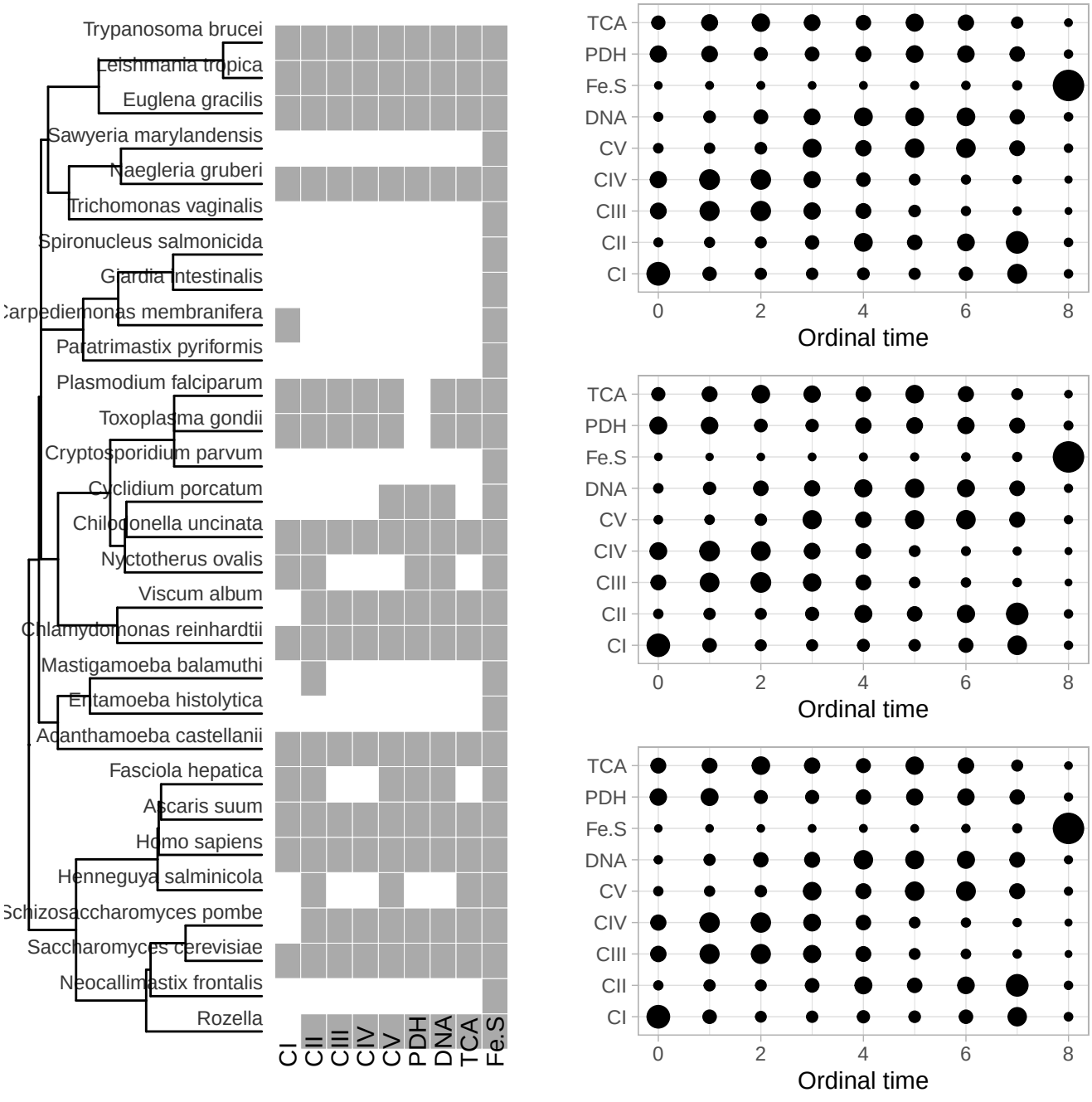
Trypanosoma brucei
Leishmania tropica
Euglena gracilis
Sawyeria marylandensis
Naegleria gruberi
Trichomonas vaginalis
Spironucleus salmonicida
Giardia intestinalis
Carpediemonas membranifera
Paratrimastix pyriformis
Plasmodium falciparum
Toxoplasma gondii
Cryptosporidium parvum
Cyclidium porcatum
Chilodonella uncinata
Nyctotherus ovalis
Viscum album
Chlamydomonas reinhardtii
Mastigamoeba balamuthi
Entamoeba histolytica
Acanthamoeba castellanii
Fasciola hepatica
Ascaris suum
Homo sapiens
Henneguya salminicola
Schizosaccharomyces pombe
Saccharomyces cerevisiae
Neocallimastix frontalis
Rozella
CI
CII
CIII
CIV
CV
PDH
DNA
TCA
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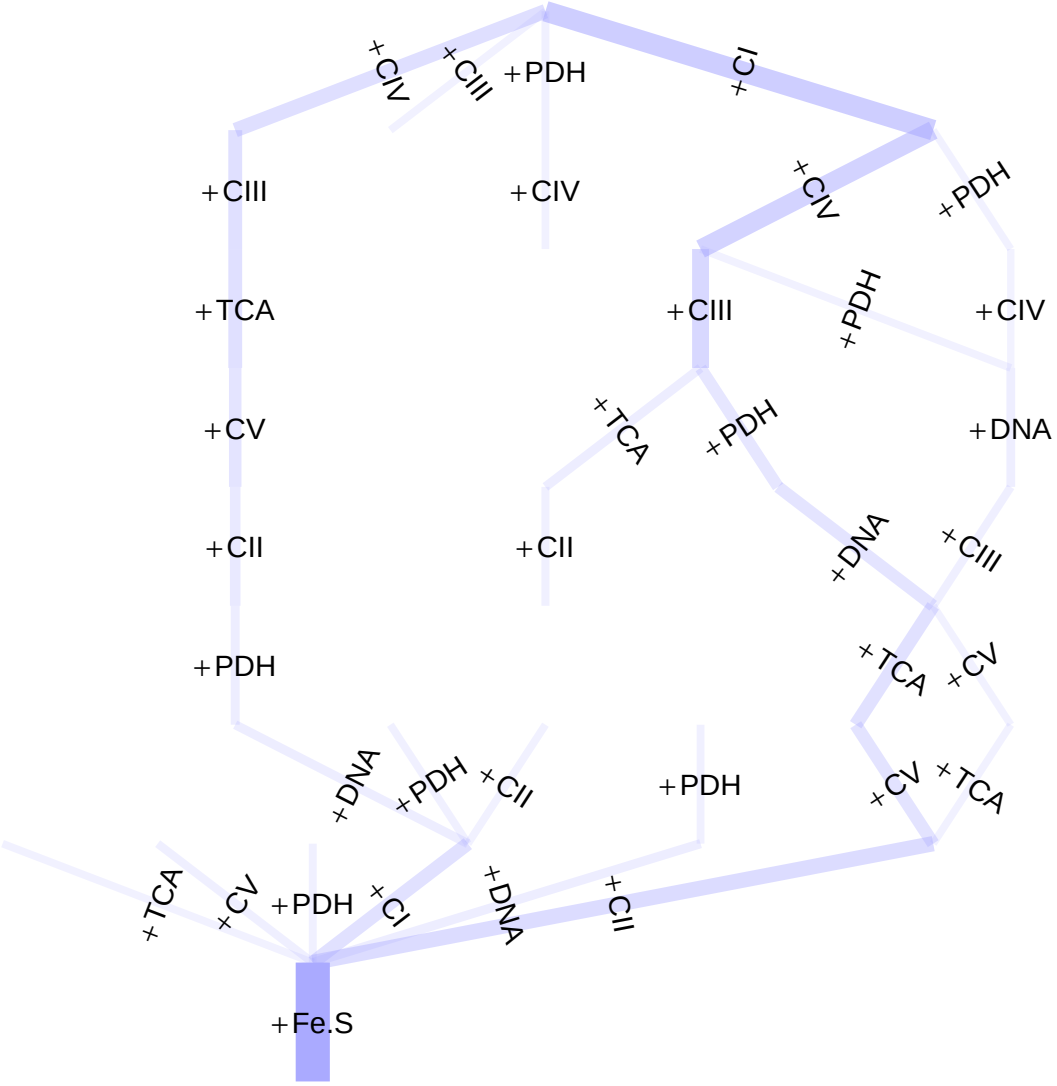
TCA
PDH
Fe.S
DNA
CV
CIV
CIII
CII
CI
0
2
4
6
8
Ordinal time


+CIV
+CIII
+PDH
+CI
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+CIV
+CIV
+PDH
+TCA
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+TCA
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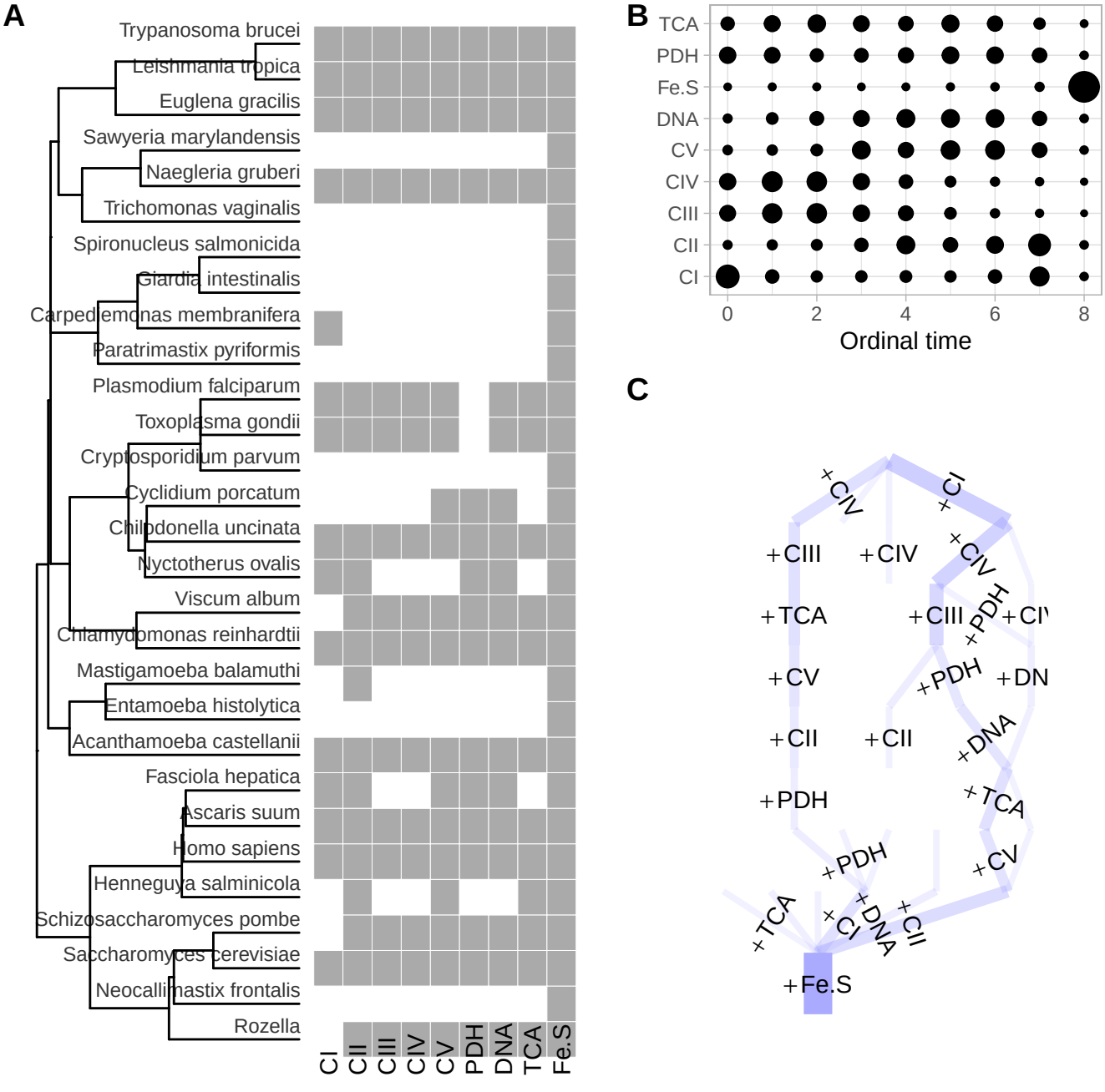
A
Trypanosoma brucei
Leishmania tropica
Euglena gracilis
Sawyeria marylandensis
Naegleria gruberi
Trichomonas vaginalis
Spironucleus salmonicida
Giardia intestinalis
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CI
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PDH
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B
TCA
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CV
CIV
CIII
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CI
0
2
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6
8
Ordinal time
C
+CIV
+CI
+CIII
+CIV
+CIV
+TCA
+CIII
+PDH
+CI
+CV
+PDH
+DN
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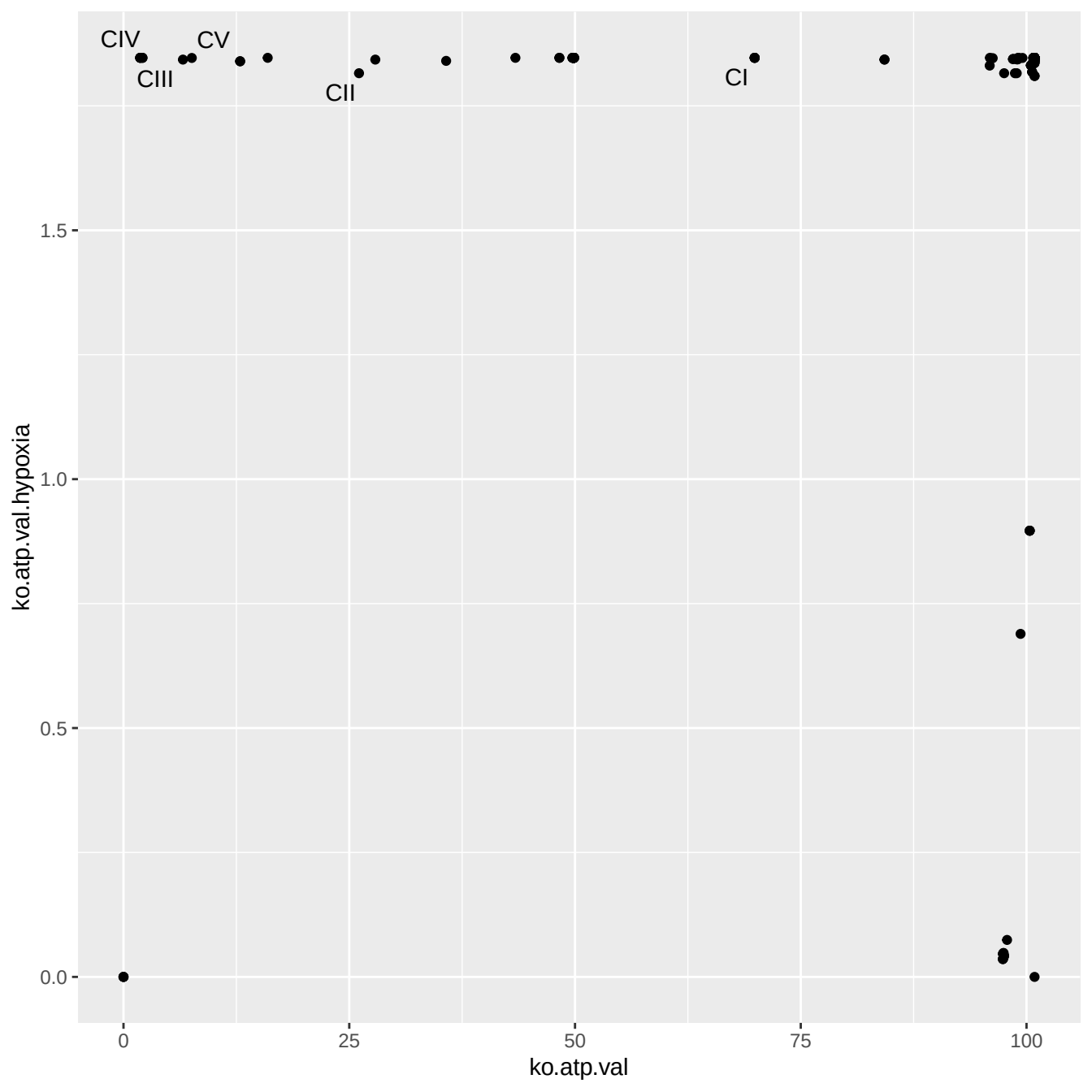
+CII
+Fe.S


CIV
CV
CIII
CII
CI
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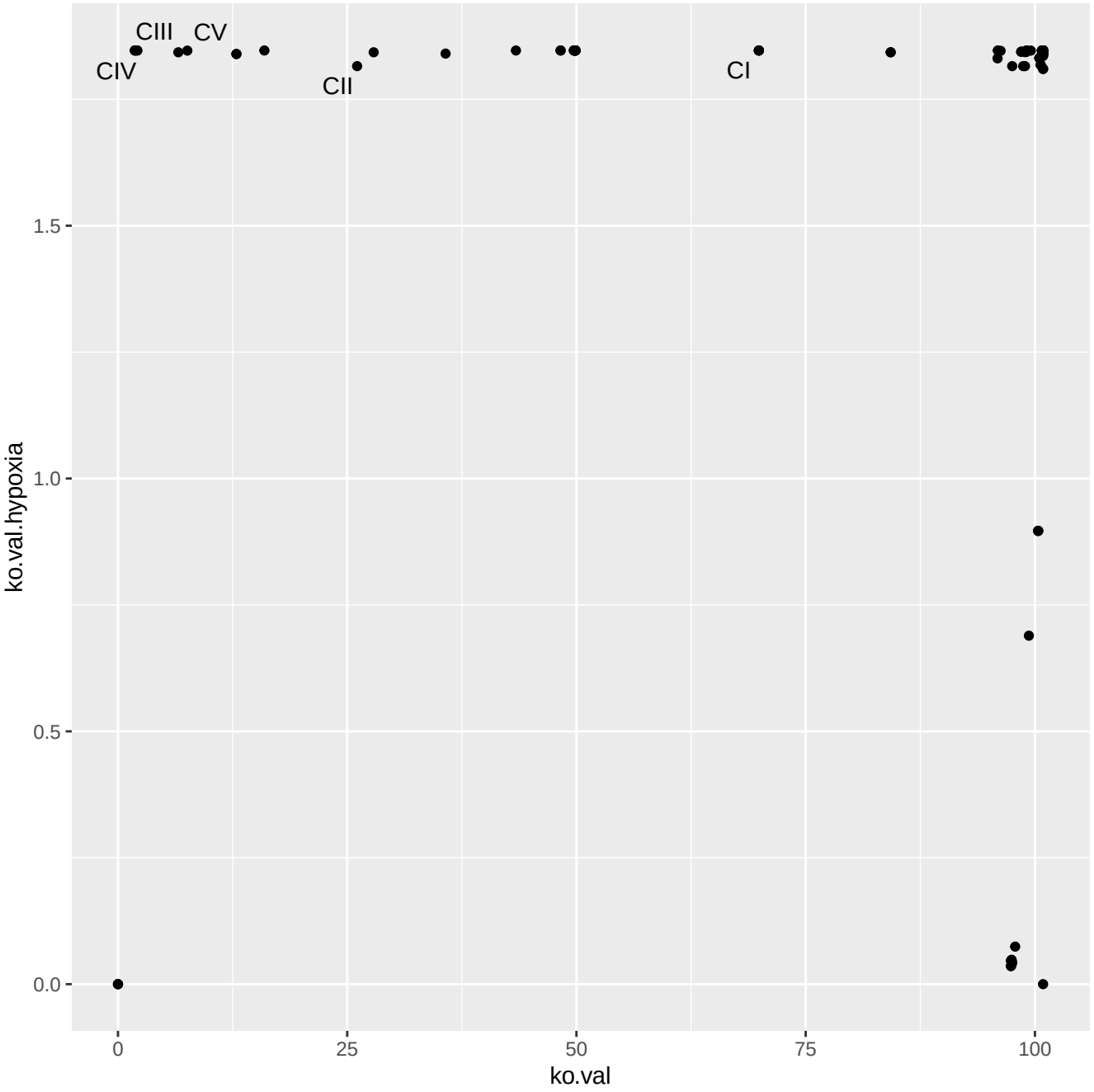
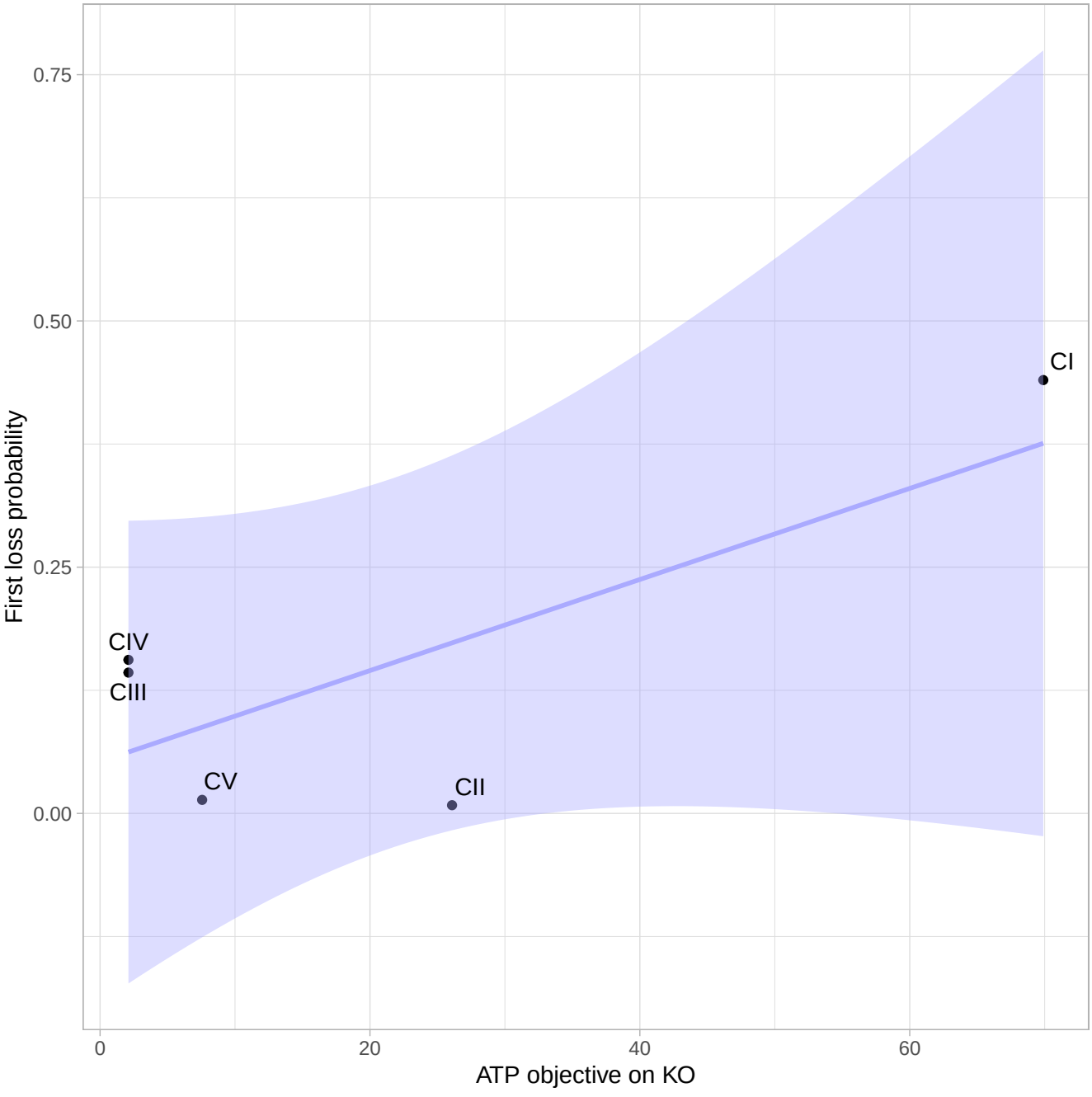
1.0
0.5
0.0
ko.atp.val.hypoxia
0
25
50
75
100
ko.atp.val


CIII
CV
CIV
CII
CI
1.5
1.0
0.5
0.0
ko.val.hypoxia
0
25
50
75
100
ko.val


0.75
0.50
0.25
0.00
First loss probability
CI
CIV
CIII
CV
CII
0
20
40
60
ATP objective on KO