chemotaxis (110) 20 20 strain strain AX4 rapgapB - tgrB1 tgrB1rapgapB - tgrC1 -AX4 L846F B1L846F tgrC1- rapgapB = 16 16 hours of AX4 development 12 -12 -8 -8 -4 -4 -8 12 16 20 8 12 16 20 hours of mutant development