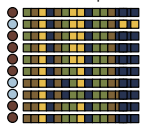
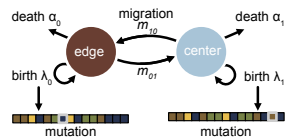


A.

Cell state + sequences

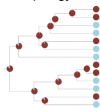


State-Dependent Evolutionary Model (SDevo)



Output

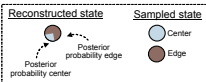
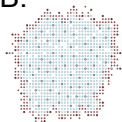
• Tree topology + timing



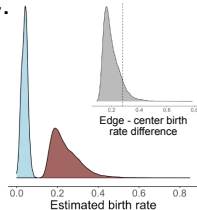
• Ancestral state reconstruction

• Parameter estimation
 $\lambda_e, \lambda_c, \alpha_e, \alpha_c, m_{01}, m_{10}$

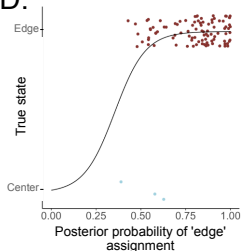
B.



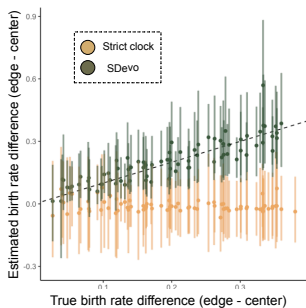
C.



D.



E.



F.

