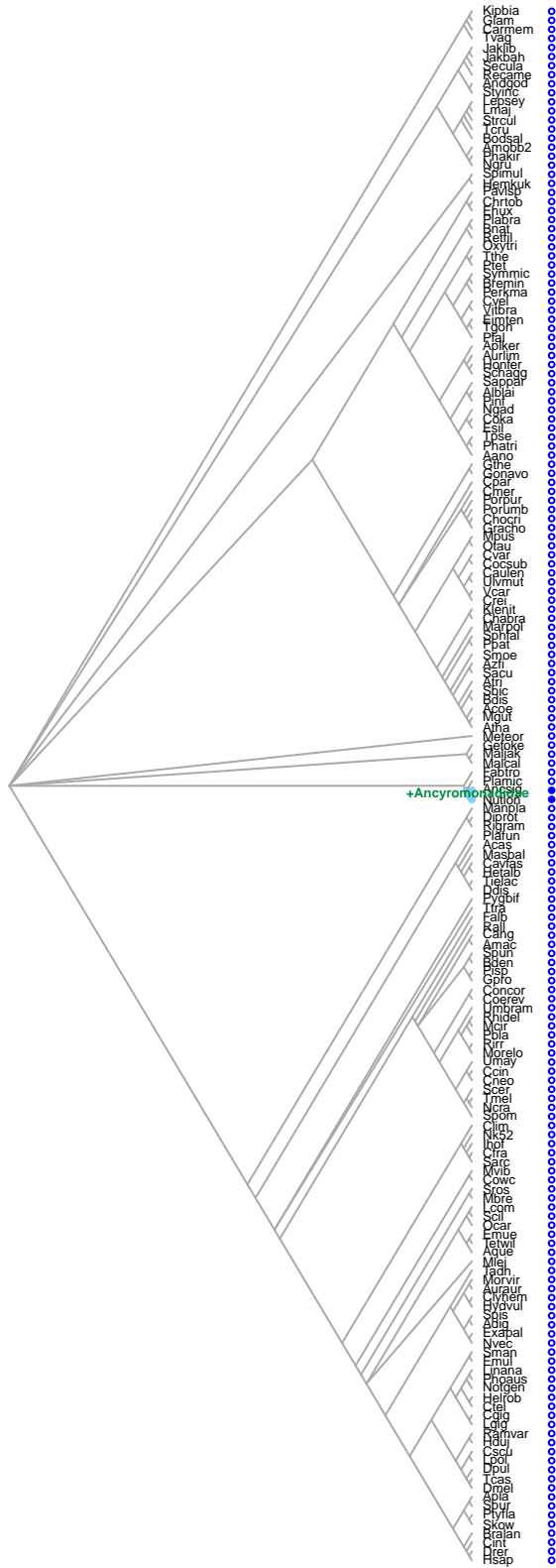


Gain: Tcas,Emul,Nk52,Ttra,Chabra,Tvag,NA  
Presence Eukaryota prob = 0.50  
Present: 9  
Losses: NA

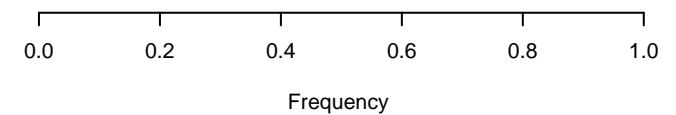
Gain: Kipbia,NA  
Presence Eukaryota prob = 1.00  
Present: 85  
Losses: NA



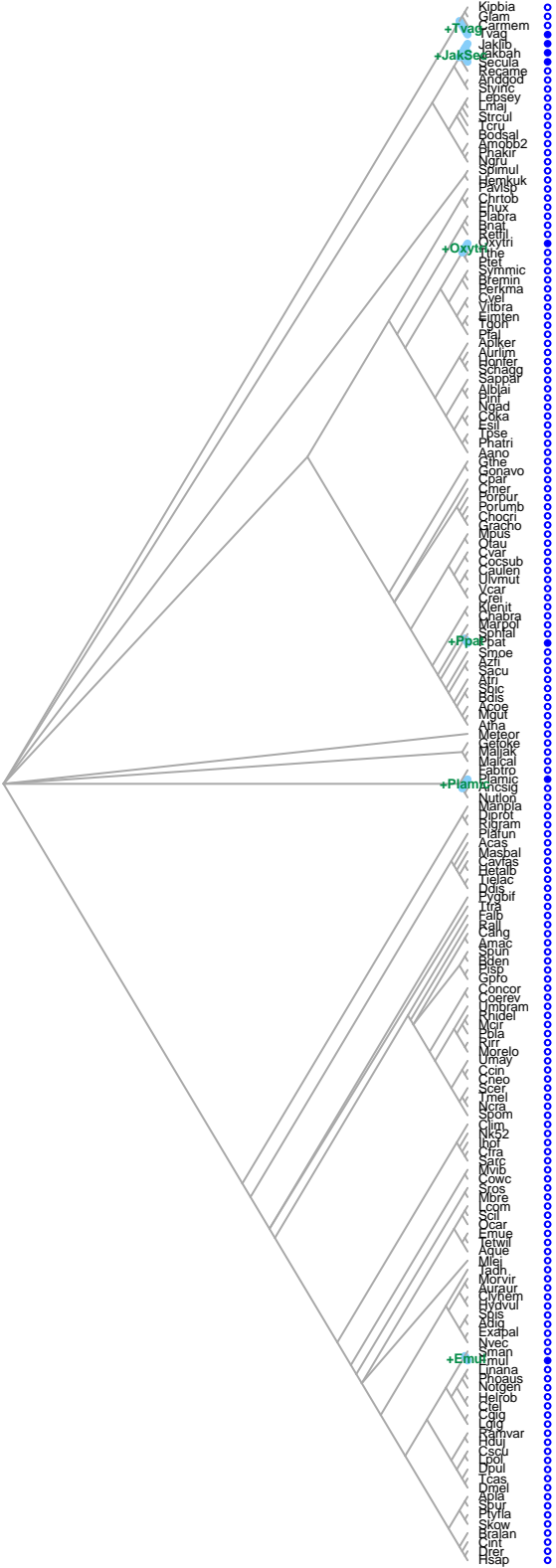
Dpy-30.HG1.8  
like:AK7/DPY30



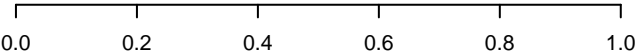
absent absent | n=1



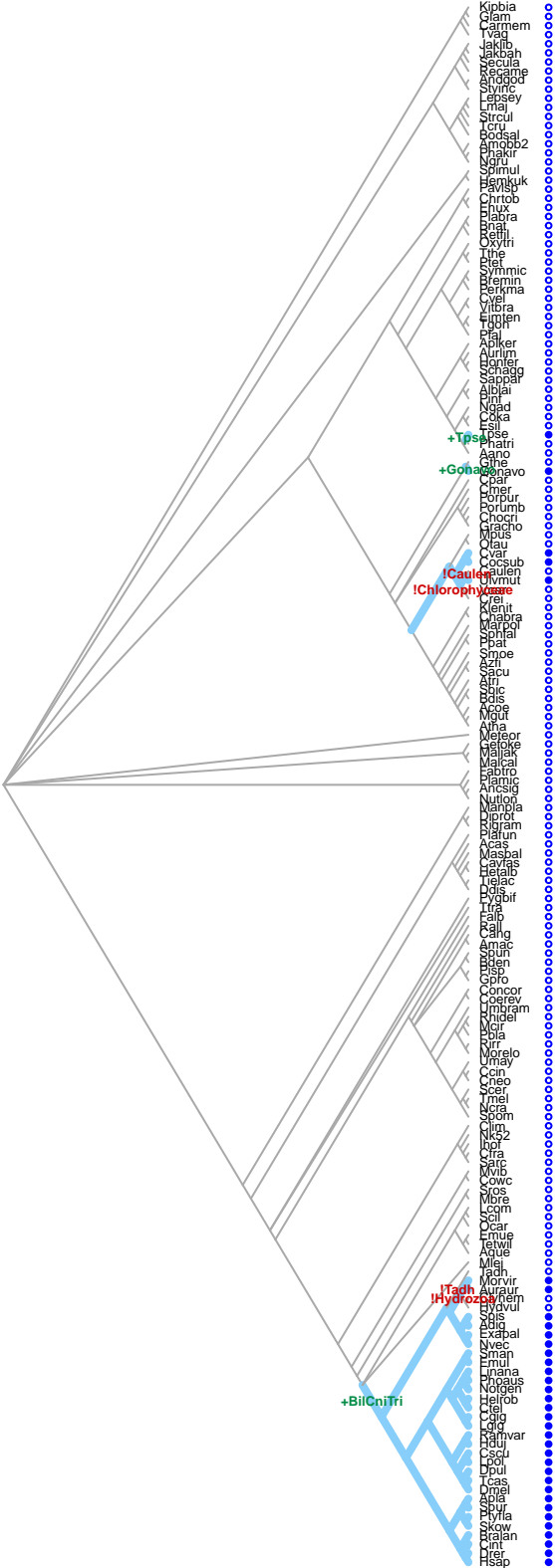
Dpy-30.HG1.9  
like:AK7/DPY30



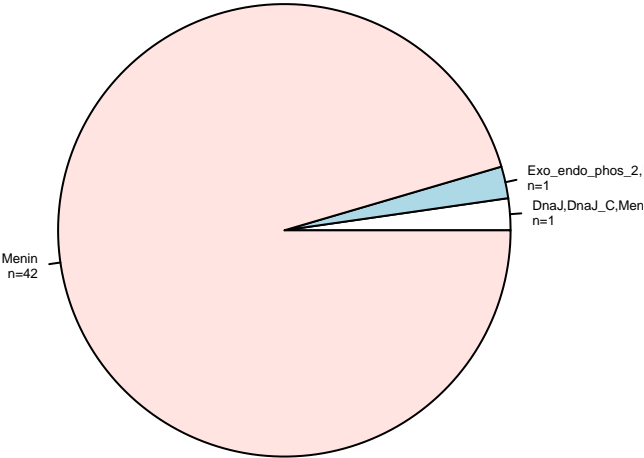
absent absent | n=1



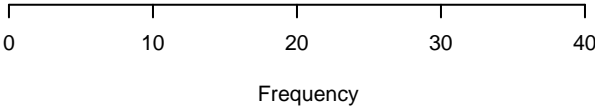
Gain: Emul,Plamic,Ppat,Oxytri,JakSec,Tvag,NA  
Presence Eukaryota prob = 0.01  
Present: 8  
Losses: NA



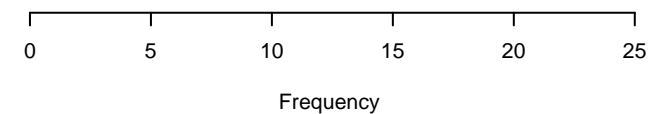
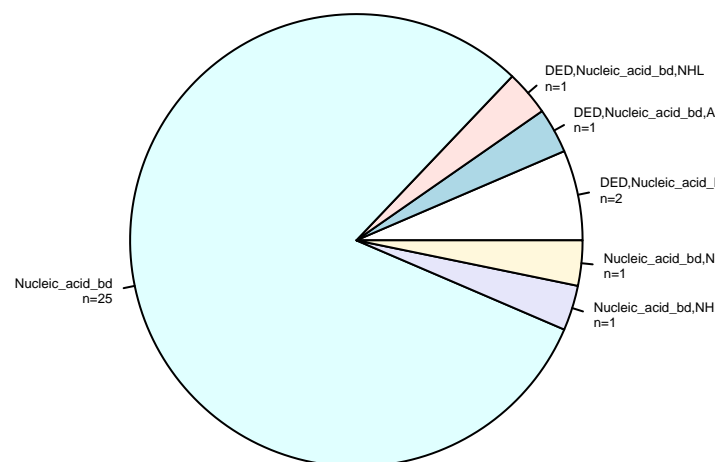
Gain: BilCniTri, Gonavo, Tpse, NA  
Presence Eukaryota prob = 0.08  
Present: 35  
Losses: NA

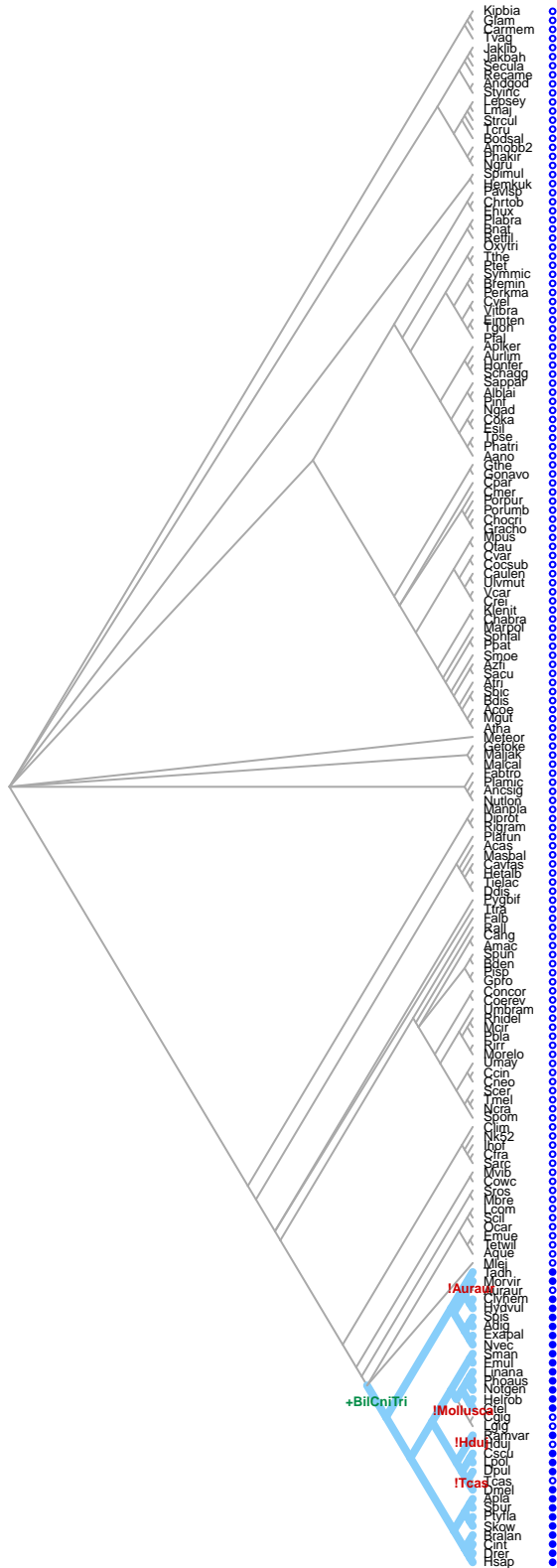


Menin | Menin | n=42  
Exo\_endo\_phos\_2, Menin | Exo\_endo\_phos\_2, Menin | n=1  
DnaJ, DnaJ\_C, Menin | DnaJ, DnaJ\_C, Menin | n=1

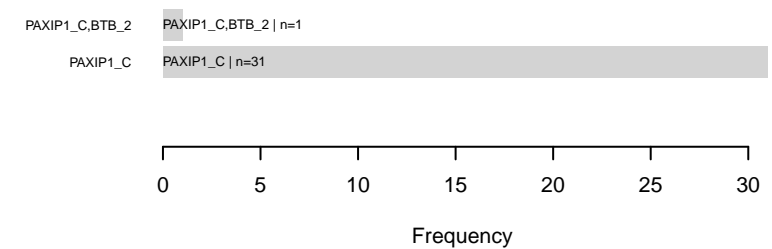
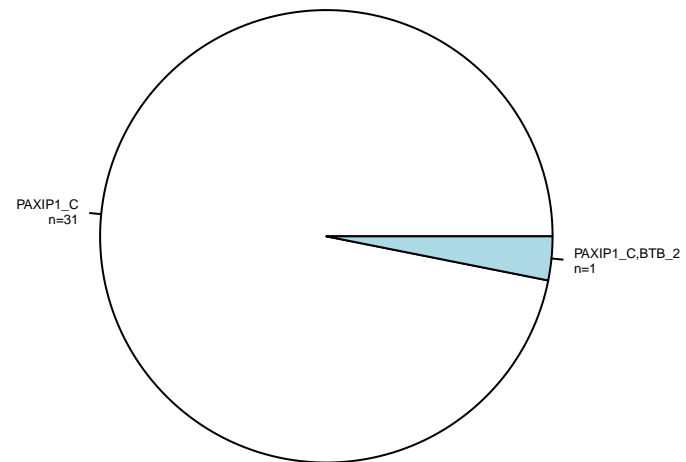


Gain: NA  
Presence Eukaryota prob = 0.00  
Present: 21  
Losses: NA

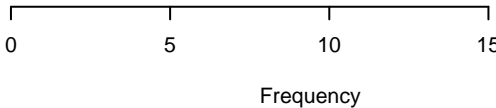
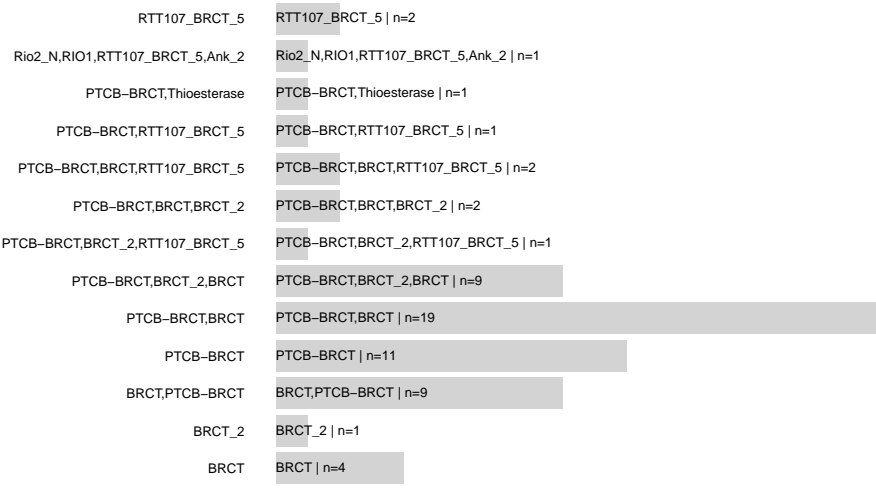
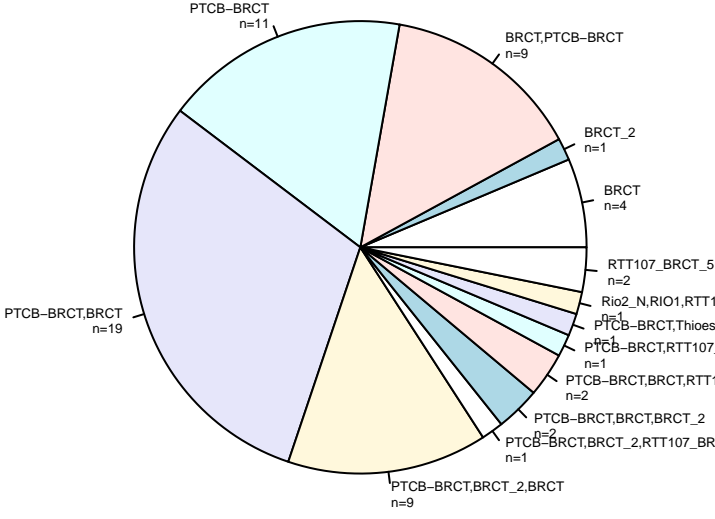
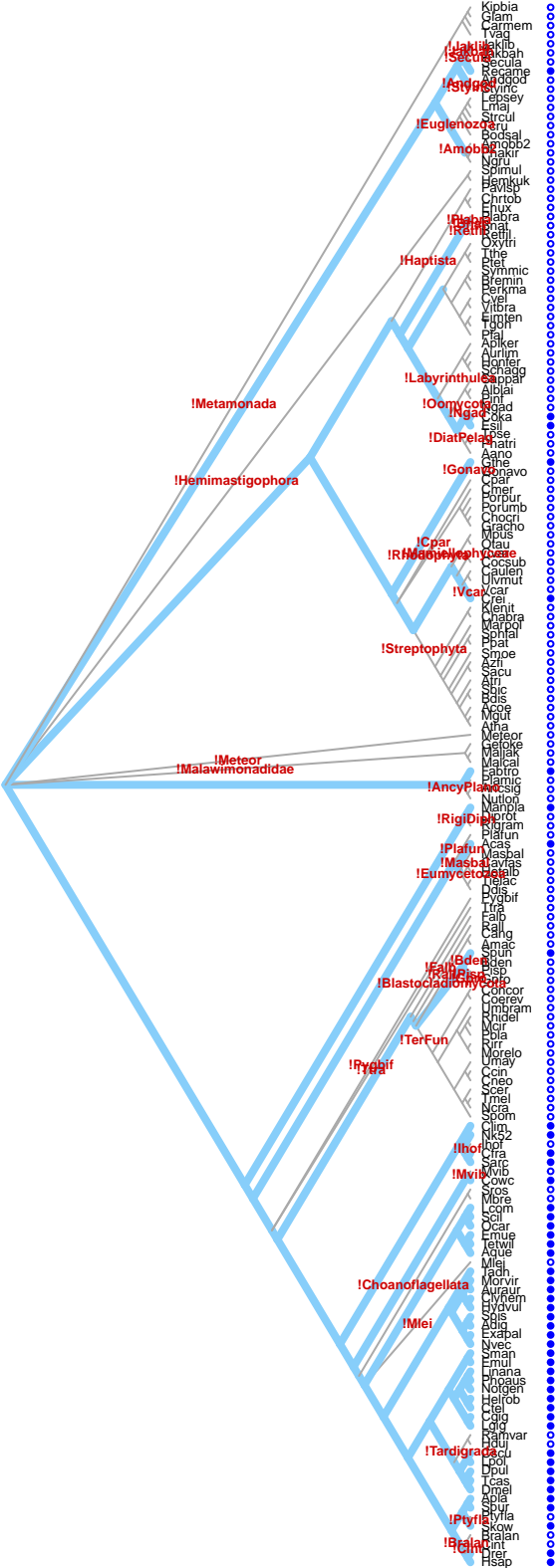


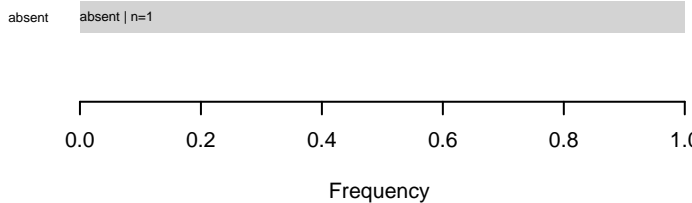
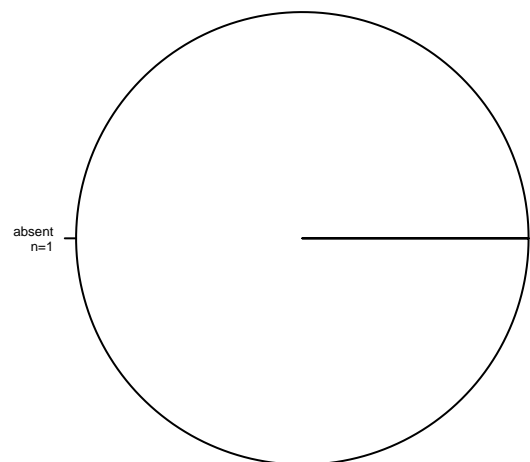
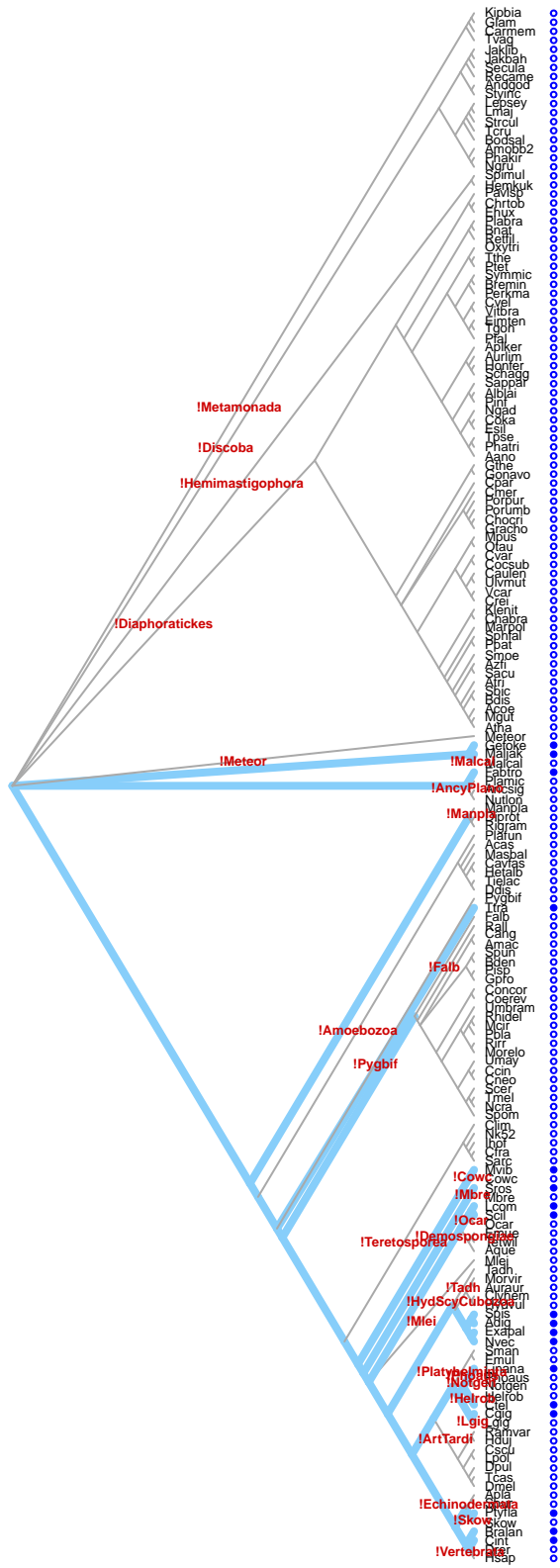


Gain: BilCniTri,NA  
Presence Eukaryota prob = 0.00  
Present: 28  
Losses: NA

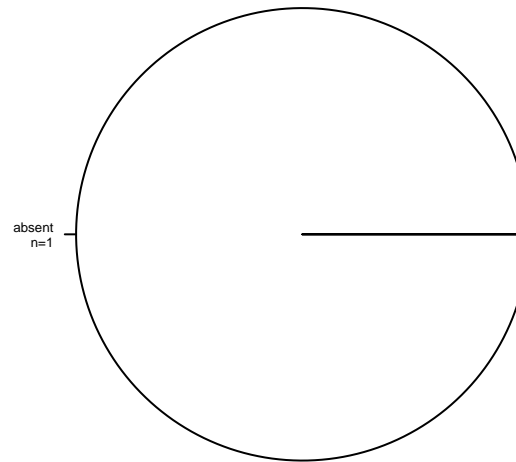
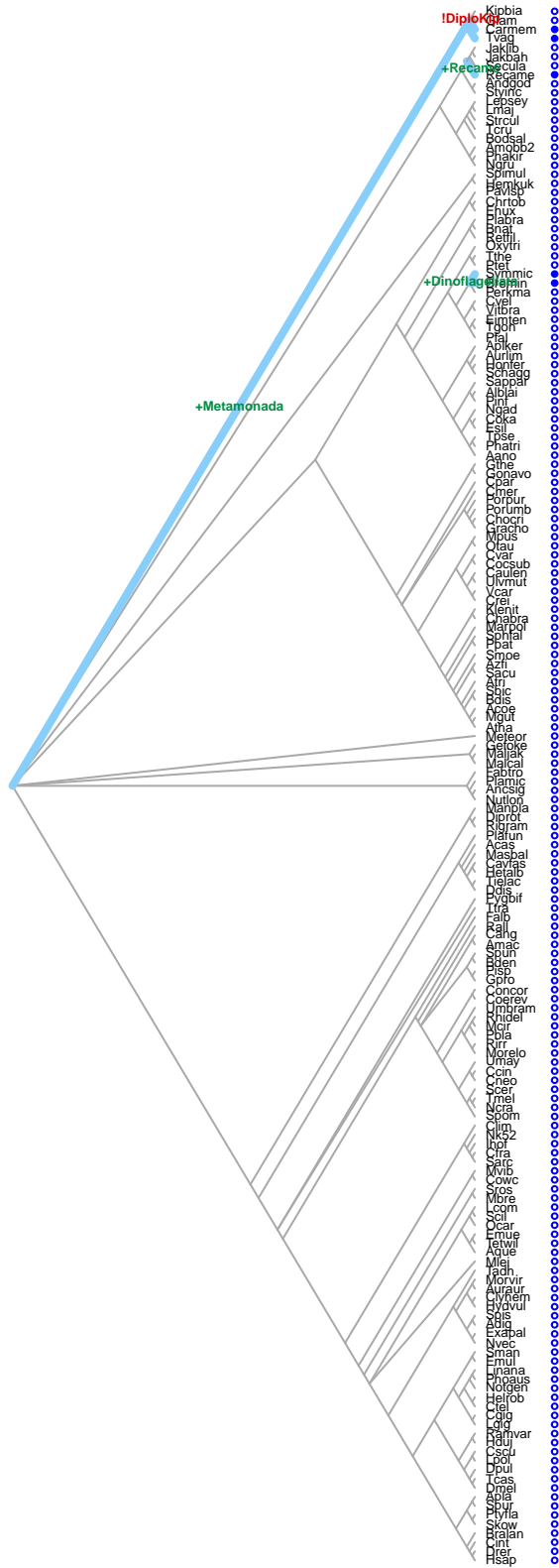




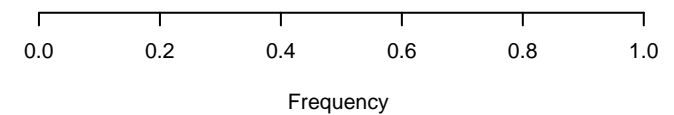




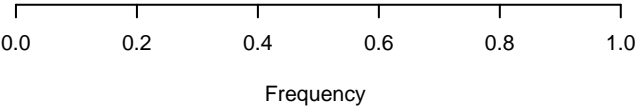
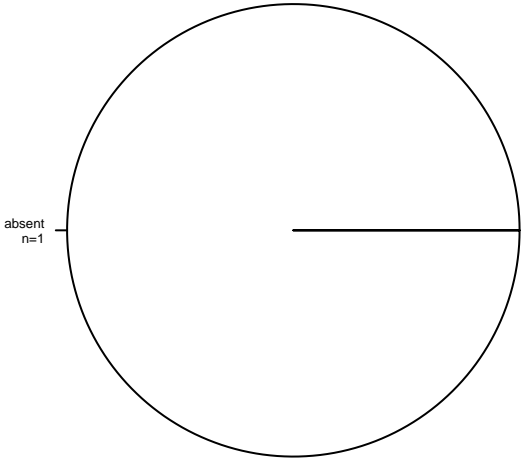
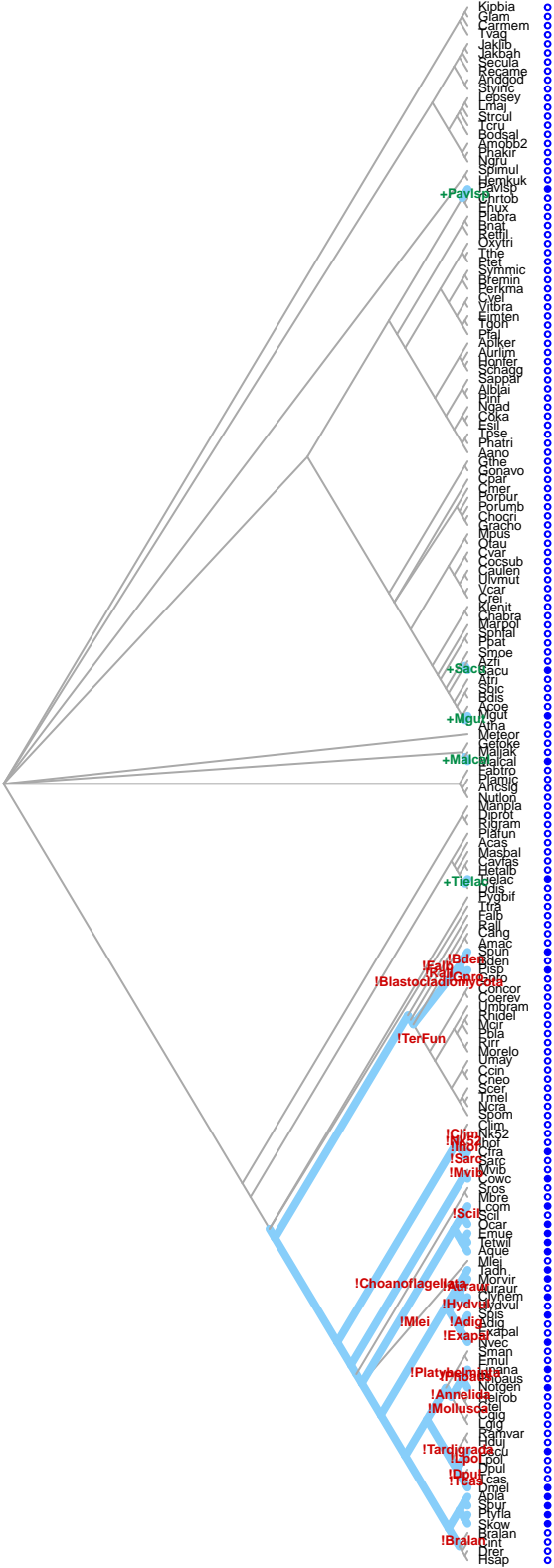
Gain: NA  
Presence Eukaryota prob = 1.00  
Present: 18  
Losses: NA

PTIP.HG1.10  
like:ECT2

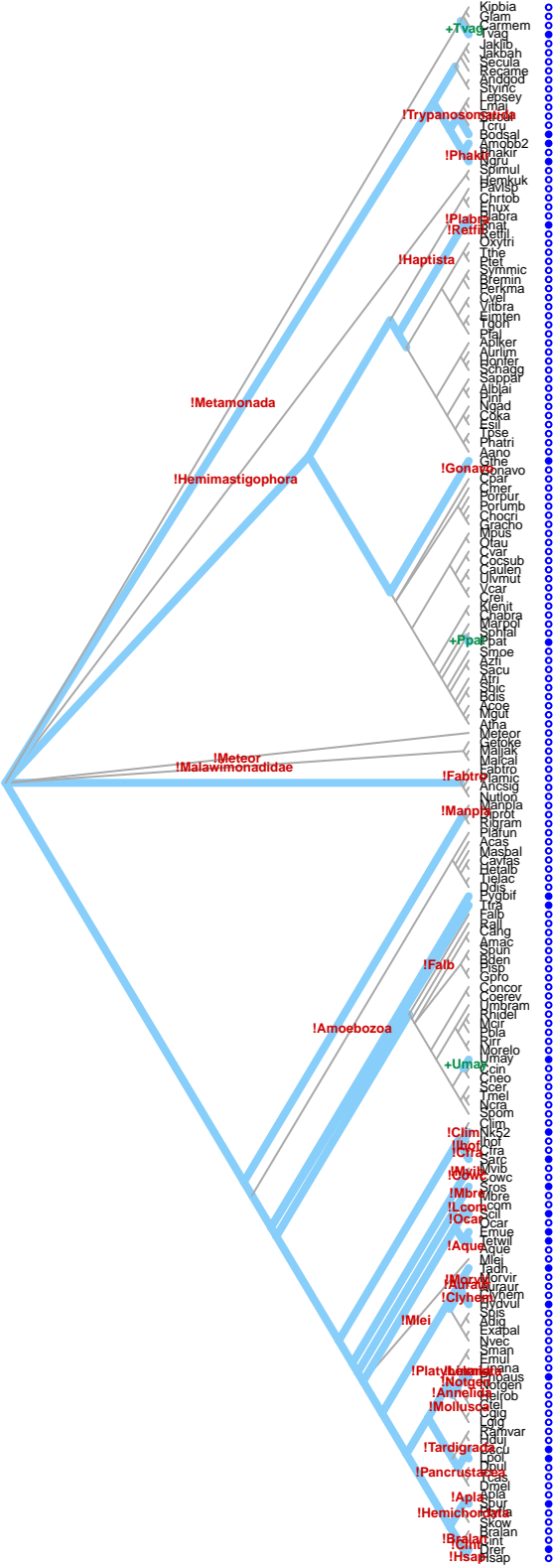
absent absent | n=1



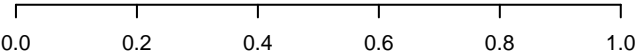
Gain: Dinoflagellata,Recame,Metamonada,NA  
Presence Eukaryota prob = 0.00  
Present: 5  
Losses: NA



Gain: Tielac,Malcal,Mgut,Sacu,Pavls,NA  
Presence Eukaryota prob = 0.30  
Present: 27  
Losses: NA

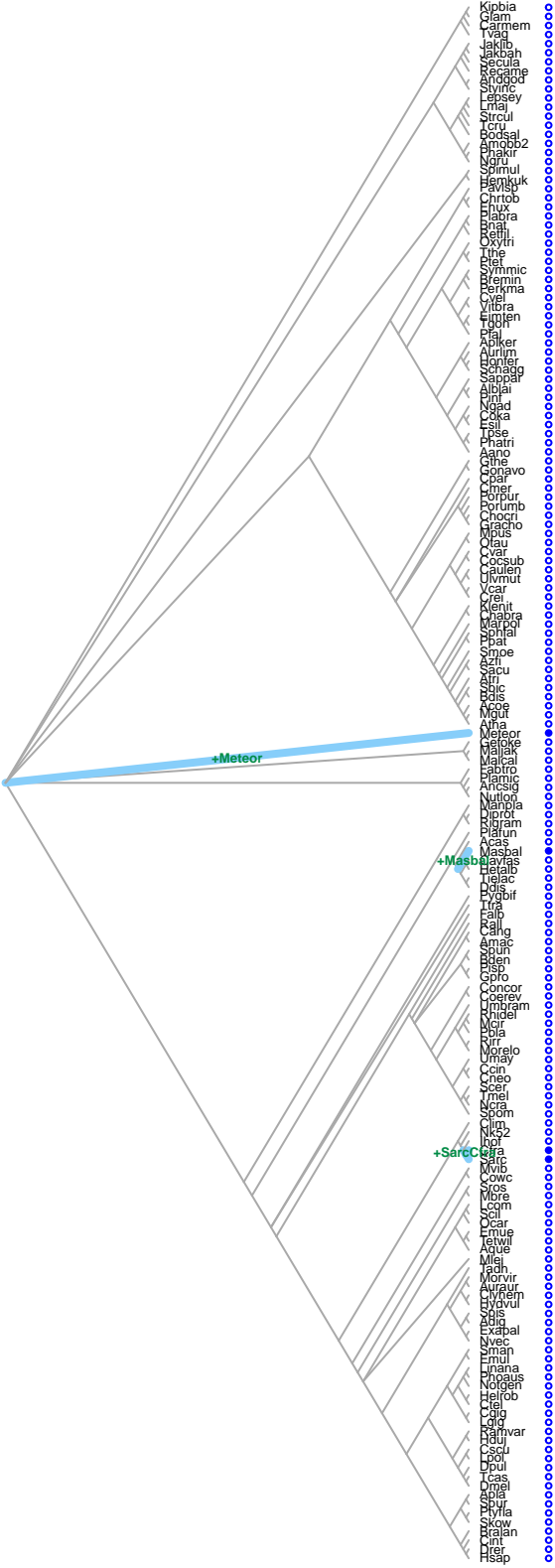


absent absent | n=1

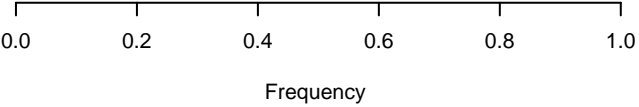


Frequency

Gain: Umay,Ppat,Tvag,NA  
Presence Eukaryota prob = 1.00  
Present: 23  
Losses: NA

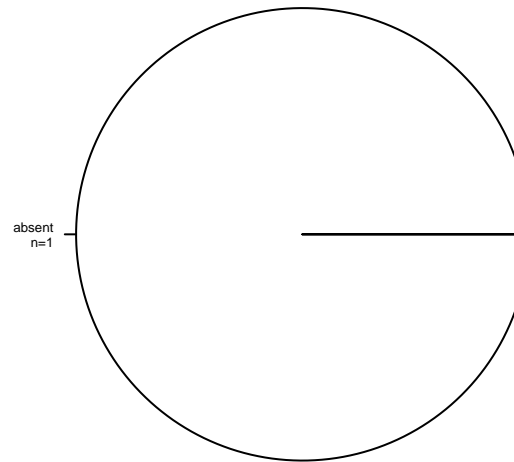
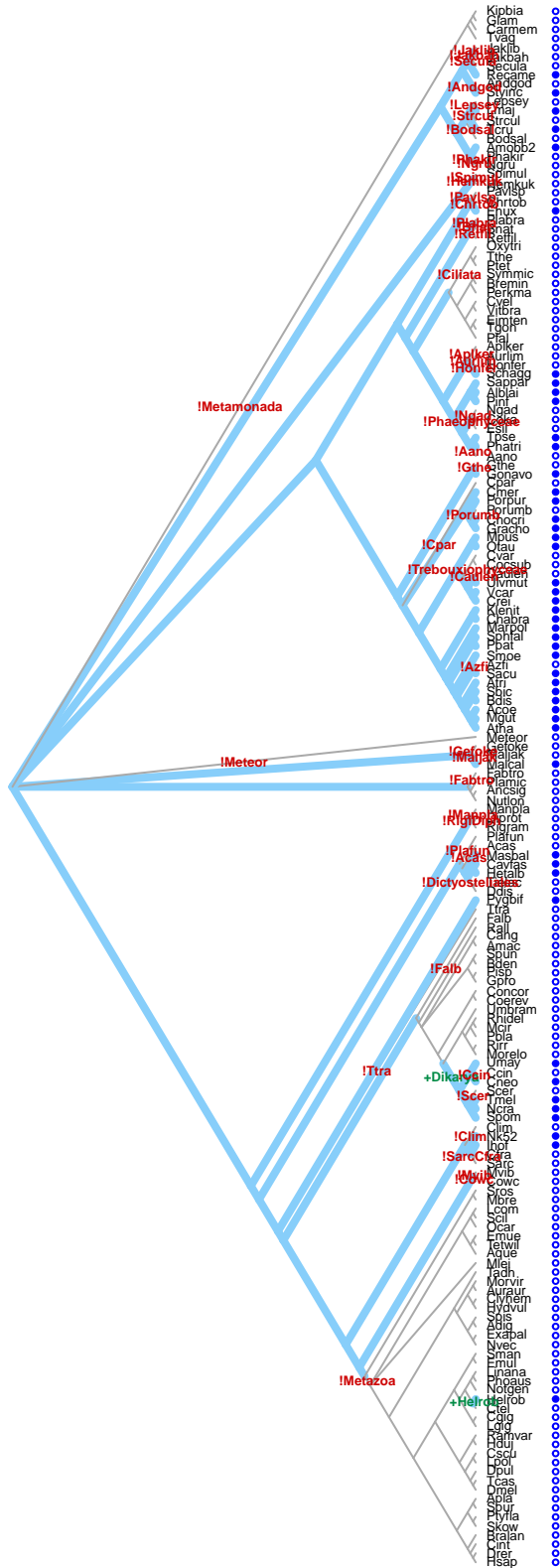


absent absent | n=1

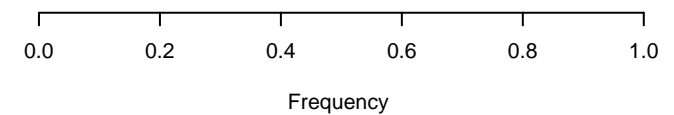


Gain: SarcCfra,Masbal,Meteor,NA  
Presence Eukaryota prob = 0.05  
Present: 4  
Losses: NA

PTIP.HG1.14  
like:ECT2



absent absent | n=1

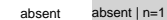


Gain: Helrob,Dikarya,NA  
Presence Eukaryota prob = 1.00  
Present: 48  
Losses: NA

PTIP.HG1.15

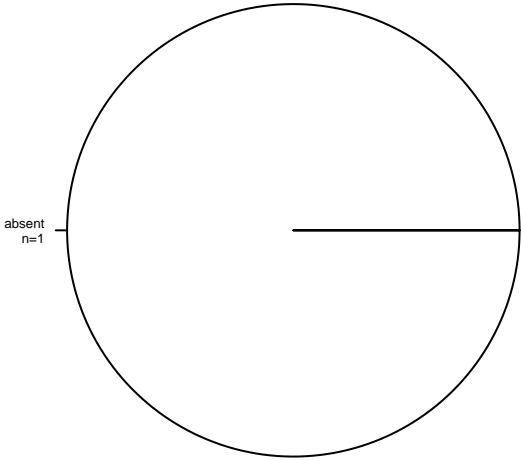
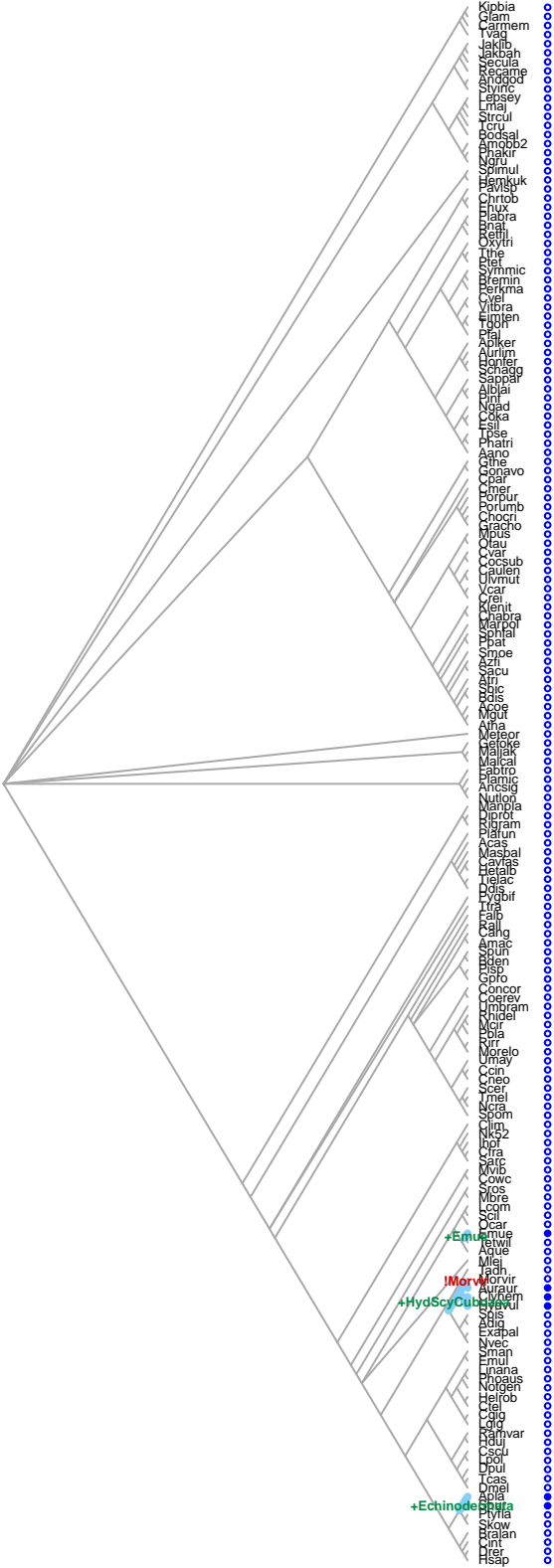


Gain: Hydvol,Tthe,NA

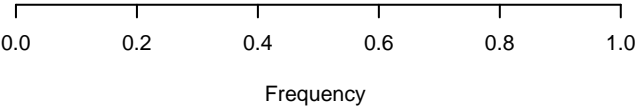


Frequency

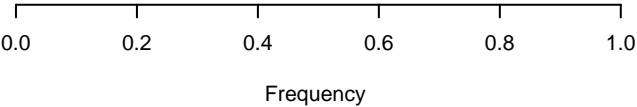
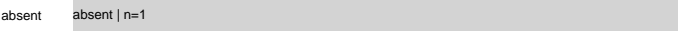
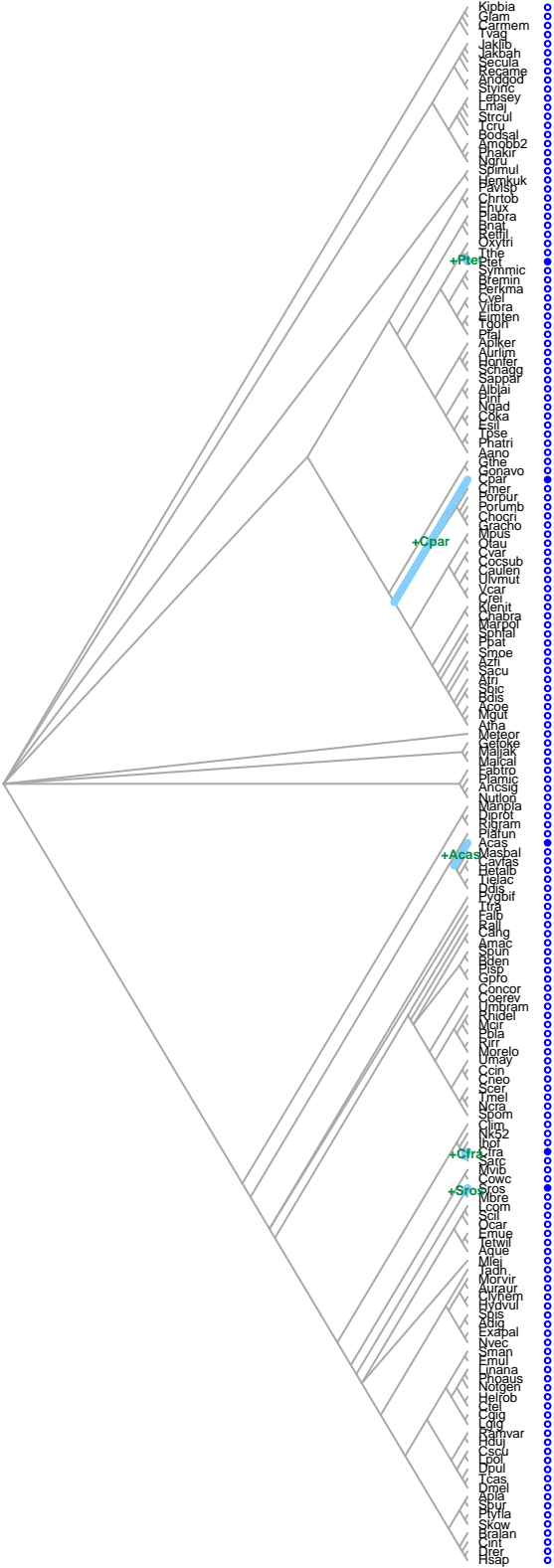




absent absent | n=1

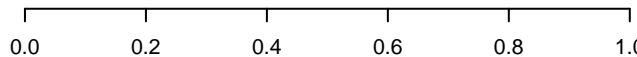
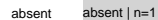


Gain: Echinodermata,HydScyCubozoa,Emue,NA  
Presence Eukaryota prob = 0.00  
Present: 6  
Losses: NA



Gain: Sros,Cfra,Acas,Cpar,Ptet,NA  
Presence Eukaryota prob = 0.03  
Present: 5  
Losses: NA

PTIP.HG1.18



Gain: Scer,Pisp,Ptet,NA

Presence Eukaryota prob = 0.00

Present: 3

Losses: NA

PTIP.HG1.19



absent | n=1

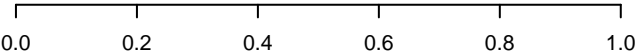
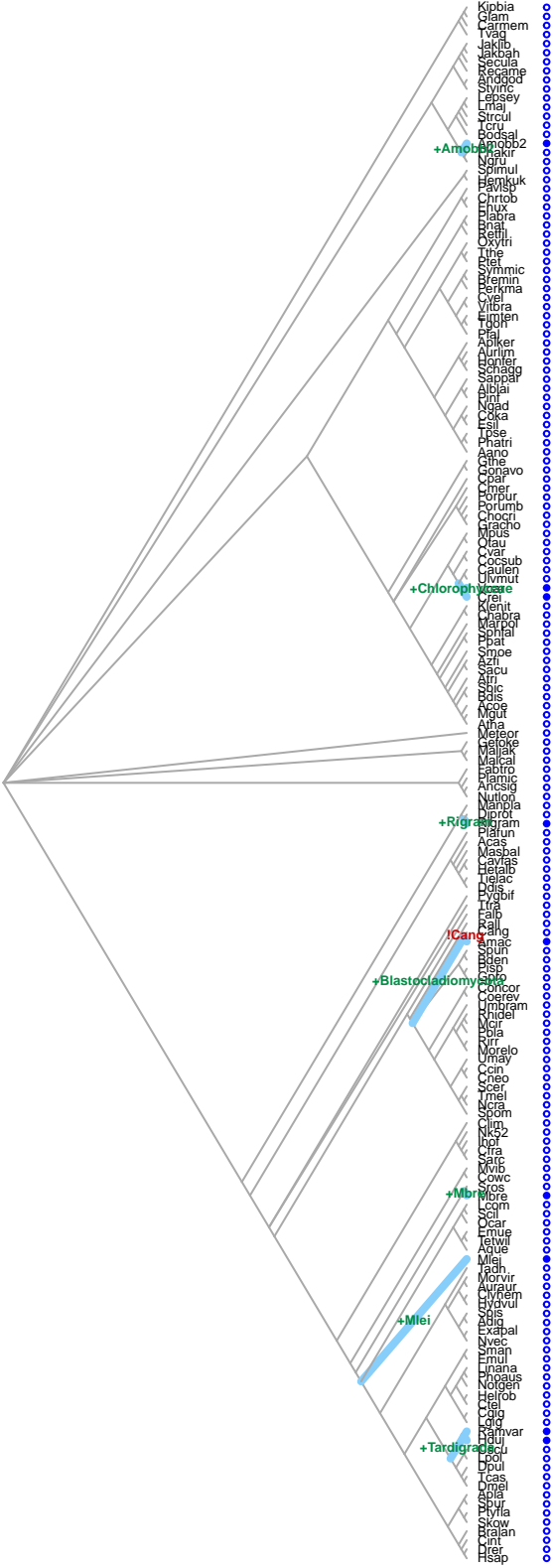


Gain: Emul.Ancsig.TetraPhary.Jaklib.NA

Presence Eukaryota prob = 0.10

Present: 5

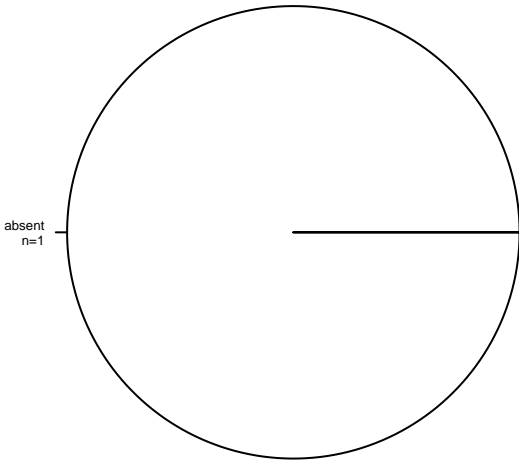
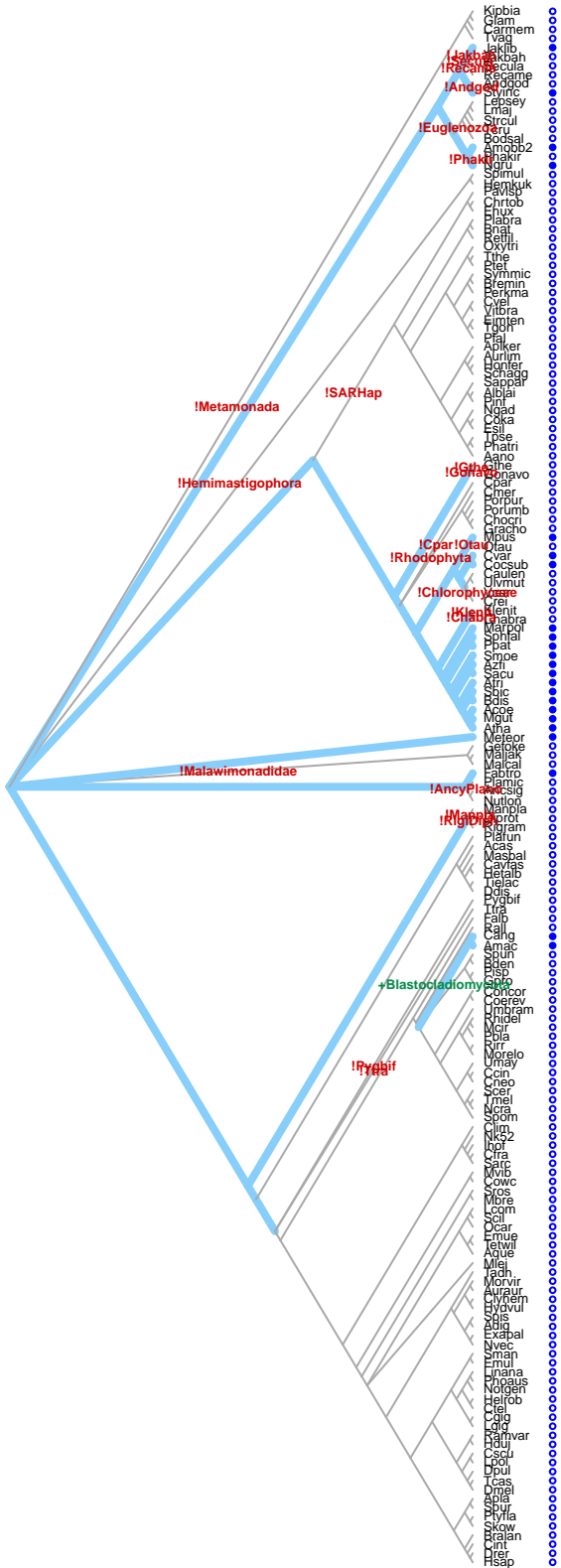
Losses: NA



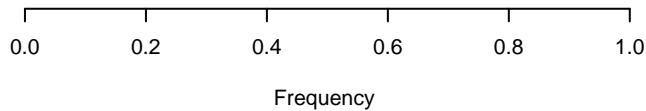
Frequency

Gain: Tardigrada,Mlei,Mbre,Blastocladiomycota,Rigram,Chlorophyceae,Amobb2  
Presence Eukaryota prob = 0.07  
Present: 9  
Losses: NA

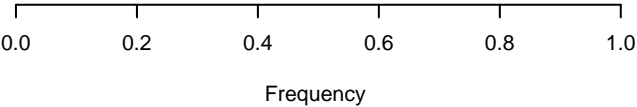
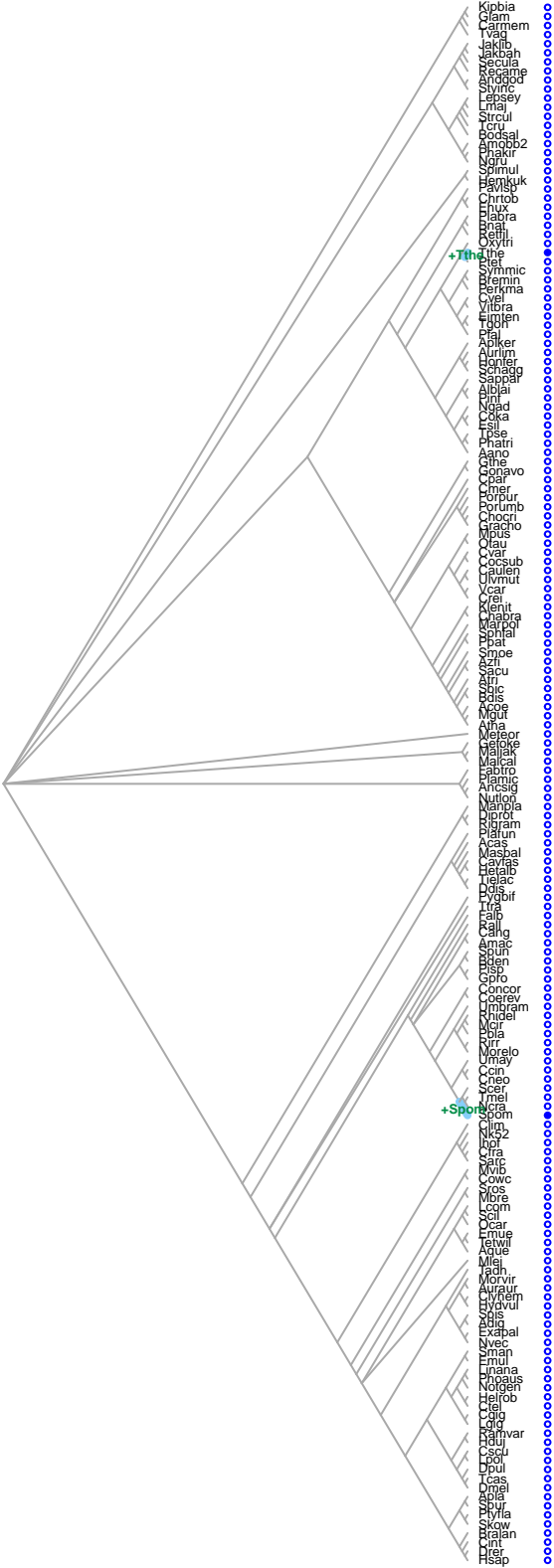
PTIP.HG1.20  
like:BRCA1/ECT2/MCPH1/PAXIP1/XRCC1



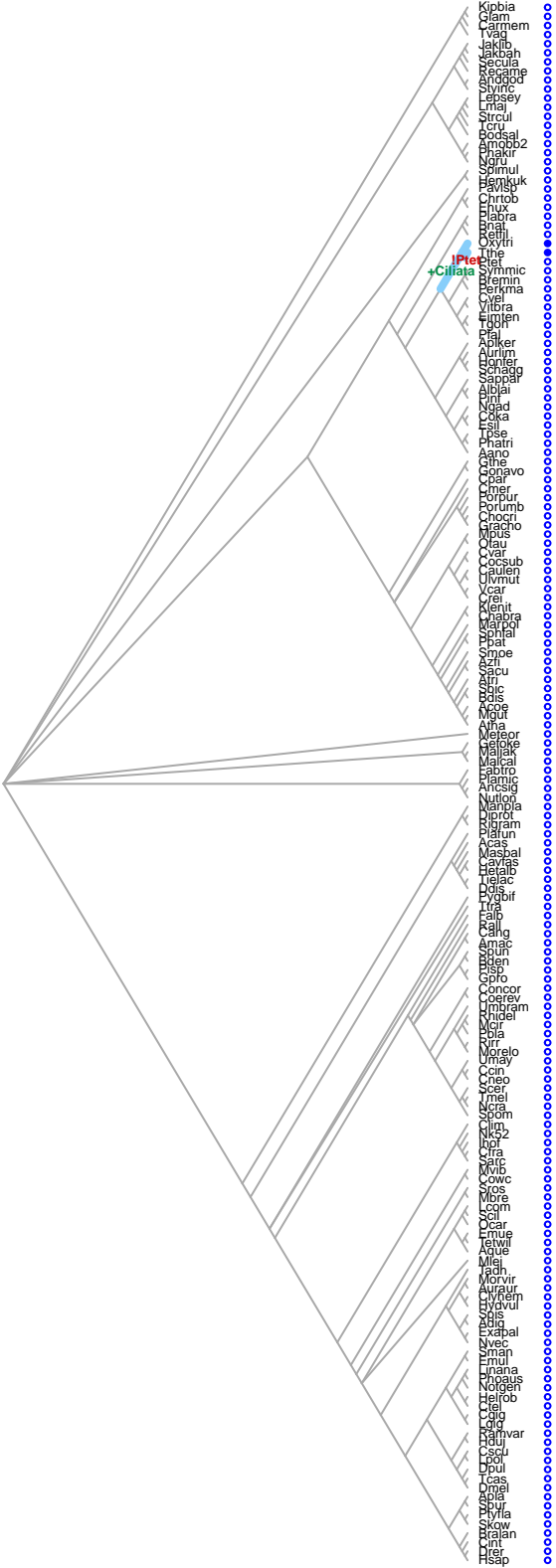
absent absent | n=1



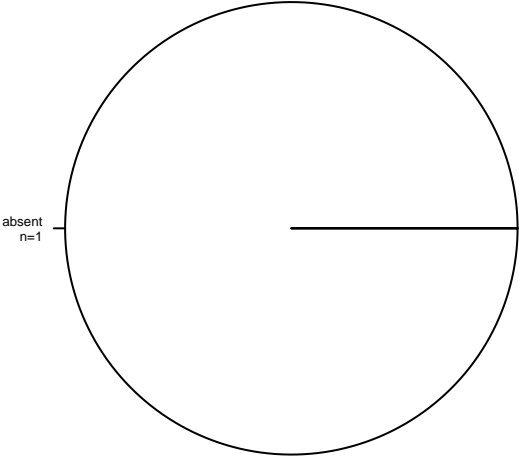
PTIP.HG1.21  
like:PAXIP1



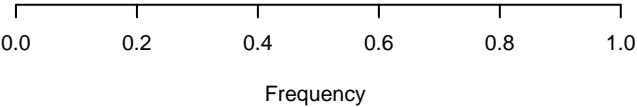
Gain: Spom,Tthe,NA  
Presence Eukaryota prob = 0.00  
Present: 2  
Losses: NA



Gain: Ciliata,NA  
Presence Eukaryota prob = 0.00  
Present: 2  
Losses: NA

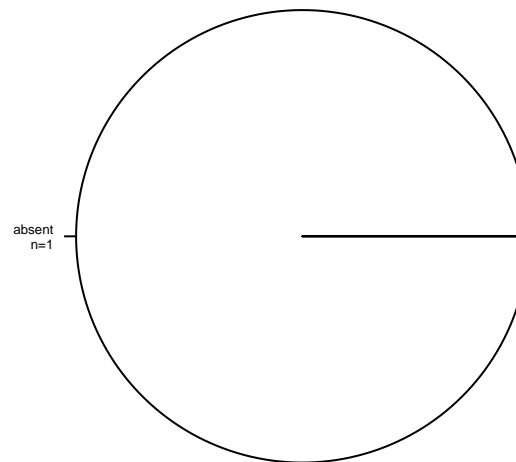
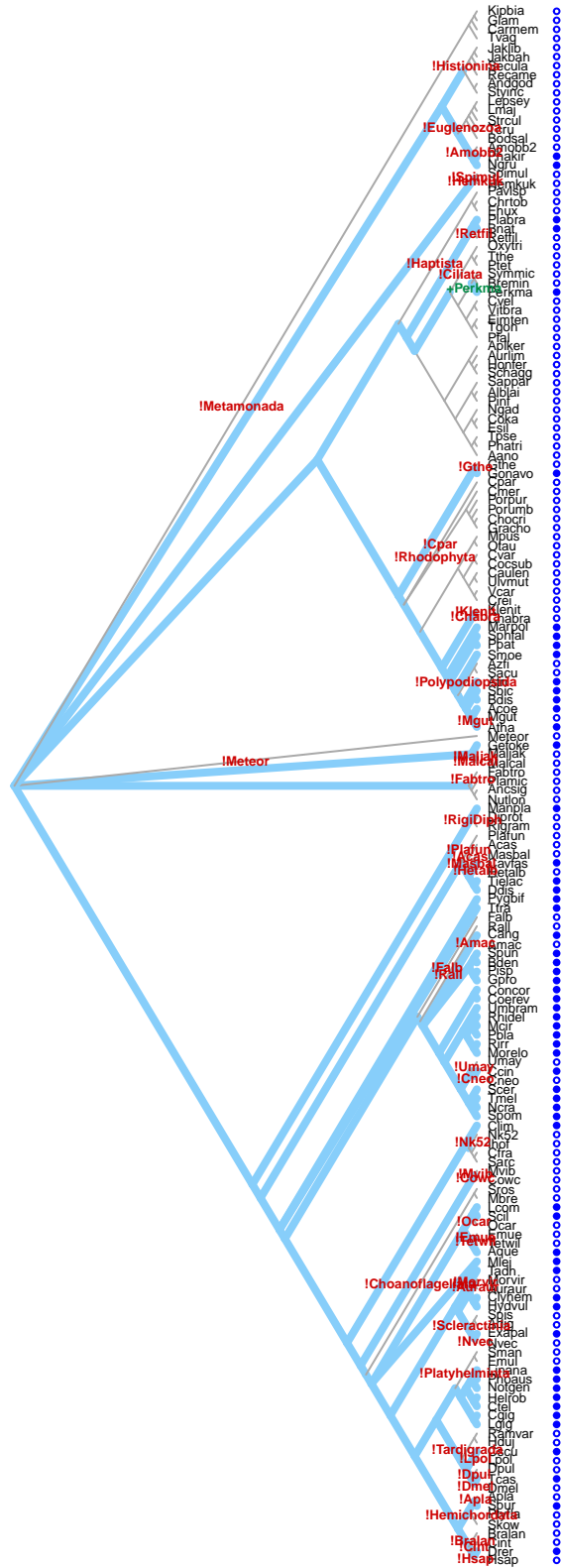


absent absent | n=1

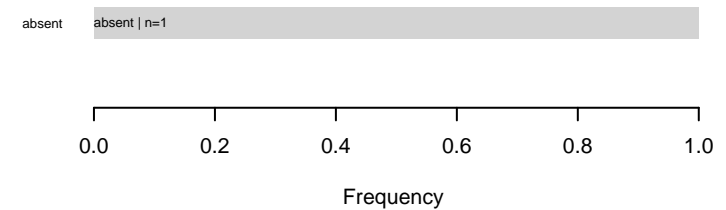




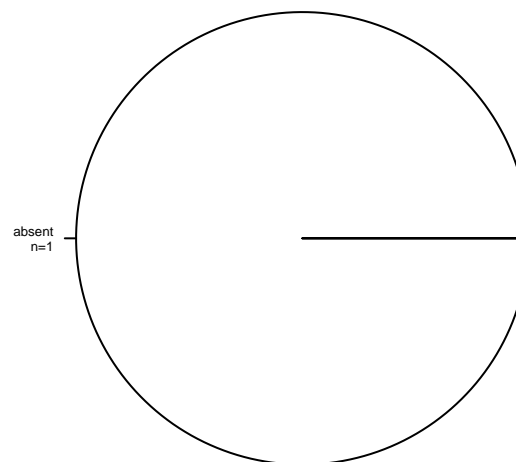
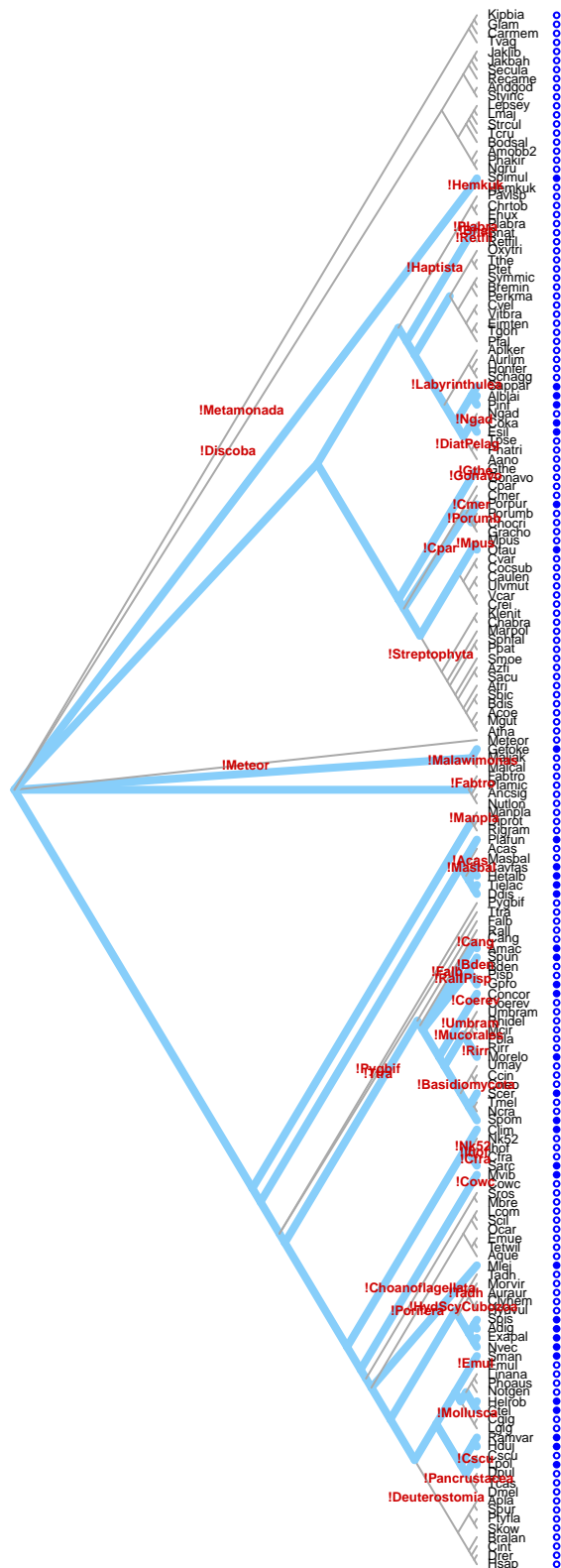
PTIP.HG1.23  
like:PAXIP1



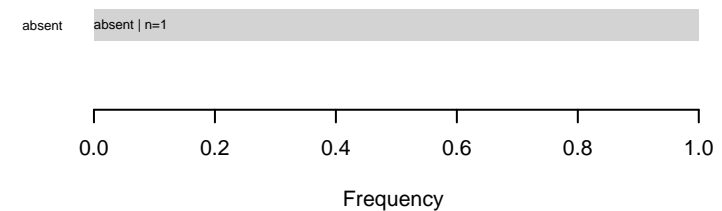
Gain: Perkma,NA  
Presence Eukaryota prob = 1.00  
Present: 60  
Losses: NA



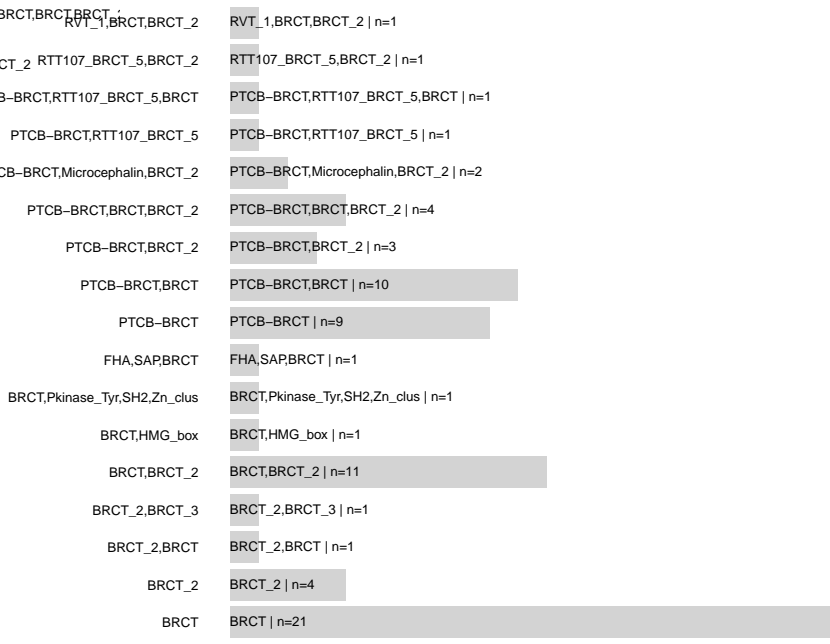
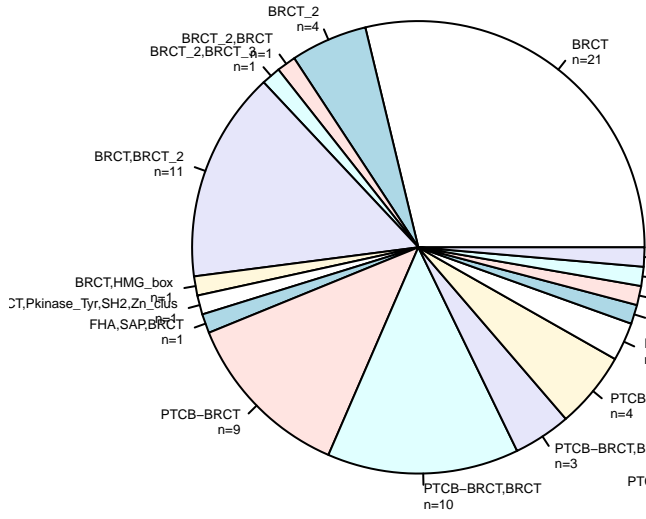
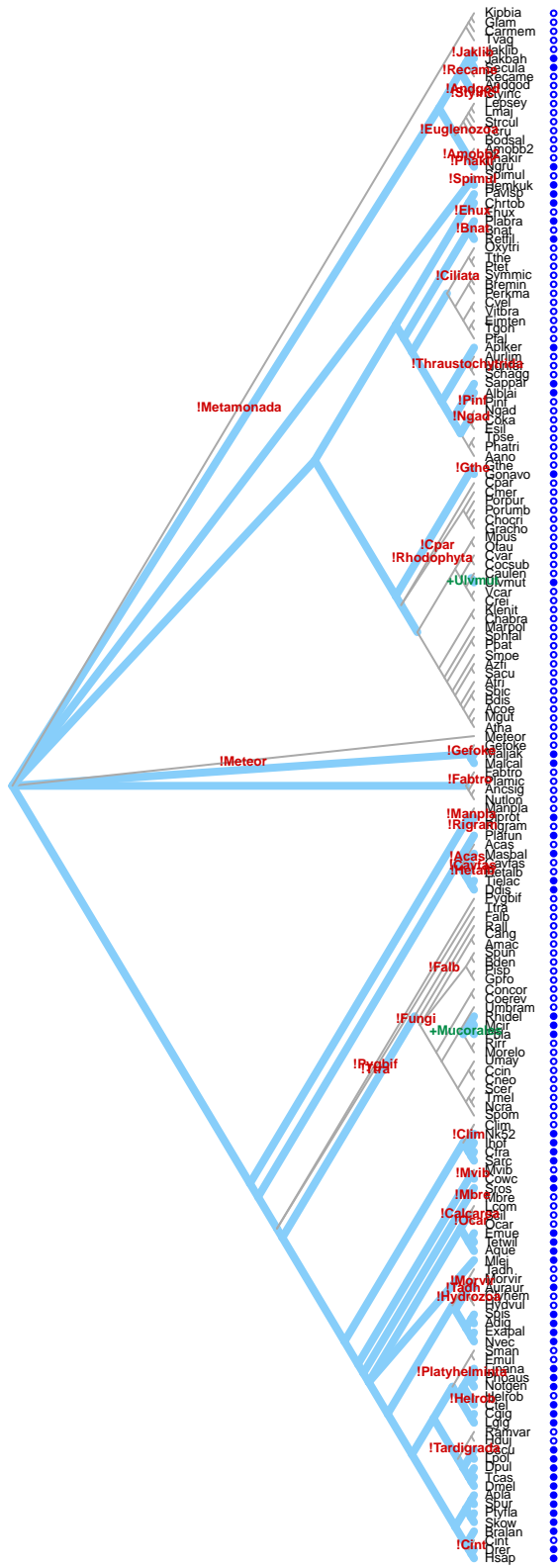
PTIP.HG1.24  
like:BRCA1/MCPH1/XRCC1



Gain: NA  
Presence Eukaryota prob = 1.00  
Present: 35  
Losses: NA

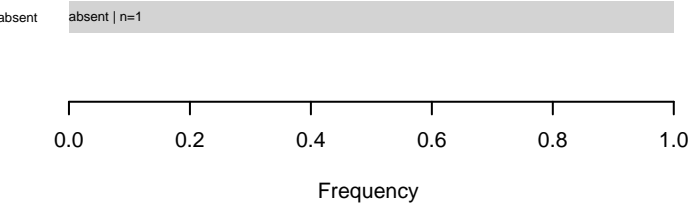
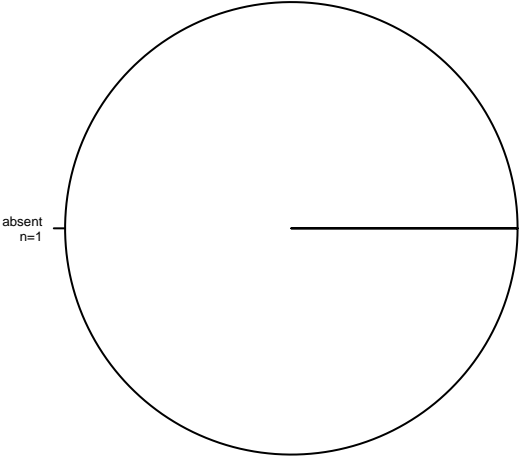
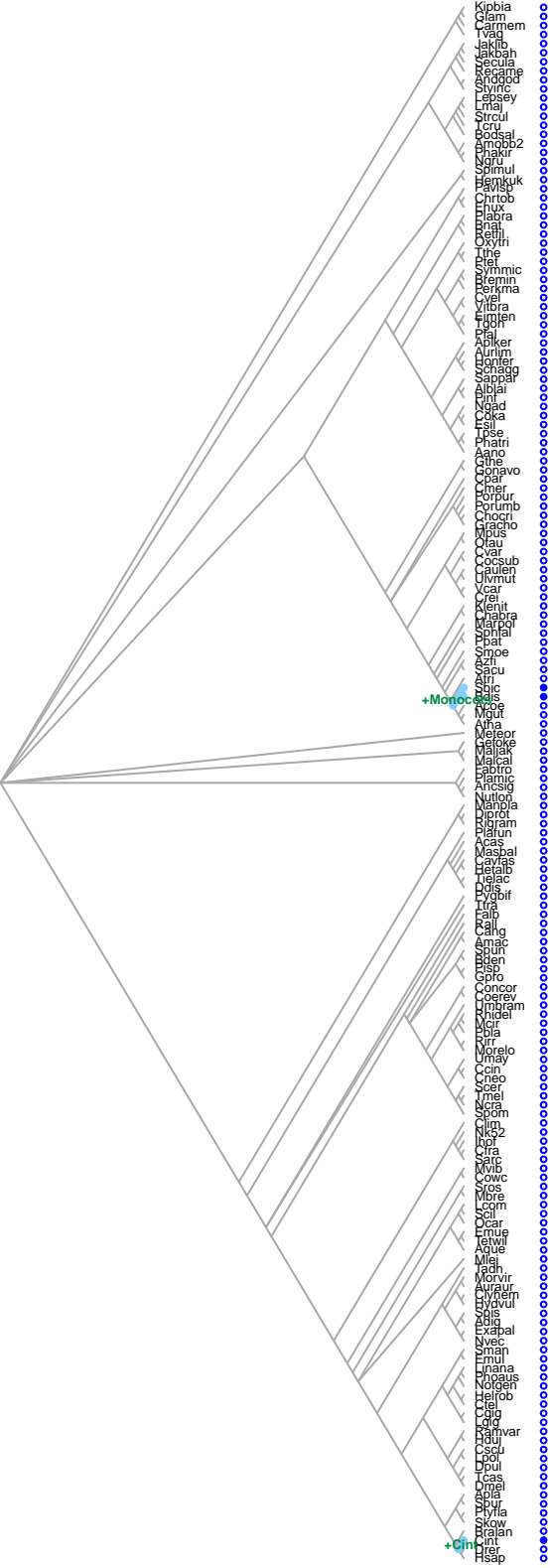


PTIP.HG1.25  
MCPH1

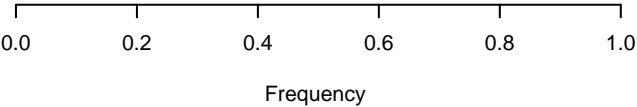
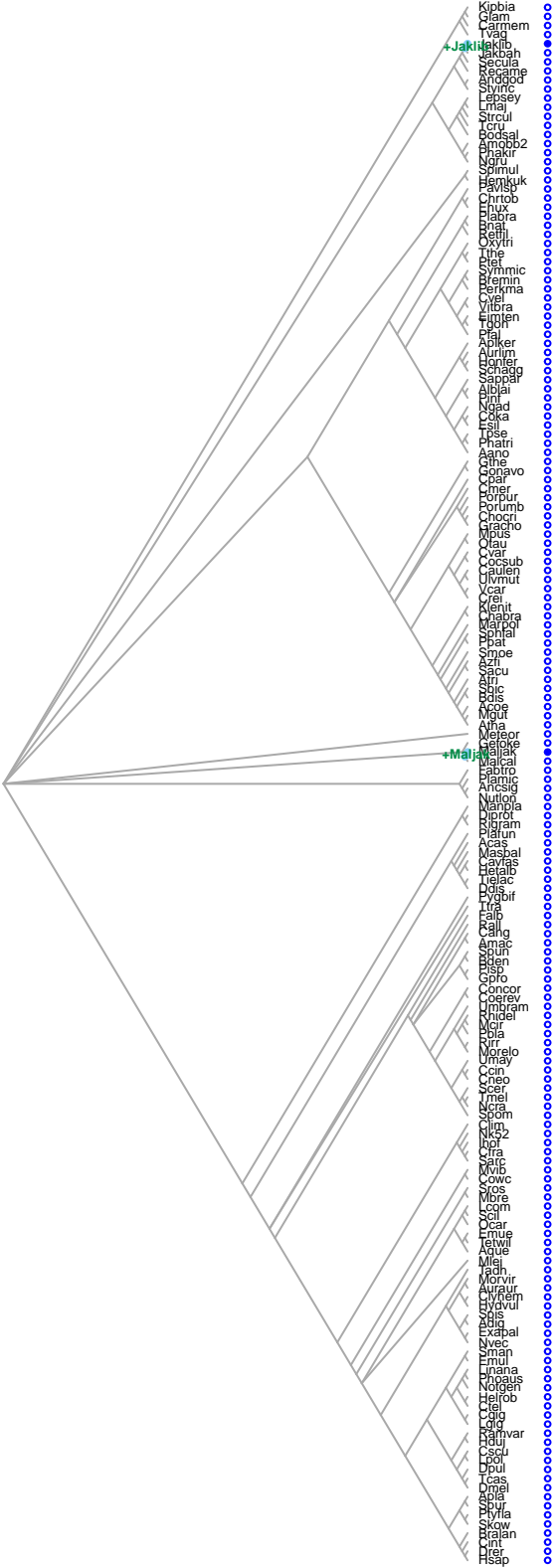


Gain: Mucorales,Ulvmut,NA  
Presence Eukaryota prob = 1.00  
Present: 56  
Losses: NA

0 5 10 15 20  
Frequency

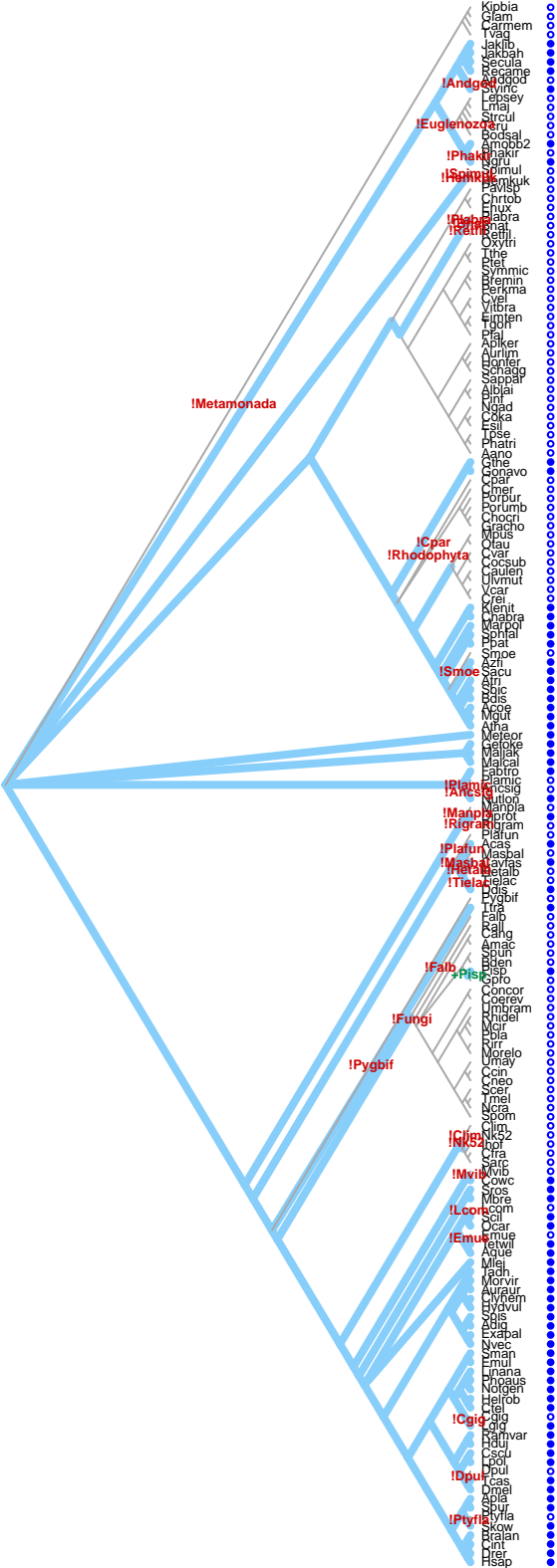


Gain: Cint,Monocots,NA  
Presence Eukaryota prob = 0.00  
Present: 3  
Losses: NA

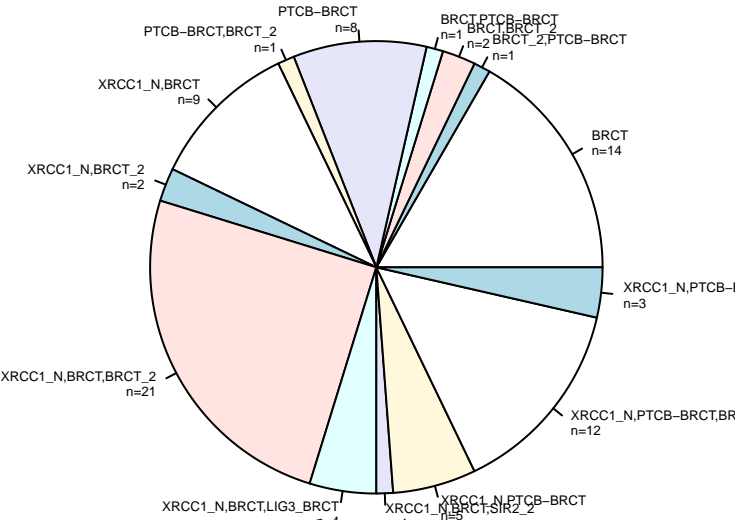


Gain: Maljak,Jaklib,NA  
Presence Eukaryota prob = 0.03  
Present: 2  
Losses: NA

PTIP.HG1.28  
XRCC1



Gain: Pisp,NA  
Presence Eukaryota prob = 1.00  
Present: 72  
Losses: NA

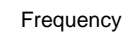


XRCC1_N,PTCB-BRCT,LIG3_BRCT	XRCC1_N,PTCB-BRCT,LIG3_BRCT   n=3
XRCC1_N,PTCB-BRCT,BRCT_2	XRCC1_N,PTCB-BRCT,BRCT_2   n=12
XRCC1_N,PTCB-BRCT	XRCC1_N,PTCB-BRCT   n=5
XRCC1_N,BRCT,SIR2_2	XRCC1_N,BRCT,SIR2_2   n=1
XRCC1_N,BRCT,LIG3_BRCT	XRCC1_N,BRCT,LIG3_BRCT   n=4
XRCC1_N,BRCT,BRCT_2	XRCC1_N,BRCT,BRCT_2   n=21
XRCC1_N,BRCT_2	XRCC1_N,BRCT_2   n=2
XRCC1_N,BRCT	XRCC1_N,BRCT   n=9
PTCB-BRCT,BRCT_2	PTCB-BRCT,BRCT_2   n=1
PTCB-BRCT	PTCB-BRCT   n=8
BRCT,PTCB-BRCT	BRCT,PTCB-BRCT   n=1
BRCT,BRCT_2	BRCT,BRCT_2   n=2
BRCT_2,PTCB-BRCT	BRCT_2,PTCB-BRCT   n=1
BRCT	BRCT   n=14

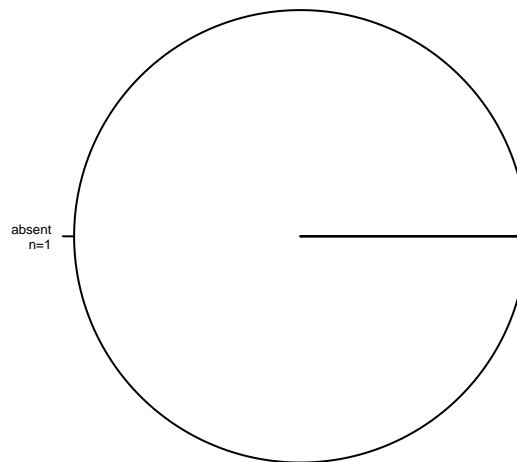
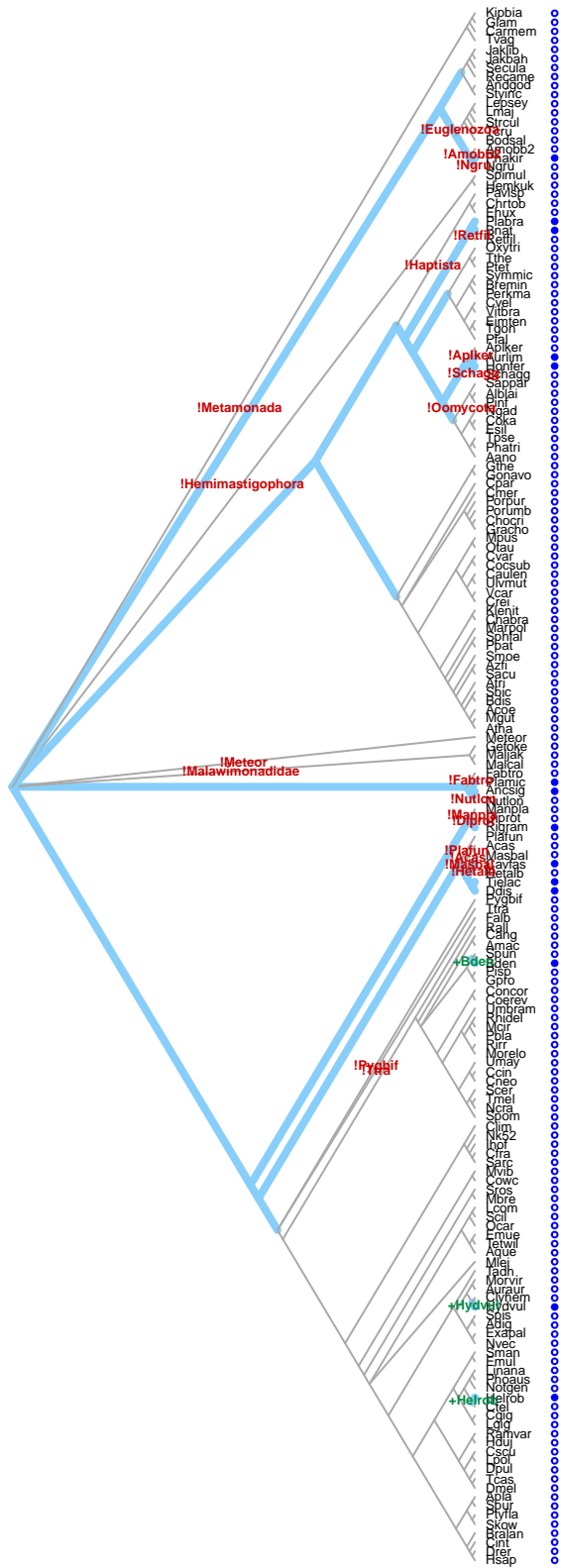
0 5 10 15 20  
Frequency

PTIP.HG1.29  
like:BRCA1

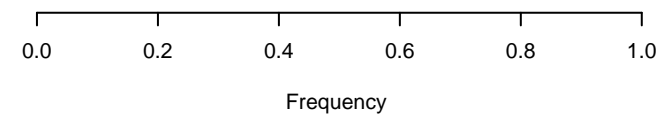
Losses: NA



PTIP.HG1.3  
like:BRCA1/ECT2/MCPH1/PAXIP1/XRCC1



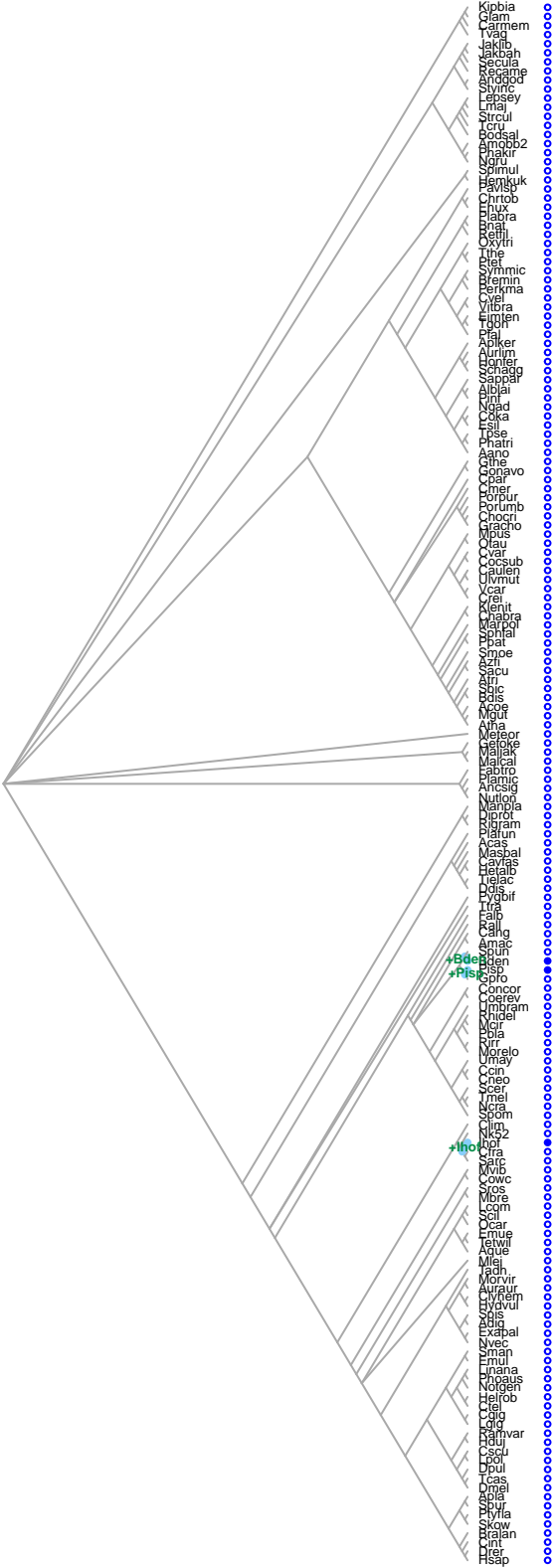
absent absent | n=1



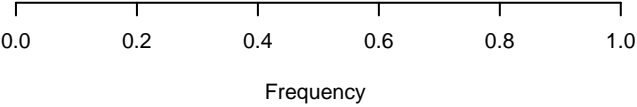
Gain: Helrob,Hydvul,Bden,NA  
Presence Eukaryota prob = 0.99  
Present: 14  
Losses: NA



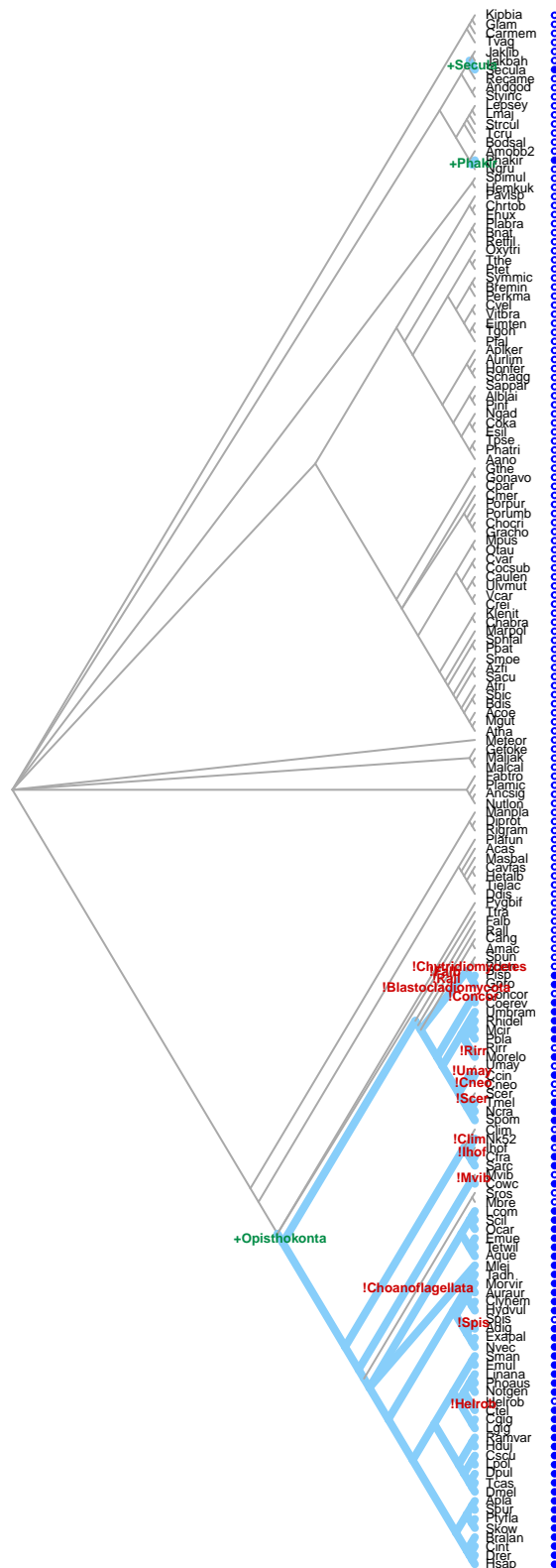
PTIP.HG1.30  
like:PAXIP1



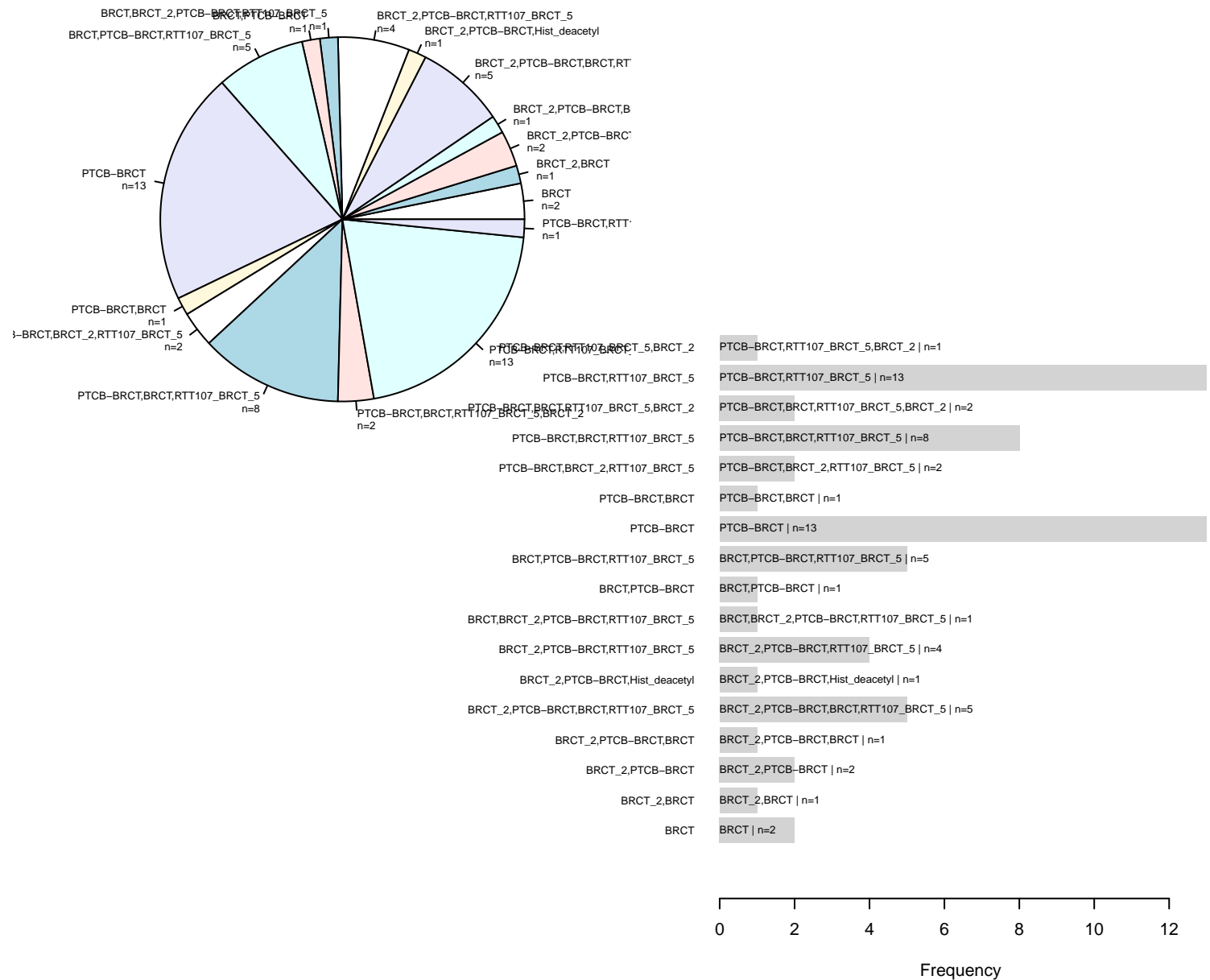
absent absent | n=1

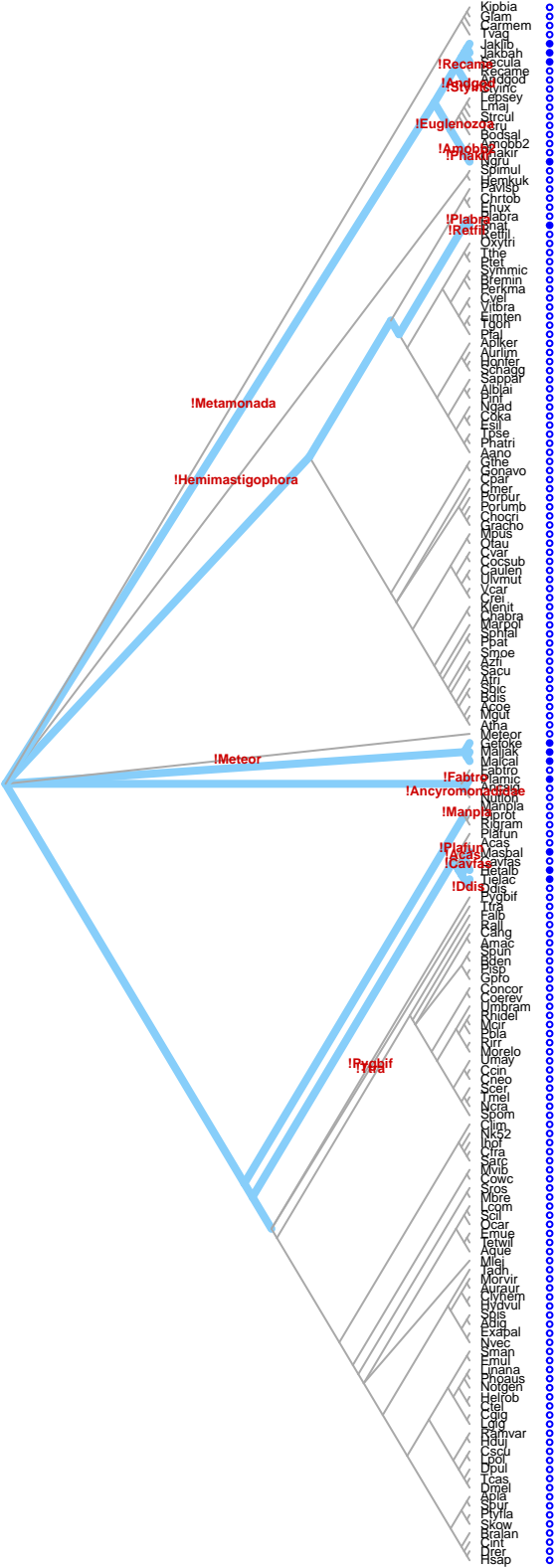


PTIP.HG1.31  
PAXIP1

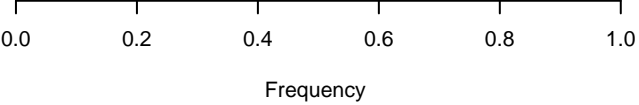


Gain: Opisthokonta,Phakir,Secula,NA  
Presence Eukaryota prob = 0.01  
Present: 56  
Losses: NA



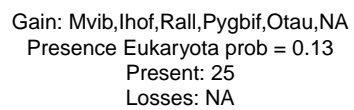
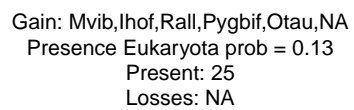


absent absent | n=1

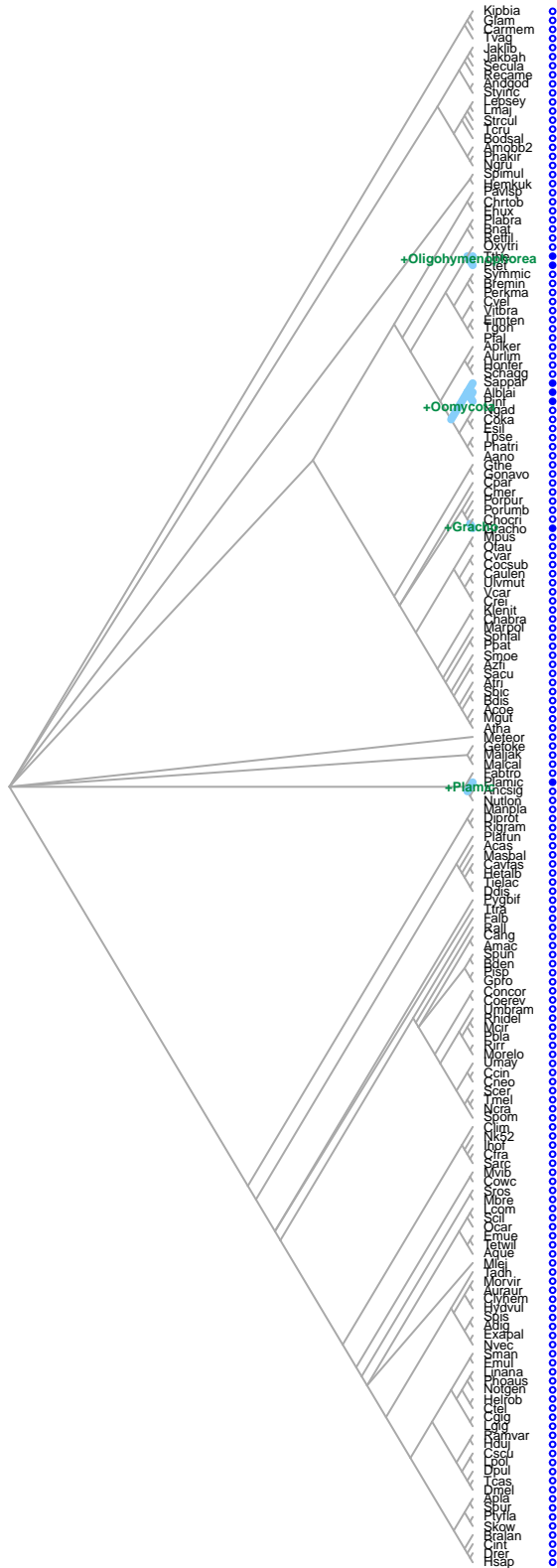


Gain: NA  
Presence Eukaryota prob = 0.99  
Present: 12  
Losses: NA

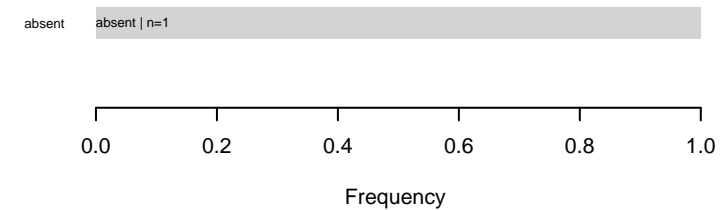
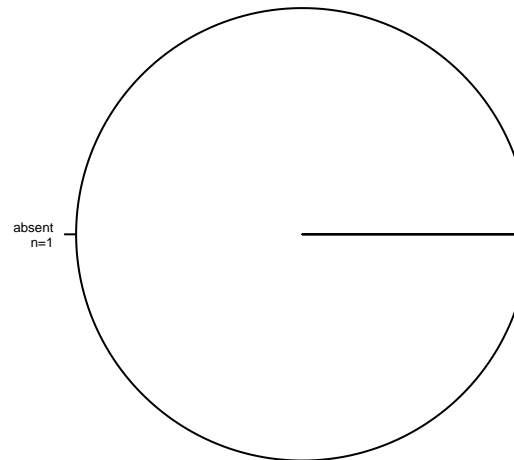
Gain: Mvib,Ihof,Rall,Pygbif,Otau,NA  
Presence Eukaryota prob = 0.13  
Present: 25  
Losses: NA

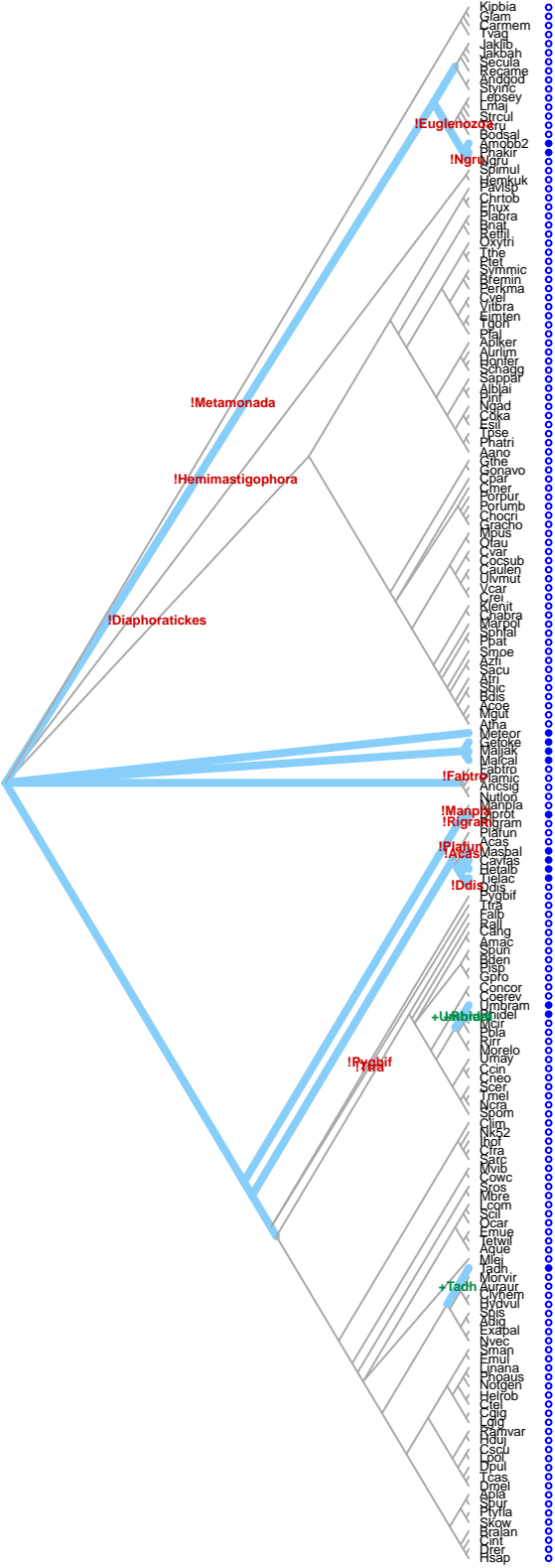


PTIP.HG1.34  
like:BRCA1

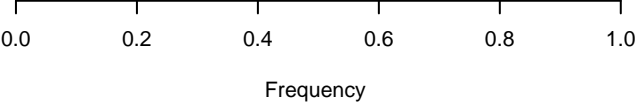


Gain: Plamic,Gracho,Oomycota,Oligohymenophorea,NA  
Presence Eukaryota prob = 0.01  
Present: 7  
Losses: NA



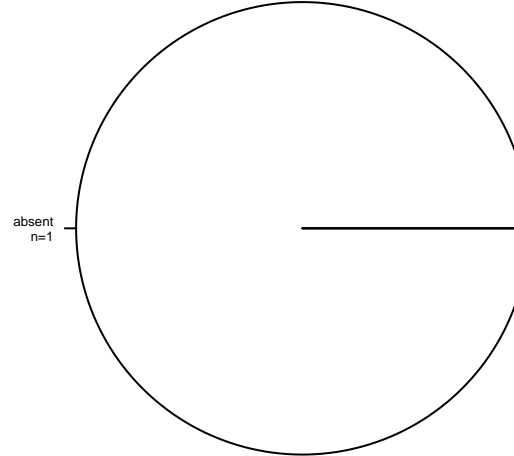
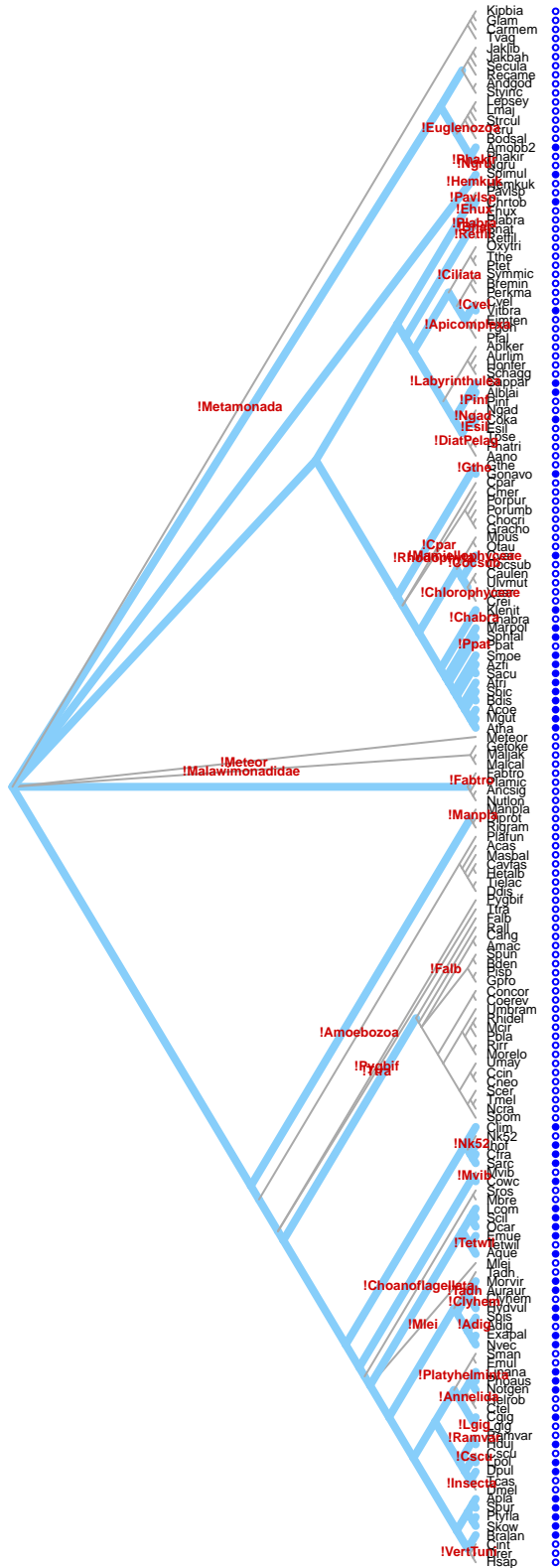


absent absent | n=1

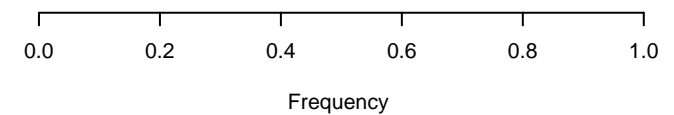


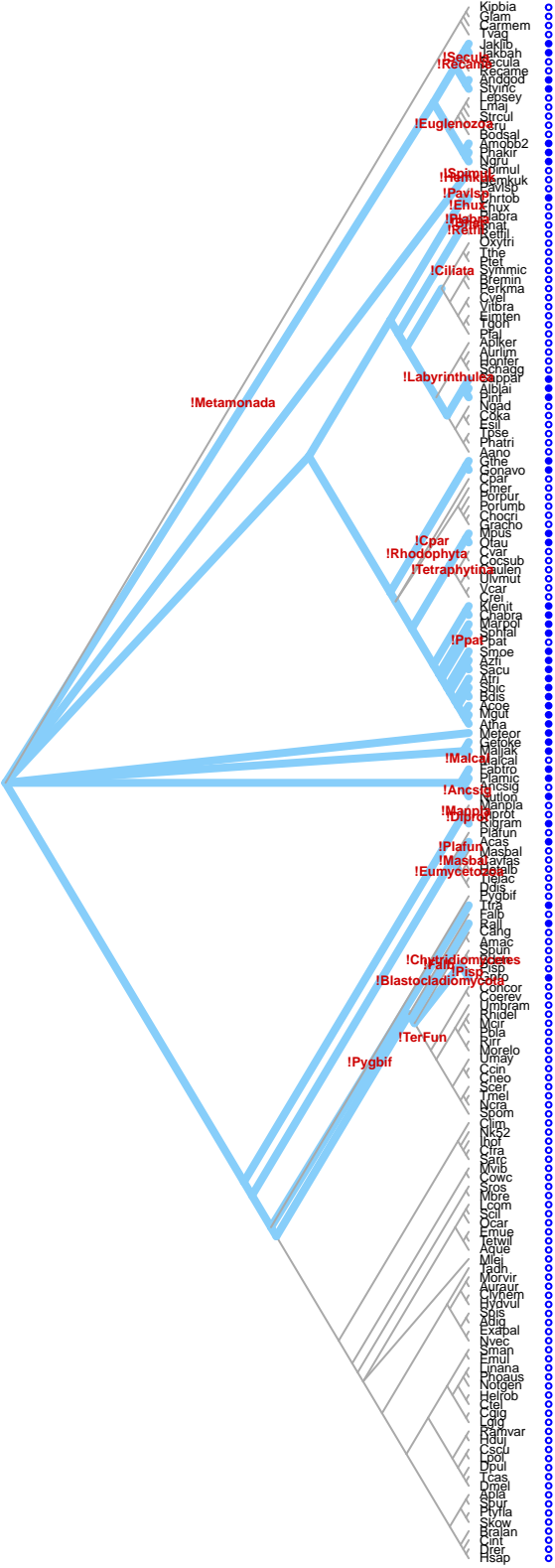
Gain: Tadh,Rhidel,Umbra,NA  
Presence Eukaryota prob = 1.00  
Present: 14  
Losses: NA

PTIP.HG1.36  
like:BRCA1

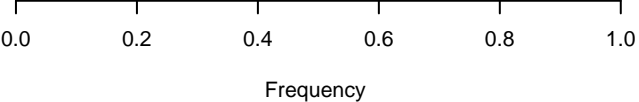


absent absent | n=1



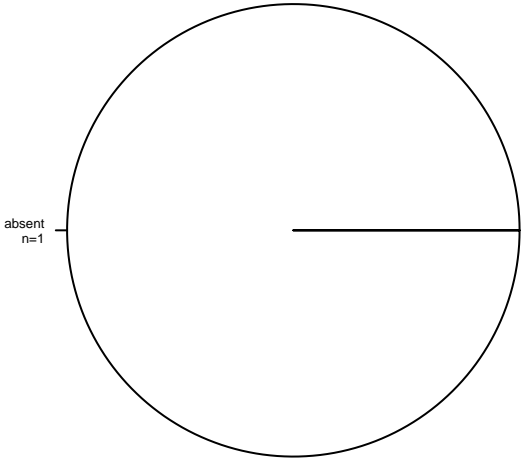
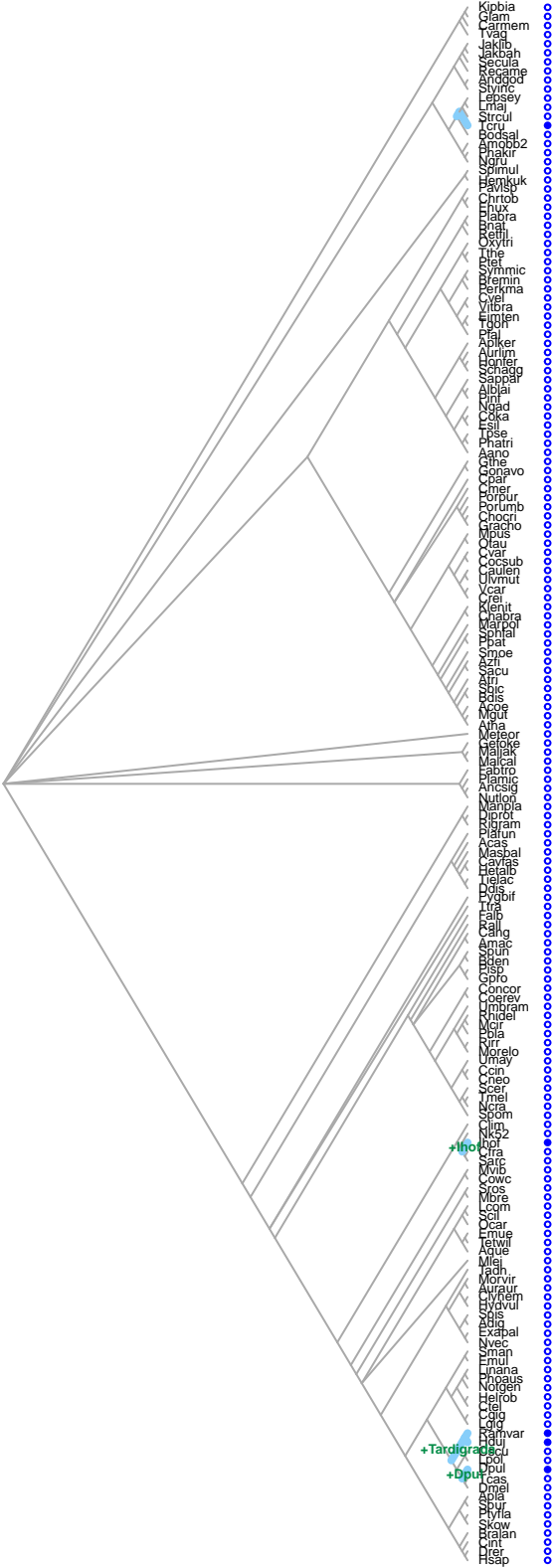


absent absent | n=1

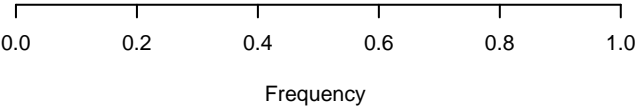


Gain: NA  
Presence Eukaryota prob = 1.00  
Present: 39  
Losses: NA

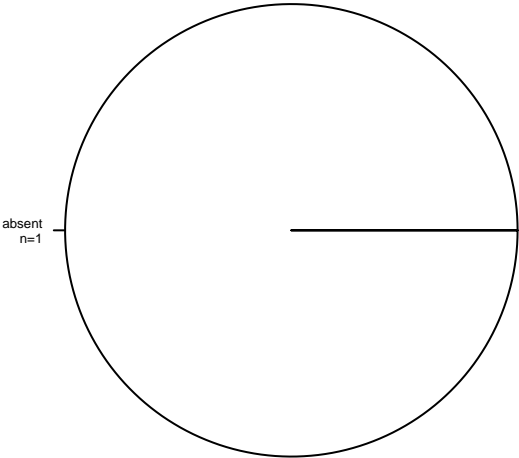
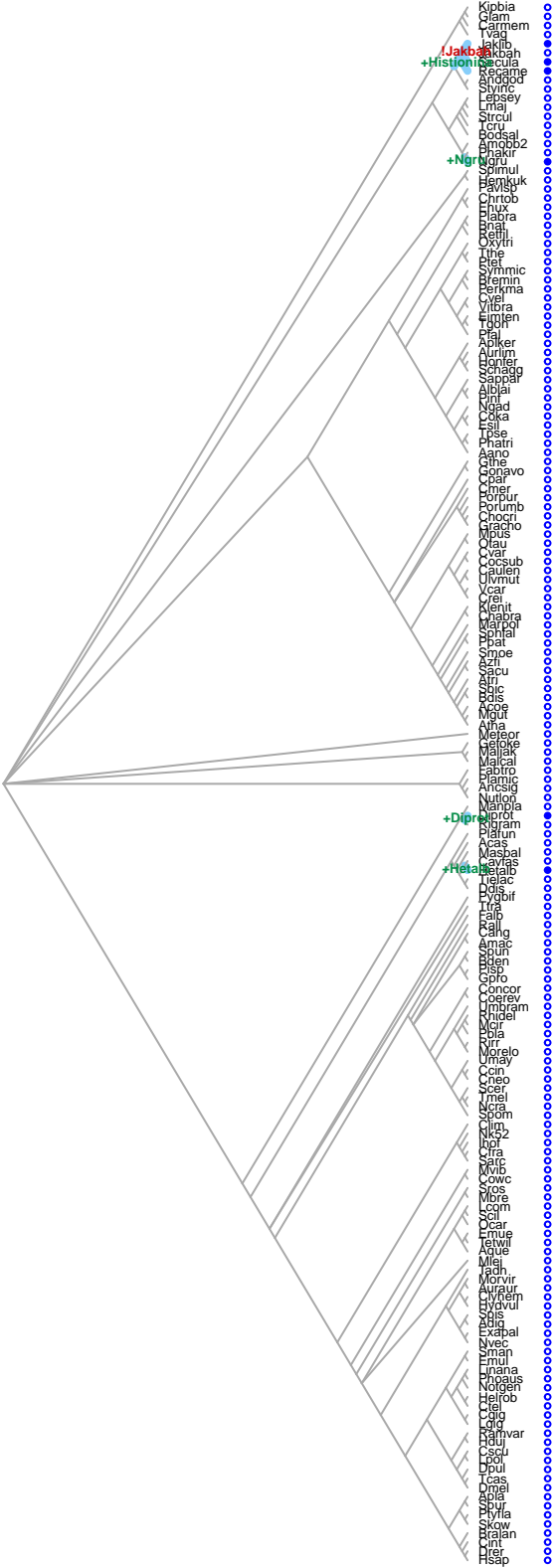




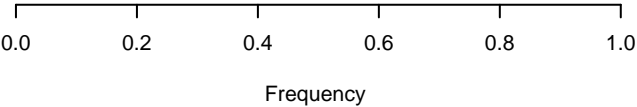
absent absent | n=1



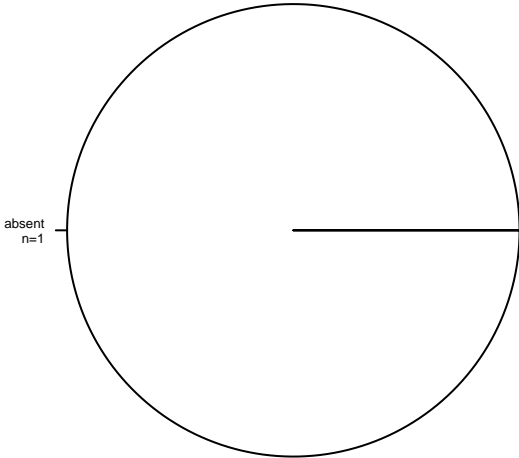
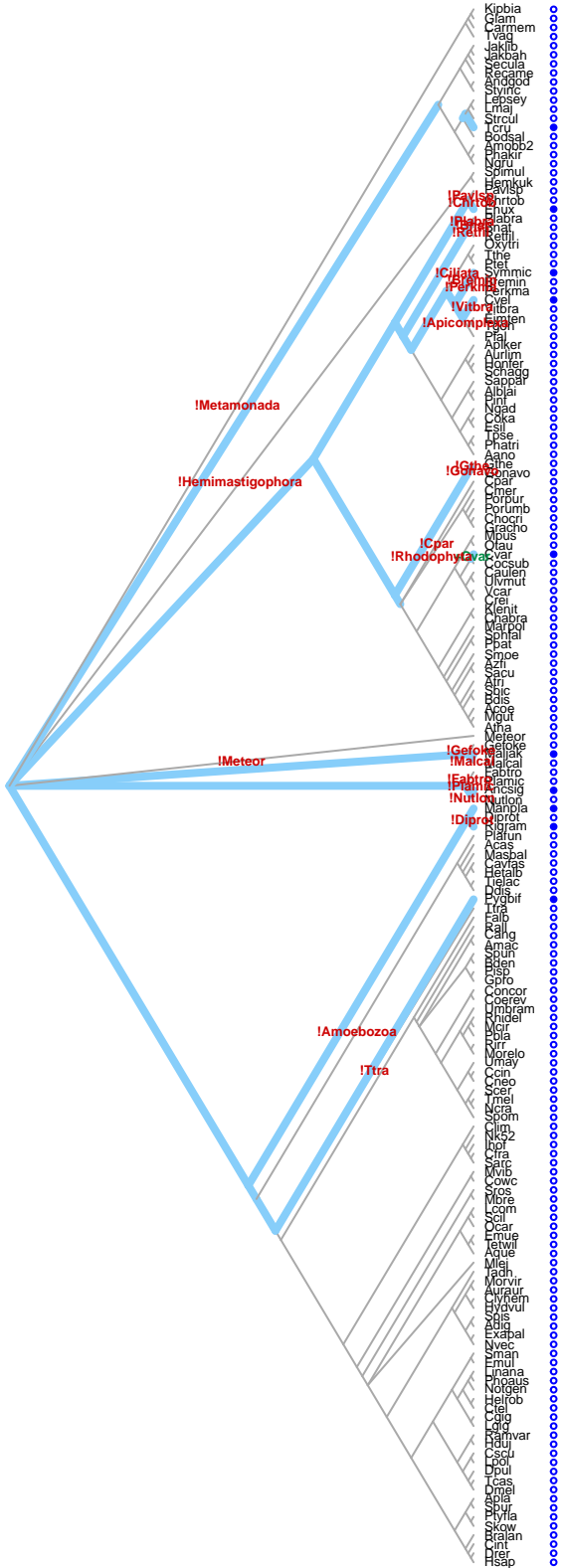
Gain: Dpul,Tardigrada,Ihof,NA  
Presence Eukaryota prob = 0.00  
Present: 5  
Losses: NA



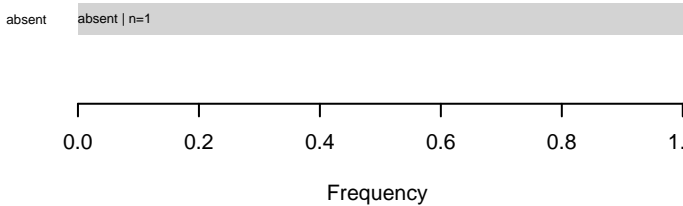
Gain: Hetalb,Diprot,Ngru,Histonina,NA  
Presence Eukaryota prob = 0.29  
Present: 6  
Losses: NA

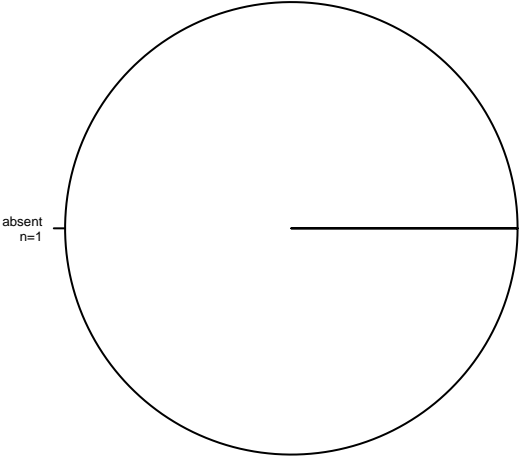
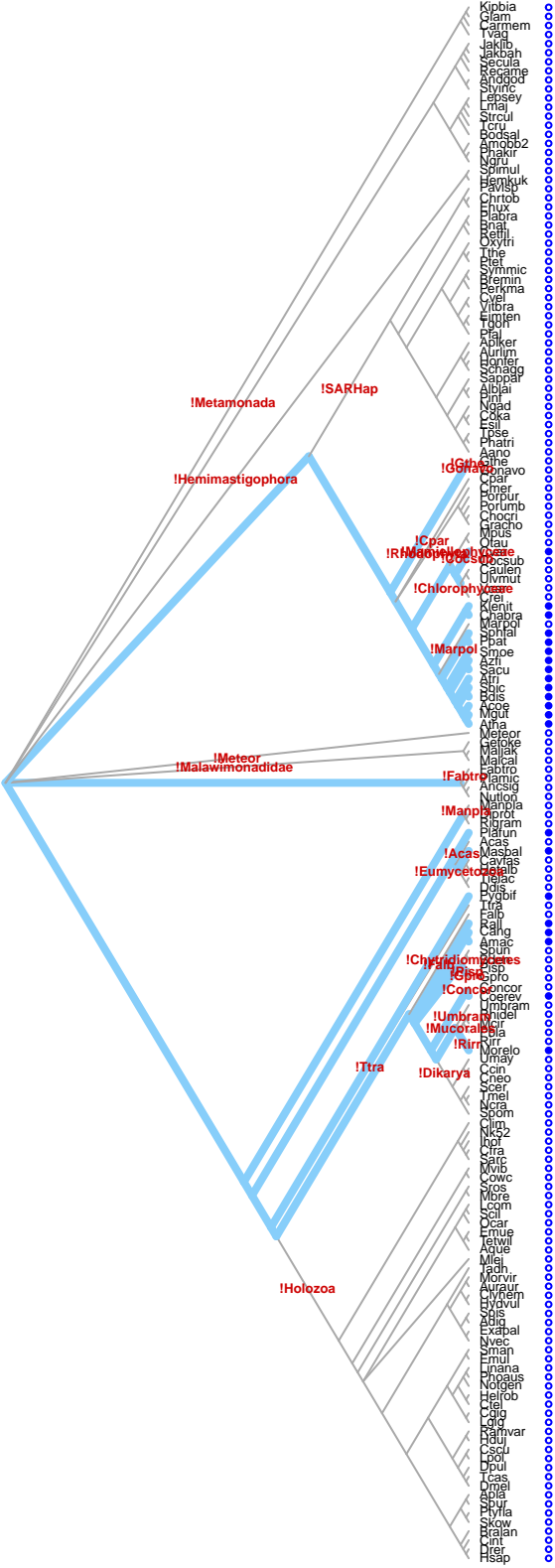


PTIP.HG1.7  
like:BRCA1/ECT2/MCPH1/PAXIP1/XRCC1



Gain: Cvar,NA  
Presence Eukaryota prob = 1.00  
Present: 10  
Losses: NA





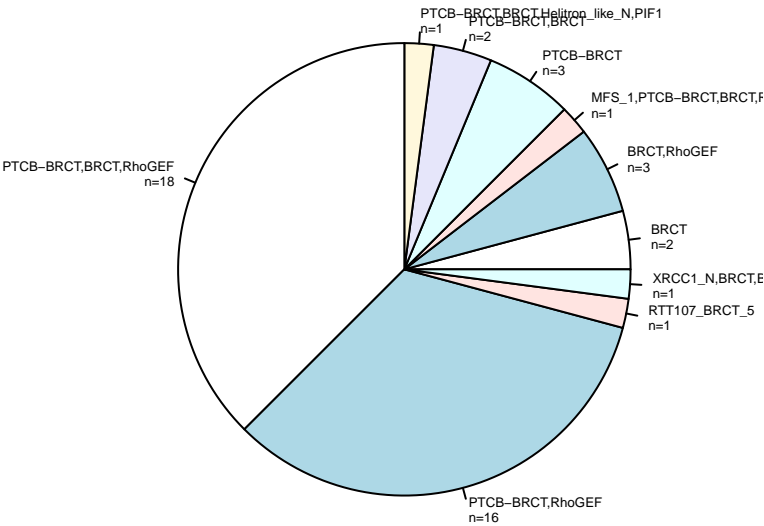
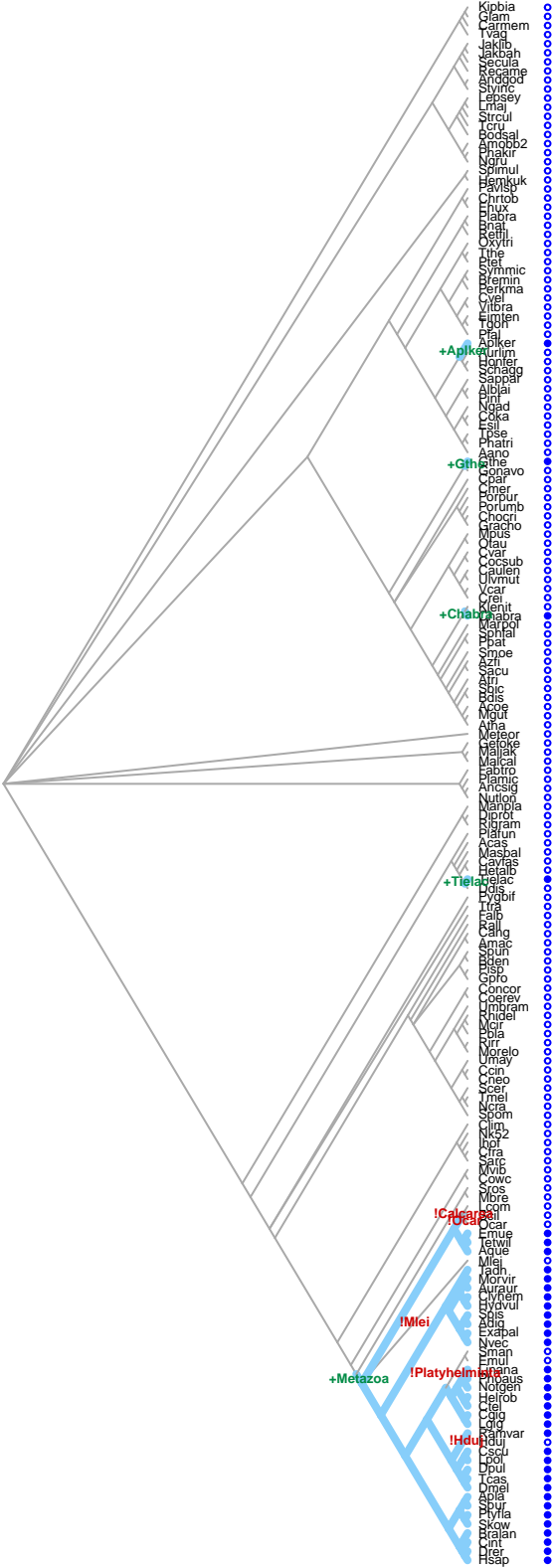
absent absent | n=1



Gain: NA  
Presence Eukaryota prob = 0.88  
Present: 22  
Losses: NA

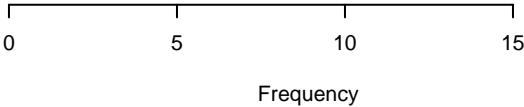
Frequency

PTIP.HG1.9  
ECT2

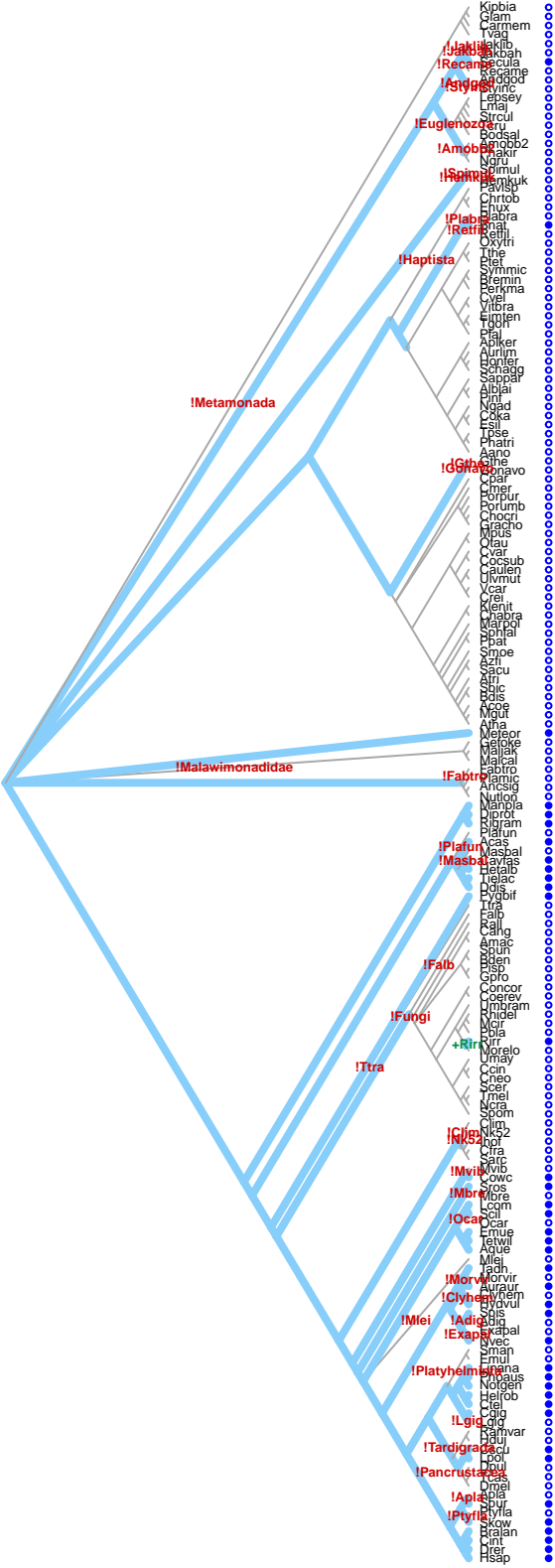


XRCC1_N, BRCT, BRCT_2	XRCC1_N, BRCT, BRCT_2   n=1
RTT107_BRCT_5	RTT107_BRCT_5   n=1
PTCB-BRCT, RhoGEF	PTCB-BRCT, RhoGEF   n=16
PTCB-BRCT, BRCT, RhoGEF	PTCB-BRCT, BRCT, RhoGEF   n=18
PTCB-BRCT, BRCT, Helitron_like_N, PIF1	PTCB-BRCT, BRCT, Helitron_like_N, PIF1   n=1
PTCB-BRCT, BRCT	PTCB-BRCT, BRCT   n=2
PTCB-BRCT	PTCB-BRCT   n=3
MFS_1, PTCB-BRCT, BRCT, RhoGEF	MFS_1, PTCB-BRCT, BRCT, RhoGEF   n=1
BRCT, RhoGEF	BRCT, RhoGEF   n=3
BRCT	BRCT   n=2

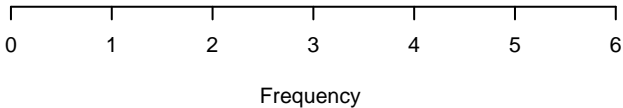
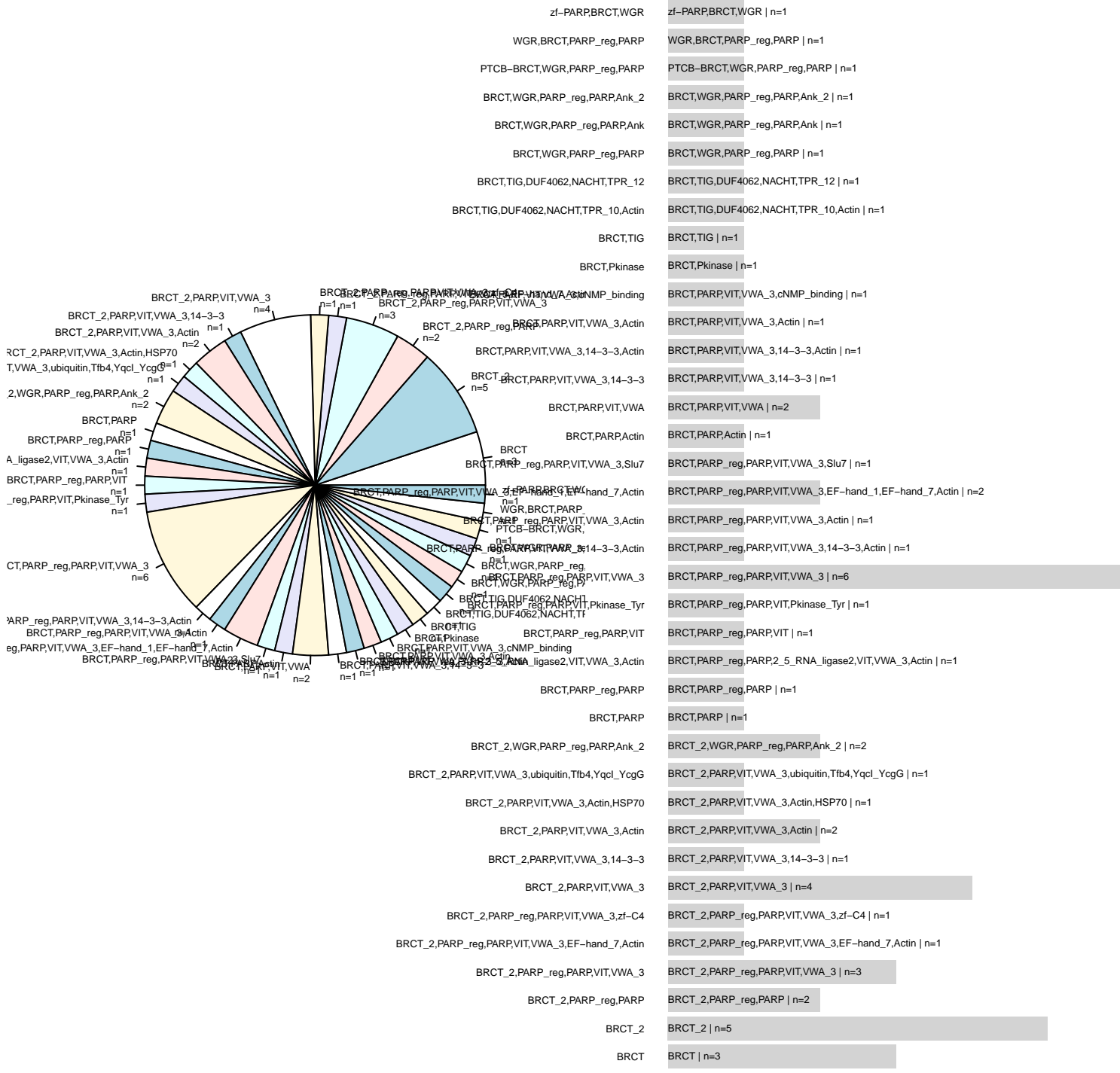
Gain: Metazoa, Tielac, Chabra, Gthe, Aplker, NA  
Presence Eukaryota prob = 0.04  
Present: 37  
Losses: NA

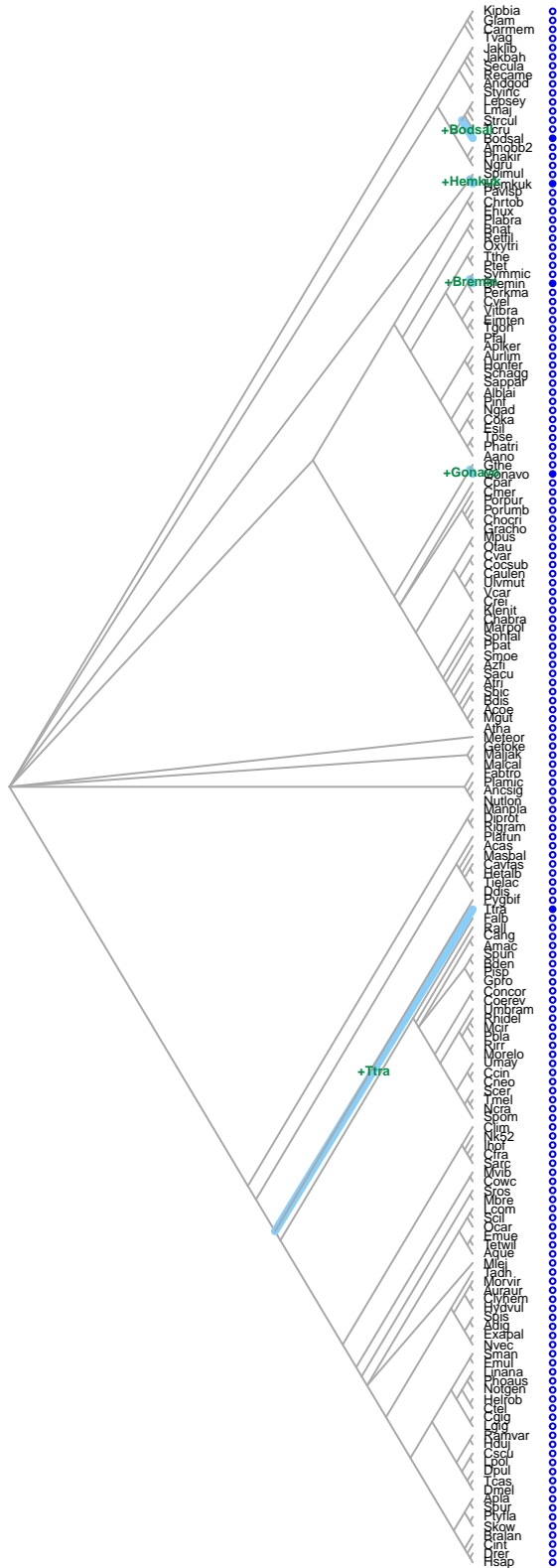


PTIP.HG2.0  
PARP4

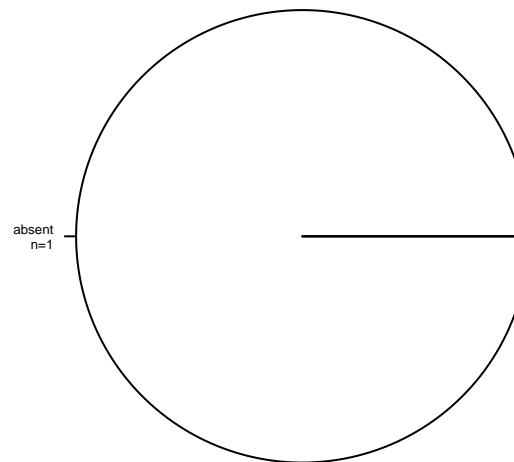


Gain: Rirr,NA  
Presence Eukaryota prob = 1.00  
Present: 39  
Losses: NA

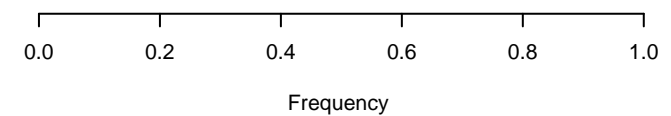


PTIP.HG2.1  
like:PARP1

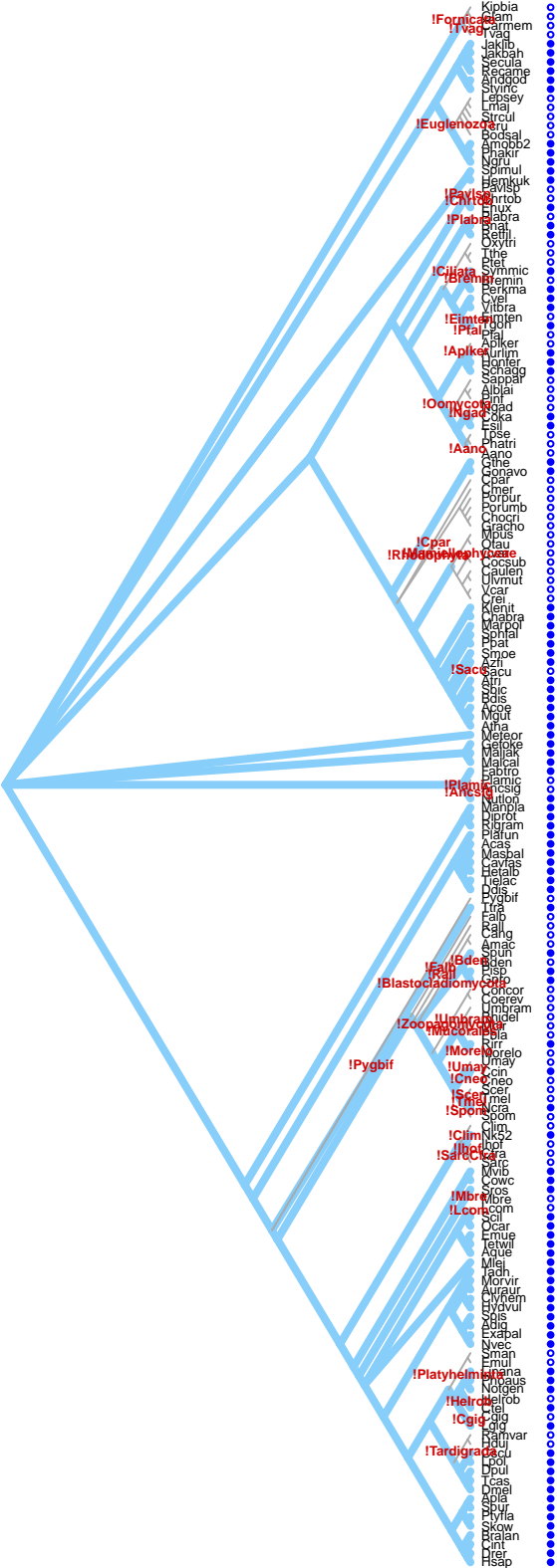
Gain: Ttra,Gonavo,Bremin,Hemkuk,Bodsal,NA  
Presence Eukaryota prob = 0.02  
Present: 5  
Losses: NA



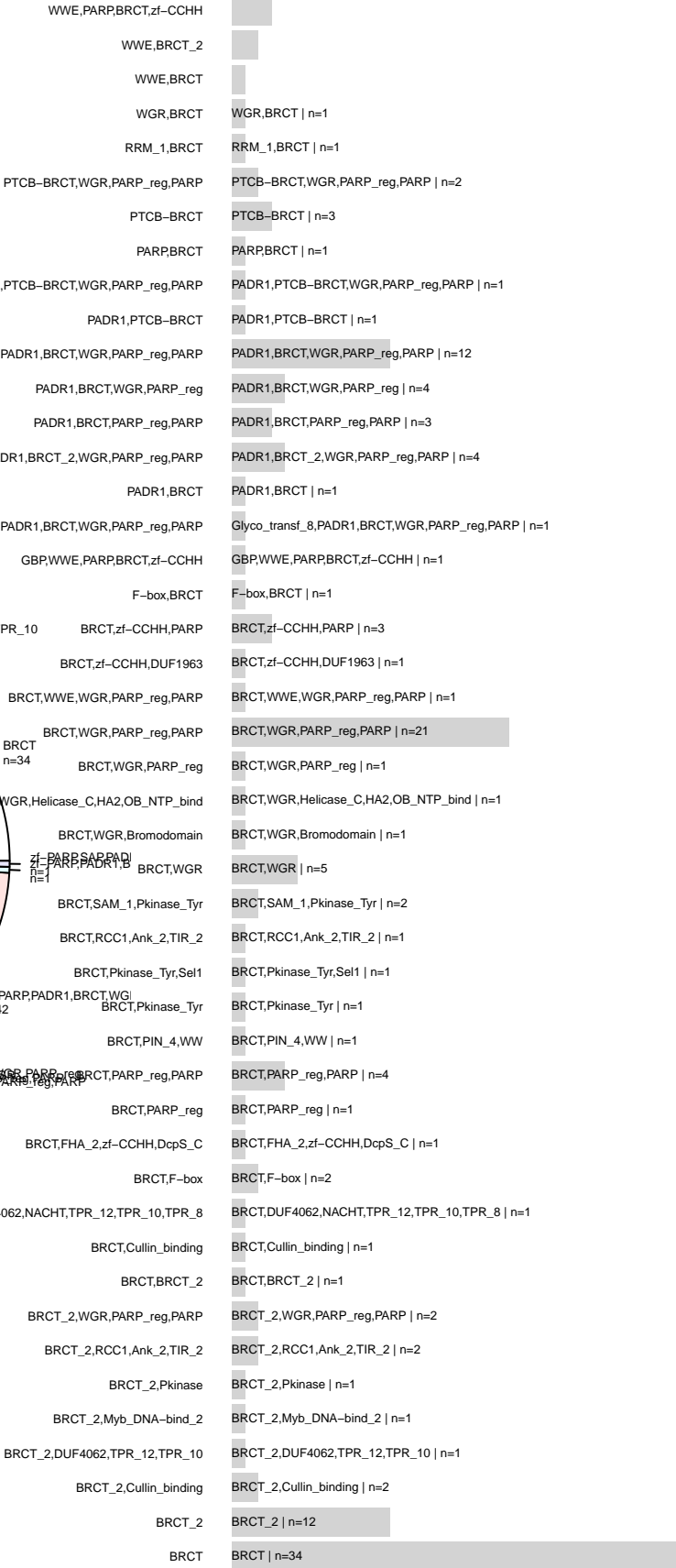
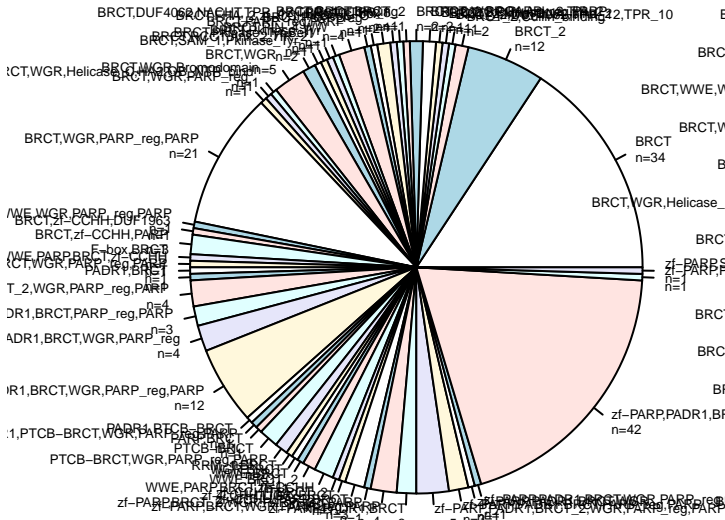
absent absent | n=1



PTIP.HG2.2  
PARP1



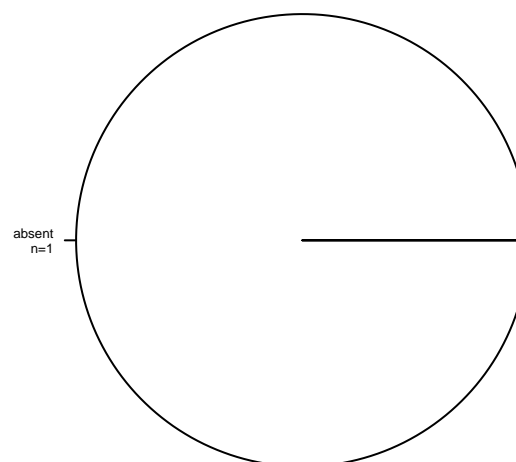
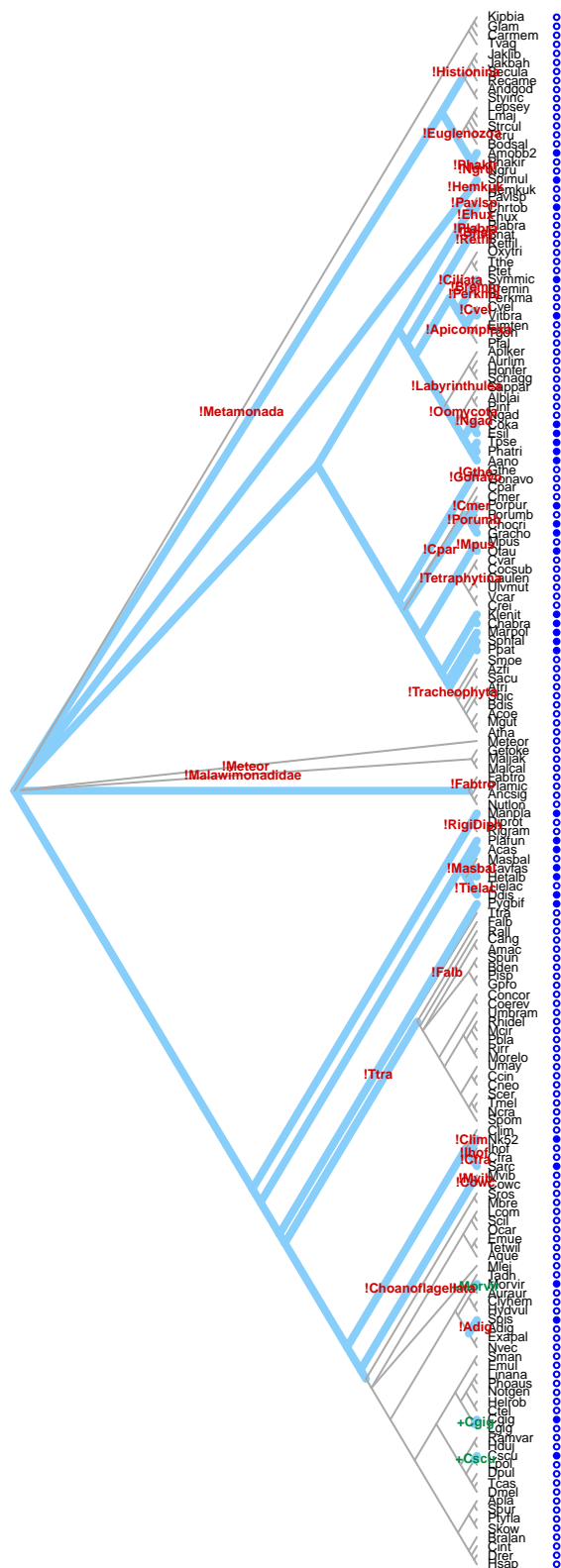
Gain: NA  
Presence Eukaryota prob = 1.00  
Present: 99  
Losses: NA



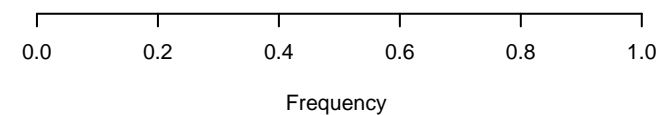
0 10 20 30 40  
Frequency



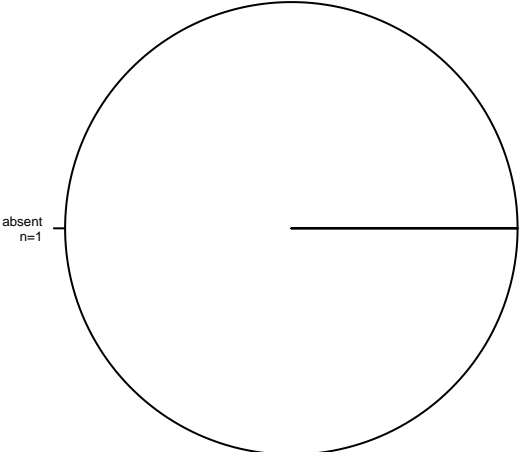
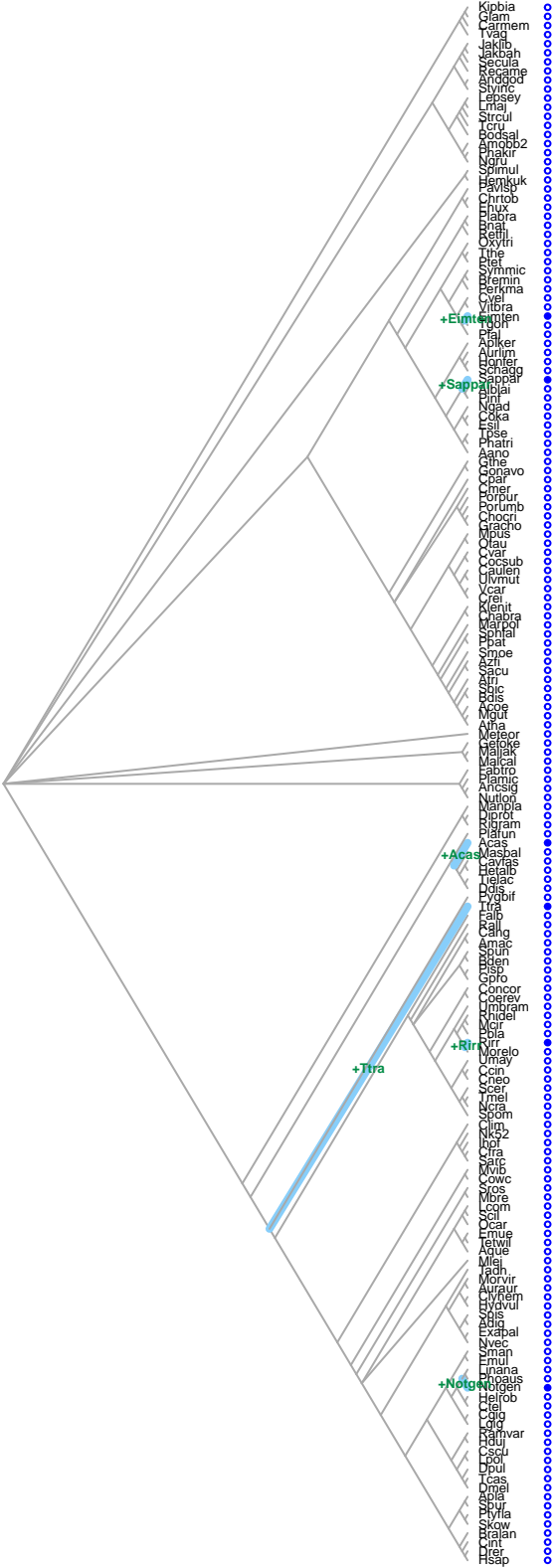
PTIP.HG3.0  
like:RFC1



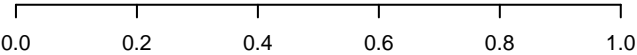
absent absent | n=1



Gain: Cscu,Cgig,Morvir,NA  
Presence Eukaryota prob = 1.00  
Present: 32  
Losses: NA

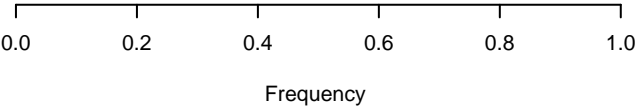
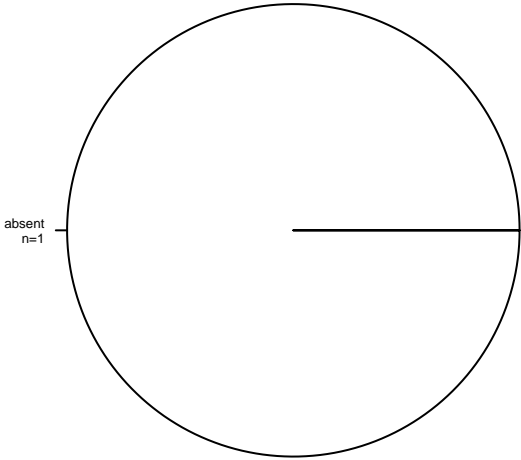
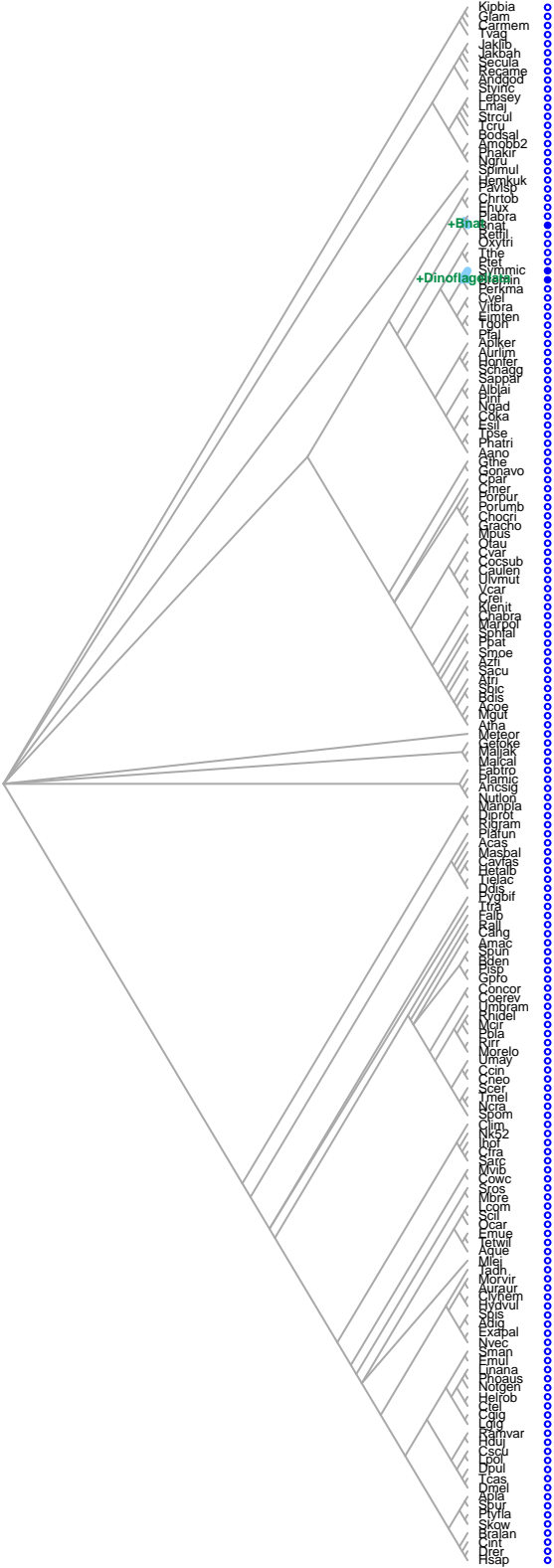


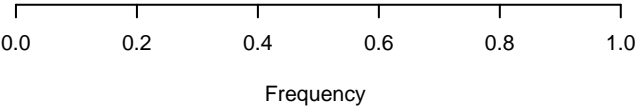
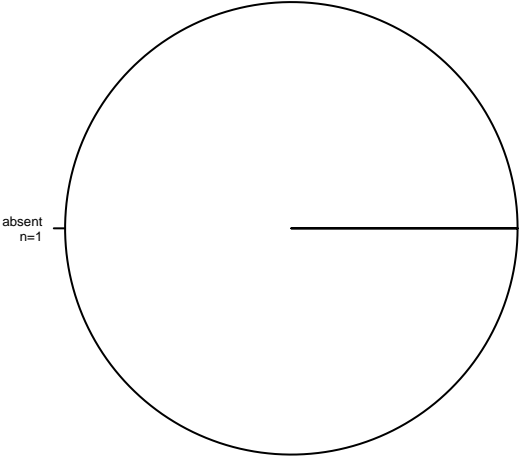
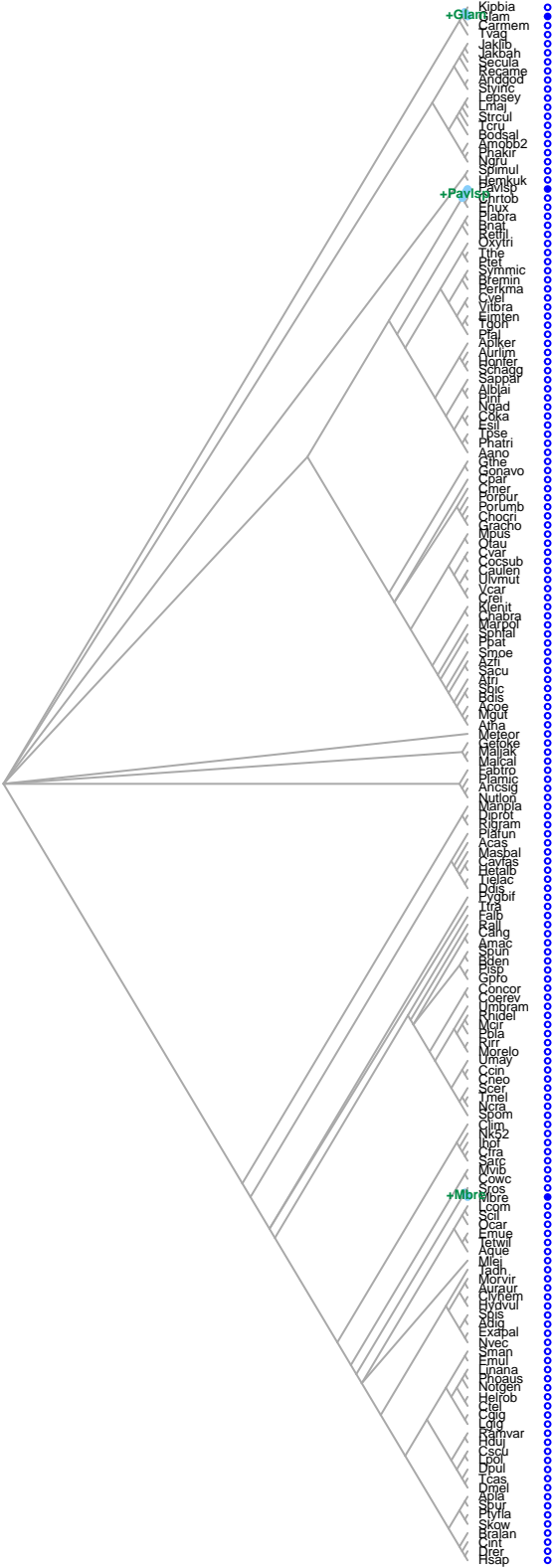
absent absent | n=1



Frequency

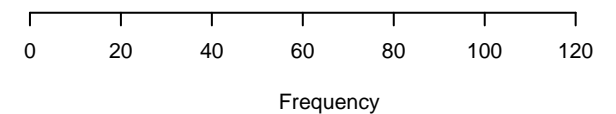
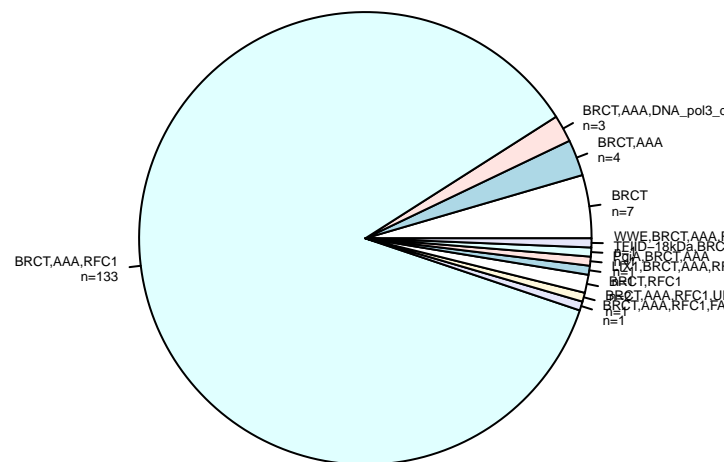
Gain: Notgen,Rirr,Ttra,Acas,Sappar,Eimten,NA  
Presence Eukaryota prob = 0.02  
Present: 6  
Losses: NA



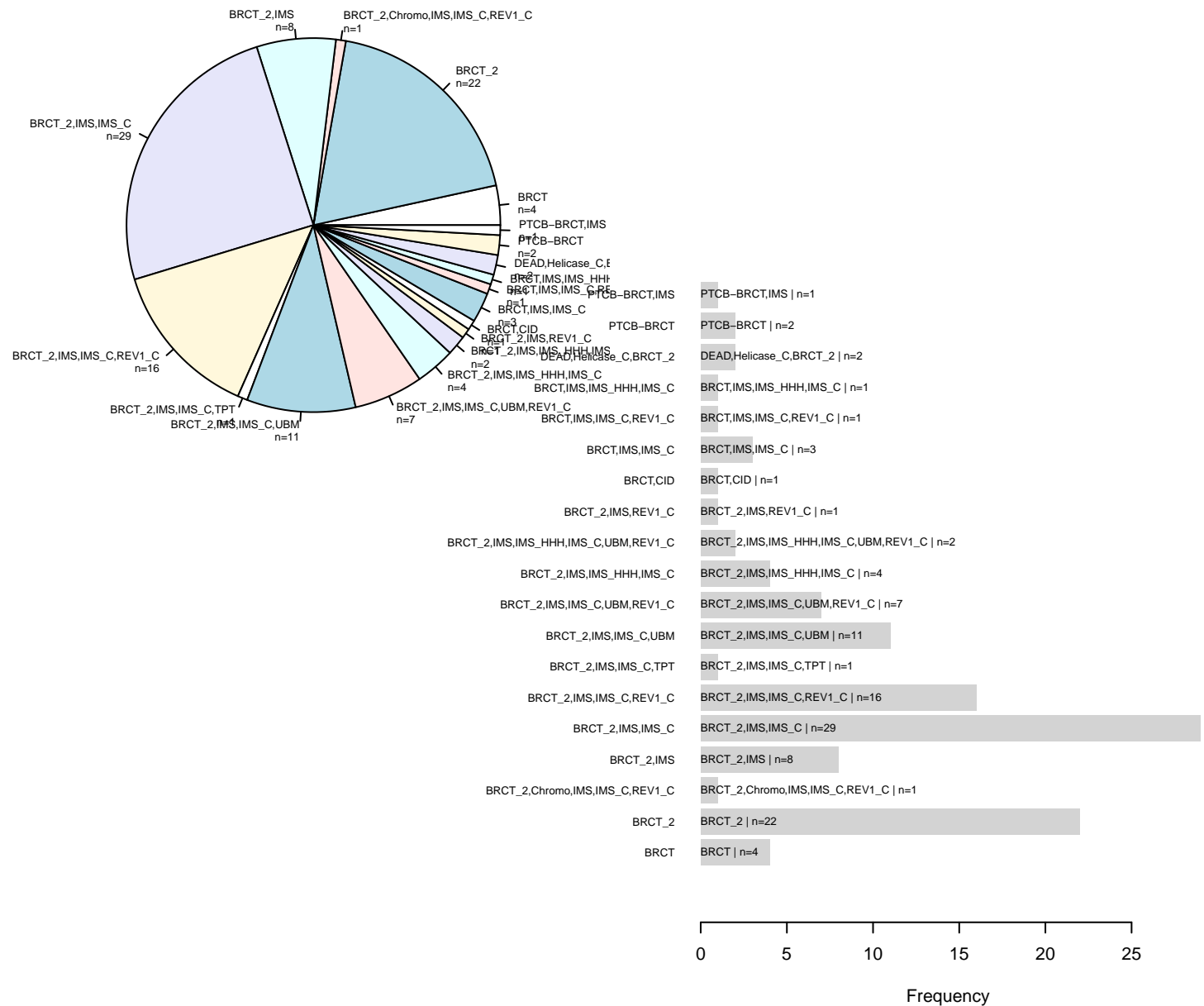


Gain: Mbre,Pavsp,Glam,NA  
Presence Eukaryota prob = 0.00  
Present: 3  
Losses: NA

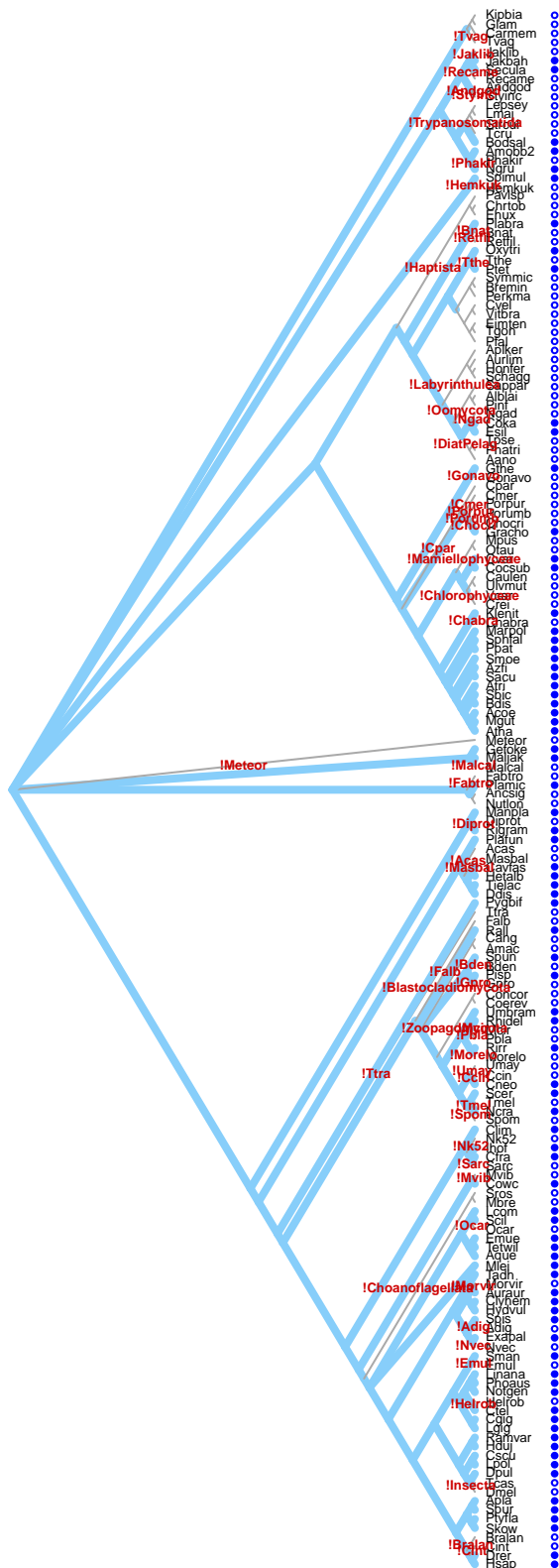
Gain: NA  
Presence Eukaryota prob = 1.00  
Present: 133  
Losses: NA



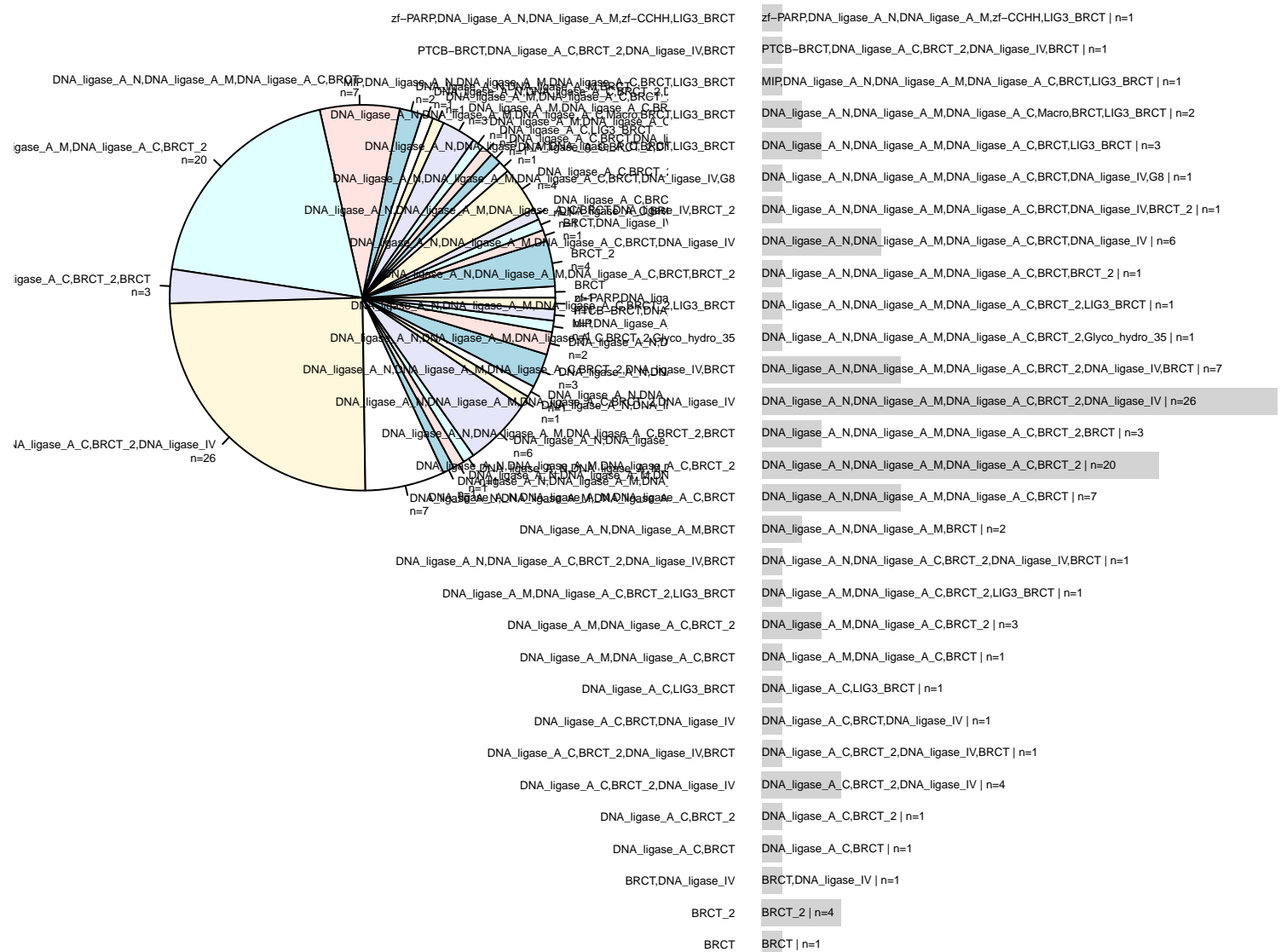
Gain: Glam,NA  
Presence Eukaryota prob = 1.00  
Present: 101  
Losses: NA



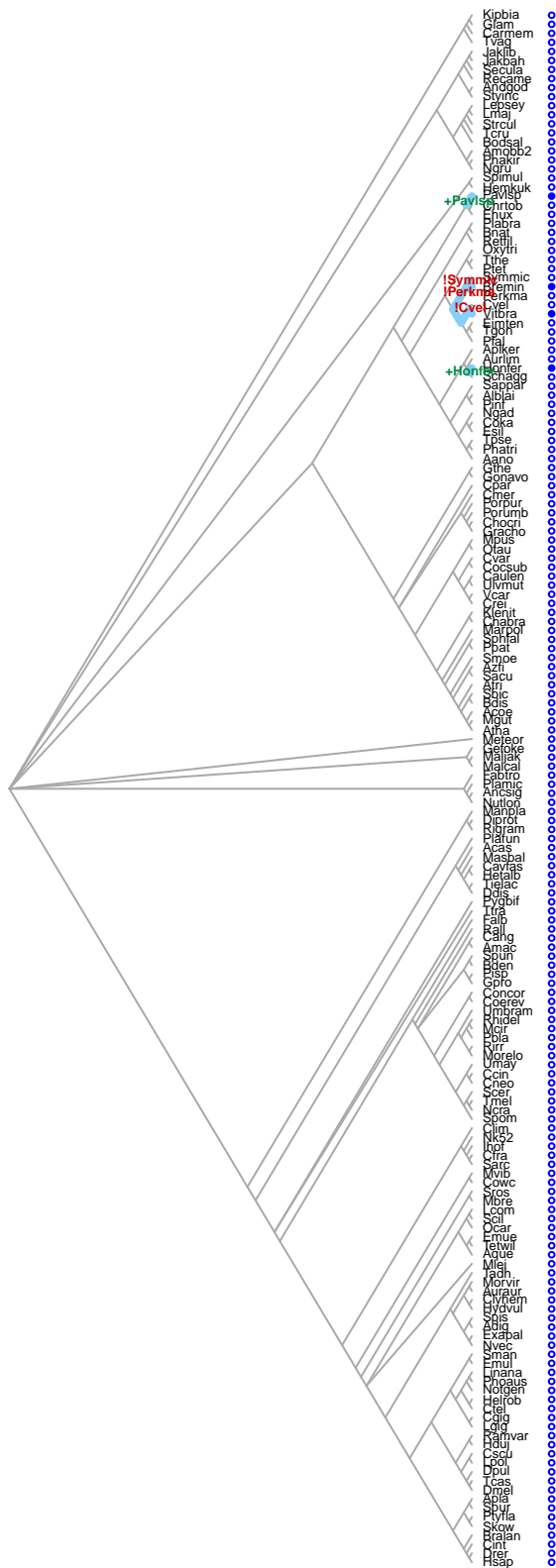
PTIP.HG5.0  
LIG4



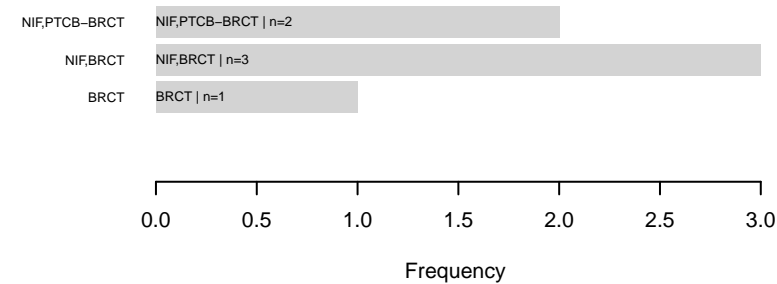
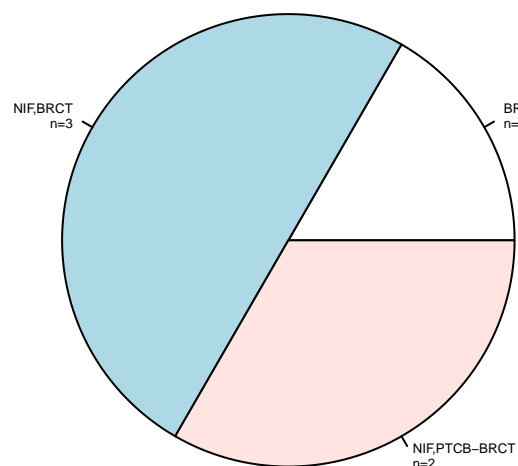
Gain: NA  
Presence Eukaryota prob = 1.00  
Present: 82  
Losses: NA



A horizontal axis labeled "Frequency" with tick marks at 0, 5, 10, 15, 20, and 25.

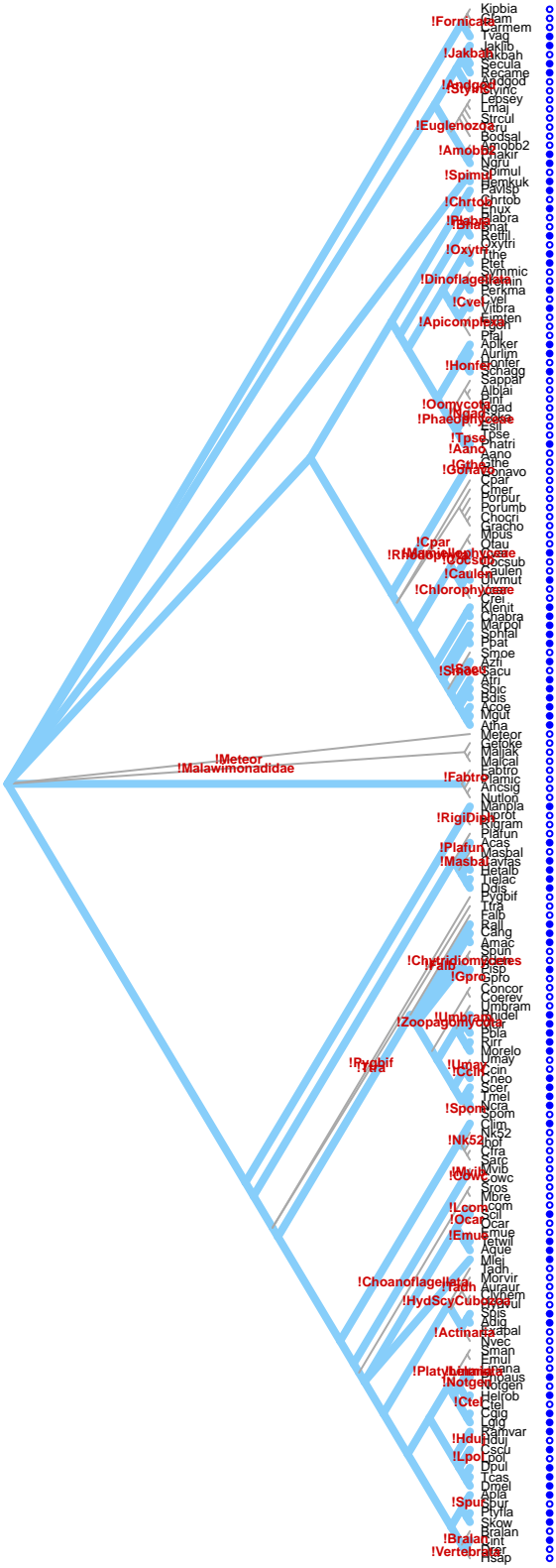
PTIP.HG6.0  
NA

Gain: Honfer,Pavls,NA  
Presence Eukaryota prob = 0.03  
Present: 4  
Losses: NA

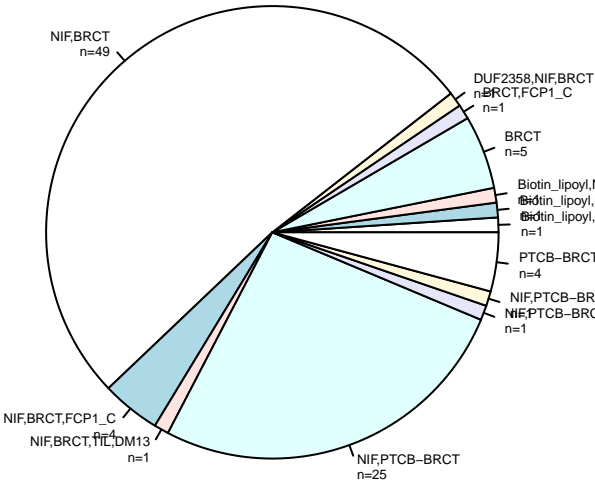




PTIP.HG6.1  
NA



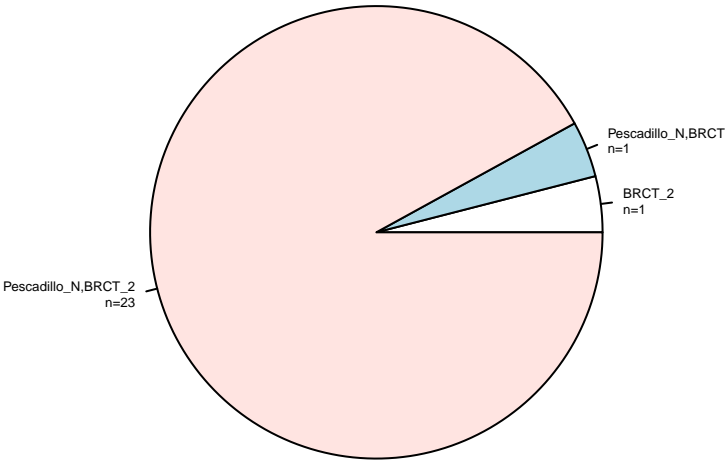
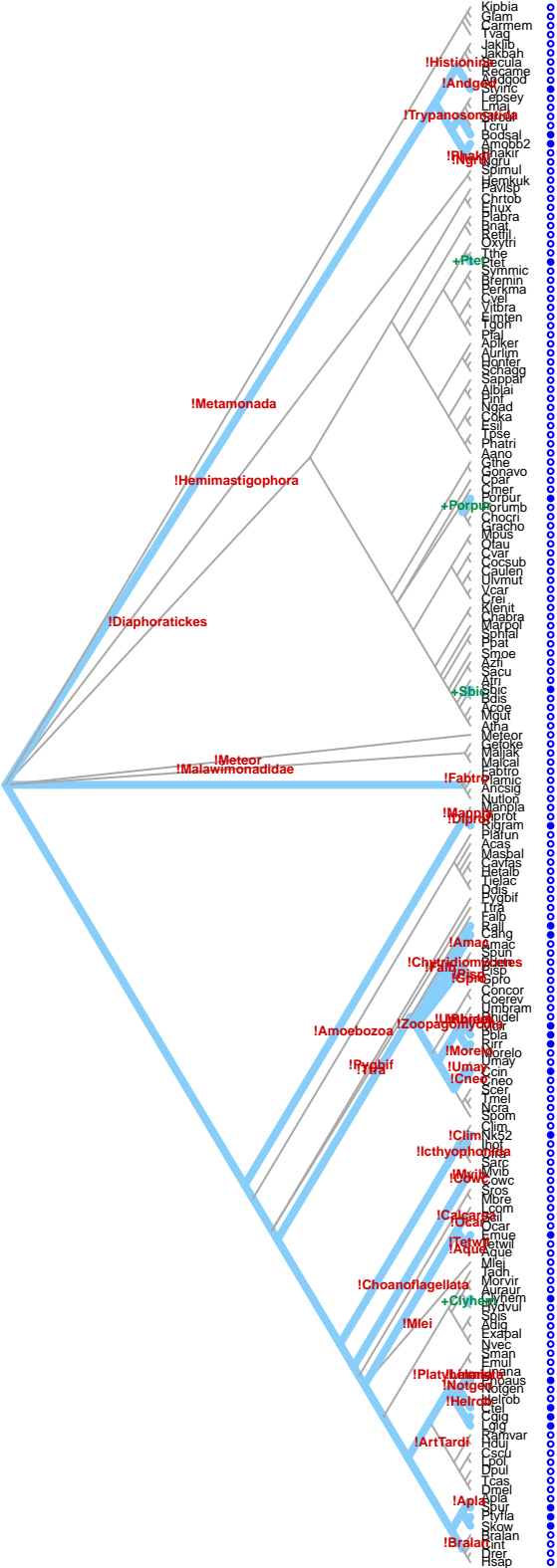
Gain: NA  
Presence Eukaryota prob = 1.00  
Present: 71  
Losses: NA



PTCB-BRCT	PTCB-BRCT   n=4
NIF,PTCB-BRCT,PP2C	NIF,PTCB-BRCT,PP2C   n=1
NIF,PTCB-BRCT,FCP1_C	NIF,PTCB-BRCT,FCP1_C   n=1
NIF,PTCB-BRCT	NIF,PTCB-BRCT   n=25
NIF,BRCT,TIL_DM13	NIF,BRCT,TIL_DM13   n=1
NIF,BRCT,FCP1_C	NIF,BRCT,FCP1_C   n=4
NIF,BRCT	NIF,BRCT   n=49
DUF2358,NIF,BRCT	DUF2358,NIF,BRCT   n=1
BRCT,FCP1_C	BRCT,FCP1_C   n=1
BRCT	BRCT   n=5
Biotin_lipoyl,NIF,PTCB-BRCT,FCP1_C	Biotin_lipoyl,NIF,PTCB-BRCT,FCP1_C   n=1
Biotin_lipoyl,NIF,BRCT,FCP1_C	Biotin_lipoyl,NIF,BRCT,FCP1_C   n=1
Biotin_lipoyl,NIF,BRCT	Biotin_lipoyl,NIF,BRCT   n=1

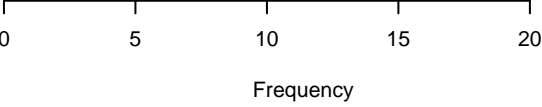
0 10 20 30 40  
Frequency

PTIP.HG7.0  
NA



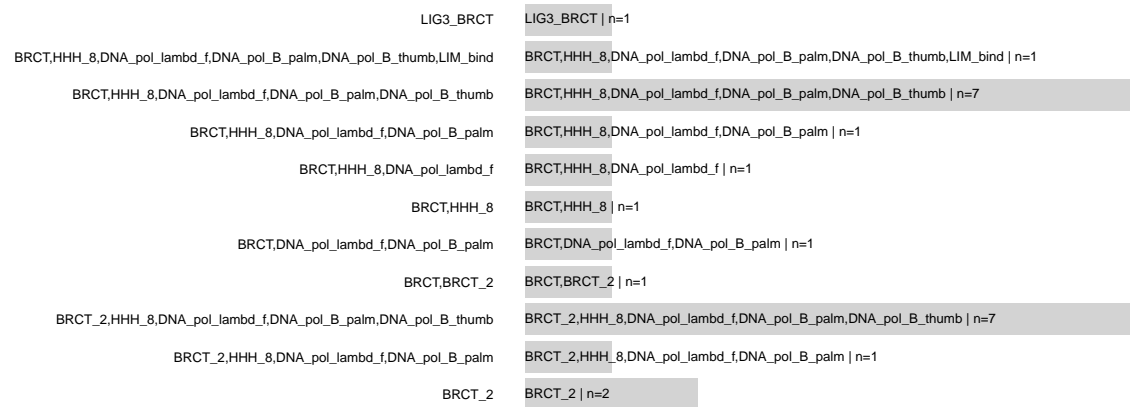
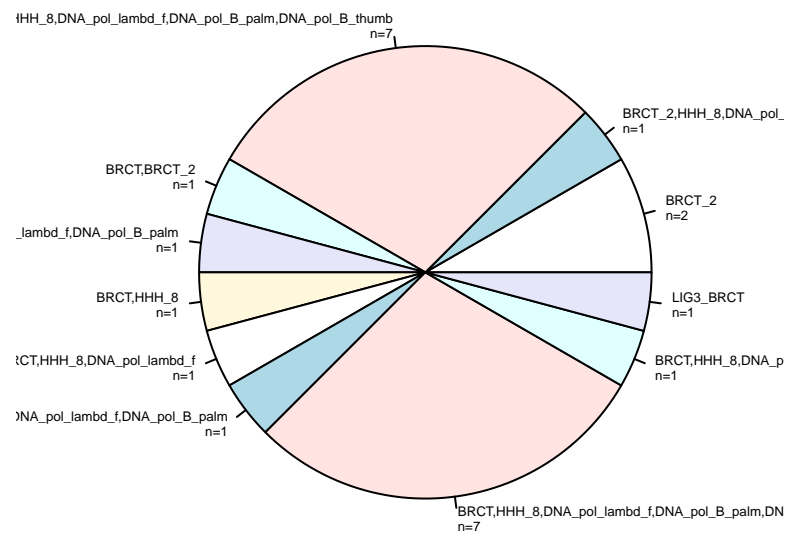
Pescadillo_N,BRCT_2	Pescadillo_N,BRCT_2   n=23
Pescadillo_N,BRCT	Pescadillo_N,BRCT   n=1
BRCT_2	BRCT_2   n=1

Gain: Clyhem,Sbic,Porpur,Ptet,NA  
Presence Eukaryota prob = 1.00  
Present: 23  
Losses: NA

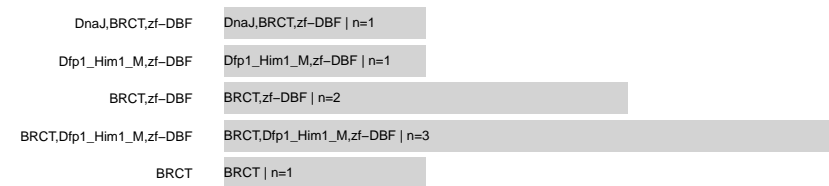


[illegible]

Gain: Metazoa,Scer,Mcir,Maljak,Mgut,Polypodiopsida,NA  
 Presence Eukaryota prob = 0.02  
 Present: 21  
 Losses: NA



Frequency

[illegible]

Frequency