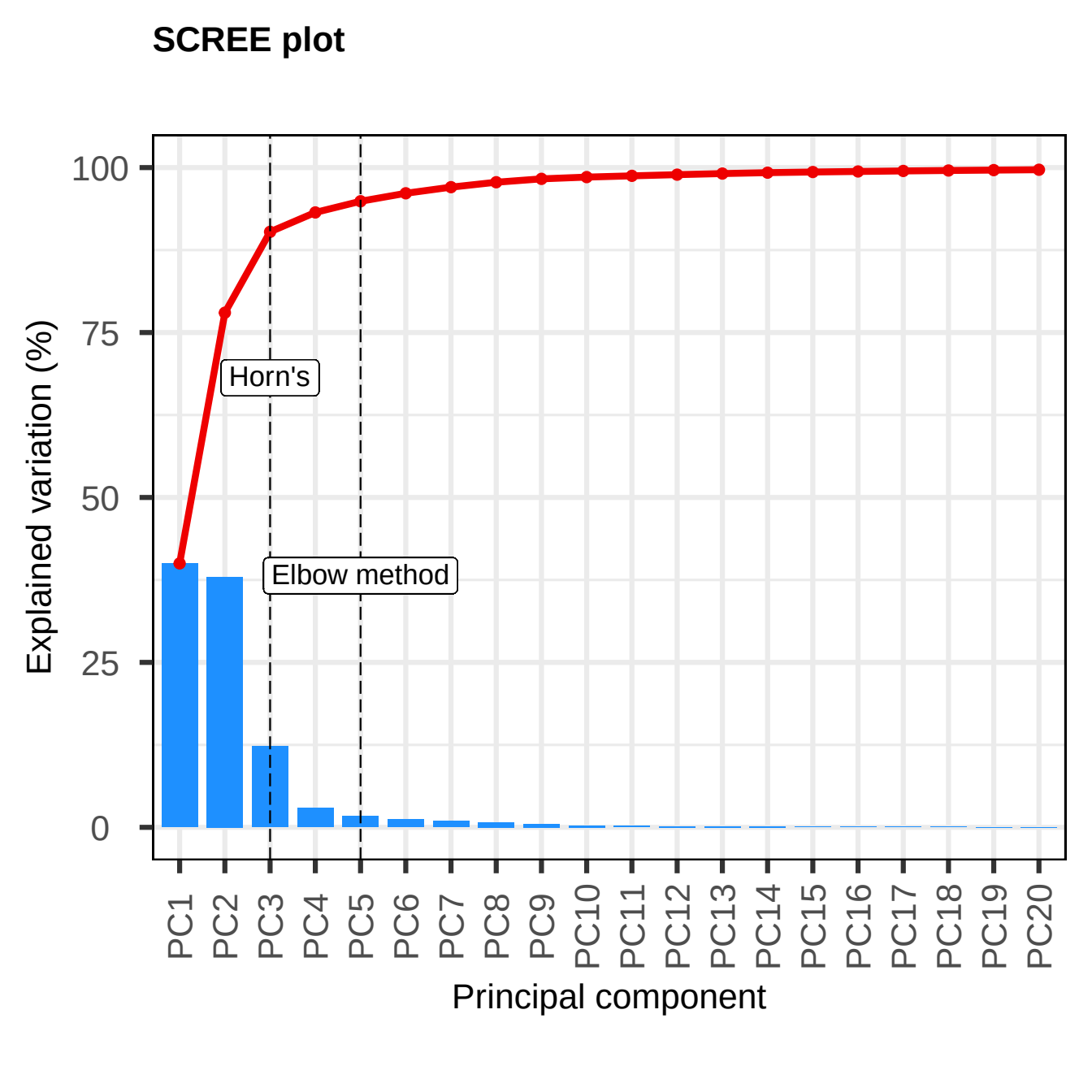
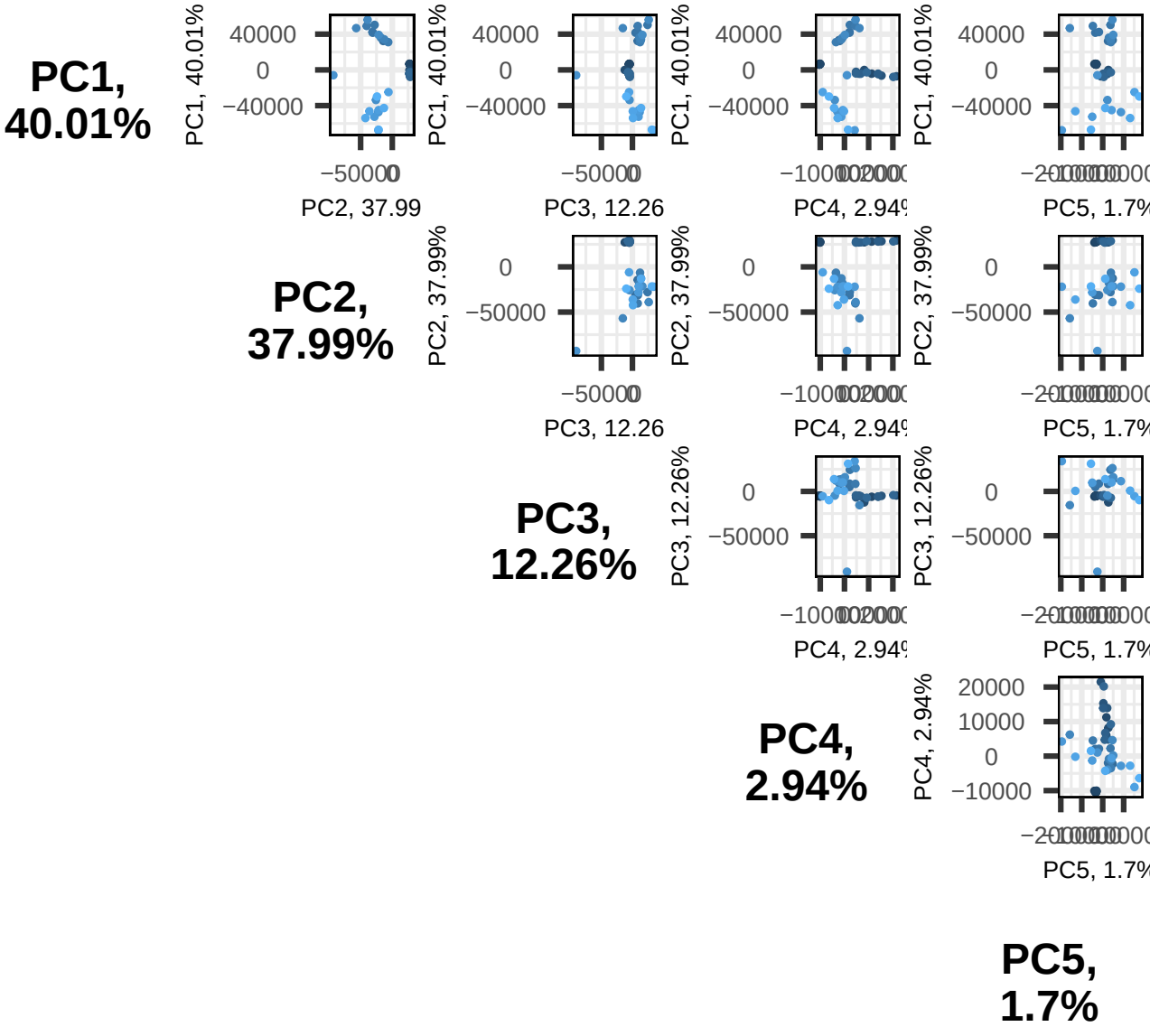
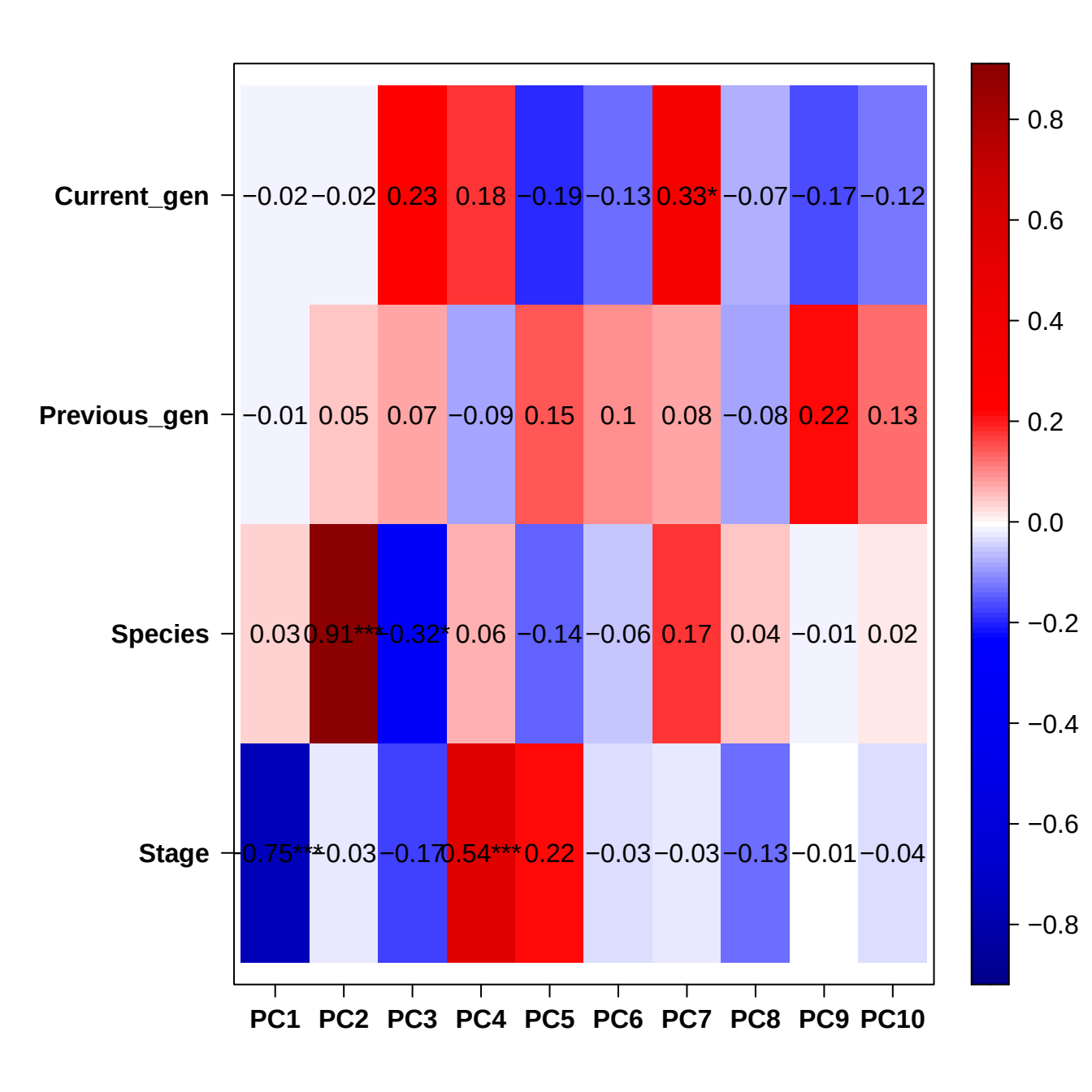
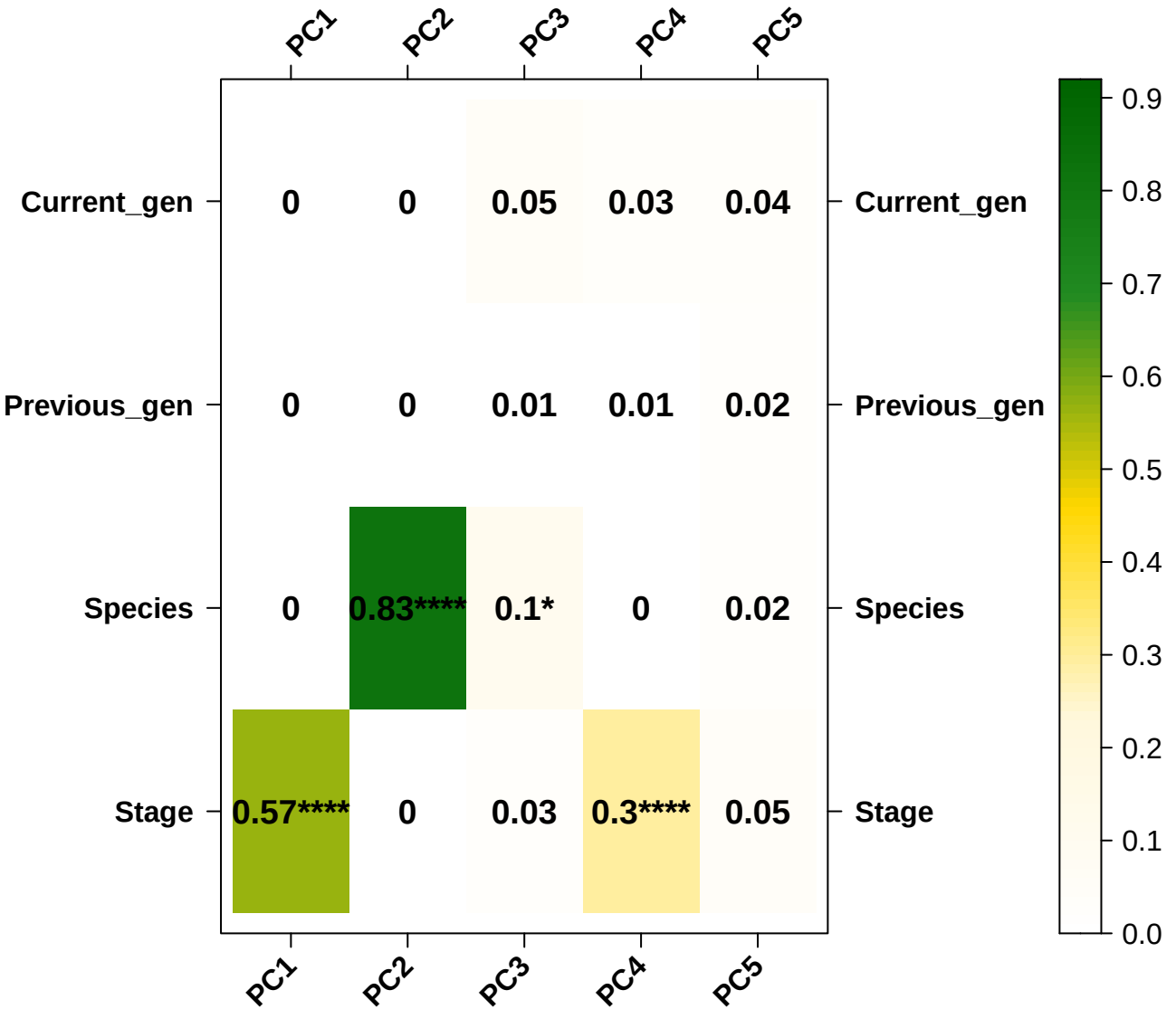
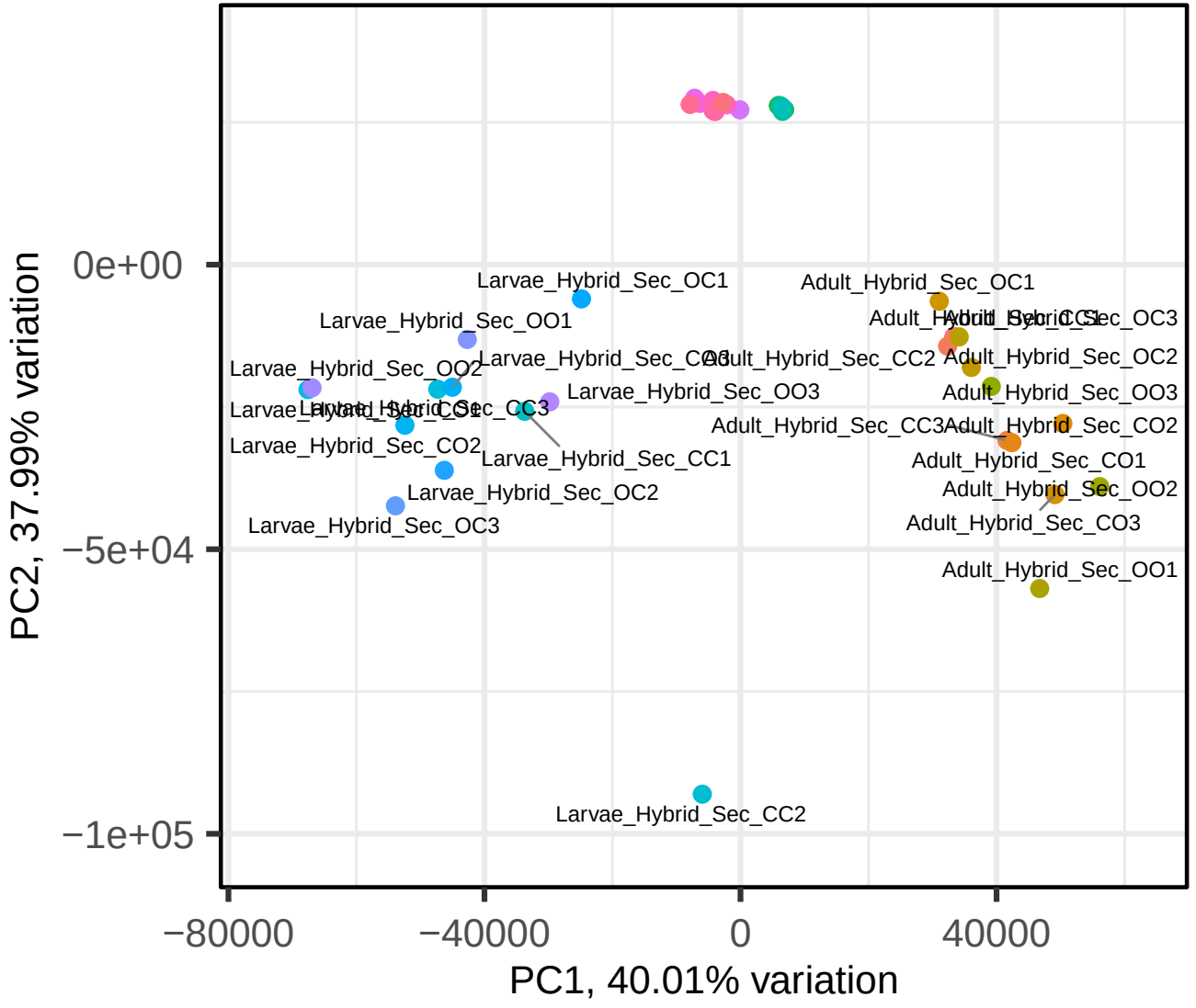

SCREE plot
100
75
50
25
0
Explained variation (%)
Horn's
Elbow method
PC1
PC2
PC3
PC4
PC5
PC6
PC7
PC8
PC9
PC10
PC11
PC12
PC13
PC14
PC15
PC16
PC17
PC18
PC19
PC20
Principal component

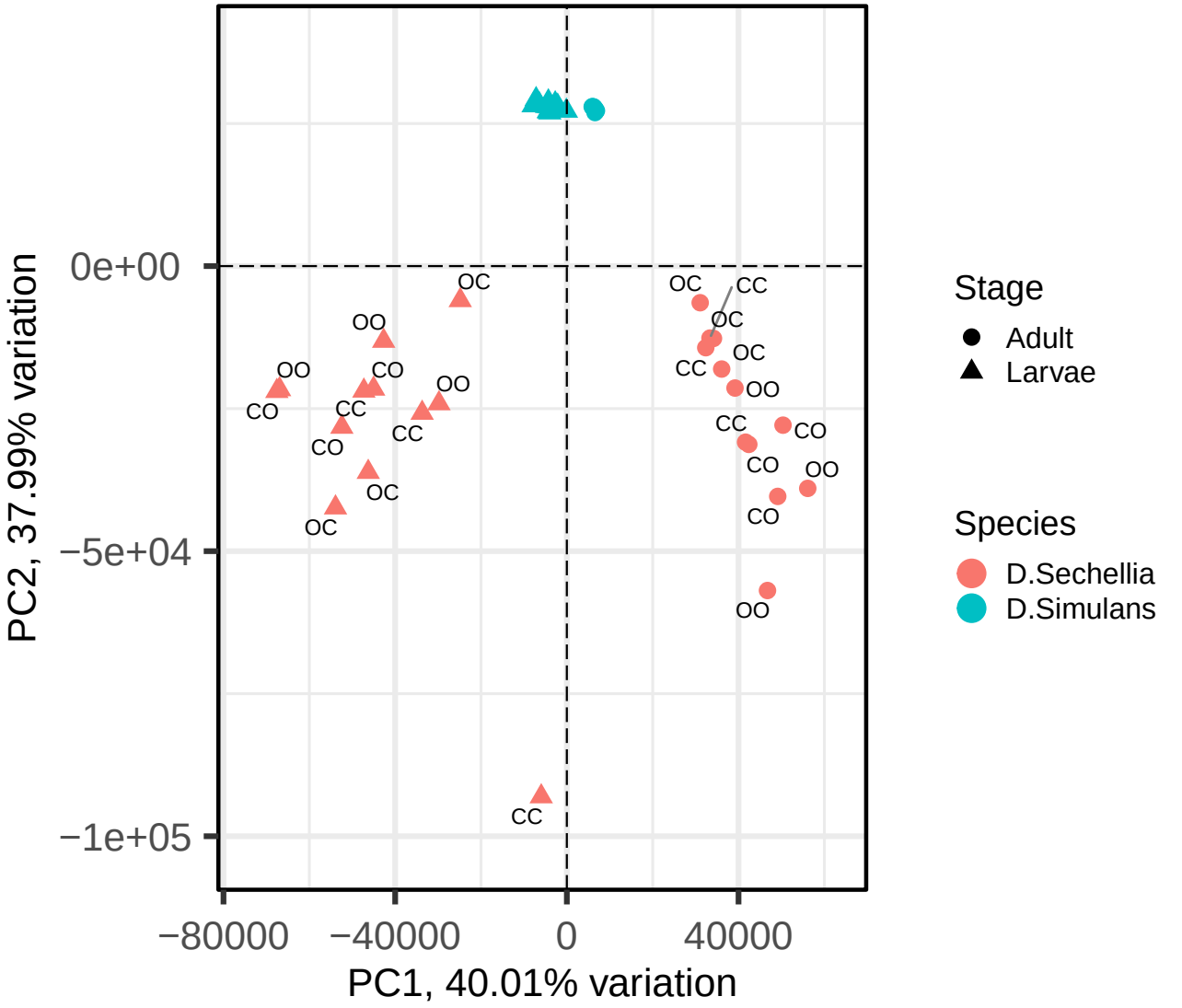

PC1, 40.01%
PC2, 37.99%
PC3, 12.26%
PC4, 2.94%
PC5, 1.7%
40000
0
−40000
−50000
20000
10000
−10000

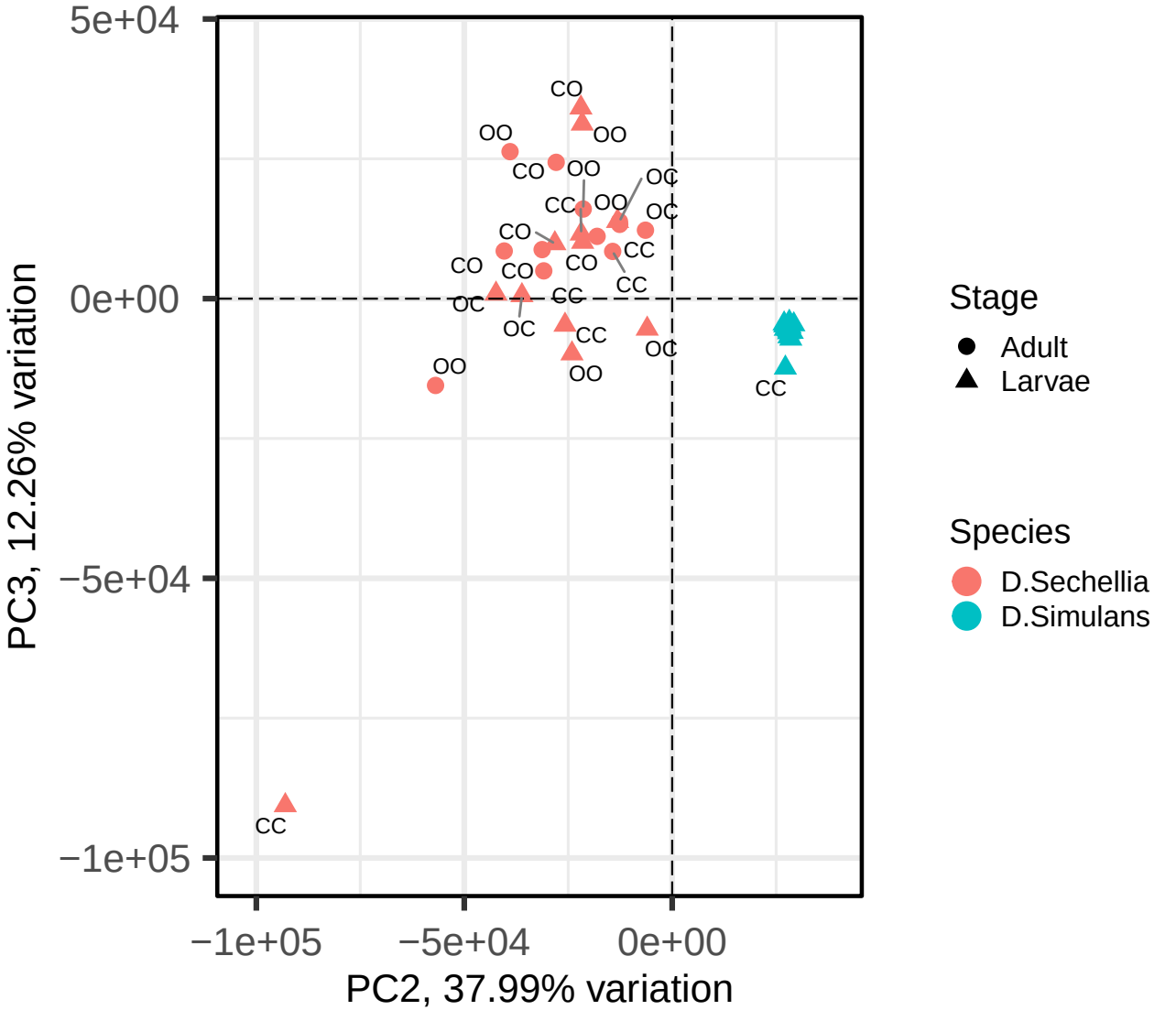

Current_gen
Previous_gen
Species
Stage
−0.02 −0.02 0.23 0.18 −0.19 −0.13 0.33* −0.07 −0.17 −0.12
−0.01 0.05 0.07 −0.09 0.15 0.1 0.08 −0.08 0.22 0.13
0.03 0.91*** 0.32* 0.06 −0.14 −0.06 0.17 0.04 −0.01 0.02
0.75*** 0.03 −0.17 0.54*** 0.22 −0.03 −0.03 −0.13 −0.01 −0.04
PC1 PC2 PC3 PC4 PC5 PC6 PC7 PC8 PC9 PC10
0.8
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
−0.8

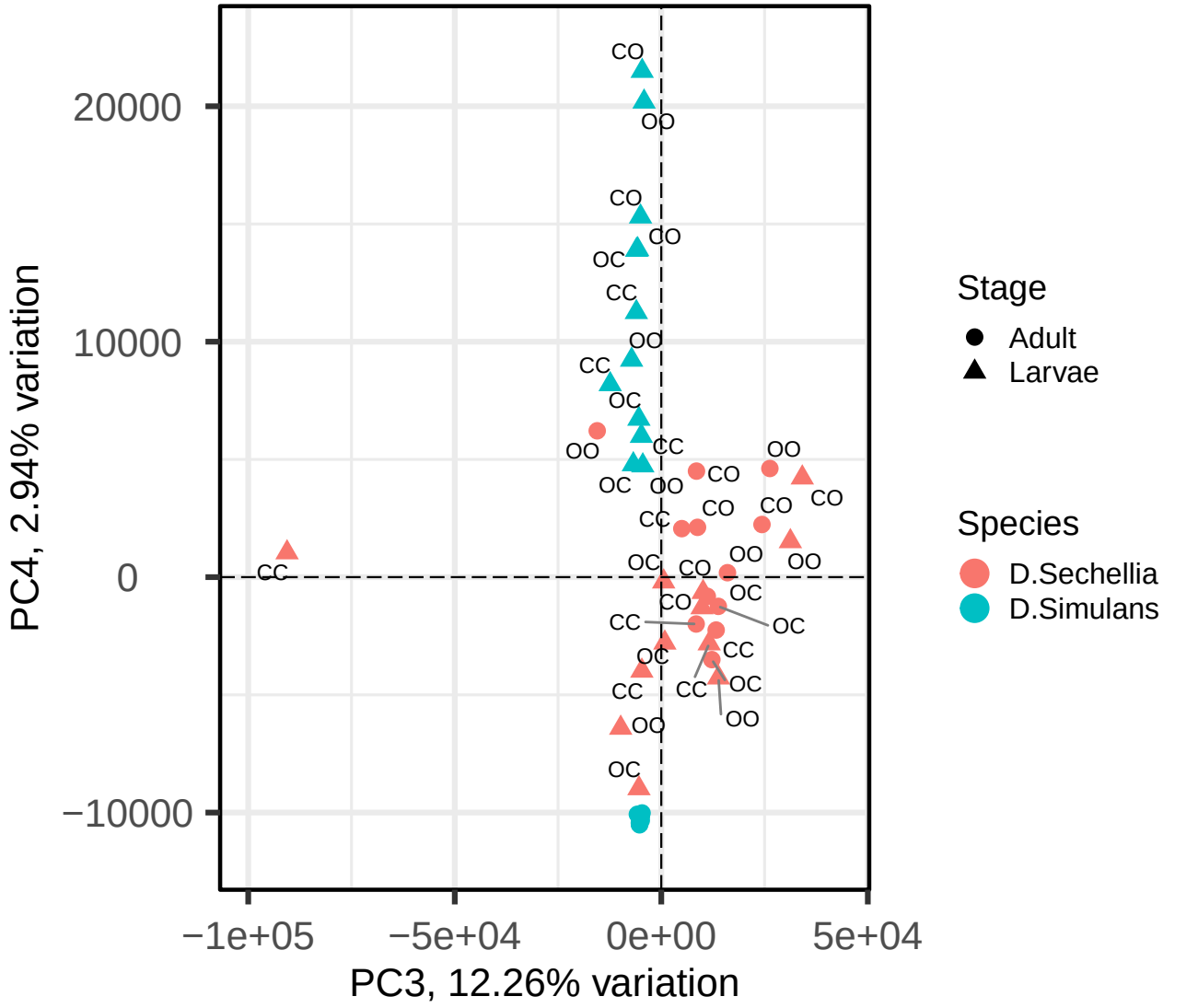
Principal component Pearson r^2 correlates

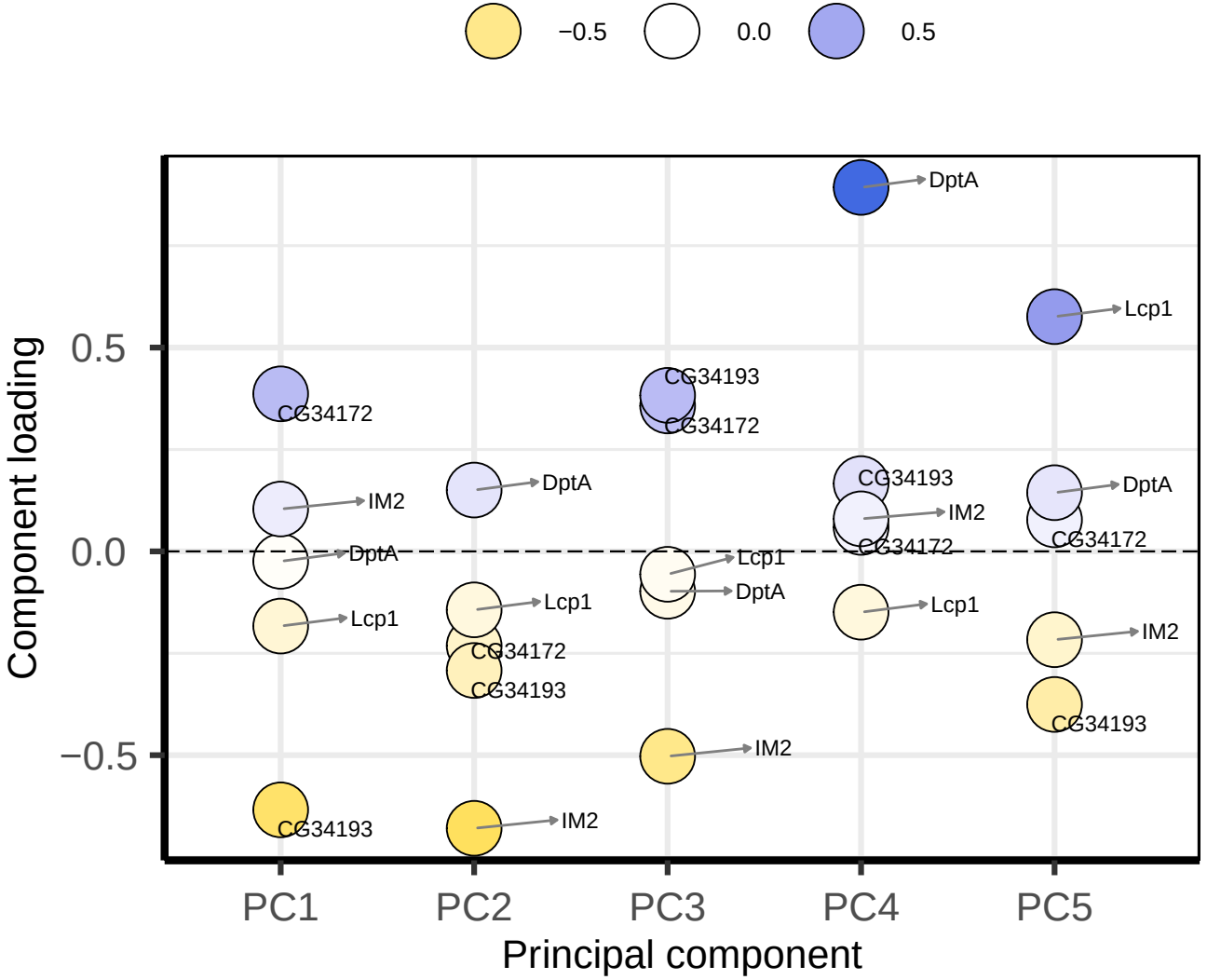


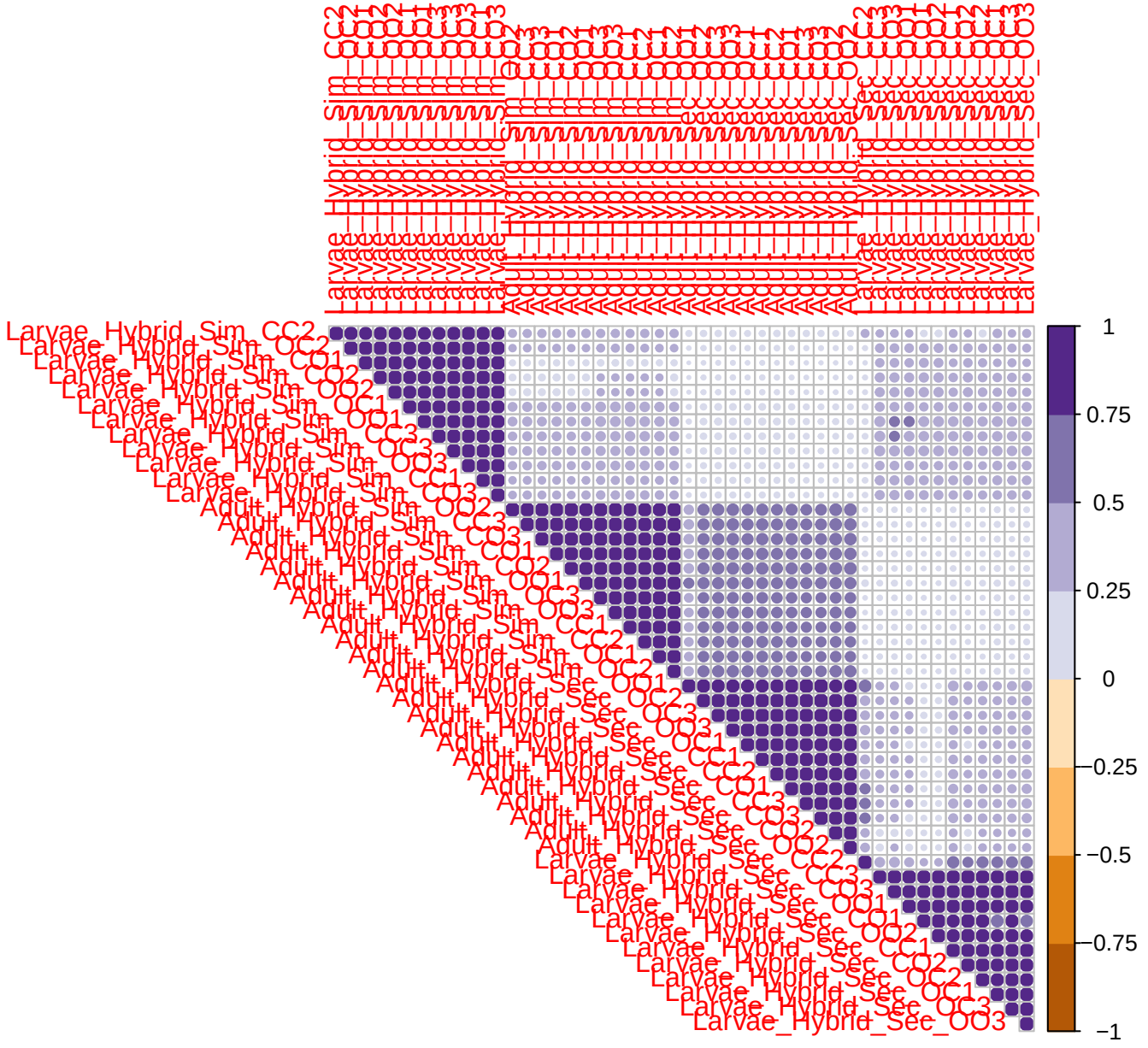

PC2, 37.99% variation
0e+00
−5e+04
−1e+05
PC1, 40.01% variation
−80000
−40000
0
40000
Larvae_Hybrid_Sec_OC1
Larvae_Hybrid_Sec_OO1
Larvae_Hybrid_Sec_OO2
Larvae_Hybrid_Sec_OO3
Larvae_Hybrid_Sec_CO2
Larvae_Hybrid_Sec_CC1
Larvae_Hybrid_Sec_OC2
Larvae_Hybrid_Sec_OC3
Larvae_Hybrid_Sec_CC2
Adult_Hybrid_Sec_OC1
Adult_Hybrid_Sec_CC2
Adult_Hybrid_Sec_OC2
Adult_Hybrid_Sec_OO3
Adult_Hybrid_Sec_CC3
Adult_Hybrid_Sec_CO2
Adult_Hybrid_Sec_CO1
Adult_Hybrid_Sec_OO2
Adult_Hybrid_Sec_CO3
Adult_Hybrid_Sec_OO1

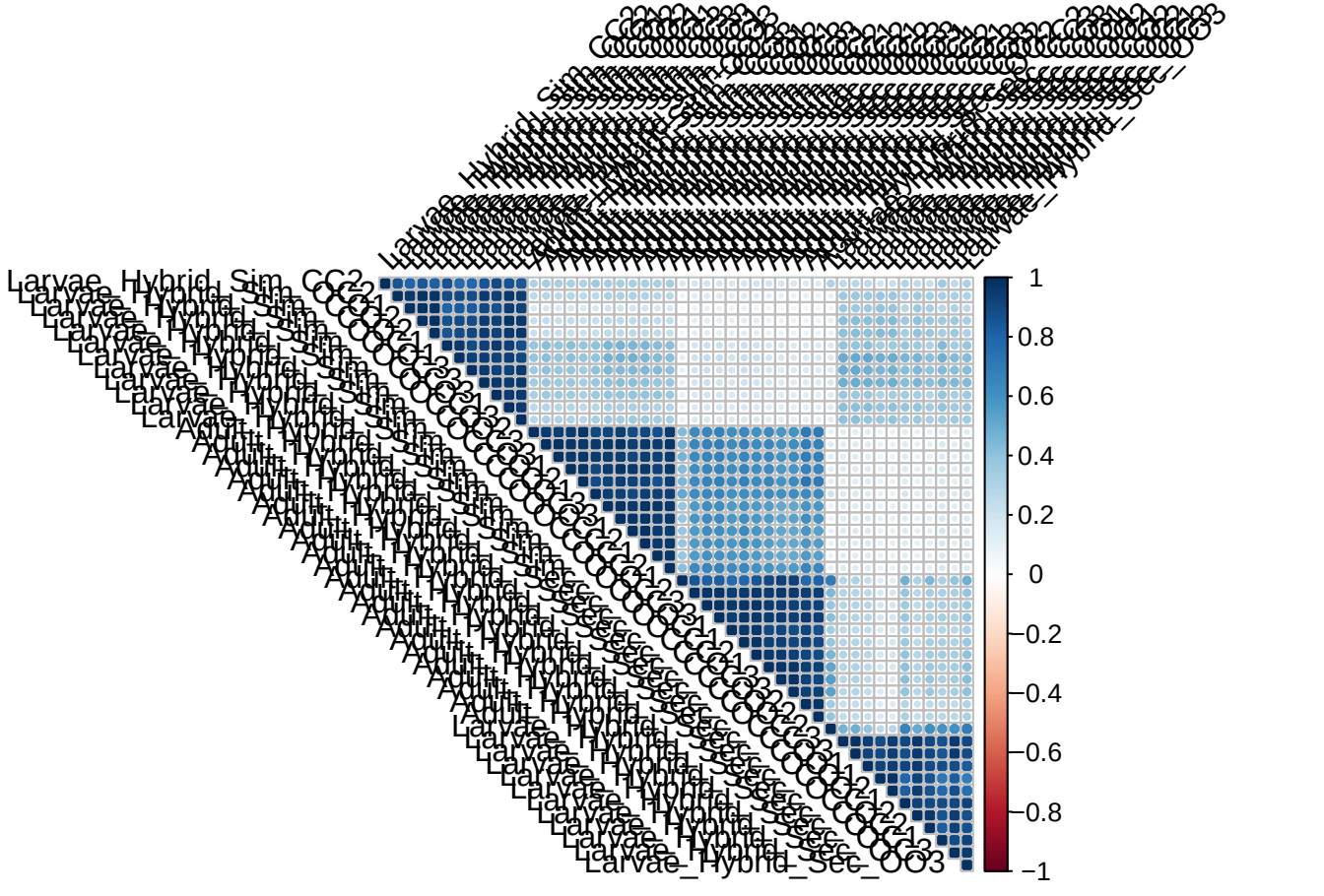

0e+00
−5e+04
−1e+05
PC2, 37.99% variation
−80000
−40000
0
40000
PC1, 40.01% variation
Stage
Adult
Larvae
Species
D.Sechellia
D.Simulans

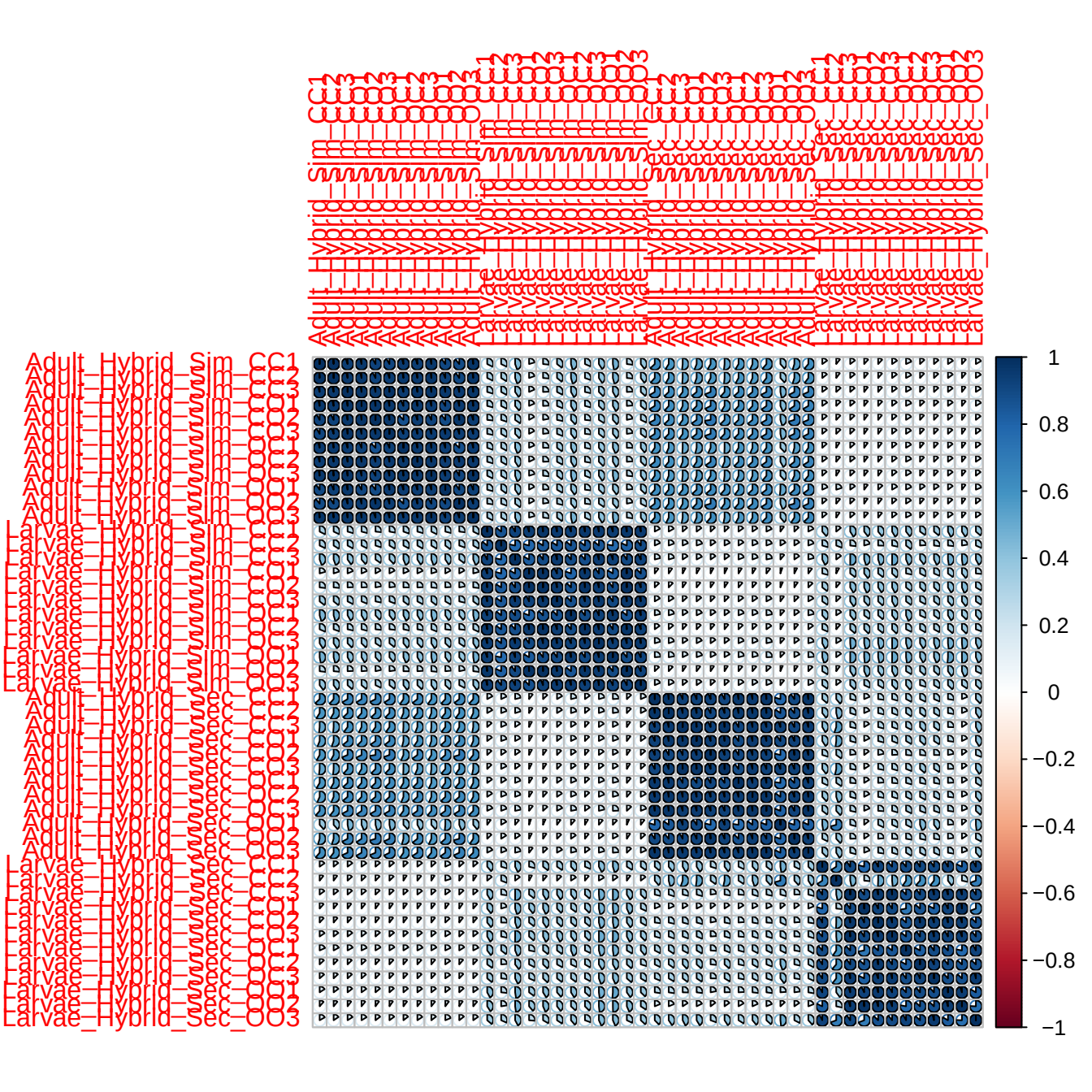

5e+04
0e+00
−5e+04
−1e+05
PC3, 12.26% variation
−1e+05
−5e+04
0e+00
PC2, 37.99% variation
Stage
Adult
Larvae
Species
D.Sechellia
D.Simulans

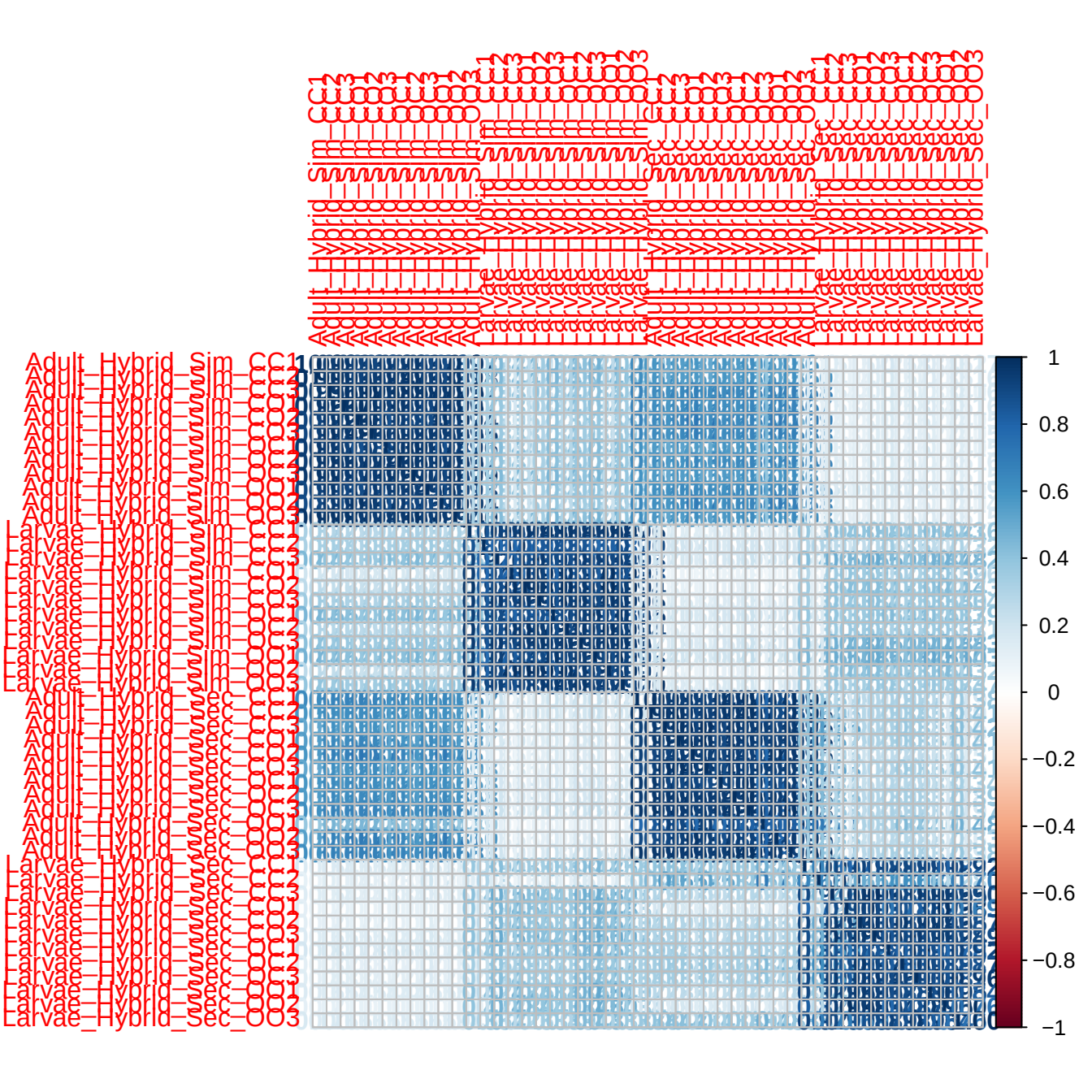

20000
10000
0
−10000
PC4, 2.94% variation
−1e+05
−5e+04
0e+00
5e+04
PC3, 12.26% variation
Stage
Adult
Larvae
Species
D.Sechellia
D.Simulans

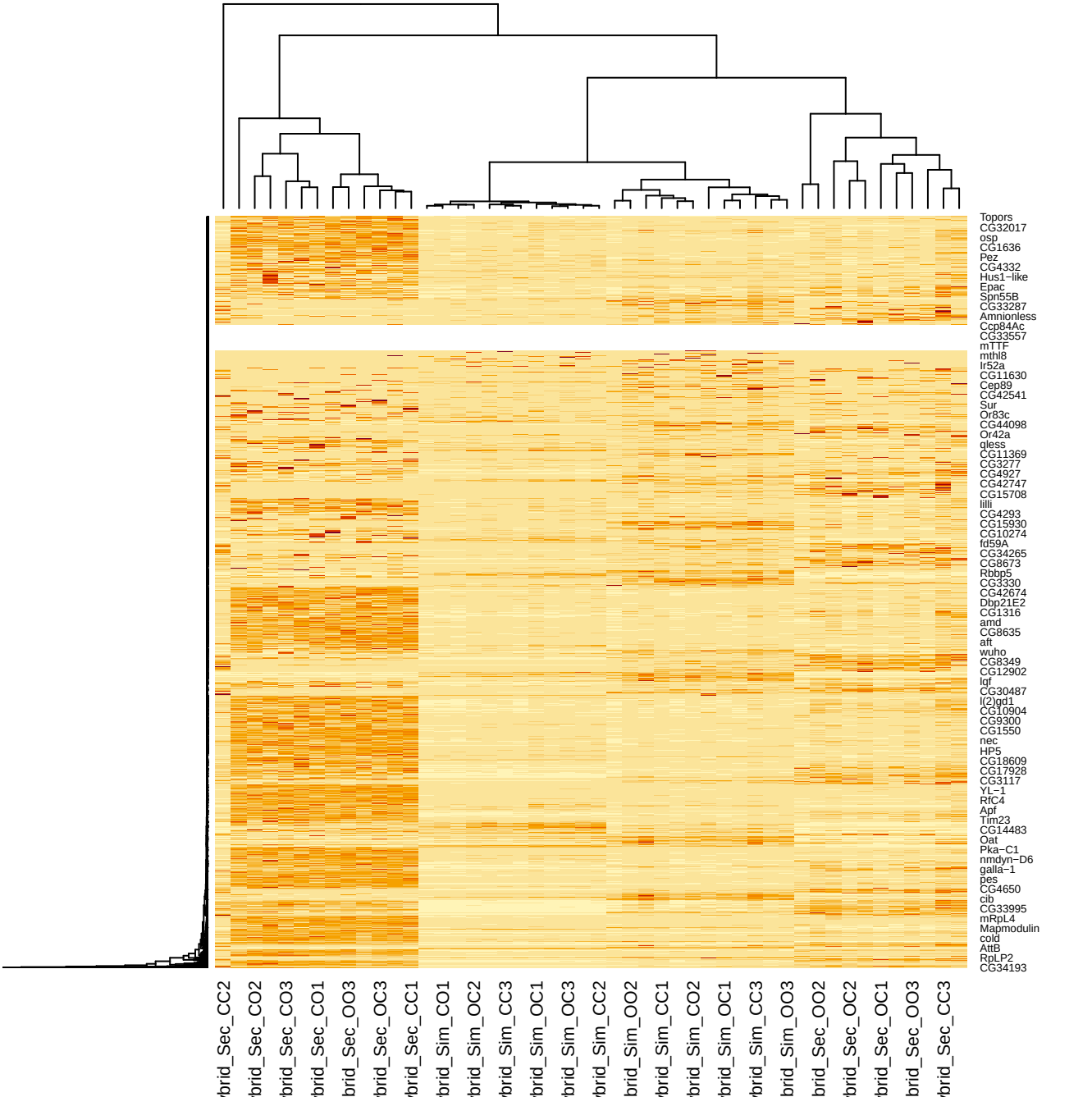

−0.5
0.0
0.5
Component loading
0.5
0.0
−0.5
PC1
PC2
PC3
PC4
PC5
Principal component
CG34172
IM2
DptA
Lcp1
CG34193
DptA
Lcp1
CG34172
CG34193
IM2
CG34193
IM2
Lcp1
DptA
CG34172
IM2
DptA
Lcp1
CG34193
IM2
DptA
Lcp1
CG34172
IM2
CG34193


Larvae_Hybrid_Sim_CC2
Larvae_Hybrid_Sim_OC2
Larvae_Hybrid_Sim_CO1
Larvae_Hybrid_Sim_CO2
Larvae_Hybrid_Sim_OO2
Larvae_Hybrid_Sim_OC1
Larvae_Hybrid_Sim_OO1
Larvae_Hybrid_Sim_CC3
Larvae_Hybrid_Sim_OC3
Larvae_Hybrid_Sim_OO3
Larvae_Hybrid_Sim_CC1
Larvae_Hybrid_Sim_CO3
Adult_Hybrid_Sim_OO2
Adult_Hybrid_Sim_CC3
Adult_Hybrid_Sim_CO3
Adult_Hybrid_Sim_CO1
Adult_Hybrid_Sim_CO2
Adult_Hybrid_Sim_OO1
Adult_Hybrid_Sim_OC3
Adult_Hybrid_Sim_OO3
Adult_Hybrid_Sim_CC1
Adult_Hybrid_Sim_CC2
Adult_Hybrid_Sim_OC1
Adult_Hybrid_Sim_OC2
Adult_Hybrid_See_OO1
Adult_Hybrid_See_OC2
Adult_Hybrid_See_OC3
Adult_Hybrid_See_OO3
Adult_Hybrid_See_OC1
Adult_Hybrid_See_CC1
Adult_Hybrid_See_CC2
Adult_Hybrid_See_CO1
Adult_Hybrid_See_CC3
Adult_Hybrid_See_CO3
Adult_Hybrid_See_CO2
Adult_Hybrid_See_OO2
Larvae_Hybrid_See_CC2
Larvae_Hybrid_See_CC3
Larvae_Hybrid_See_CO3
Larvae_Hybrid_See_OO1
Larvae_Hybrid_See_CO1
Larvae_Hybrid_See_OO2
Larvae_Hybrid_See_CC1
Larvae_Hybrid_See_CO2
Larvae_Hybrid_See_OC2
Larvae_Hybrid_See_OC1
Larvae_Hybrid_See_OC3
1
0.75
0.5
0.25
0
−0.25
−0.5
−0.75
−1


Larvae_Hybrid_Sim_CC2
Larvae_Hybrid_Sec_OO3
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1


Adult_Hybrid_Sim_CC1
Adult_Hybrid_Sim_CC2
Adult_Hybrid_Sim_CC3
Adult_Hybrid_Sim_OC1
Adult_Hybrid_Sim_OC2
Adult_Hybrid_Sim_OC3
Adult_Hybrid_Sim_OO1
Adult_Hybrid_Sim_OO2
Adult_Hybrid_Sim_OO3
Larvae_Hybrid_Sim_CC1
Larvae_Hybrid_Sim_CC2
Larvae_Hybrid_Sim_CC3
Larvae_Hybrid_Sim_OC1
Larvae_Hybrid_Sim_OC2
Larvae_Hybrid_Sim_OC3
Larvae_Hybrid_Sim_OO1
Larvae_Hybrid_Sim_OO2
Larvae_Hybrid_Sim_OO3
Adult_Hybrid_Sec_CC1
Adult_Hybrid_Sec_CC2
Adult_Hybrid_Sec_CC3
Adult_Hybrid_Sec_OC1
Adult_Hybrid_Sec_OC2
Adult_Hybrid_Sec_OC3
Adult_Hybrid_Sec_OO1
Adult_Hybrid_Sec_OO2
Adult_Hybrid_Sec_OO3
Larvae_Hybrid_Sec_CC1
Larvae_Hybrid_Sec_CC2
Larvae_Hybrid_Sec_CC3
Larvae_Hybrid_Sec_OC1
Larvae_Hybrid_Sec_OC2
Larvae_Hybrid_Sec_OC3
Larvae_Hybrid_Sec_OO1
Larvae_Hybrid_Sec_OO2
Larvae_Hybrid_Sec_OO3
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1


Adult_Hybrid_Sim_CC1
Adult_Hybrid_Sim_CC2
Adult_Hybrid_Sim_CC3
Adult_Hybrid_Sim_OC1
Adult_Hybrid_Sim_OC2
Adult_Hybrid_Sim_OC3
Adult_Hybrid_Sim_OO1
Adult_Hybrid_Sim_OO2
Adult_Hybrid_Sim_OO3
Larvae_Hybrid_Sim_CC1
Larvae_Hybrid_Sim_CC2
Larvae_Hybrid_Sim_CC3
Larvae_Hybrid_Sim_OC1
Larvae_Hybrid_Sim_OC2
Larvae_Hybrid_Sim_OC3
Larvae_Hybrid_Sim_OO1
Larvae_Hybrid_Sim_OO2
Larvae_Hybrid_Sim_OO3
Adult_Hybrid_Sec_CC1
Adult_Hybrid_Sec_CC2
Adult_Hybrid_Sec_CC3
Adult_Hybrid_Sec_OC1
Adult_Hybrid_Sec_OC2
Adult_Hybrid_Sec_OC3
Adult_Hybrid_Sec_OO1
Adult_Hybrid_Sec_OO2
Adult_Hybrid_Sec_OO3
Larvae_Hybrid_Sec_CC1
Larvae_Hybrid_Sec_CC2
Larvae_Hybrid_Sec_CC3
Larvae_Hybrid_Sec_OC1
Larvae_Hybrid_Sec_OC2
Larvae_Hybrid_Sec_OC3
Larvae_Hybrid_Sec_OO1
Larvae_Hybrid_Sec_OO2
Larvae_Hybrid_Sec_OO3
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1


Topors
CG32017
osp
CG1636
Pez
CG4332
Hus1−like
Epac
Spn55B
CG33287
Amnionless
Ccp84Ac
CG33557
mTTF
mthl8
Ir52a
CG11630
Cep89
CG42541
Sur
Or83c
CG44098
Or42a
qless
CG11369
CG3277
CG4927
CG42747
CG15708
lilli
CG4293
CG15930
CG10274
fd59A
CG34265
CG8673
Rbbp5
CG3330
CG42674
Dbp21E2
CG1316
amd
CG8635
aft
wuho
CG8349
CG12902
lqf
CG30487
l(2)gd1
CG10904
CG9300
CG1550
nec
HP5
CG18609
CG17928
CG3117
YL−1
RfC4
Apf
Tim23
CG14483
Oat
Pka−C1
nmdyn−D6
galla−1
pes
CG4650
cib
CG33995
mRpL4
Mapmodulin
cold
Att8
RpLP2
CG34193
ybrid_Sec_CC2
ybrid_Sec_CO2
ybrid_Sec_CO3
ybrid_Sec_CO1
ybrid_Sec_OO3
ybrid_Sec_OC3
ybrid_Sec_CC1
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brid_Sim_OC1
brid_Sim_CC3
brid_Sim_OO3
brid_Sec_OO2
brid_Sec_OC2
brid_Sec_OC1
brid_Sec_OO3
brid_Sec_CC3