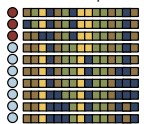
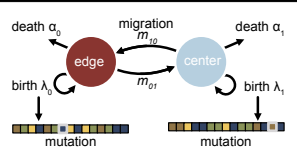


# A.

Cell state + sequences

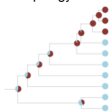


# State-Dependent Evolutionary Model (SDevo)



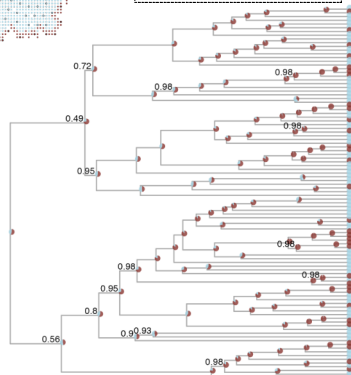
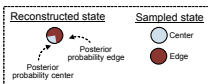
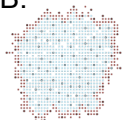
# Output

- Tree topology + timing

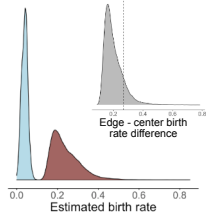


- Ancestral state reconstruction
- Parameter estimation  $\lambda_e, \lambda_c, \alpha_e, \alpha_c, m_{01}, m_{10}$

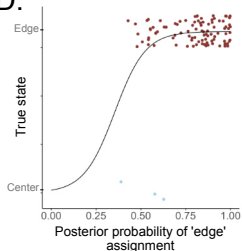
# B.



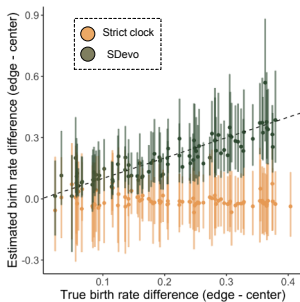
# C.



# D.



# E.



# F.

