reCAT Running Time Analysis

| RUNNING TIMES					
		Florian		ola_mES_2i	youngMPP
	#Cells	213		295	168
	#Genes	349		312	244
	TSP Corr				
Original		0.80 or 0.81	241.35s	347.22s	202.18s
Base 6:9	Step size: 1	0.792 or 0.81	86.12s	191.67s	46.99s
	Step size: 2	0.797 or 0.795	51.95s	113.79s	32.59s
	Step size: 3	0.79 or 0.81	41.37s	82.21s	28.39s
	Step size: 5	0.80 or 0.798	33.42s	57.25s	24.10s
	Step size: 5-single thread		52.98s		
Note: Experiments performed using 4 threads, i7-6700k @ 4.00 GHz					

➢ With step size = 5 on the Florian dataset, there appears to be no significant decrease in the performance of reCAT, comparing the TSP correlation value as well as the bayes score plots. The running time is reduced from 6 mins to less than 1 min on a DESKTOP machine.
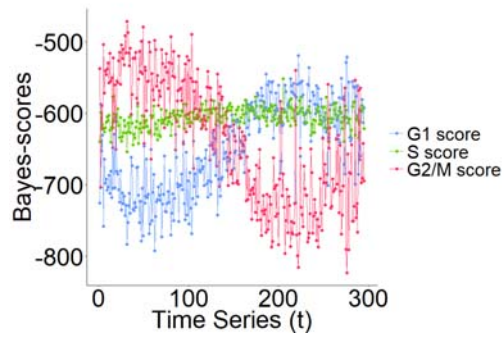
Florian Original (Step 1 Base (7:10))	Florian Step 1 (Base 6:9)
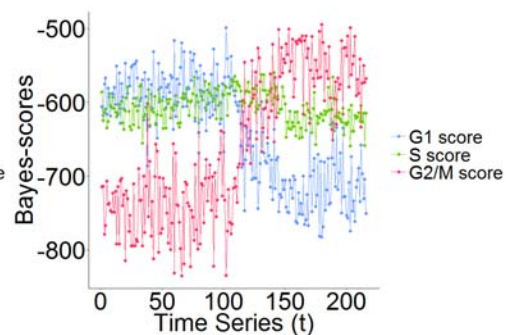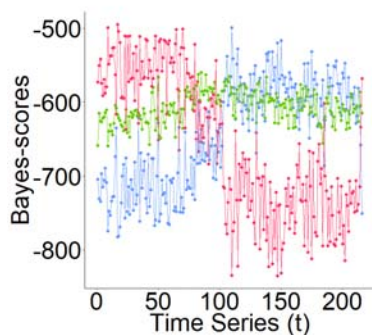
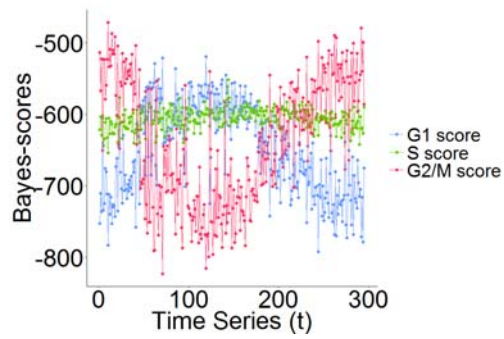| Florian Step 3(Base 6:9)	Florian Step 5 (Base 6:9)
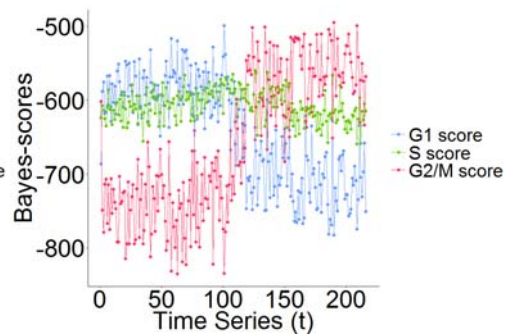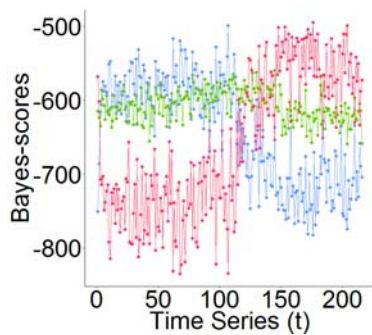
Ola_mES_2i Original (Step 1 Base (7:10))	Ola_mES_2i Step 1 (Base 6:9)
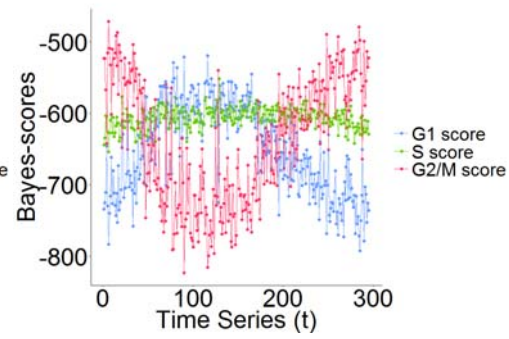
Ola_mES_2i Step 3 (Base 6:9)	Ola_mES_2i Step 5 (Base 6:9)