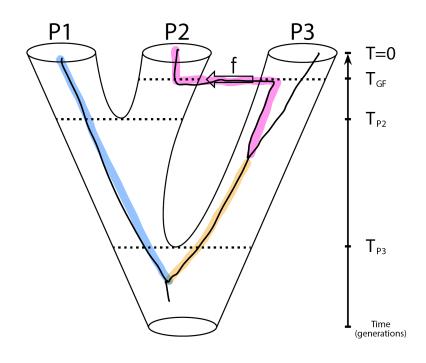
C, = CP2, 13) 15+LS



E [ CARRA] - E[[BAGA] = 5. CI-CI-1/2N] TP3-TGF). (CTP3 +2N) - (TGF+E))

ECCBAAA, 7 = 5. (1-C1-1/2N) TP3-TGF). CTP3+2N)

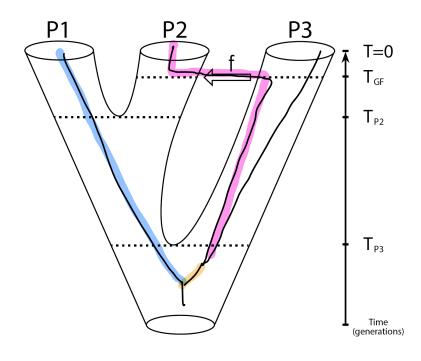
E[CABAA, ] = F. CI-CI-1/2N)TOS-TOF). CTGF + E)

ECCBAAA, ] - ECCABAA, ] = 5. CI-CI-1/2N) TP3-TGF). CCTP3 +2N) - CTGF+E))

ECCBARA, J-ECCHOBA, J=5. CI-CI-1/2N JOS-TOF). CTGF+E)

ECCADAA, 3-ECCBABA, 3 = F. CI-CI-VAN)TOS-TOF. CTOF + E)

C1= C12, P37 17+ ILS



ECCBABALT = F. &

ECCABBAZJ-ECCBABAZJ = F. CI-1/2N) TP3-TGF. C1/3). (2N)

ECCBAAA27 = F. CI-1/2N)TP3-TGF. C1/3). CTP3+2N/3 +2N)

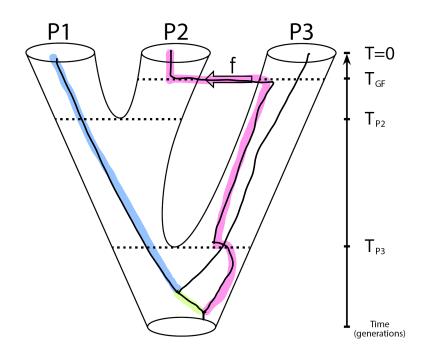
ECCABAA2] = 5 . CI - 1/2N) TAS-TOF. C1/5) . CTP3 + 21/3)

ECCBARQ ] - ECCABAR 2 ] = F. CI-1/2N) TP3-T6F. C1/3). C2N)

ECCBARAJ- ECCABBAJ = F. CI- YANDTP3-TGF. CV3). CTp3+2N/3)

ECCABAA 3- ECCBAGA 3 = 5. C1-1/2NJTOS-TOF. C1/5). CTP3+2N/3)

C3 = CPI, PS) 1 5+ ILS



ECCABBAS ] = F . Q

ECCBABA3] = F . CI-1/2NJT03-TGF . C1/3) . C2N)

ECCABBAS] - ECCBABAS] = - F. CI-1/2N) TP3-76F. C1/3) . (2N)

E[LBAAA3]= 5. CI-1/2N) TP3-76F. C1/3). CTP3 + 2N/3)

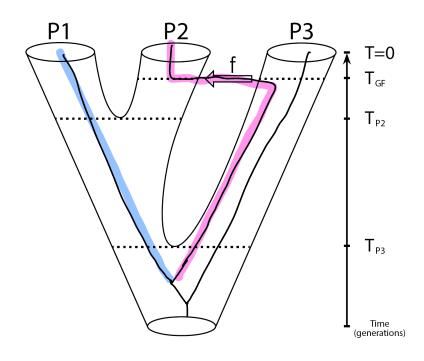
ELCABAA3 ] = F. CI-1/2N) TP3-76F. C1/3). CTP3 +2N/3 +2N)

ECCBARAS T - ECCABRAS T - F. CI-1/2N TOS- TOF . C1/3) - (2N)

ECCBARA, J-ECCABBA 3) = F. CI-YAN TIS-TOF. CIJO) · CTP3+2N/S)

ECCABAAS - ECCOMORS 3= 5. CI-1/2N)TOS-TOF. CUS). CT13+2N/3)

Cy = CP1, P2) 15+ ILS



ECCAPBAy ] - ELCBARAY ] = Q

E[LBAAAy]= F. CI-1/2N) TP3-76F. C1/3). CTP3 + 2N/3)

ECCABRAG ] = 5 . C1 - 1/2N) TP3-TGF. C1/3) · CTP3 + 21/3)

ECCBAAAy] - ECCABAAy] = &

E[CBAAA \_] - E[CABAA \_] = F. C(-1/2N) TP3-TGF. C(1/3). (Tp3+2N/3)

ECCABAA, 3- ECCBABAY 3 = F.C(-1/2N) TP3-TGF. (1/5). (Tps+21/3)

## ECBranch Lengths 1 F ]

ECYBAAA IF3 - FCYABBA IF3 = F. C2N + TGF - 4N/3C1-1/2N) TP3-76F ] ECYBAAA IF3 - ECYBABA IF3 = F. C2N + TGF - 4N/3C1-1/2N) TP3-76F]