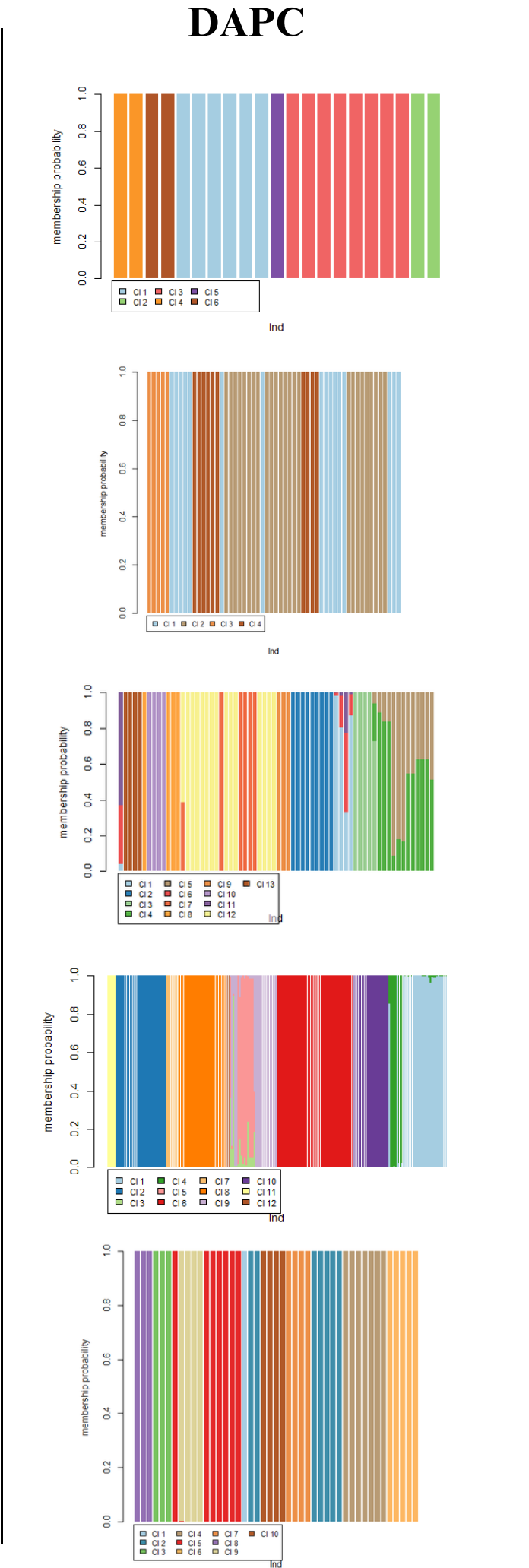
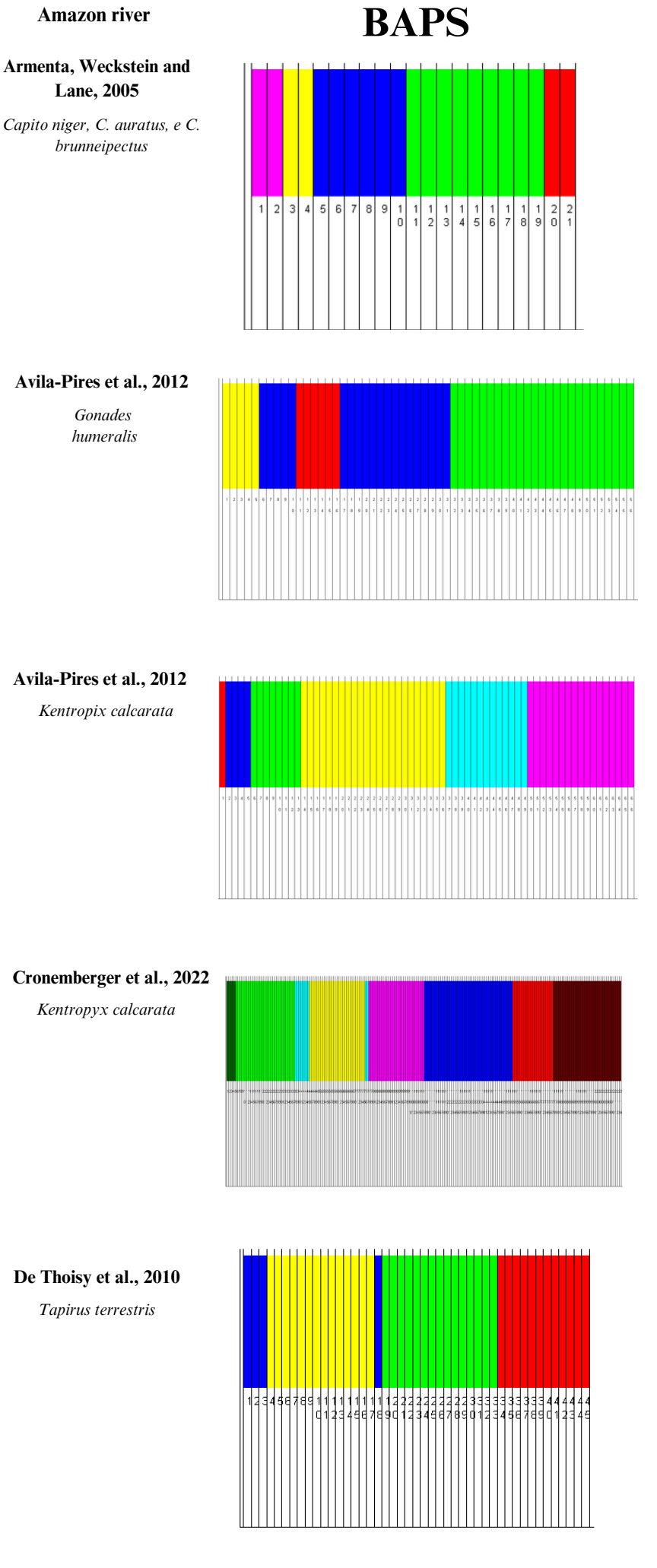


Figure S1: Population genetic structure analyses of the species used in this study for the Amazon, Doce, and São Francisco rivers. The studies and their respective species are shown on the left side of the figure. The left quadrant displays the results generated by the BAPS program, while the right quadrant shows the results from the DAPC program.

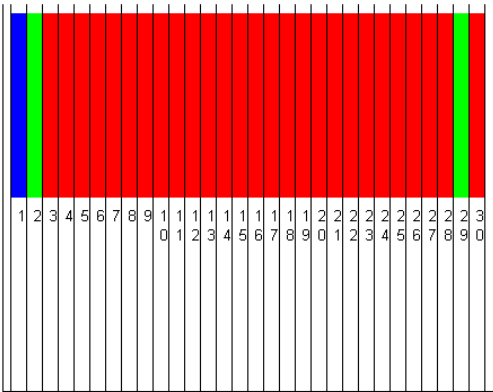
Population structure



Population structure
Amazon river

BAPS

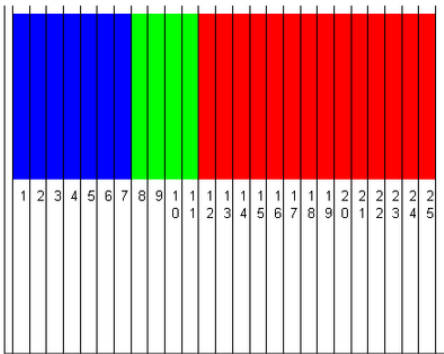
Eizirik et al., 2000
Panthera onca



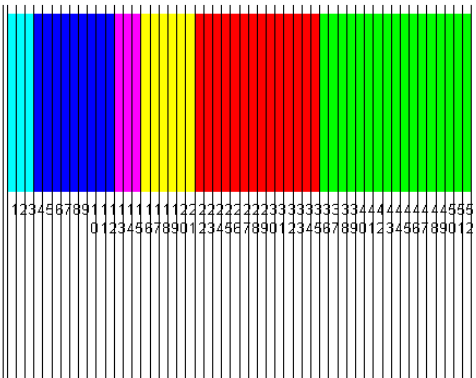
Fairley et al., 2002
Anopheles aquasalis



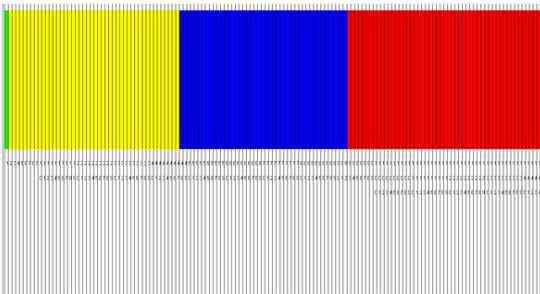
Gibbs et al., 2018
Bothrops atrox



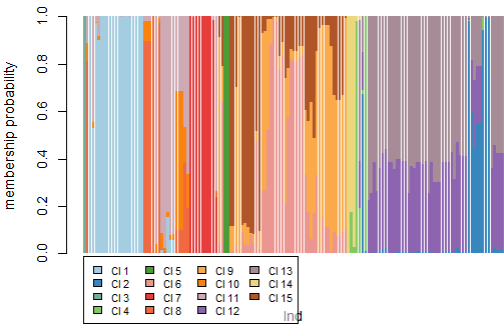
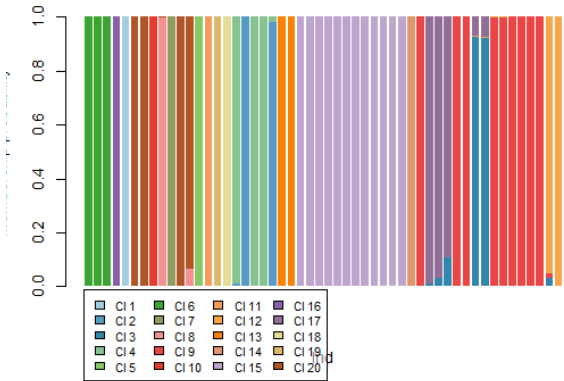
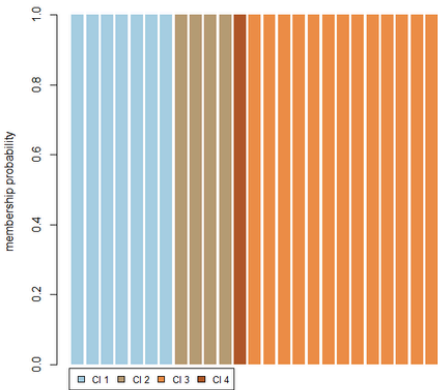
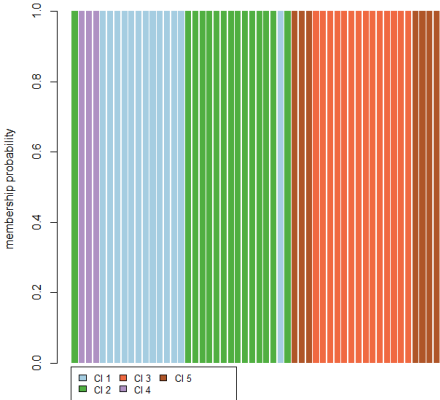
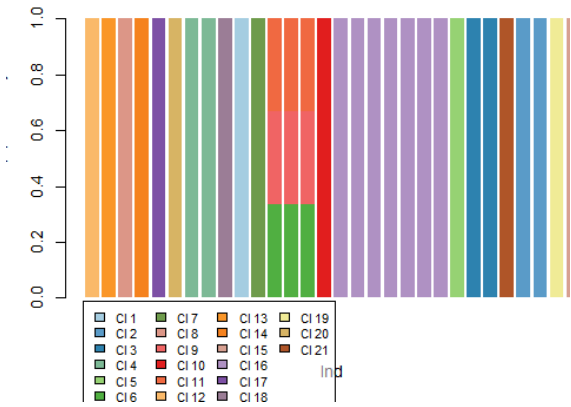
Guimarães et al., 2021
Marmosops pinheiroi, *M. woodalli* and *M. marina*



Machado et al., 2019
Hylaeamys megacephalus



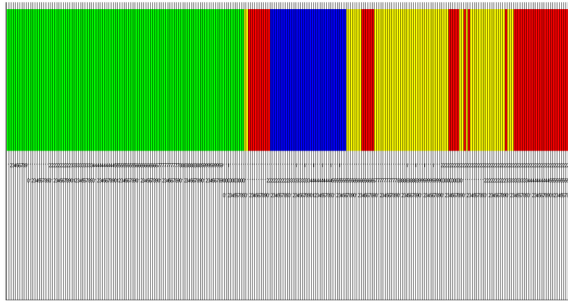
DAPC



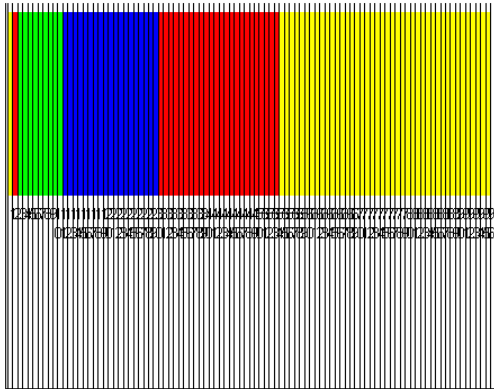
Population structure
Amazon river

BAPS

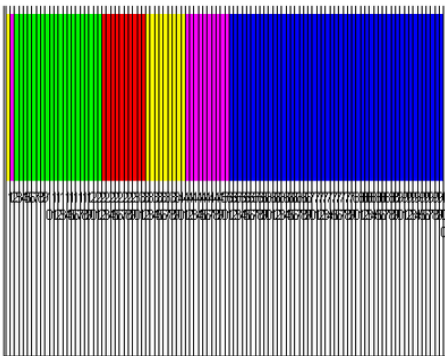
Marques-Souza et al.,
2019
Loxopholis osvaldoi



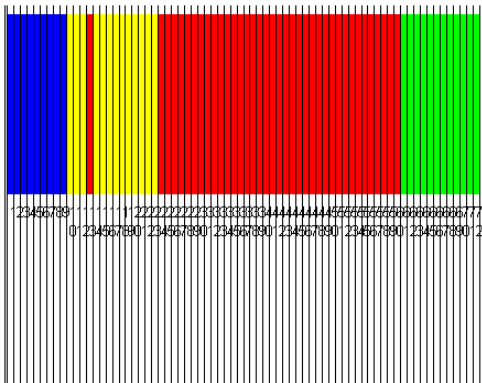
Moura et al., 2020
Arremon taciturnus
taciturnus, *Arremon*
taciturnus nigrirostris



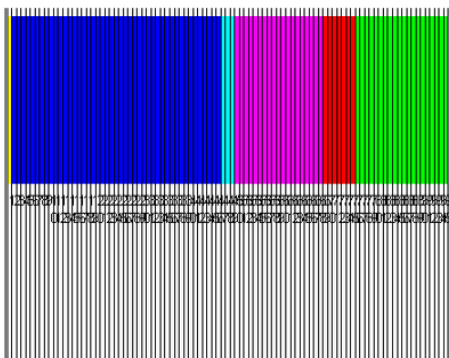
Pedro, Uezu and
Sallum, 2010
Anopheles triannulatus



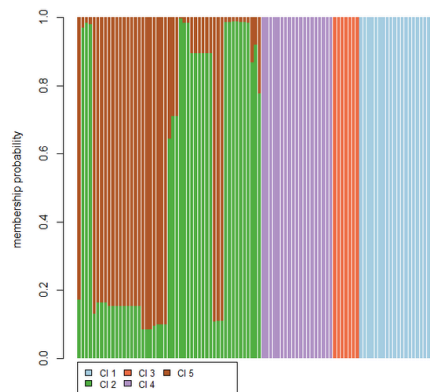
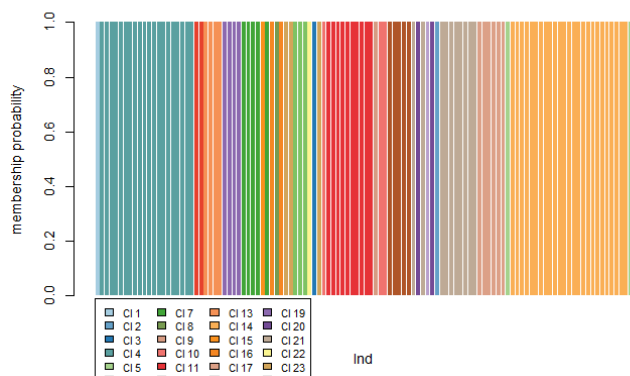
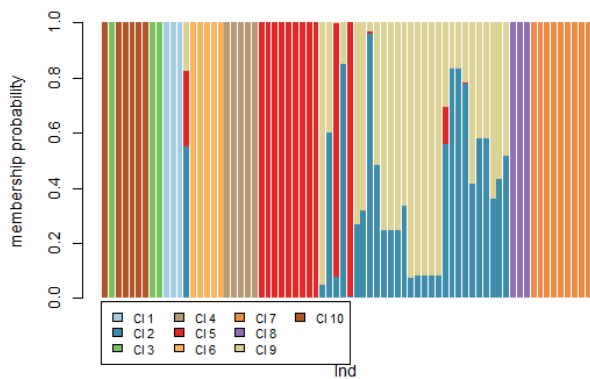
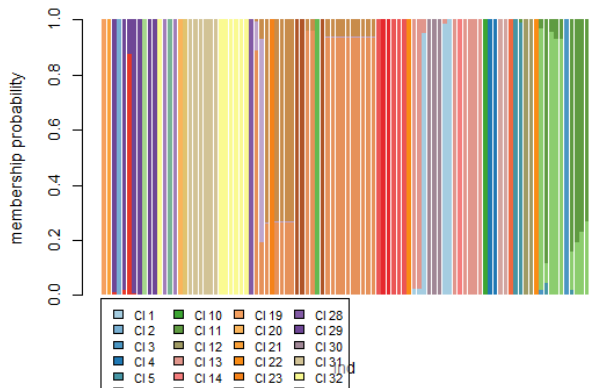
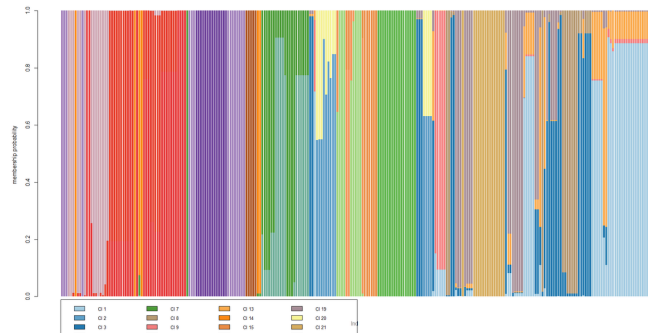
Pedro and Sallum, 2009
Anopheles darlingi



Santos et al., 2022
Uranoscodon superciliosus



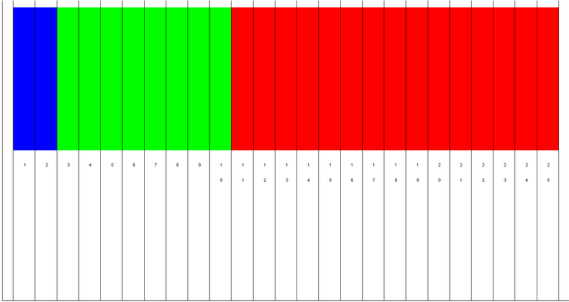
DAPC



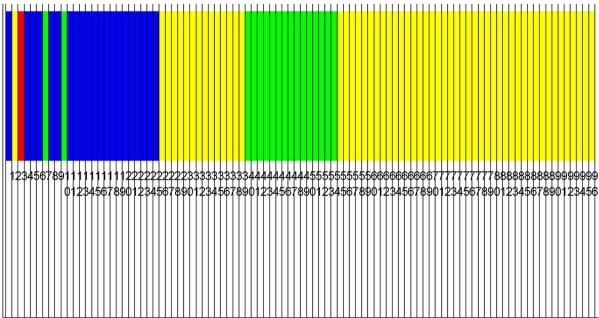
Population structure
São Francisco river

BAPS

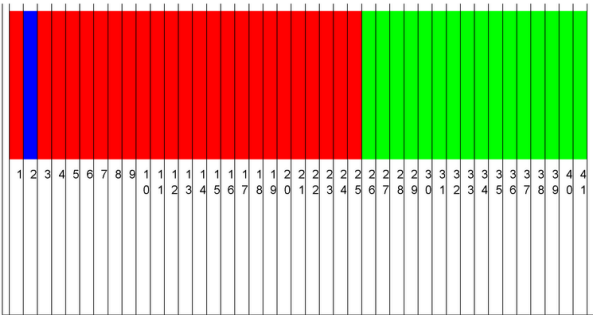
Corbett et al., 2020
Phacellodomus rufifrons



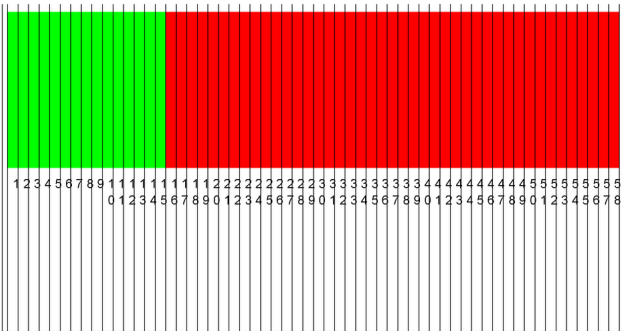
Coutinho-Abreu et al., 2008
Lutzomyia longipalpis
s.l.



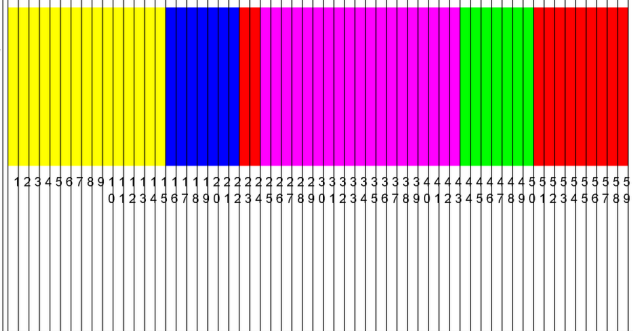
Di Nizo et al., 2024
Wiedomys pyrrhorhinos,
Wiedomys cerradensis



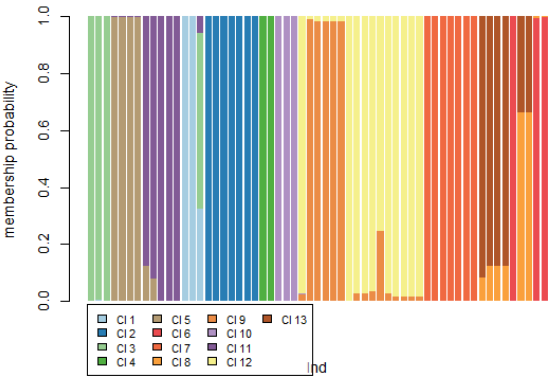
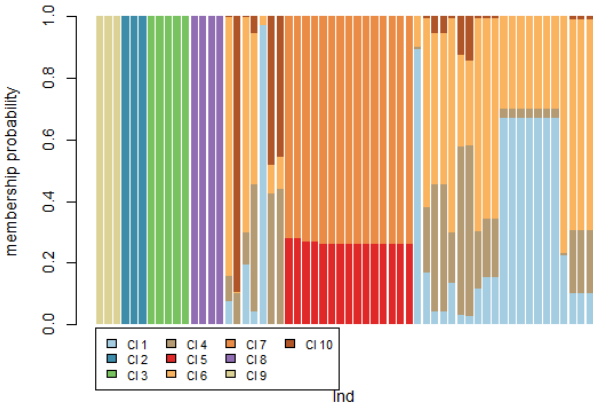
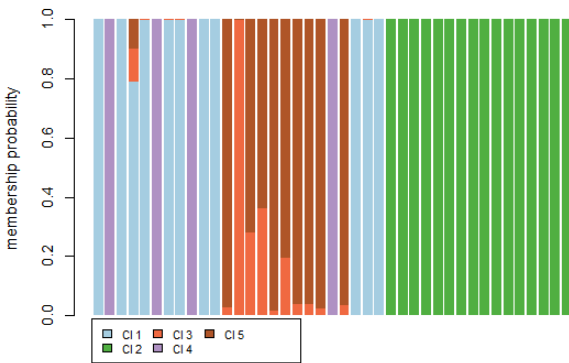
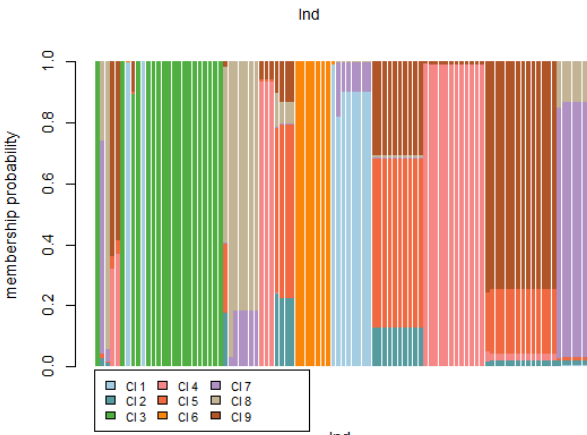
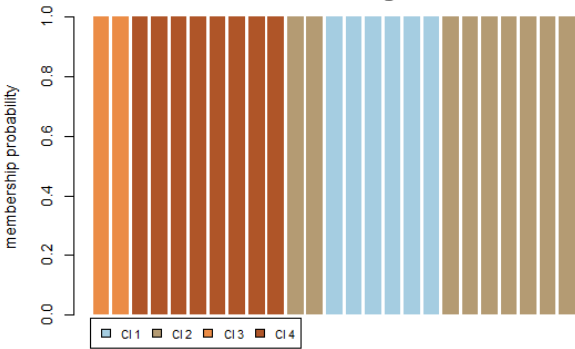
Do Nascimento et al., 2011
Bothrops atrox



Faria et al., 2013
Gracilinanus agilis



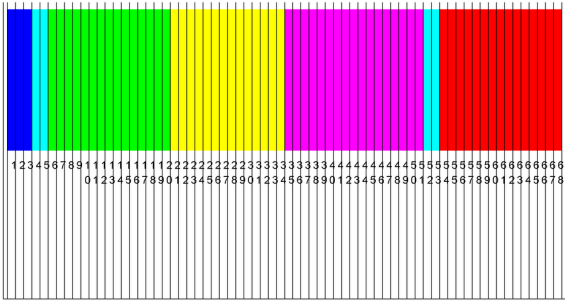
DAPC



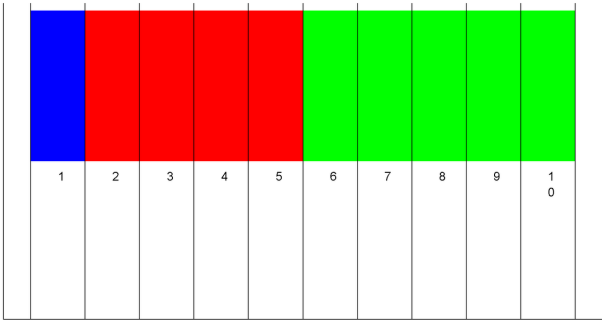
Population structure
São Francisco river

BAPS

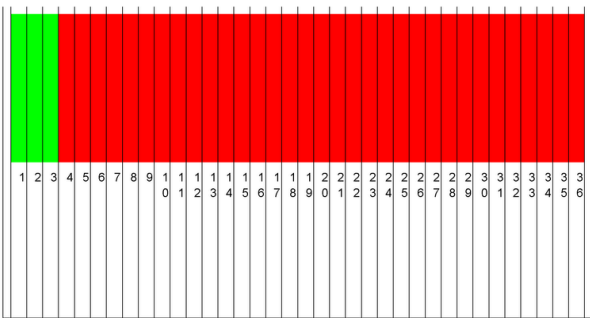
Fonseca et al., 2018
Phacellodomus rufifrons



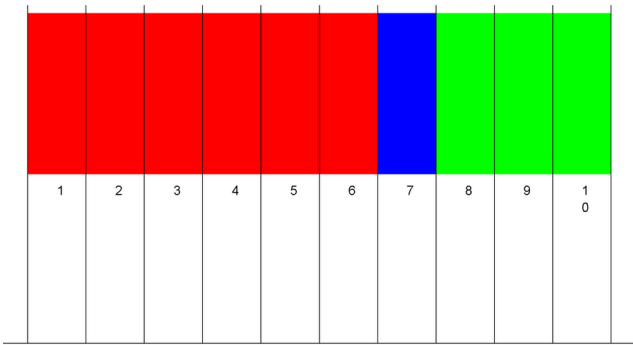
Nascimento et al., 2013
Thrichomys apereoides



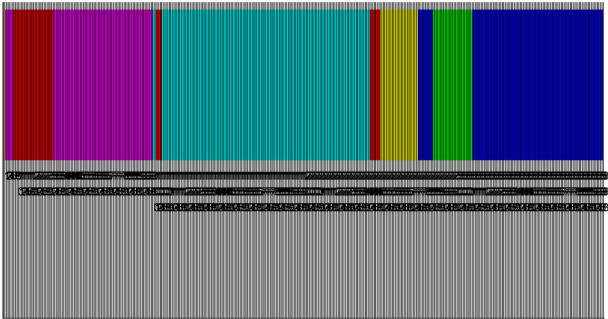
Nascimento et al., 2013
Thrichomys laurentius



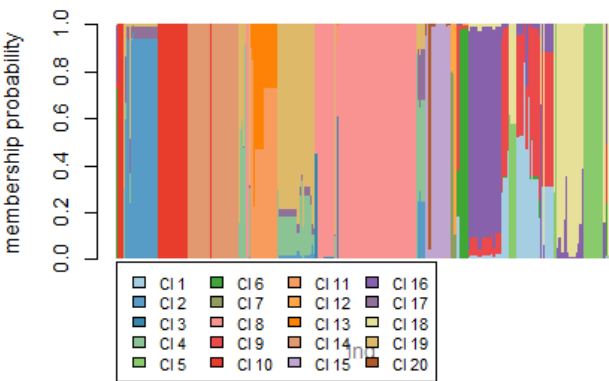
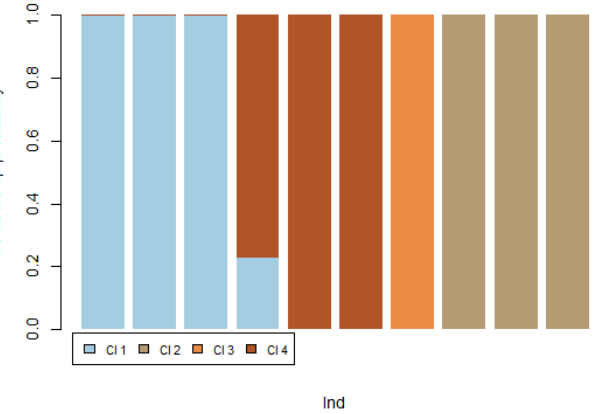
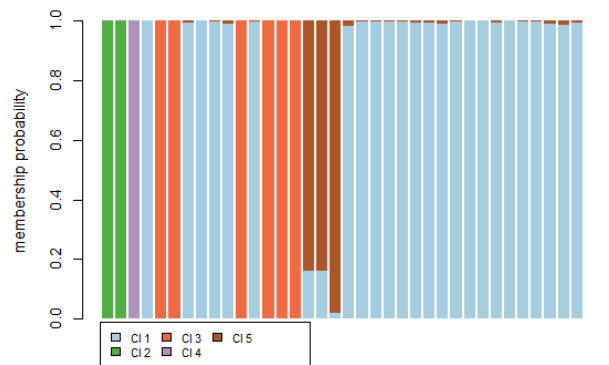
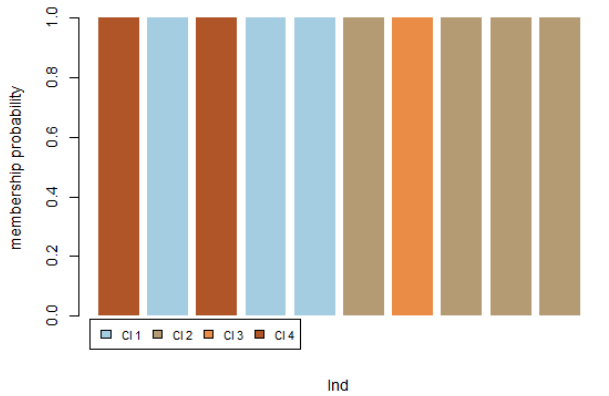
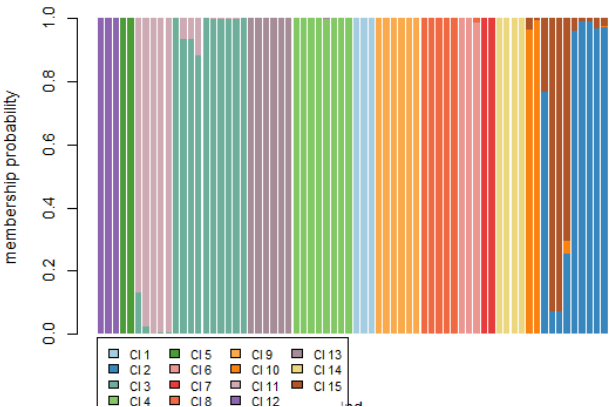
Nascimento et al., 2013
Thrichomys inermis



Oliveira et al., 2015
Cnemidophorus ocellifer



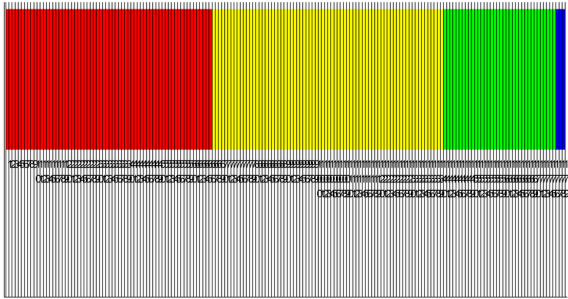
DAPC



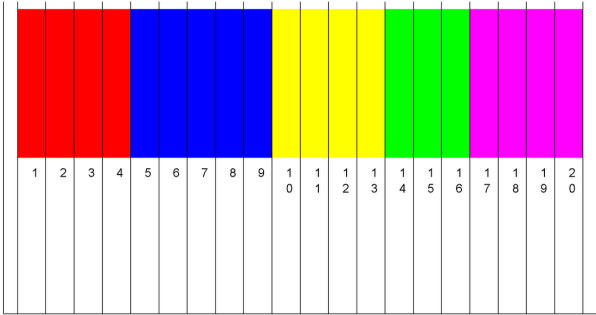
Population structure
São Francisco river

BAPS

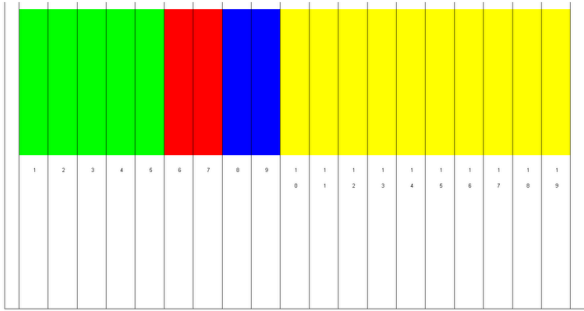
Oliveira et al., 2018
Dermatonotus muelleri



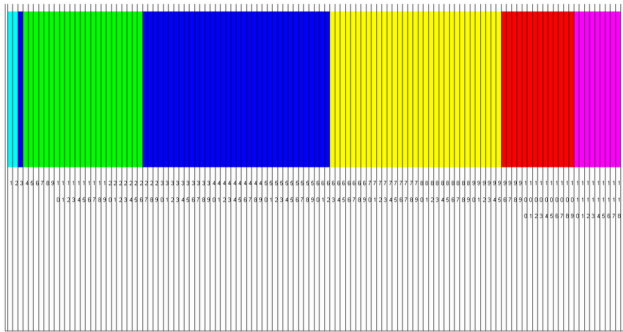
Passoni, Benozzati, Rodrigues and 2008
Eurolophosaurus divaricatus,
Eurolophosaurus amathites,
Eurolophosaurus nanuzae



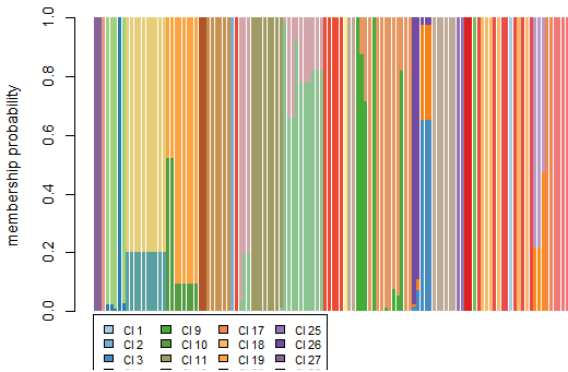
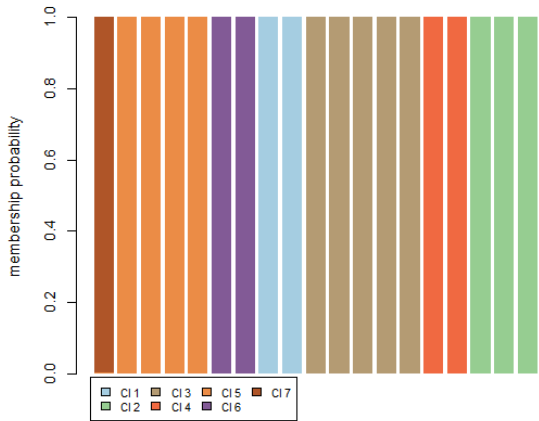
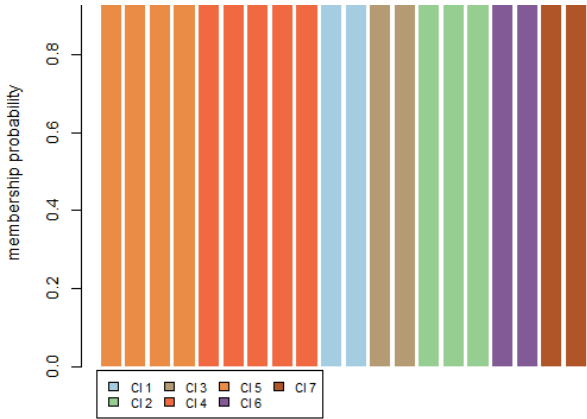
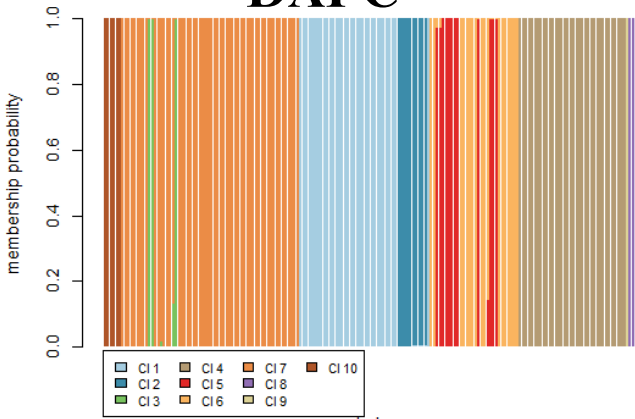
Siedchlag et al., 2010
Calyptommatius leirolepis



Werneck et al., 2015
Tropidurus semitaeniatus



DAPC



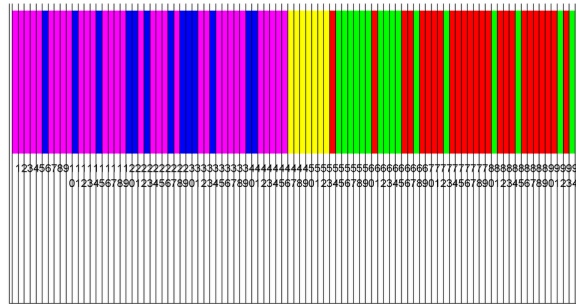
Population structure

Doce river

BAPS

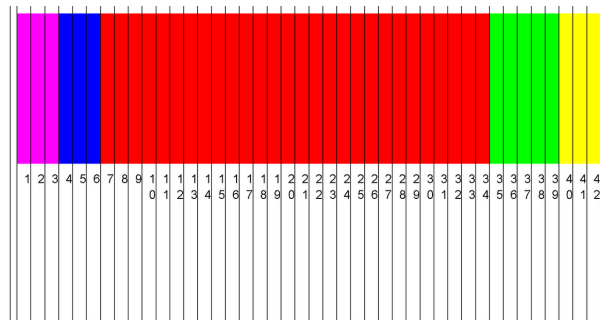
Menezes et al., 2016

Scinax eurydice



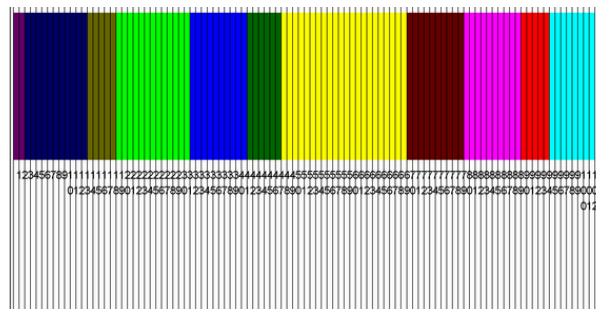
Pellegrino et al., 2005

Gymnodactylus darwinii
complex



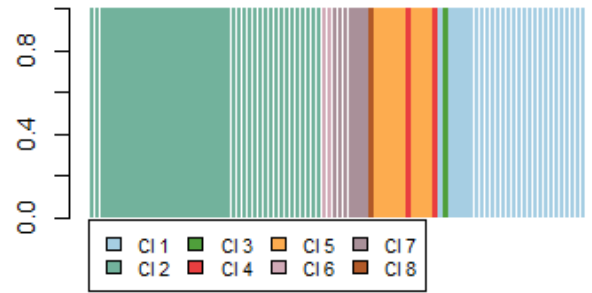
**Santos, Scherrer and
Loss, 2018**

Miobantia fuscata



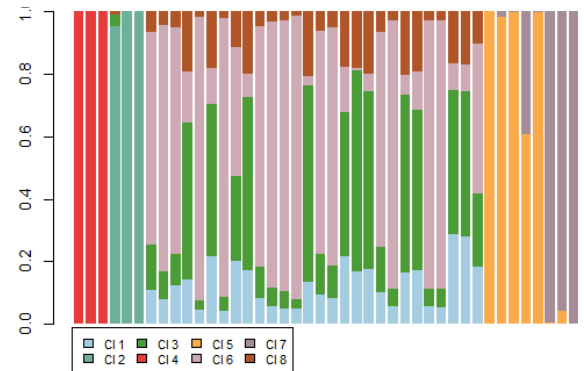
DAPC

membership probability



Ind

membership probability



Ind

membership probability

