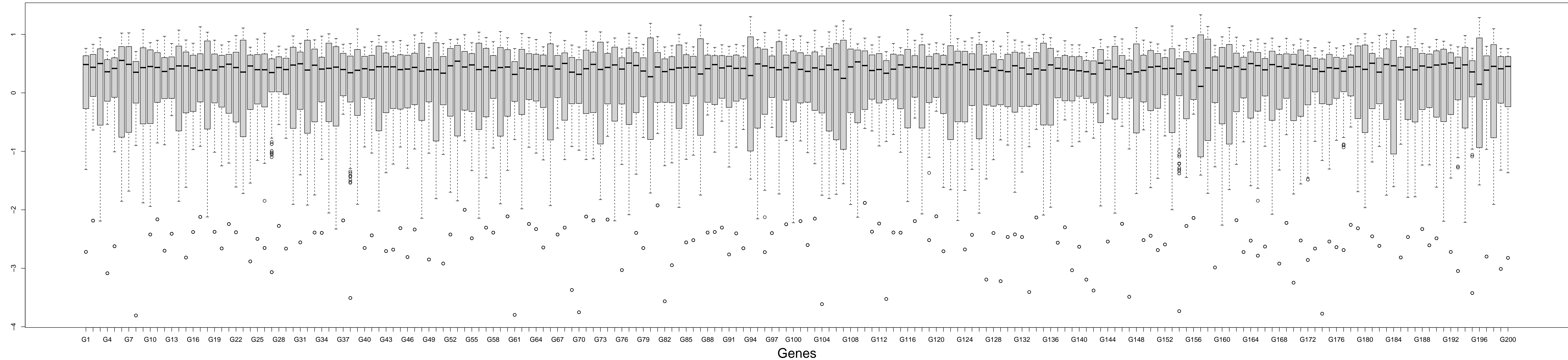
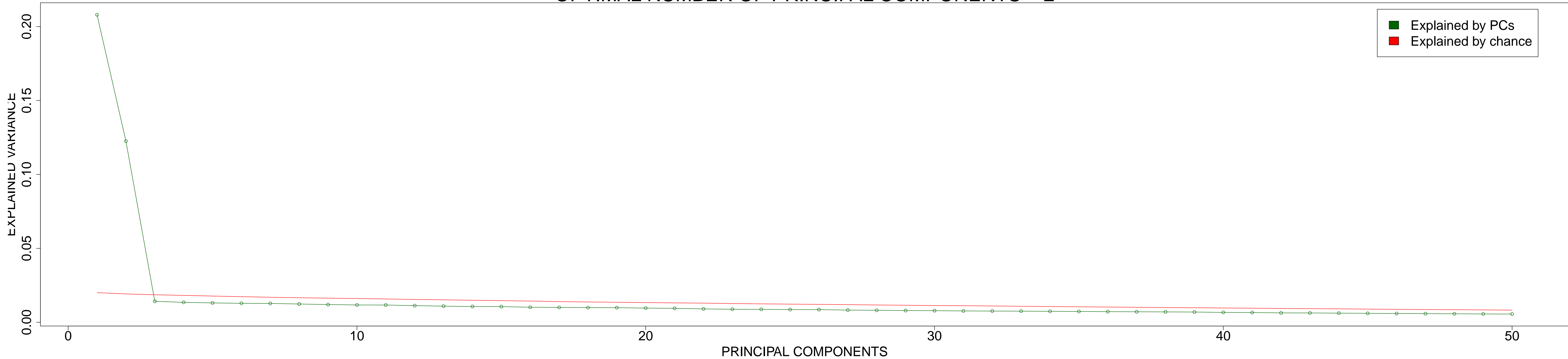
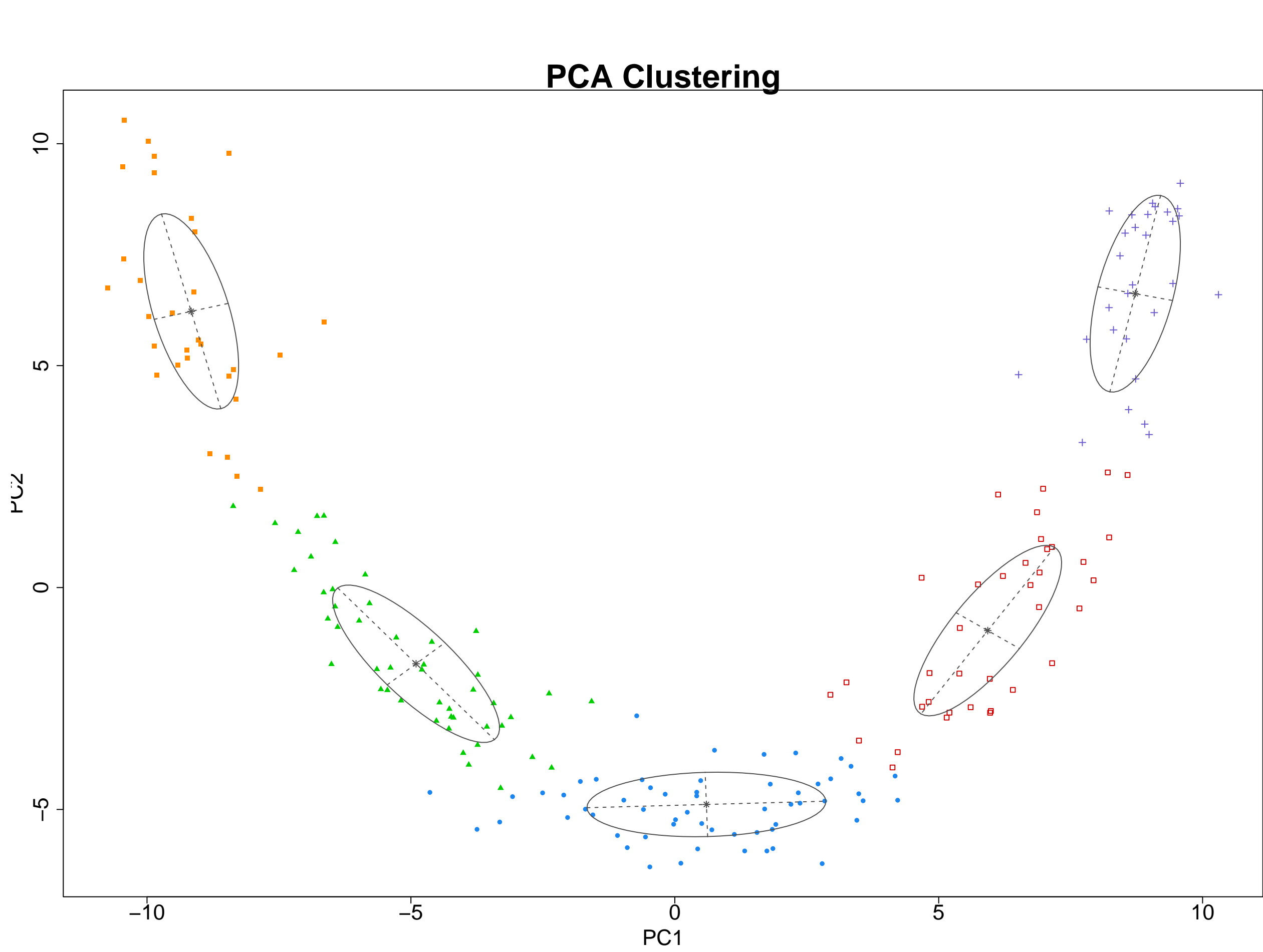
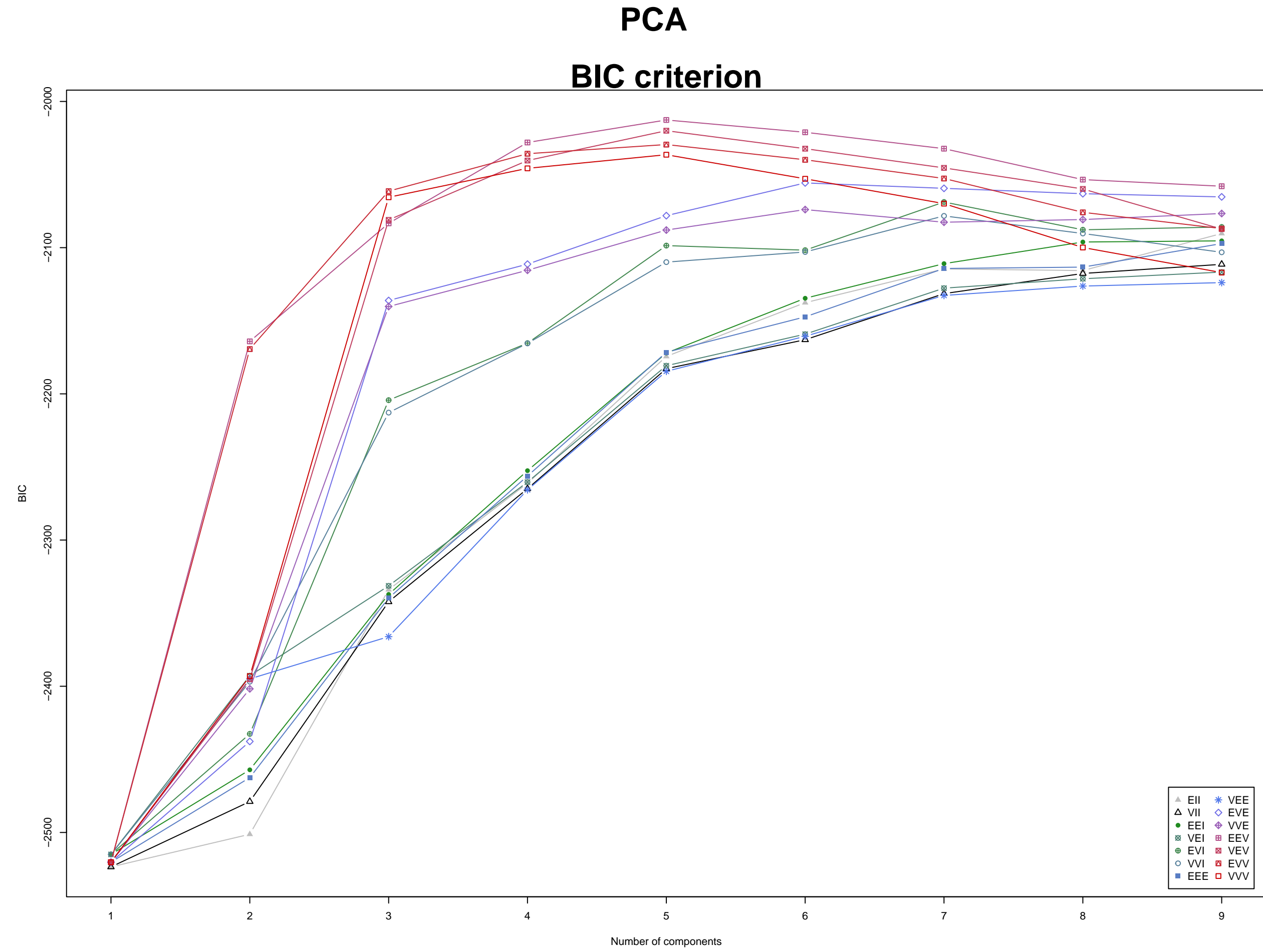
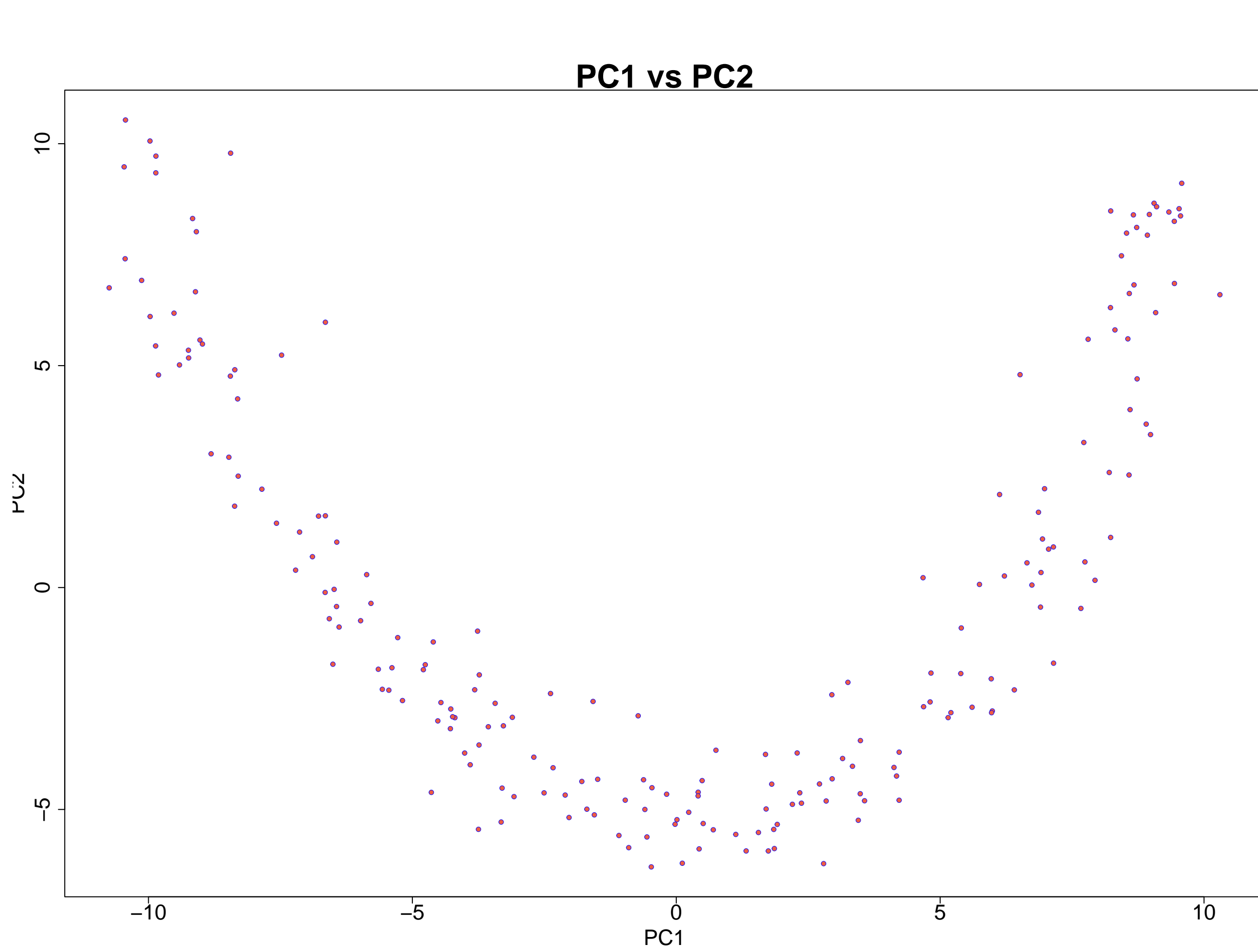


Barplot of Centered and Scaled Dataset 1

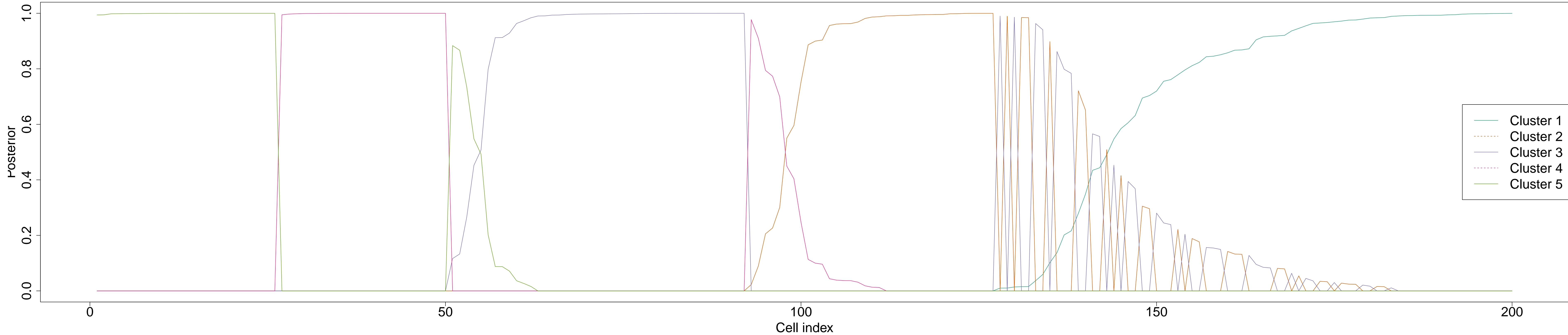


# OPTIMAL NUMBER OF PRINCIPAL COMPONENTS = 2



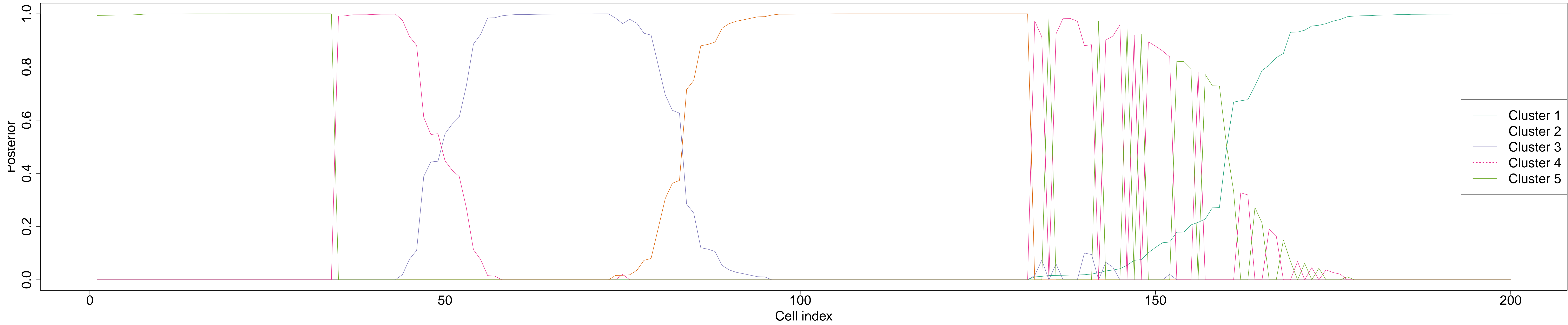


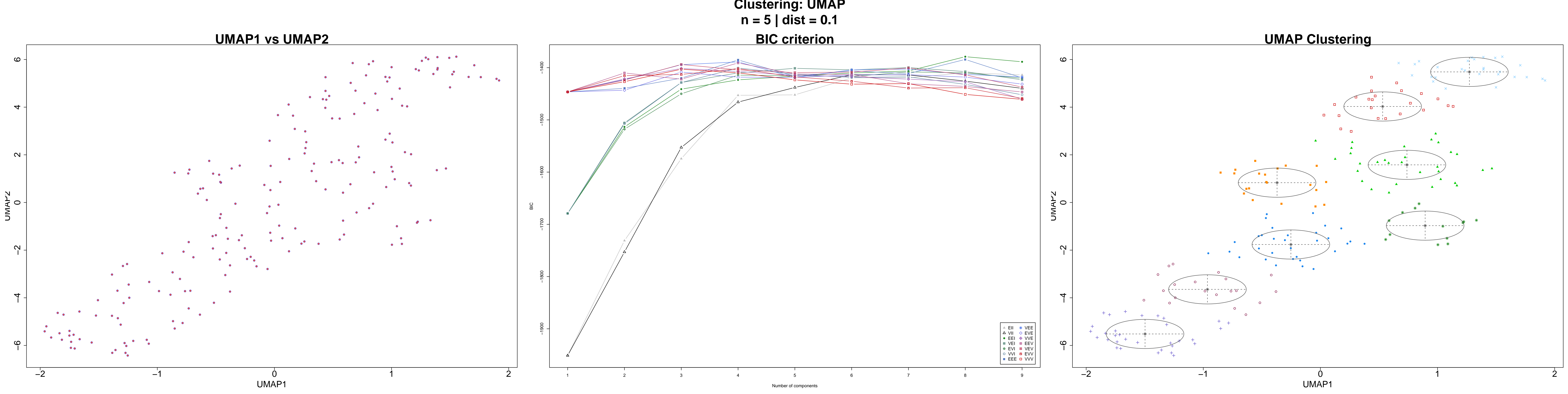
PCA Trajectory plot





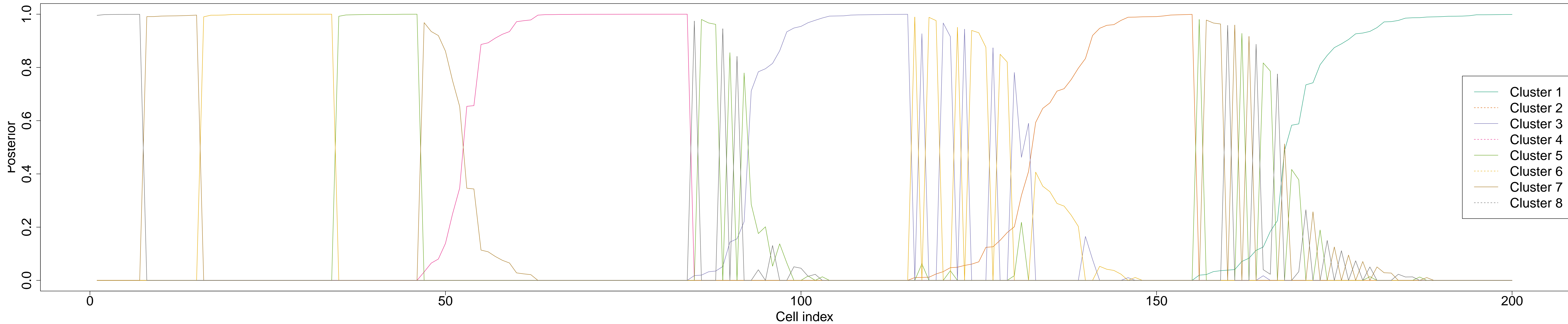
# UMAP Trajectory plot



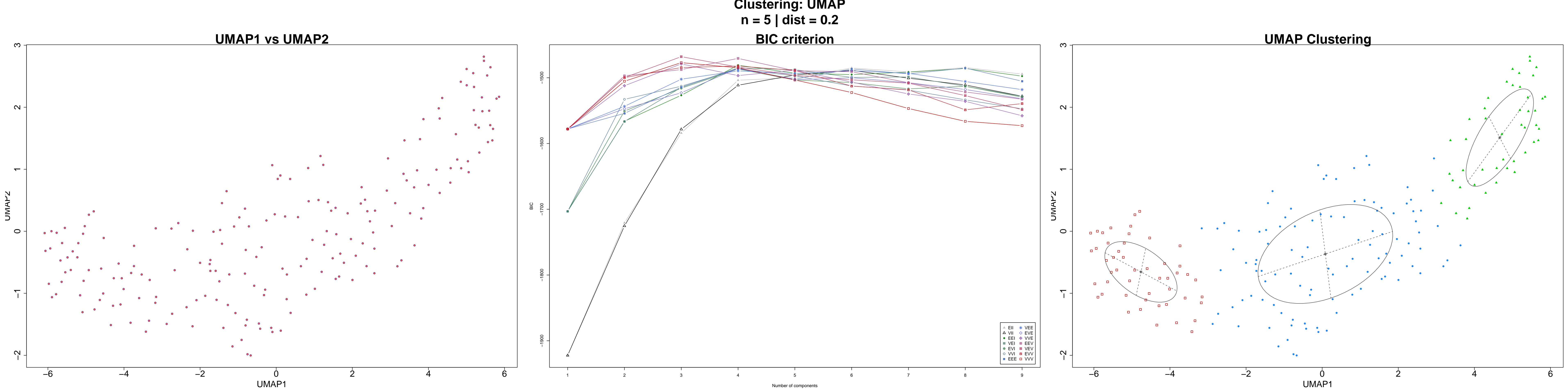




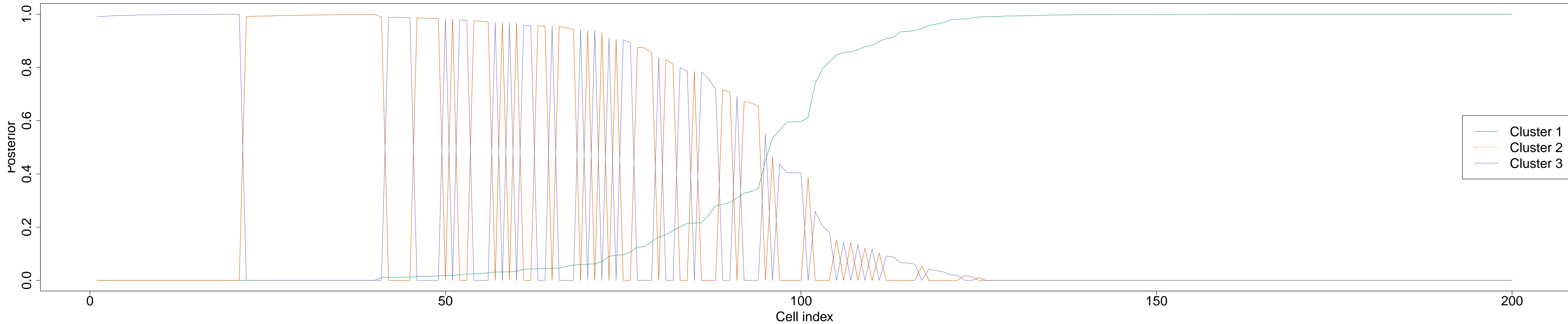
# UMAP Trajectory plot

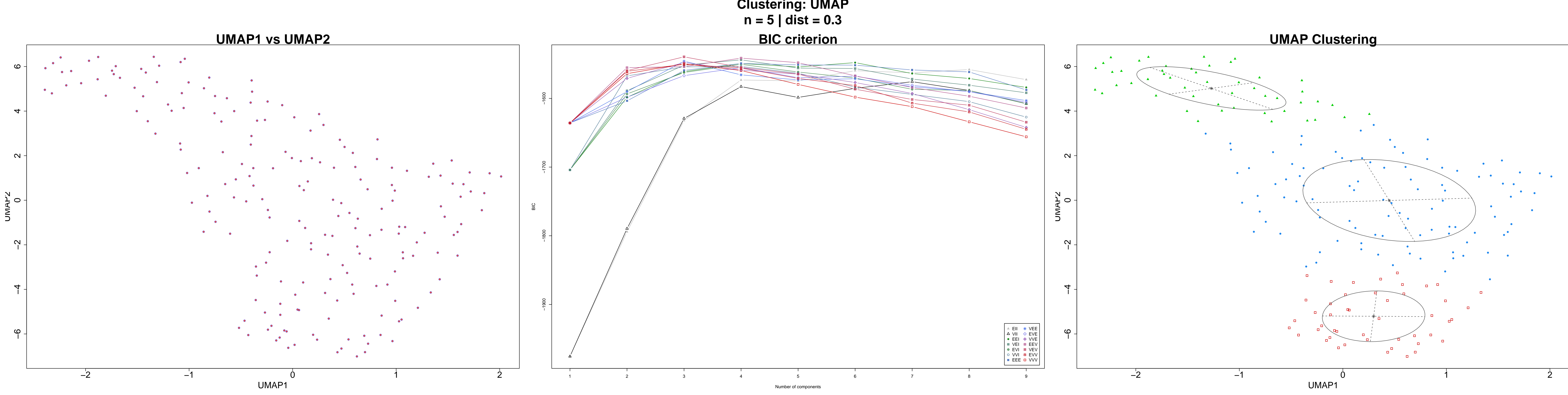




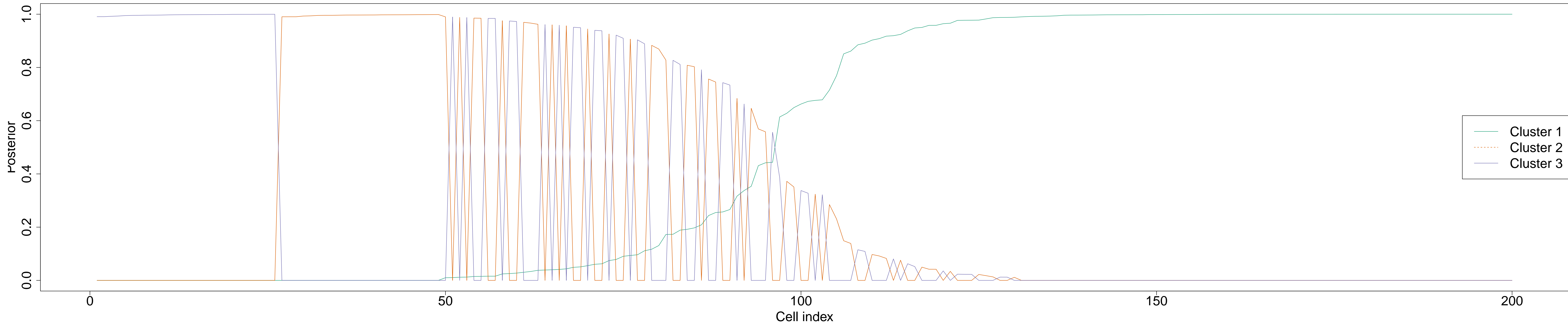


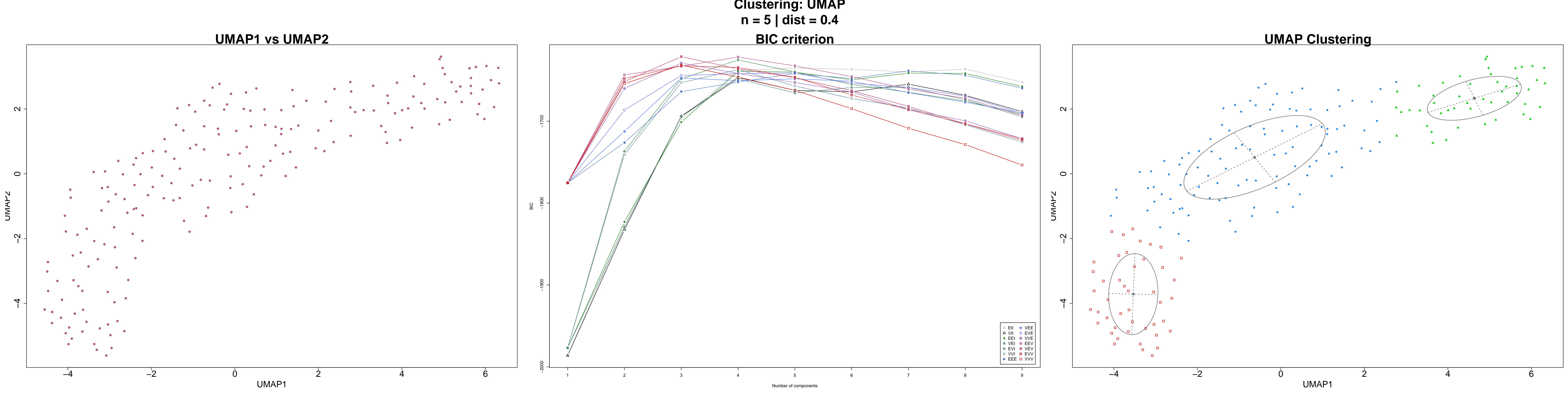
# UMAP Trajectory plot



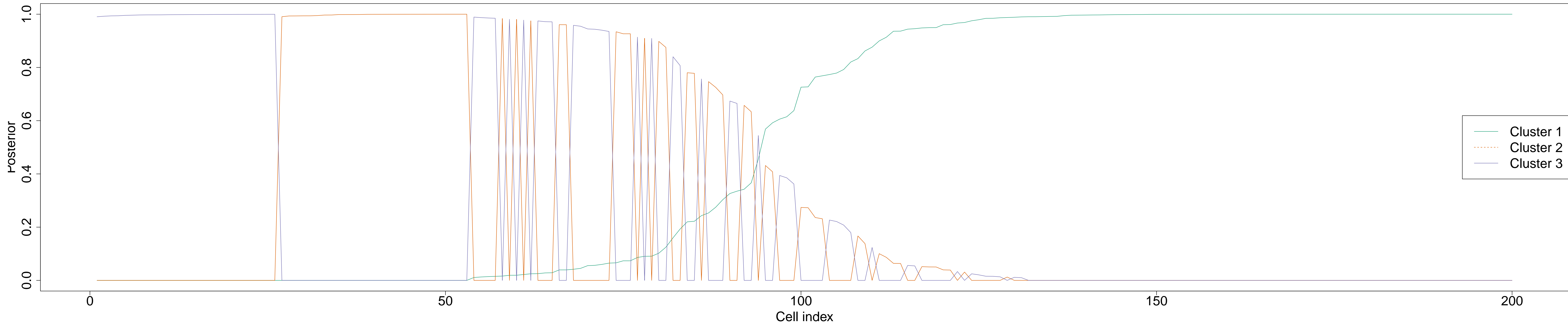


# UMAP Trajectory plot

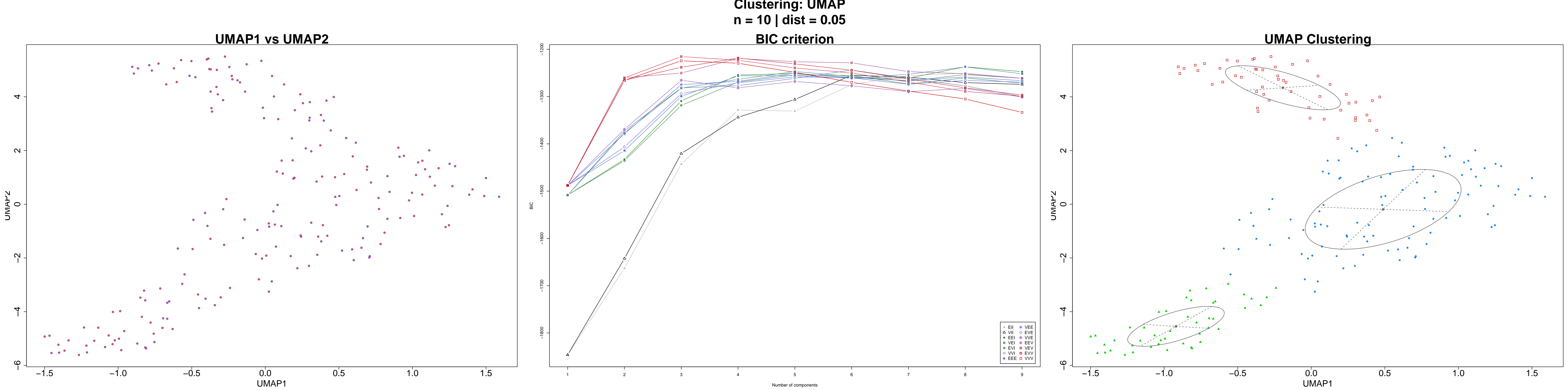




UMAP Trajectory plot

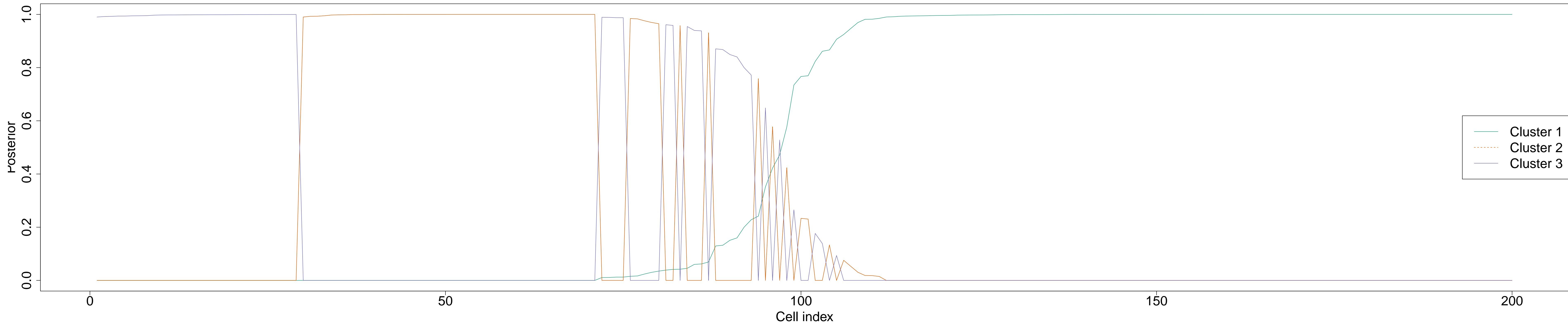


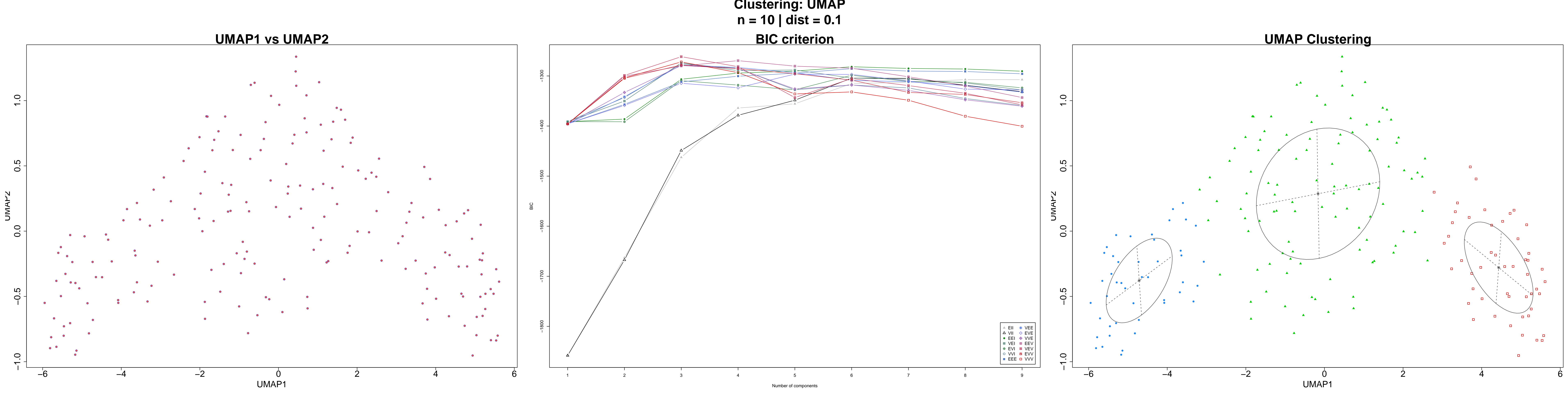




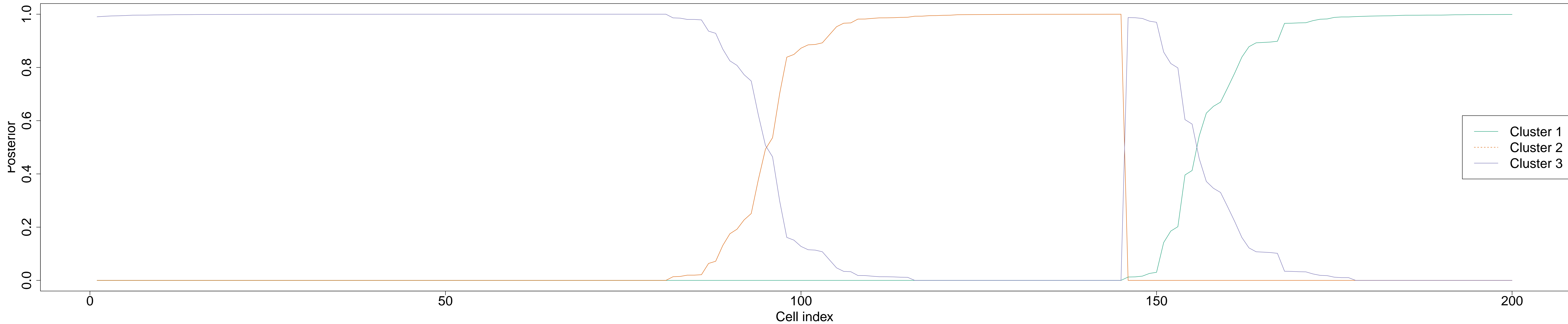


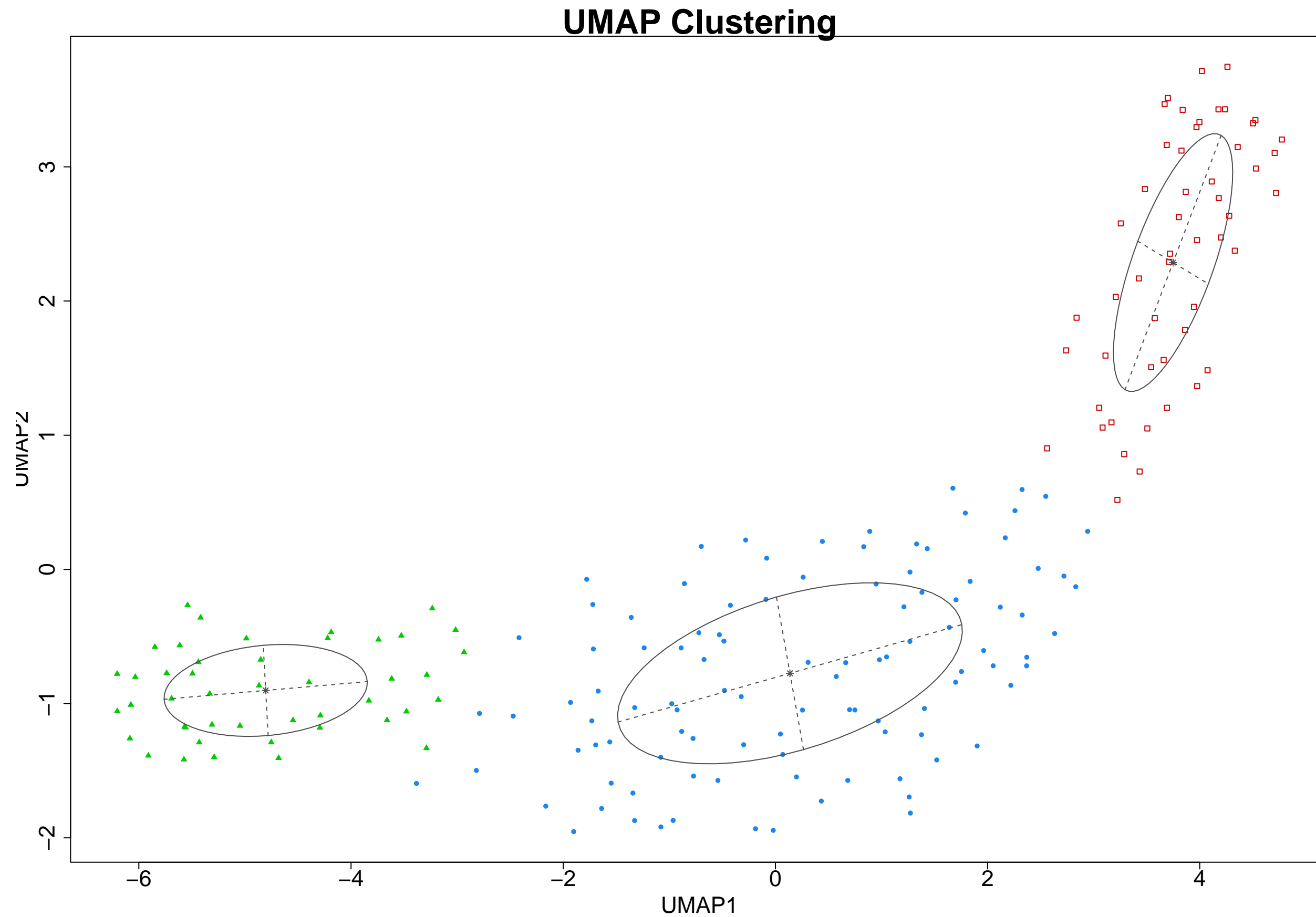
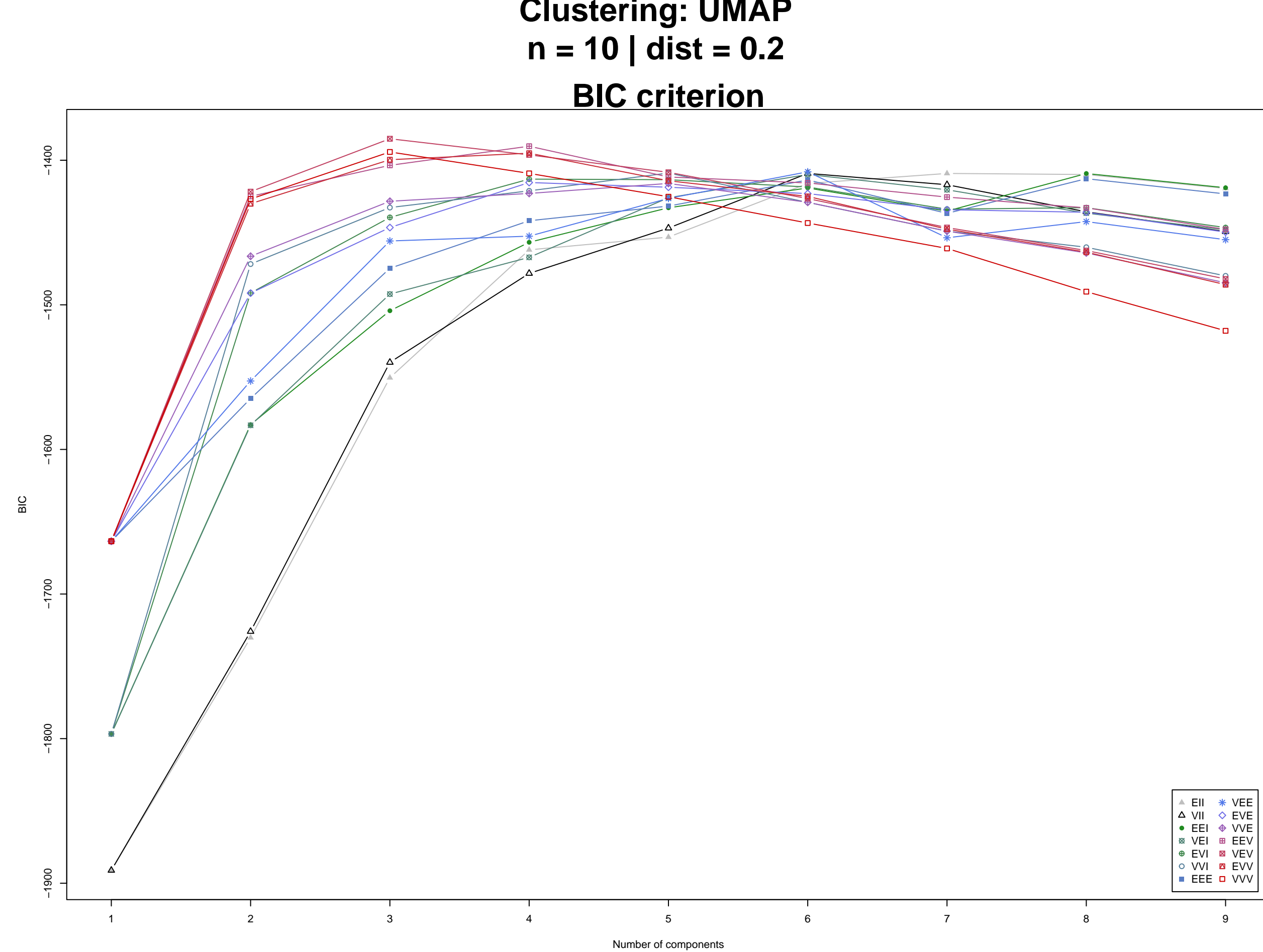
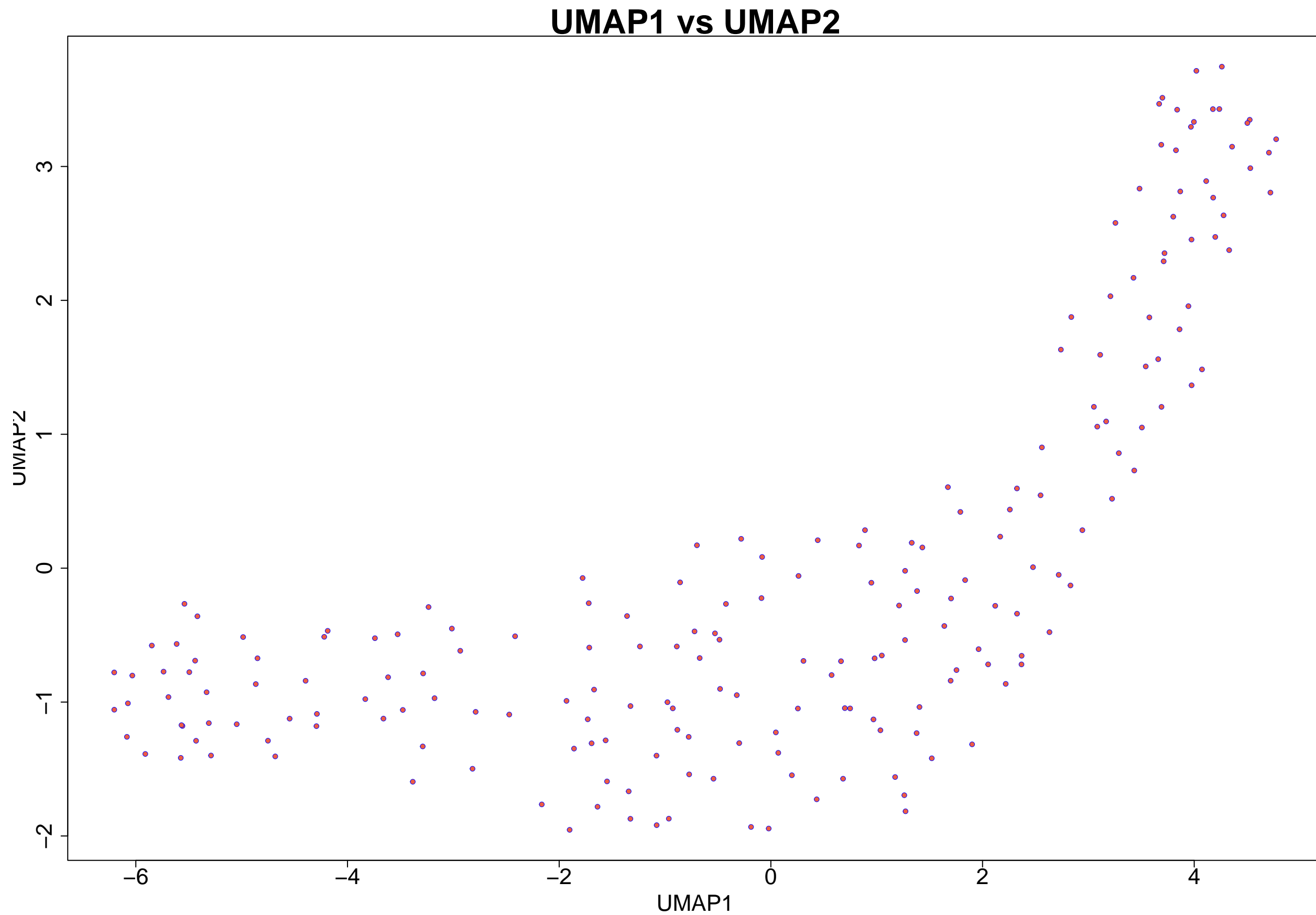
UMAP Trajectory plot



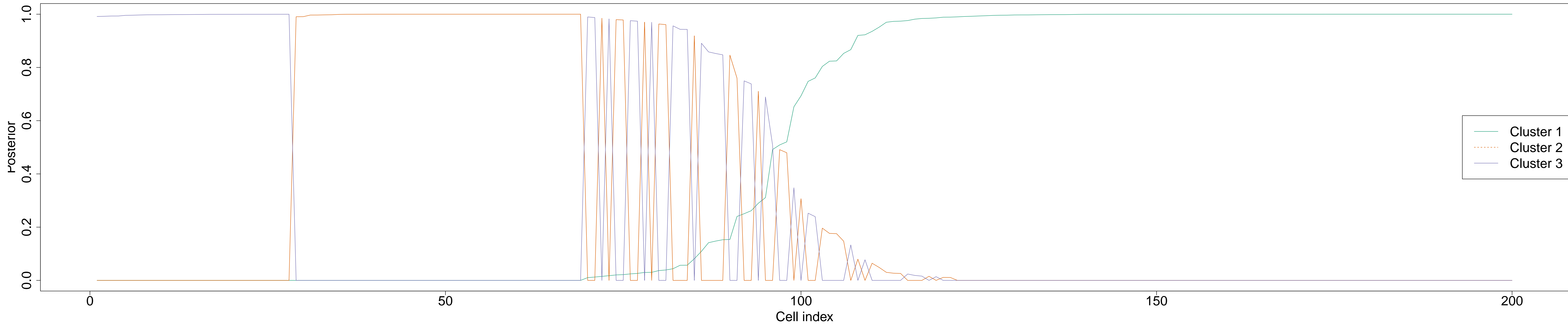


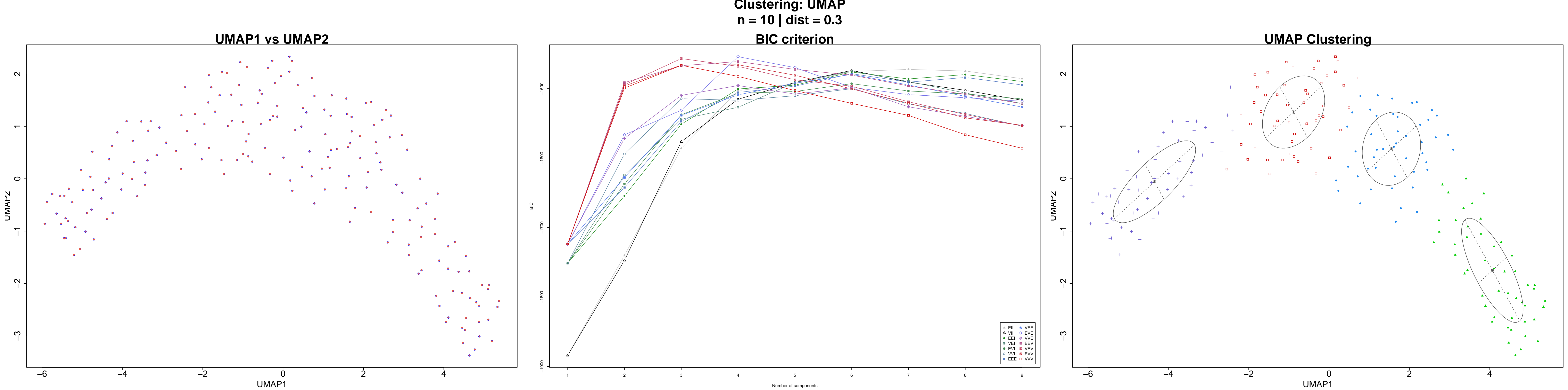
# UMAP Trajectory plot



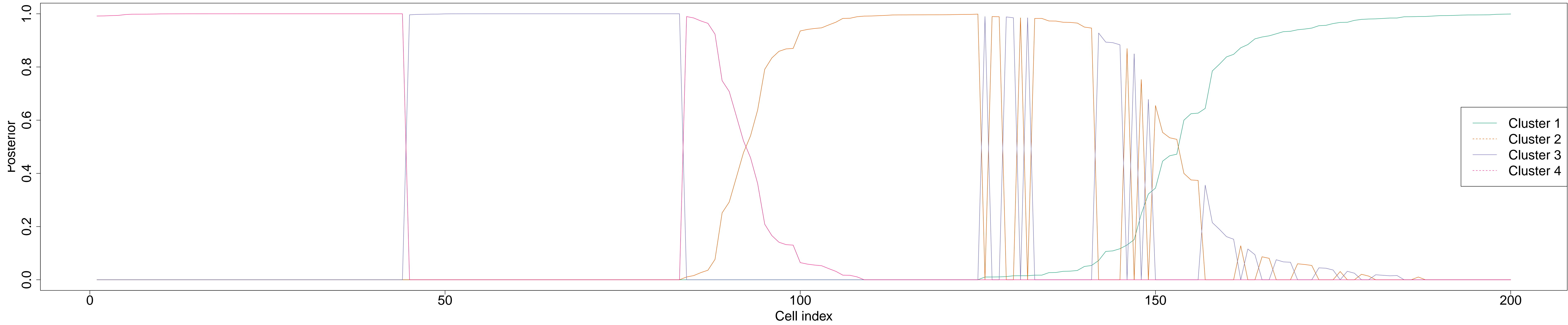


UMAP Trajectory plot



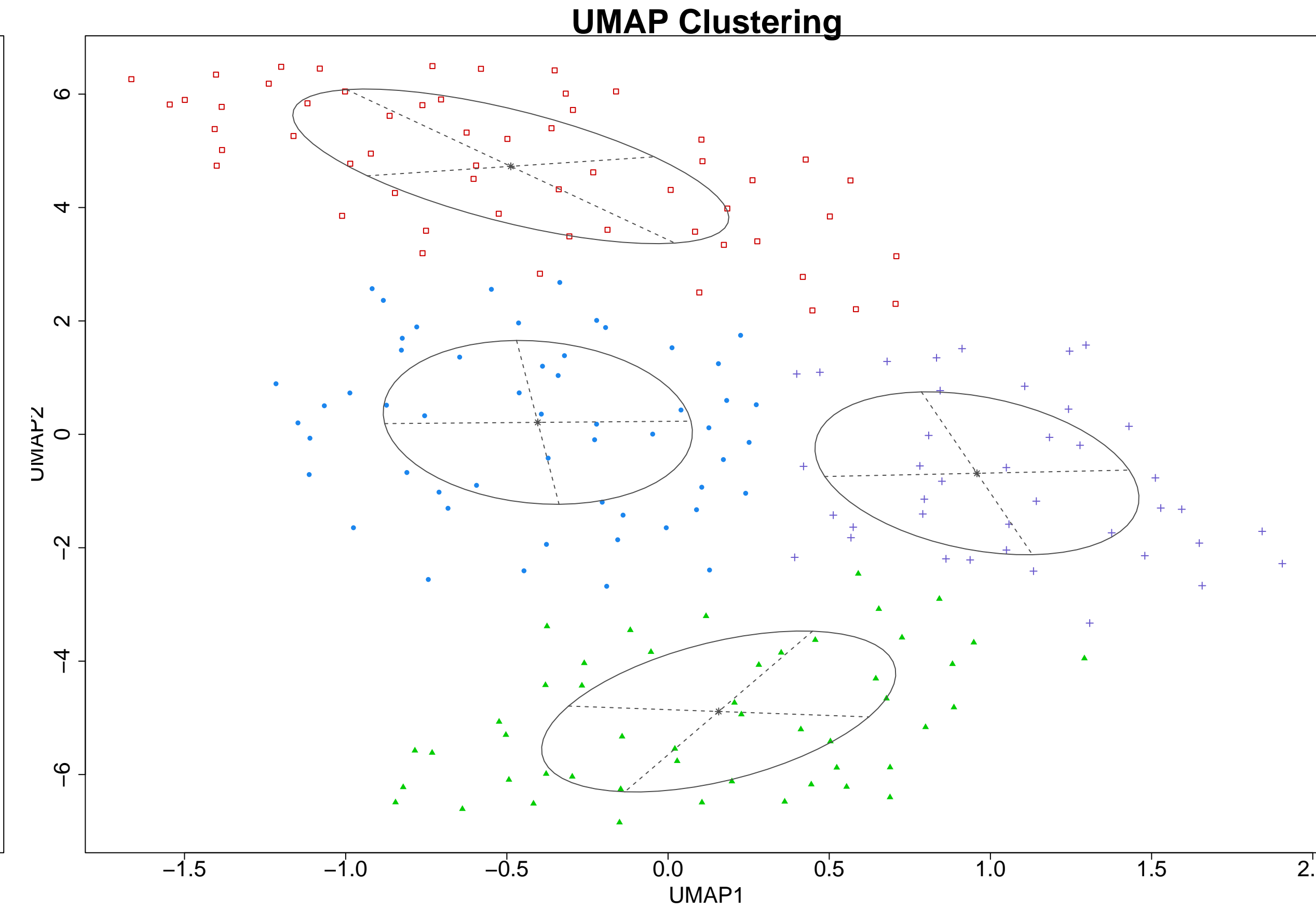
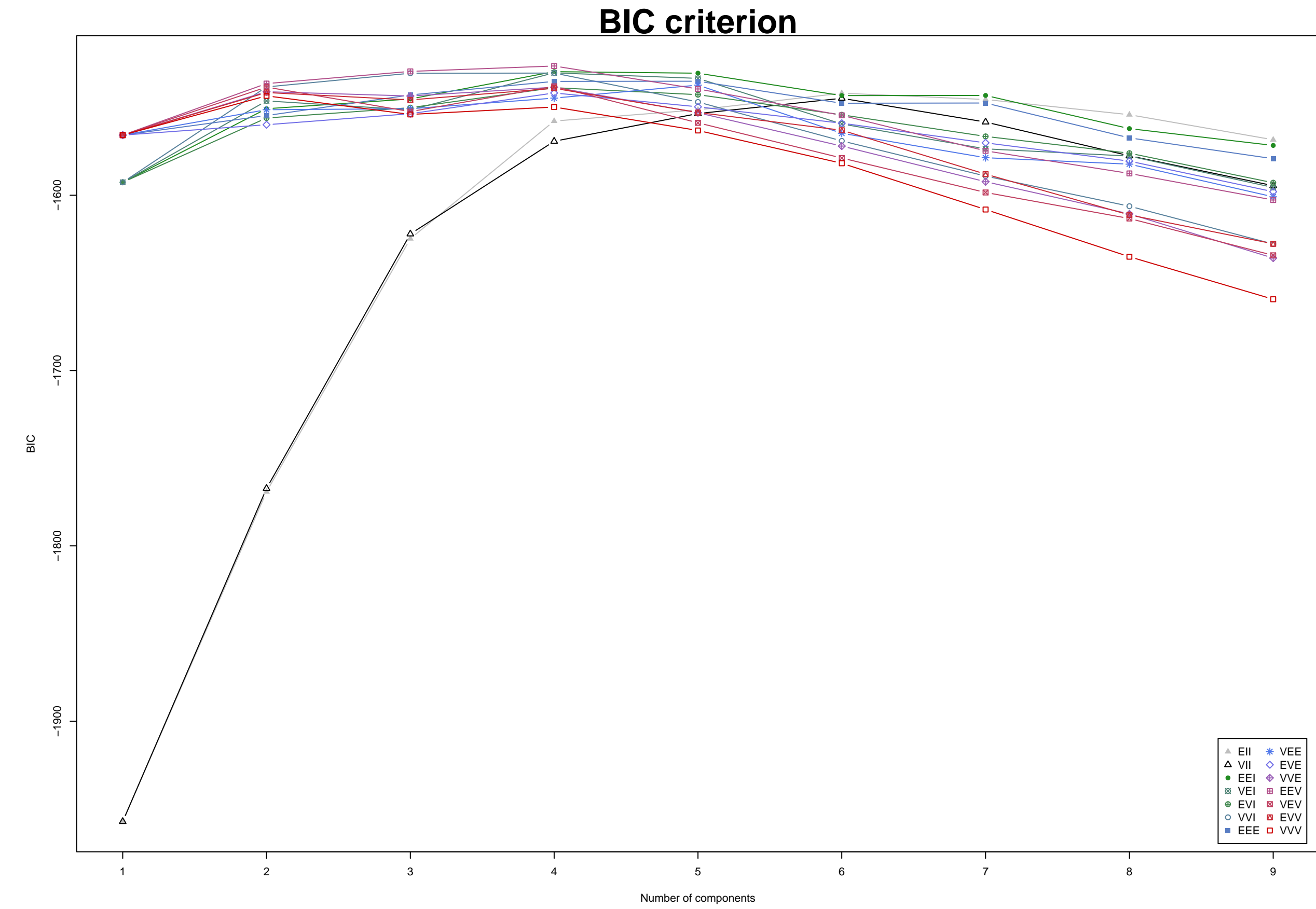
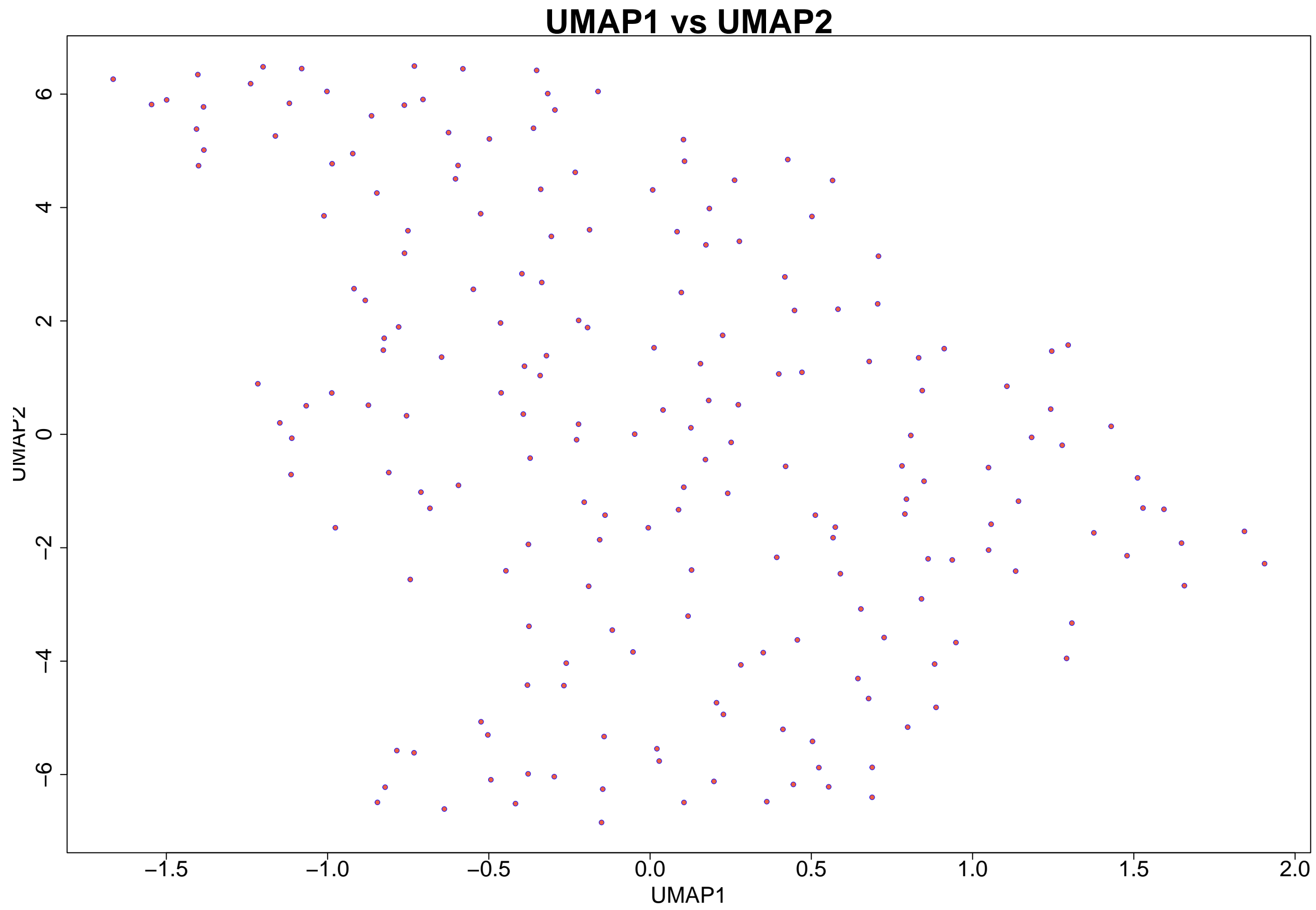


# UMAP Trajectory plot

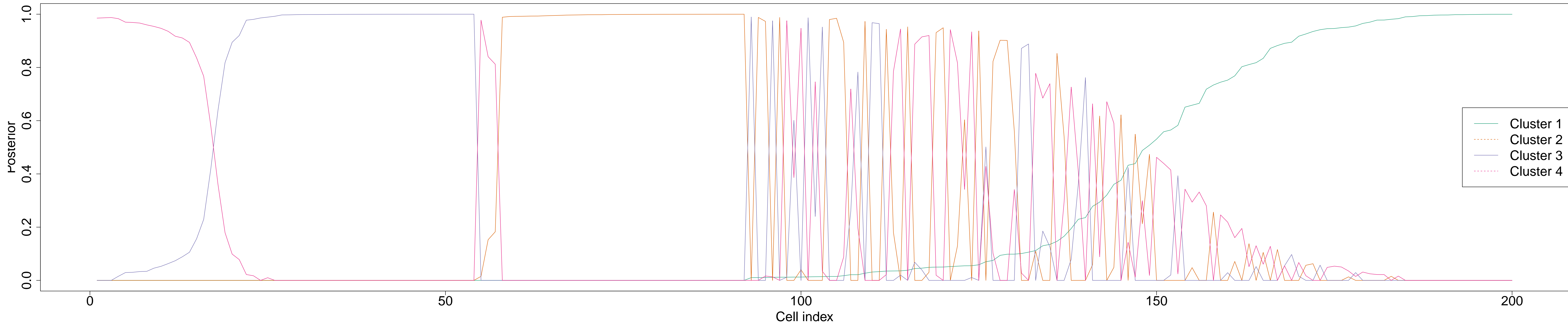




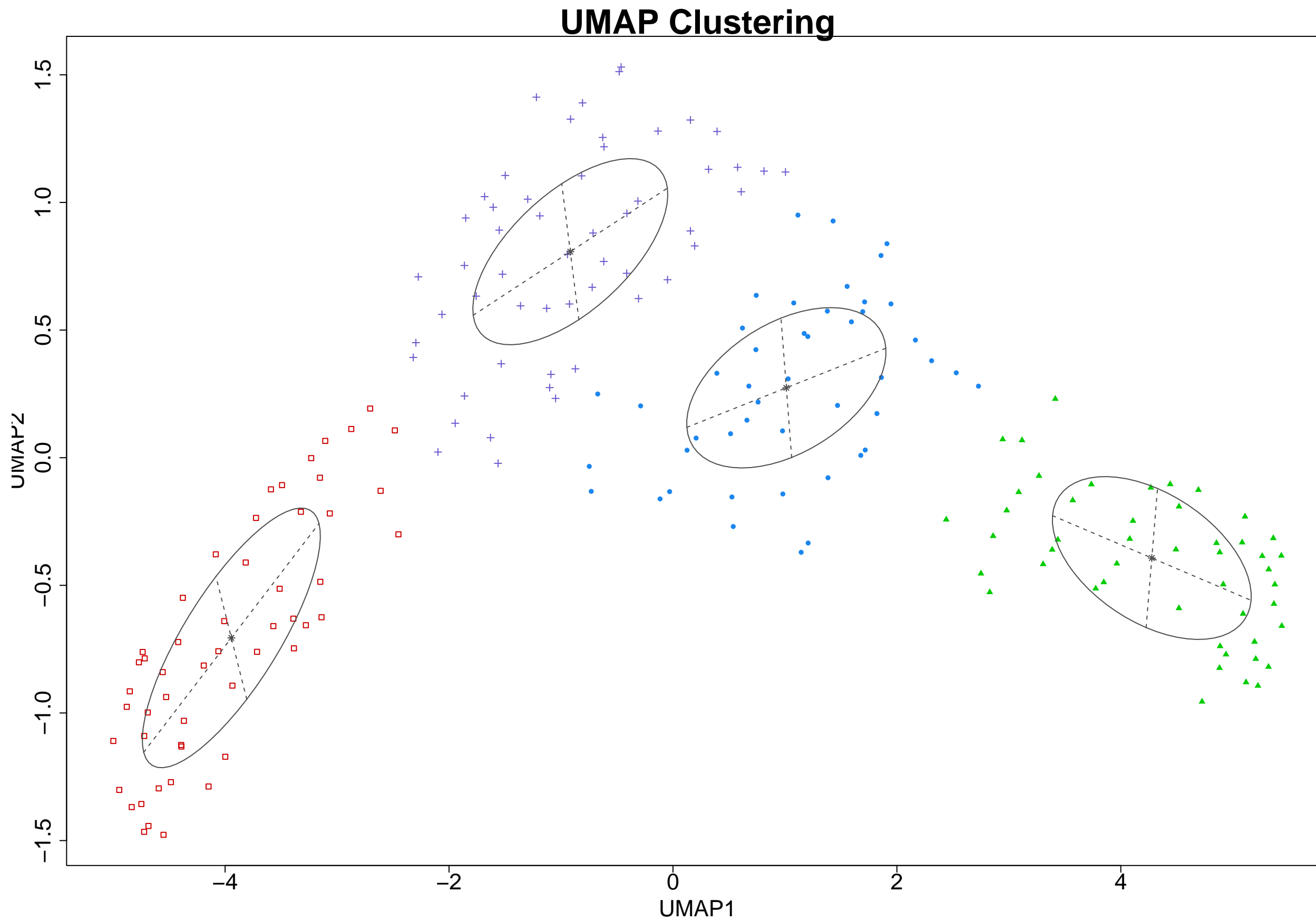
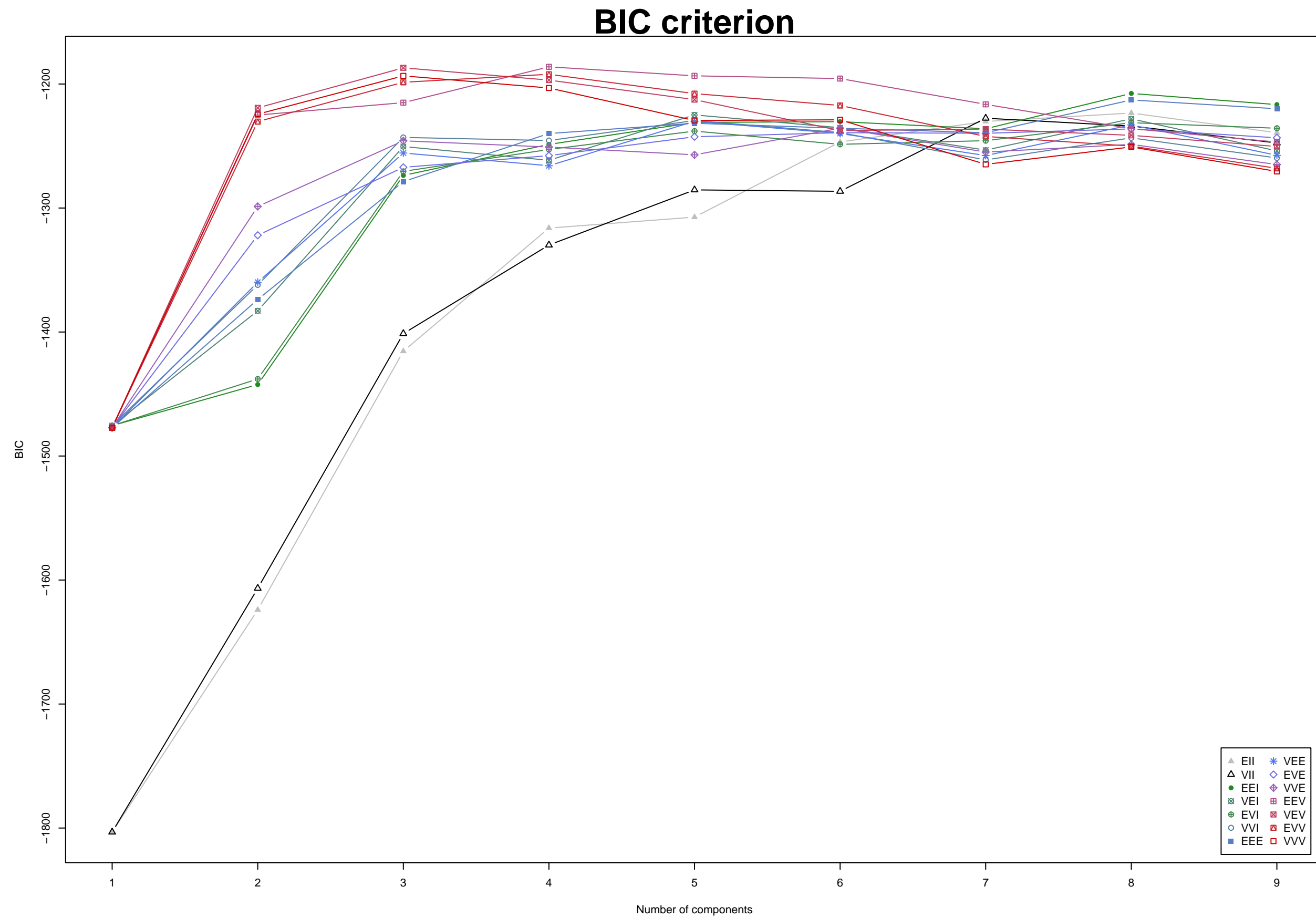
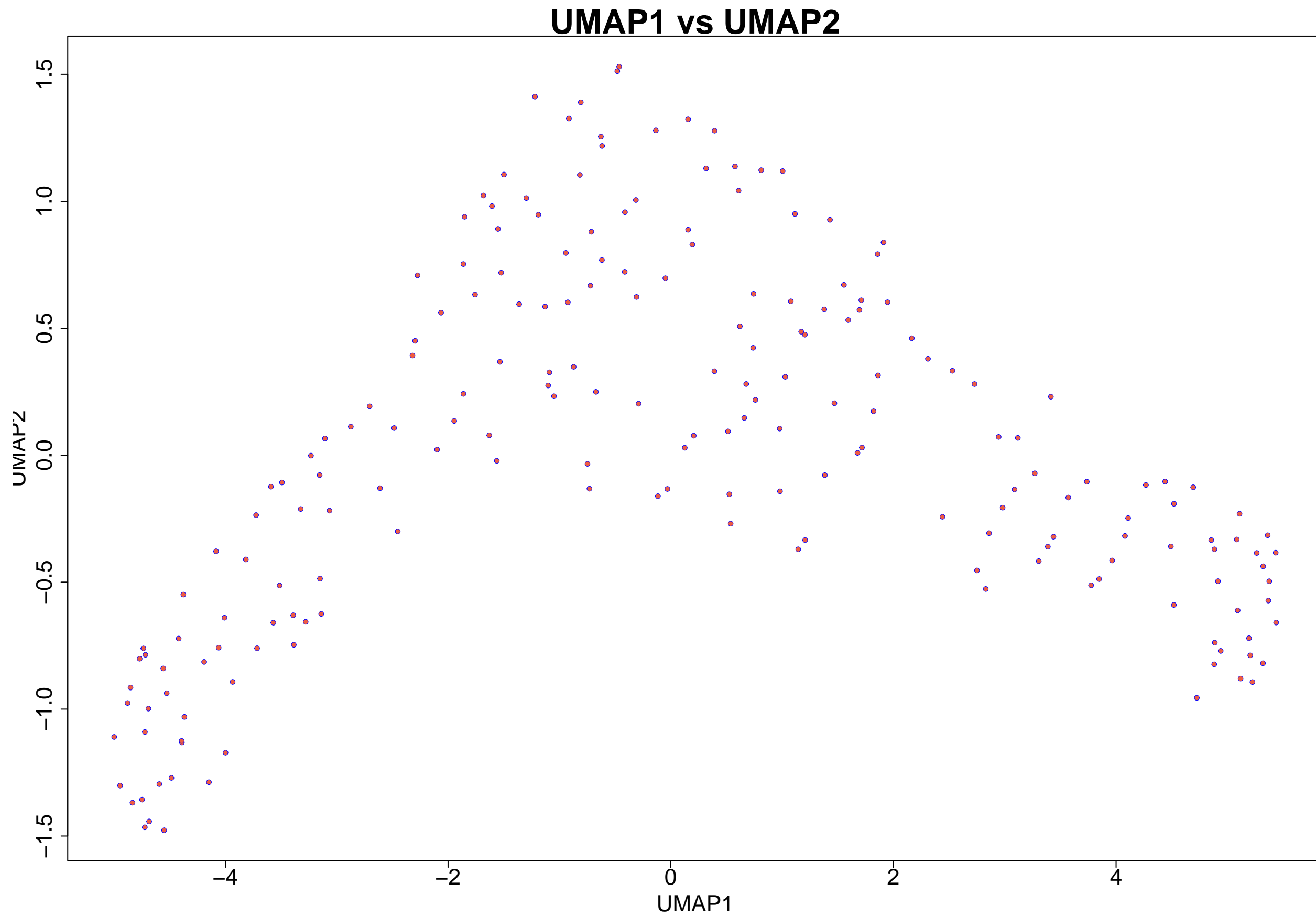
Clustering: UMAP  
n = 10 | dist = 0.4



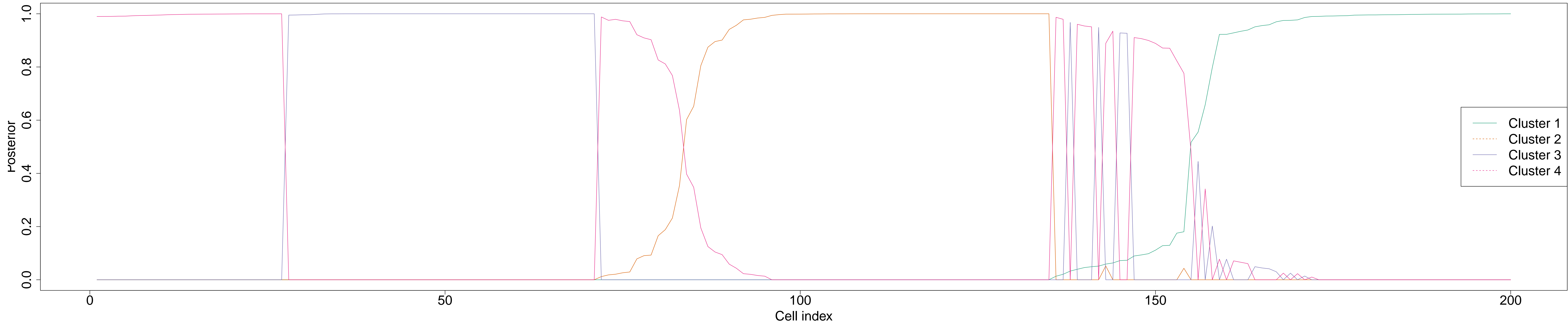
# UMAP Trajectory plot



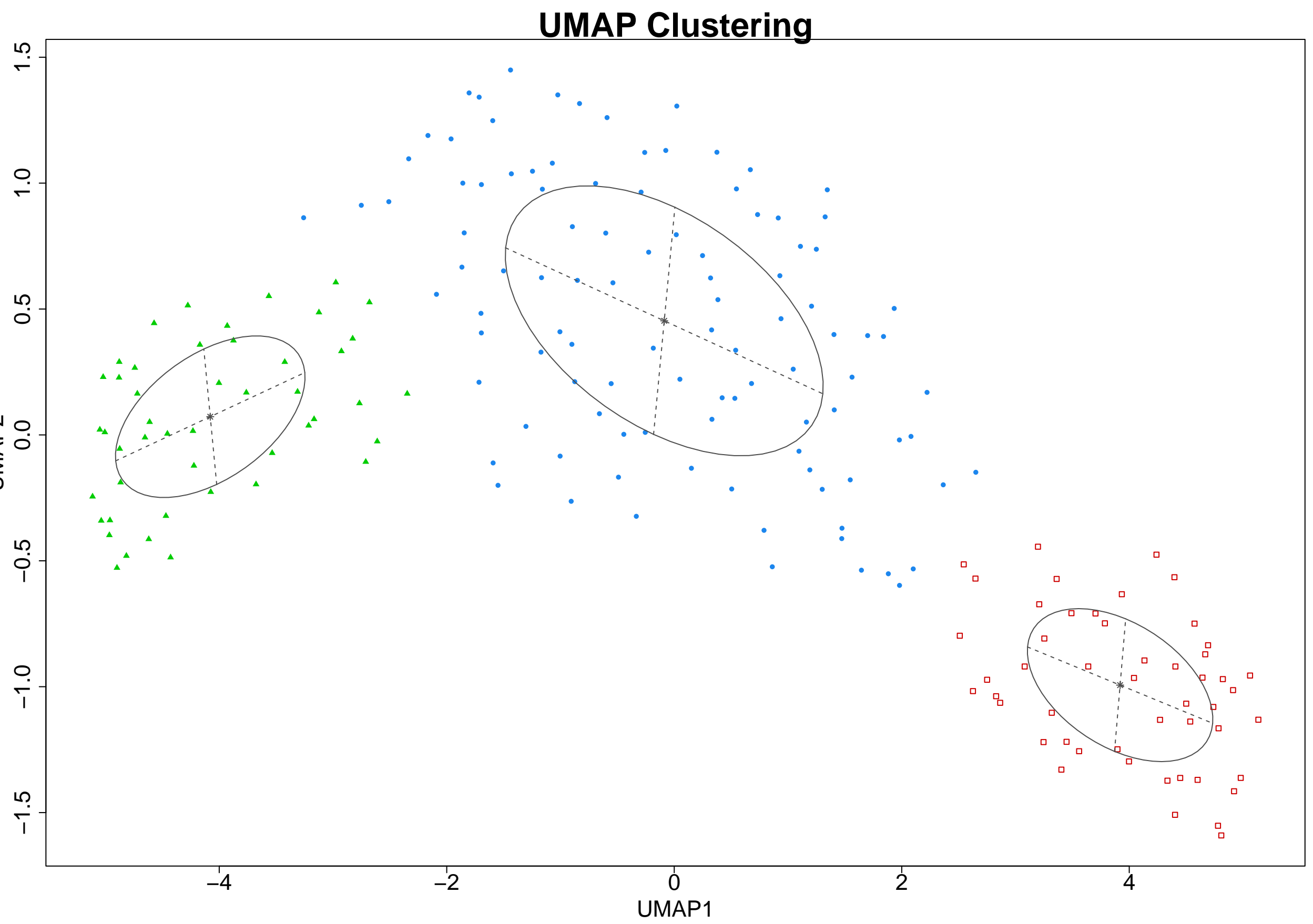
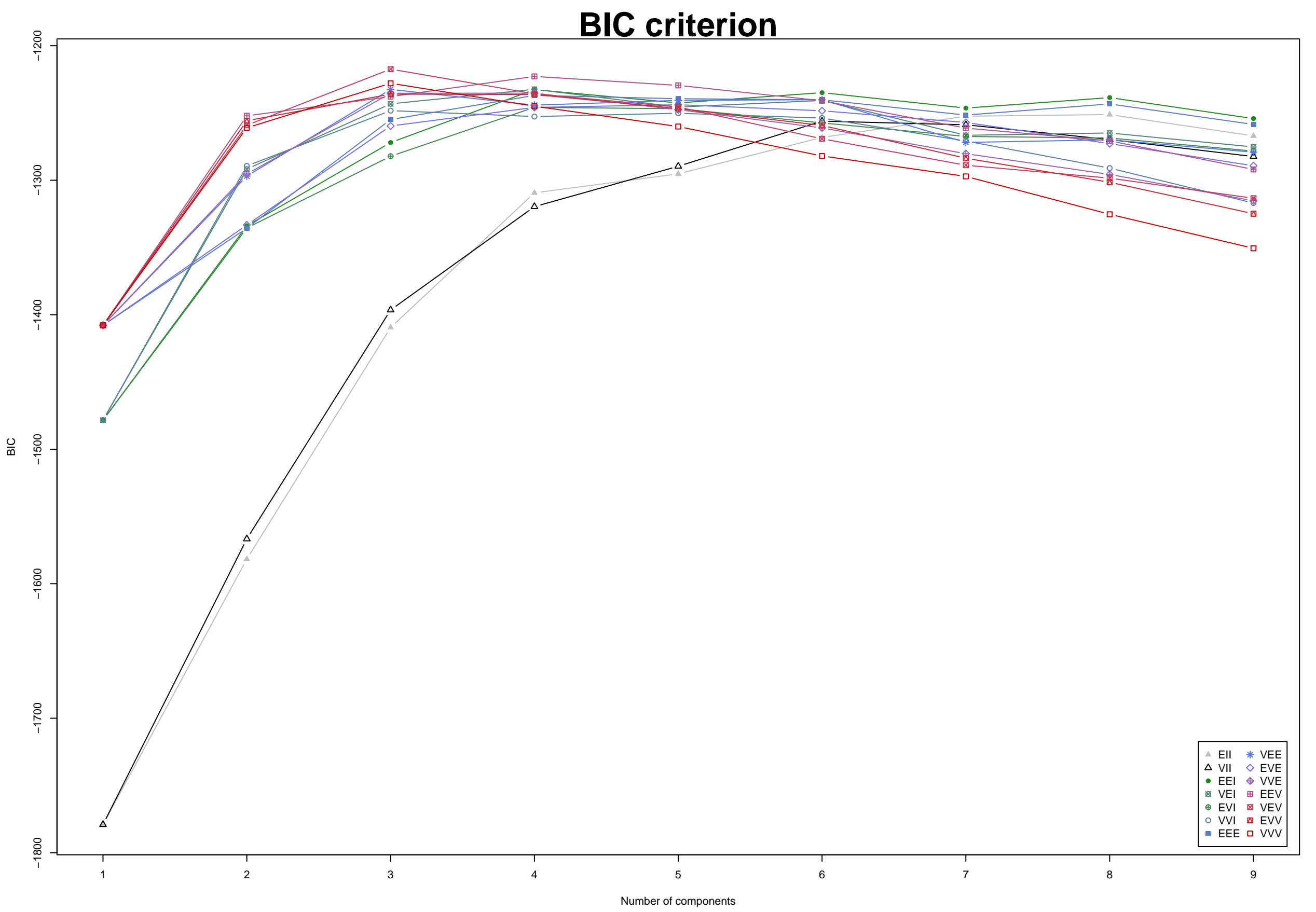
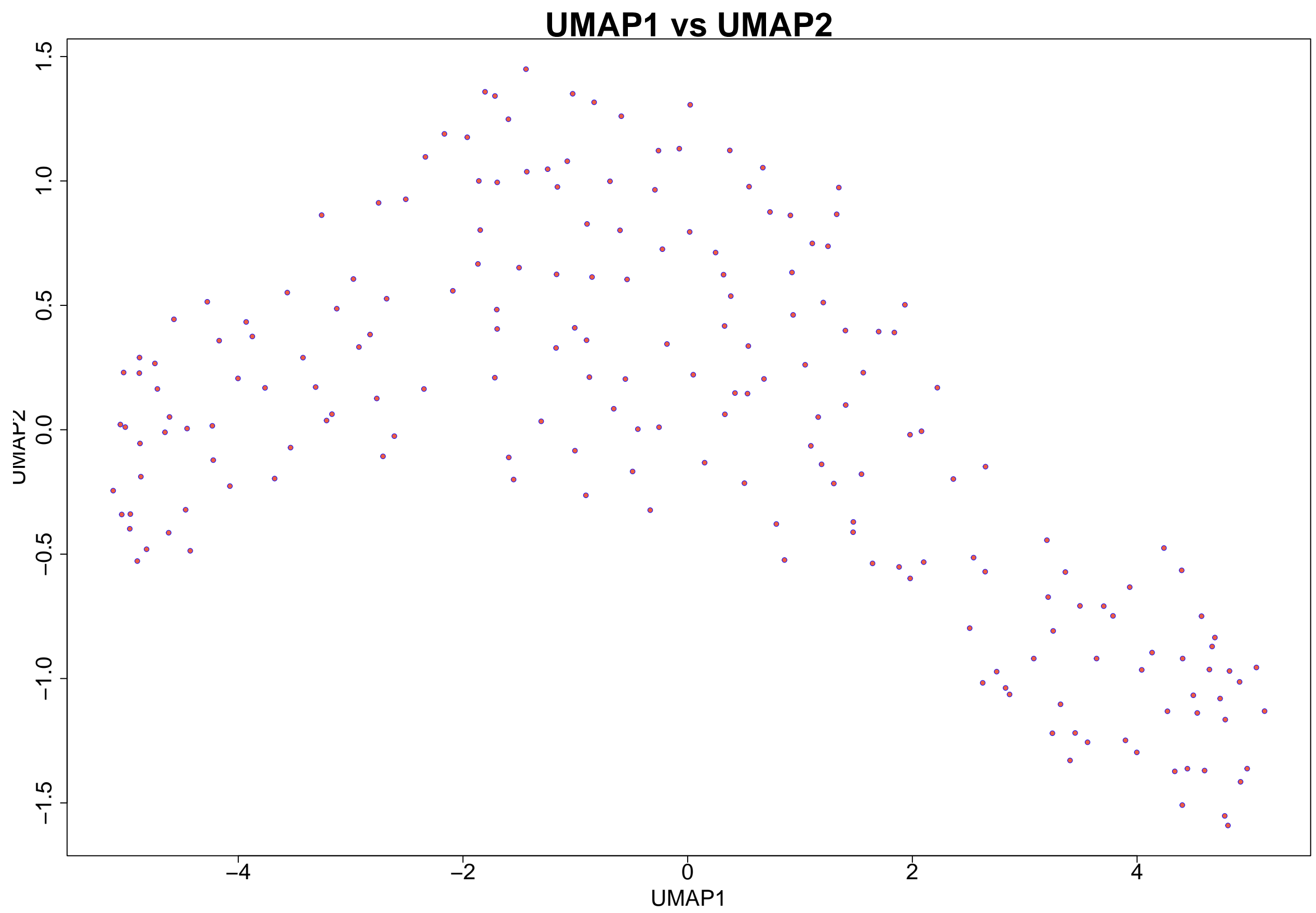
Clustering: UMAP  
n = 15 | dist = 0.05



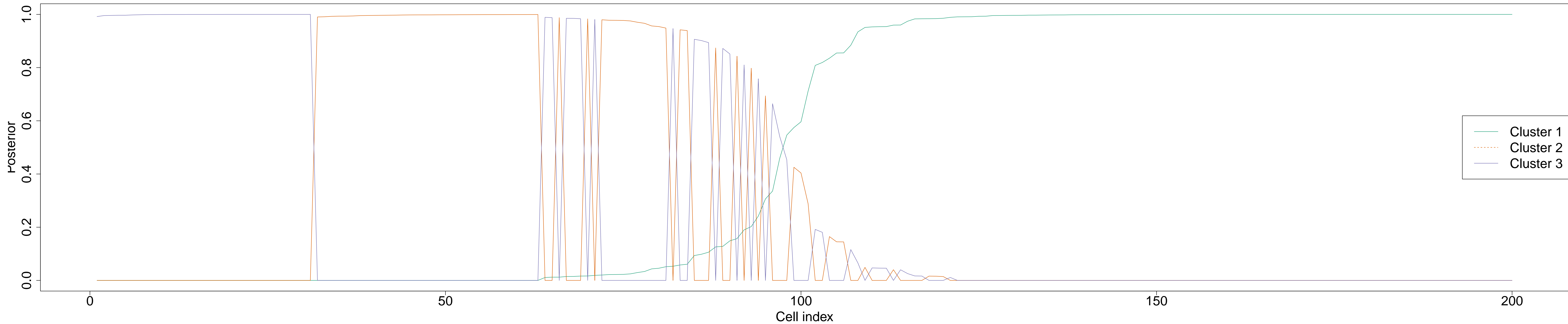
# UMAP Trajectory plot



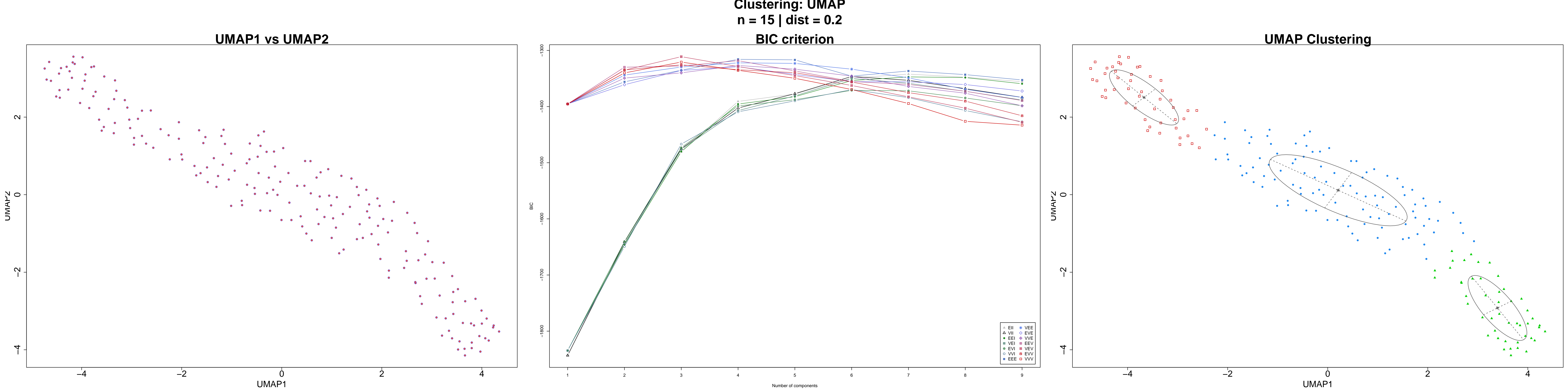
Clustering: UMAP  
n = 15 | dist = 0.1



# UMAP Trajectory plot

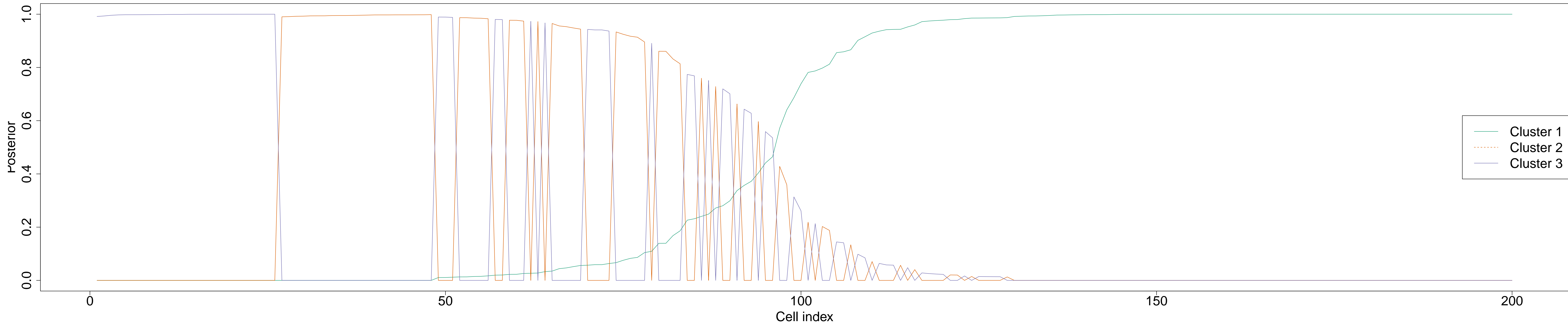


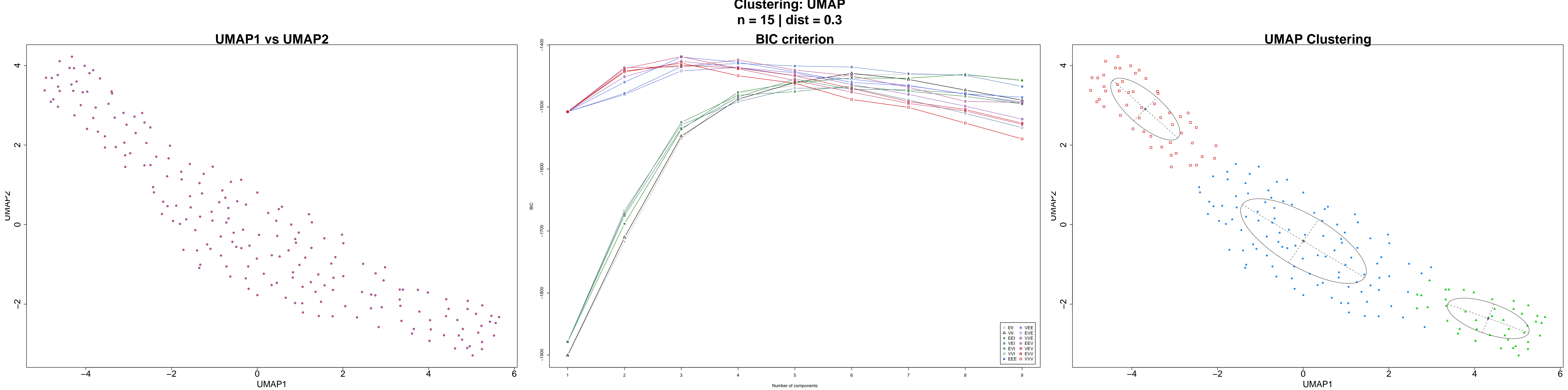




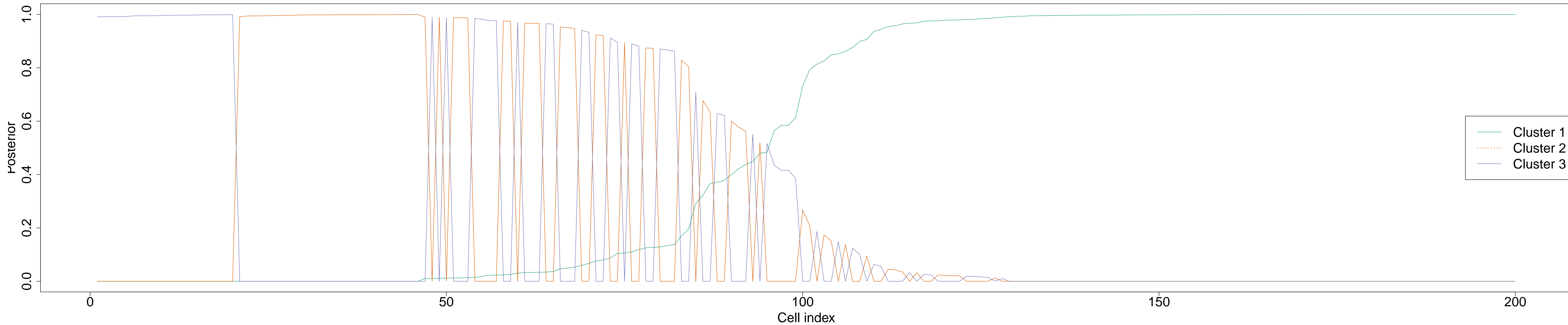


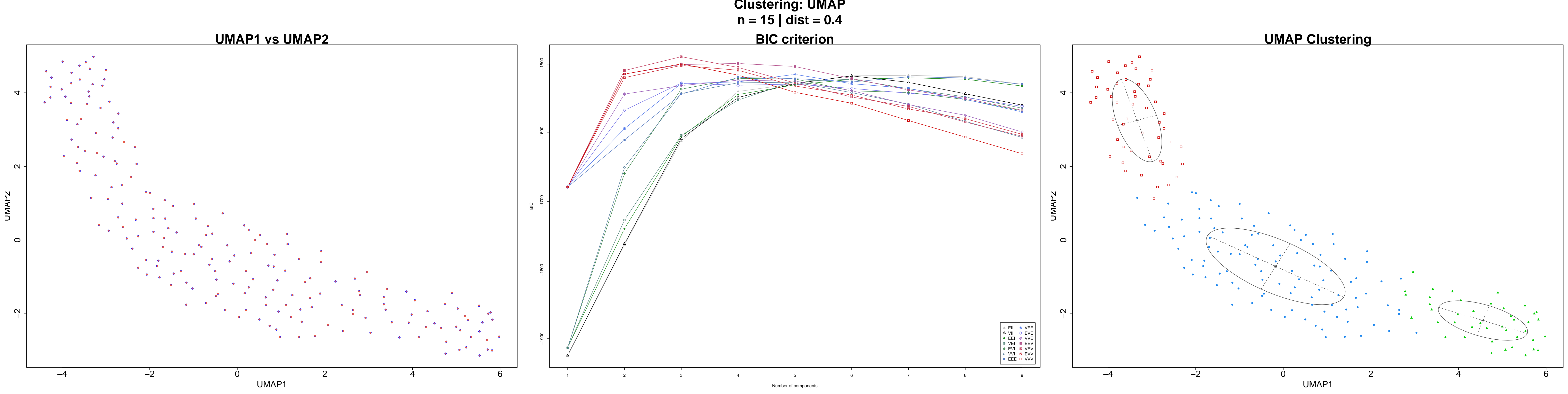
# UMAP Trajectory plot



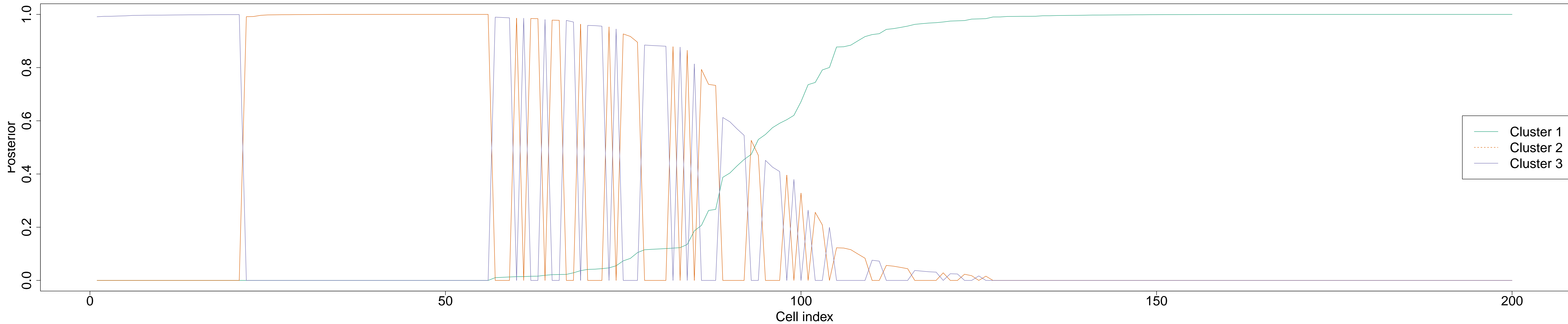


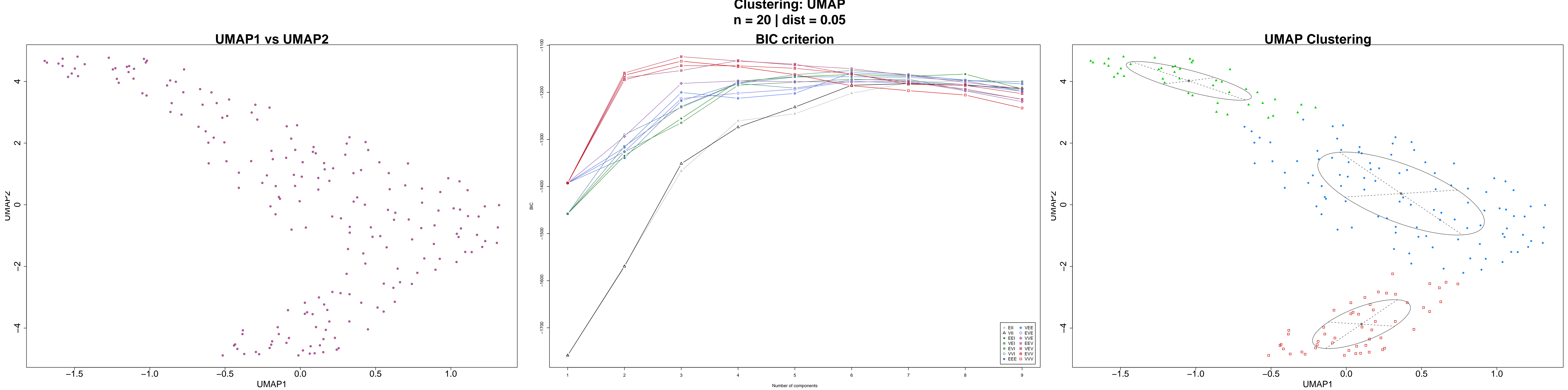
UMAP Trajectory plot



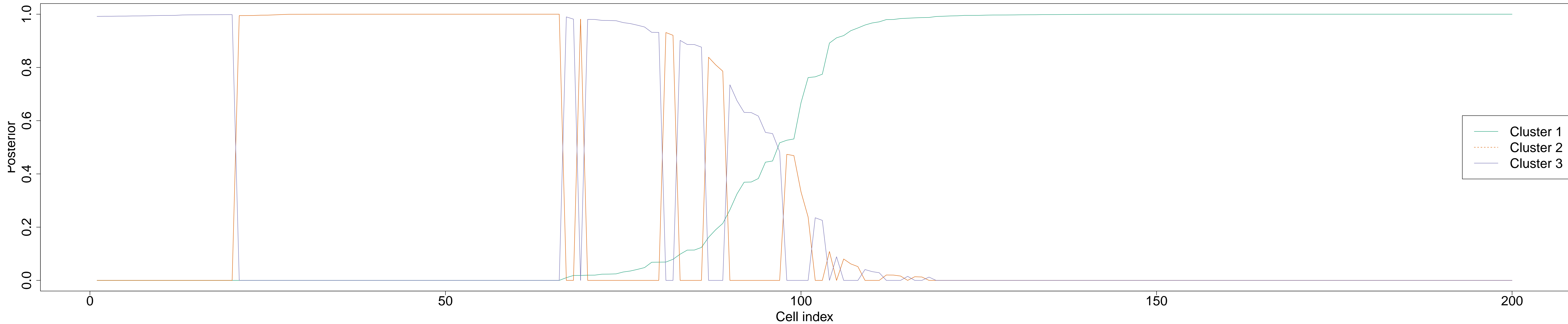


UMAP Trajectory plot

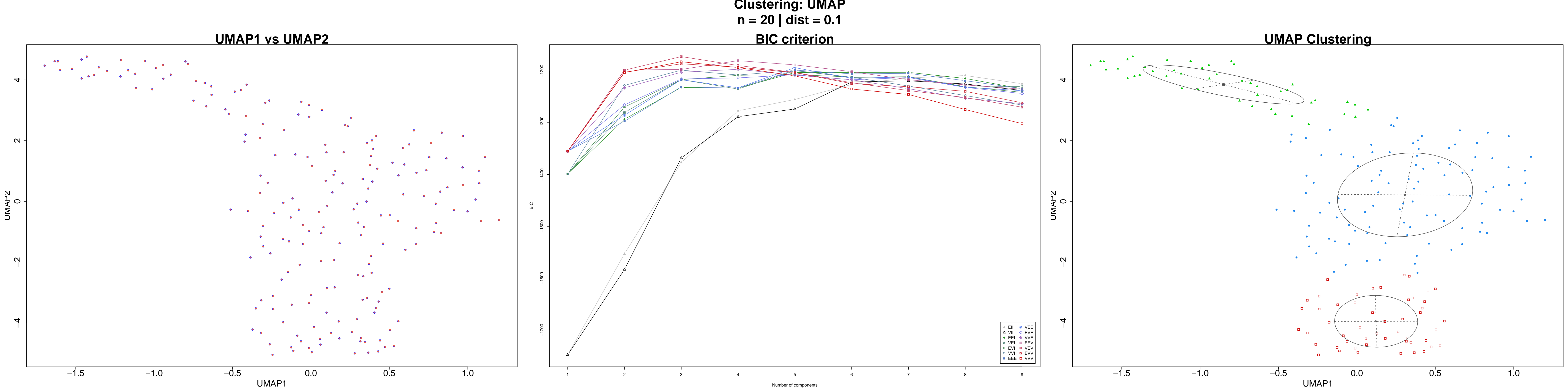




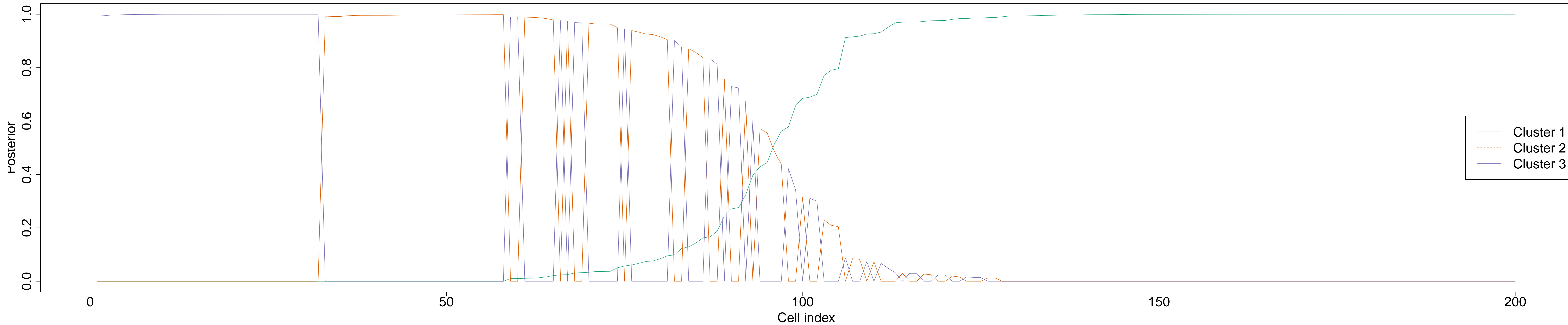
# UMAP Trajectory plot

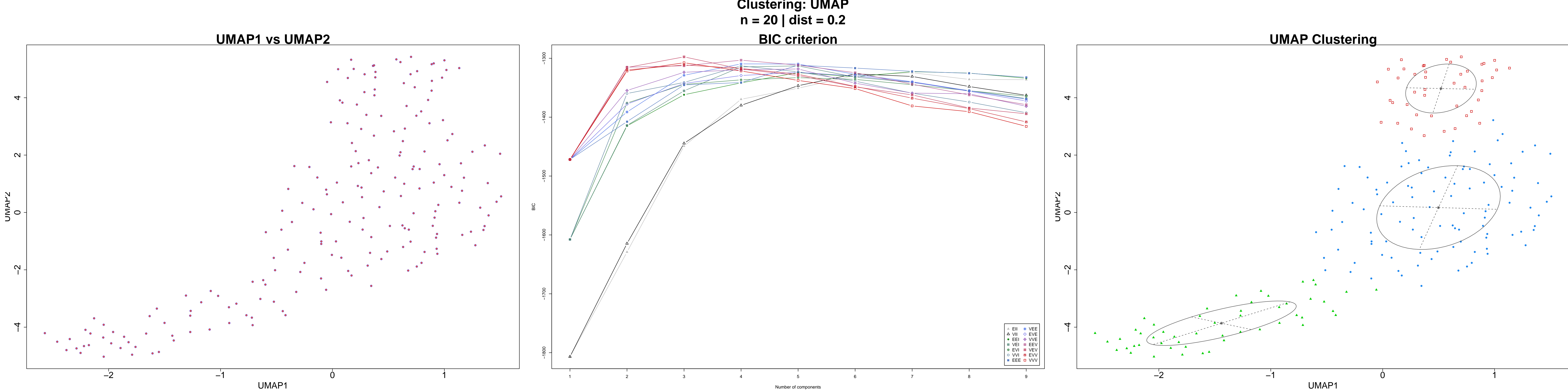




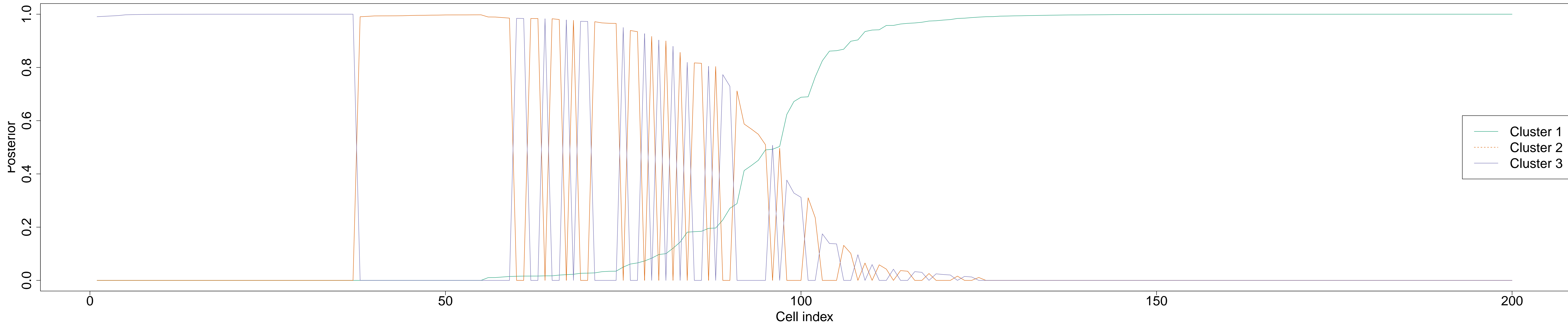


# UMAP Trajectory plot

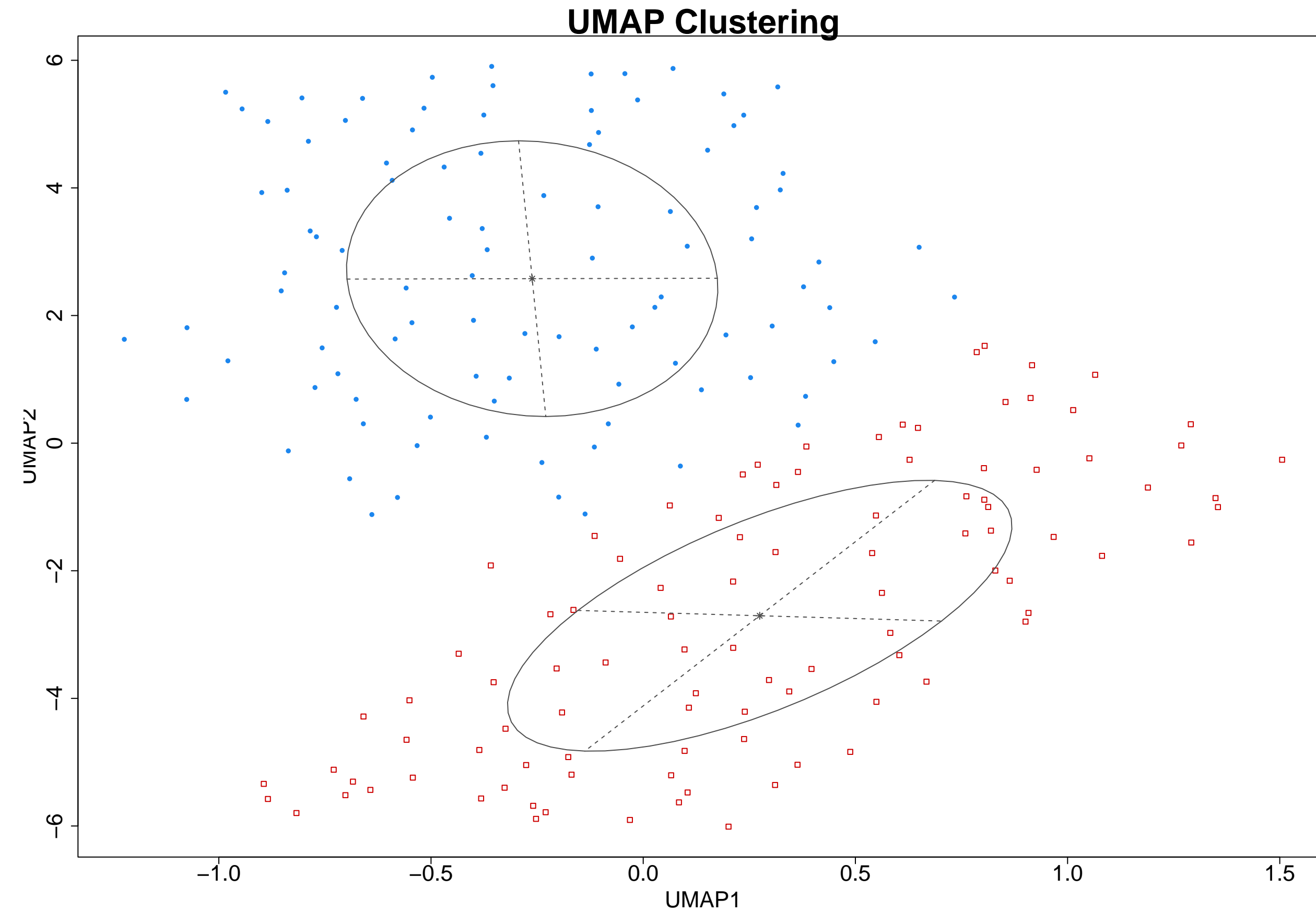
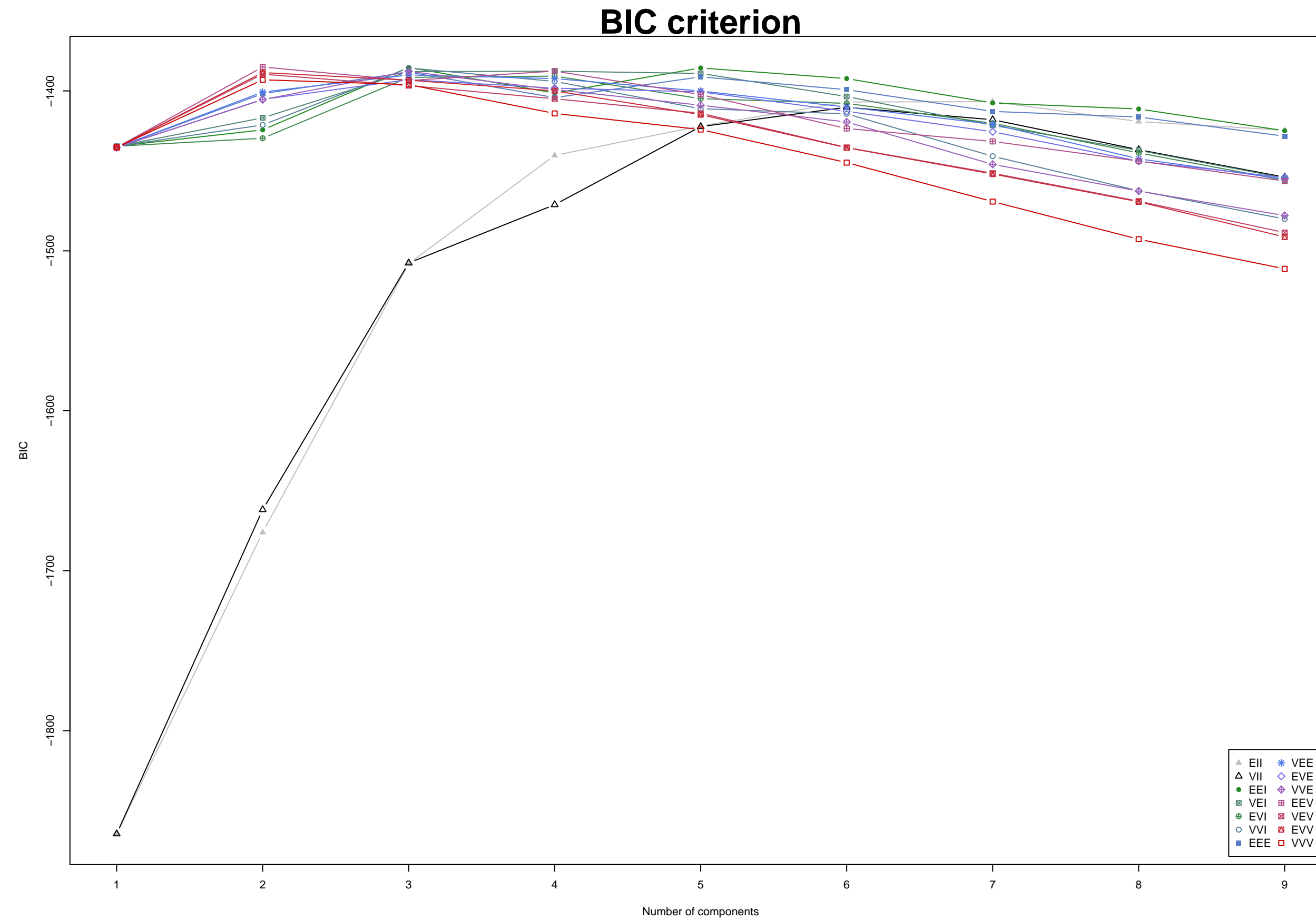
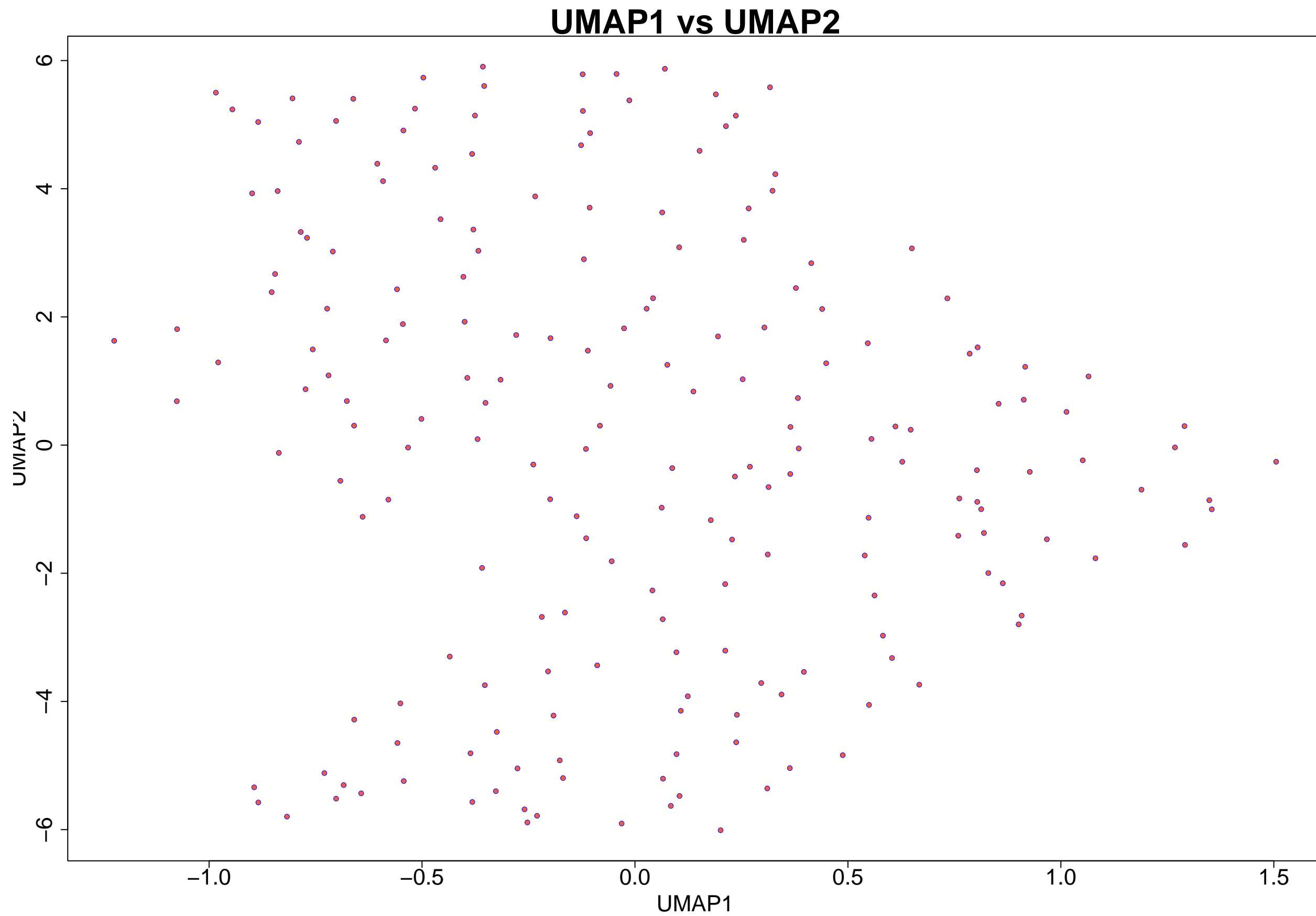




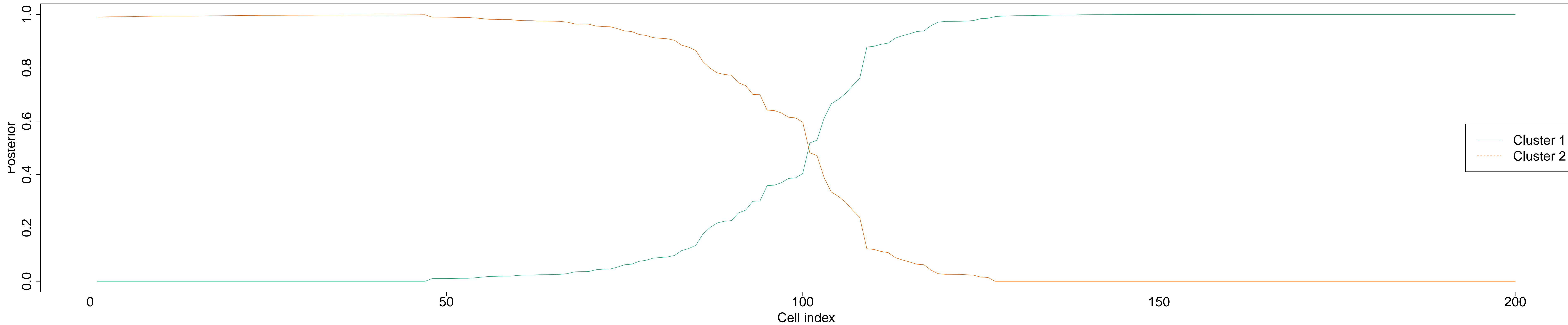
# UMAP Trajectory plot



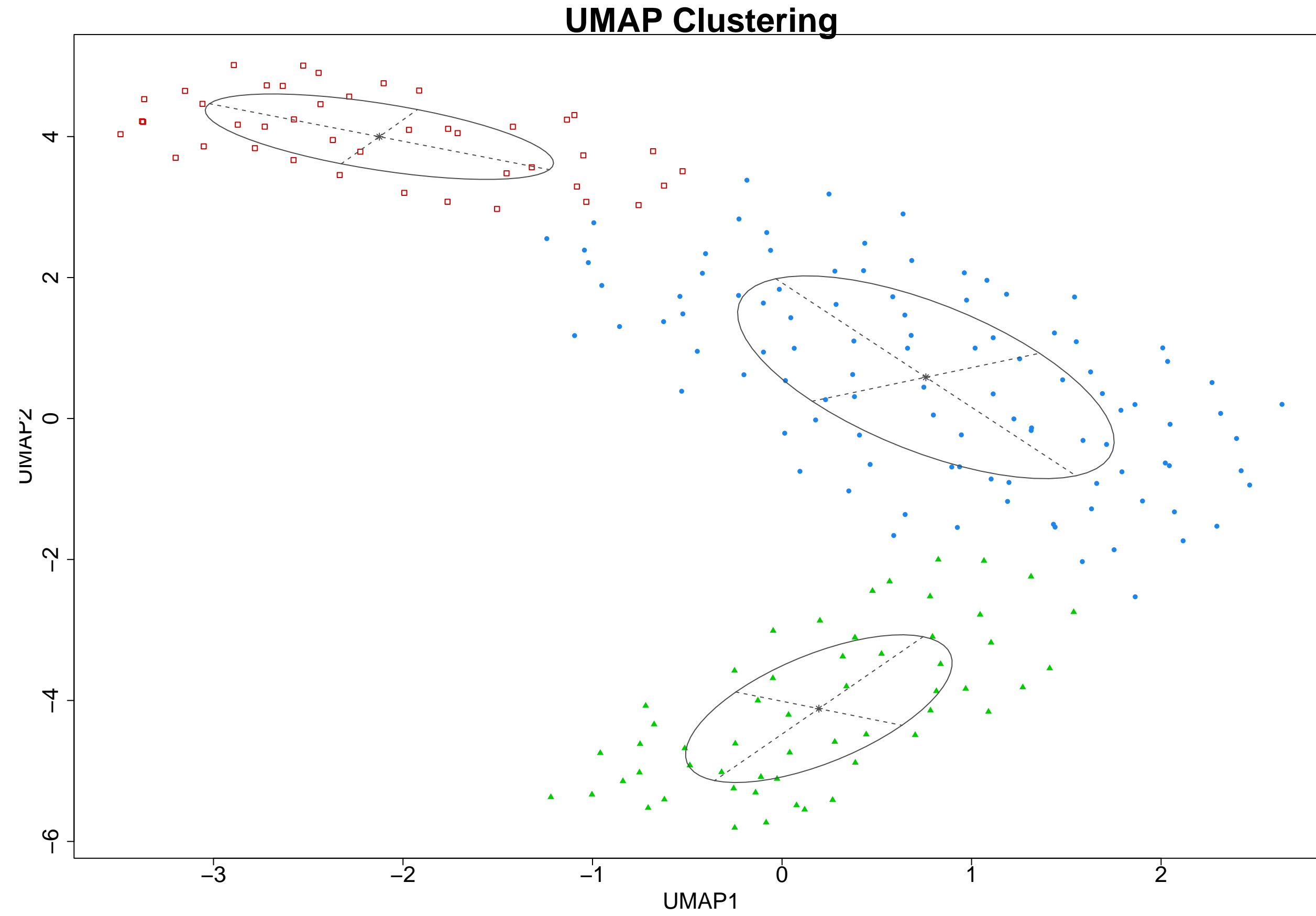
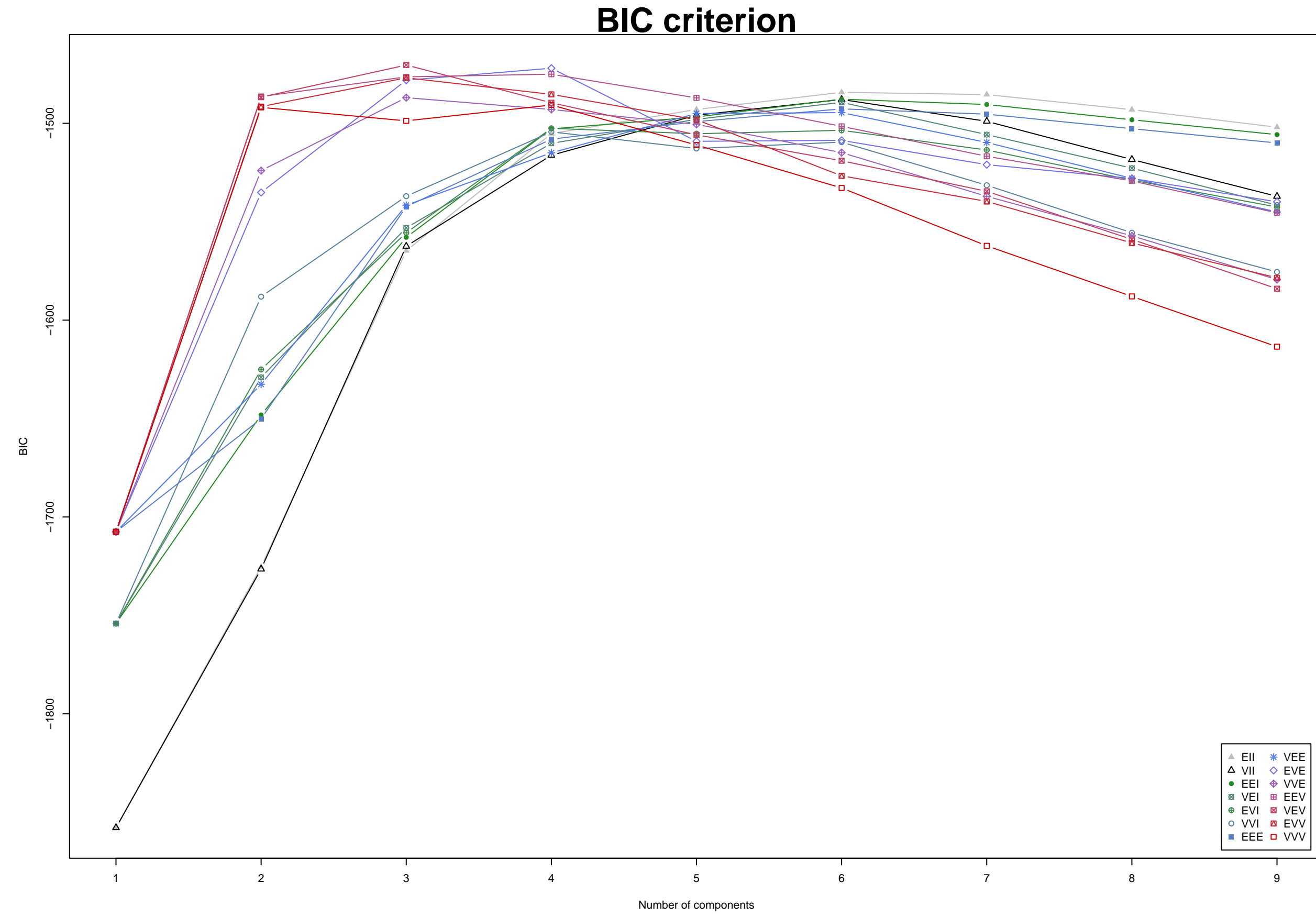
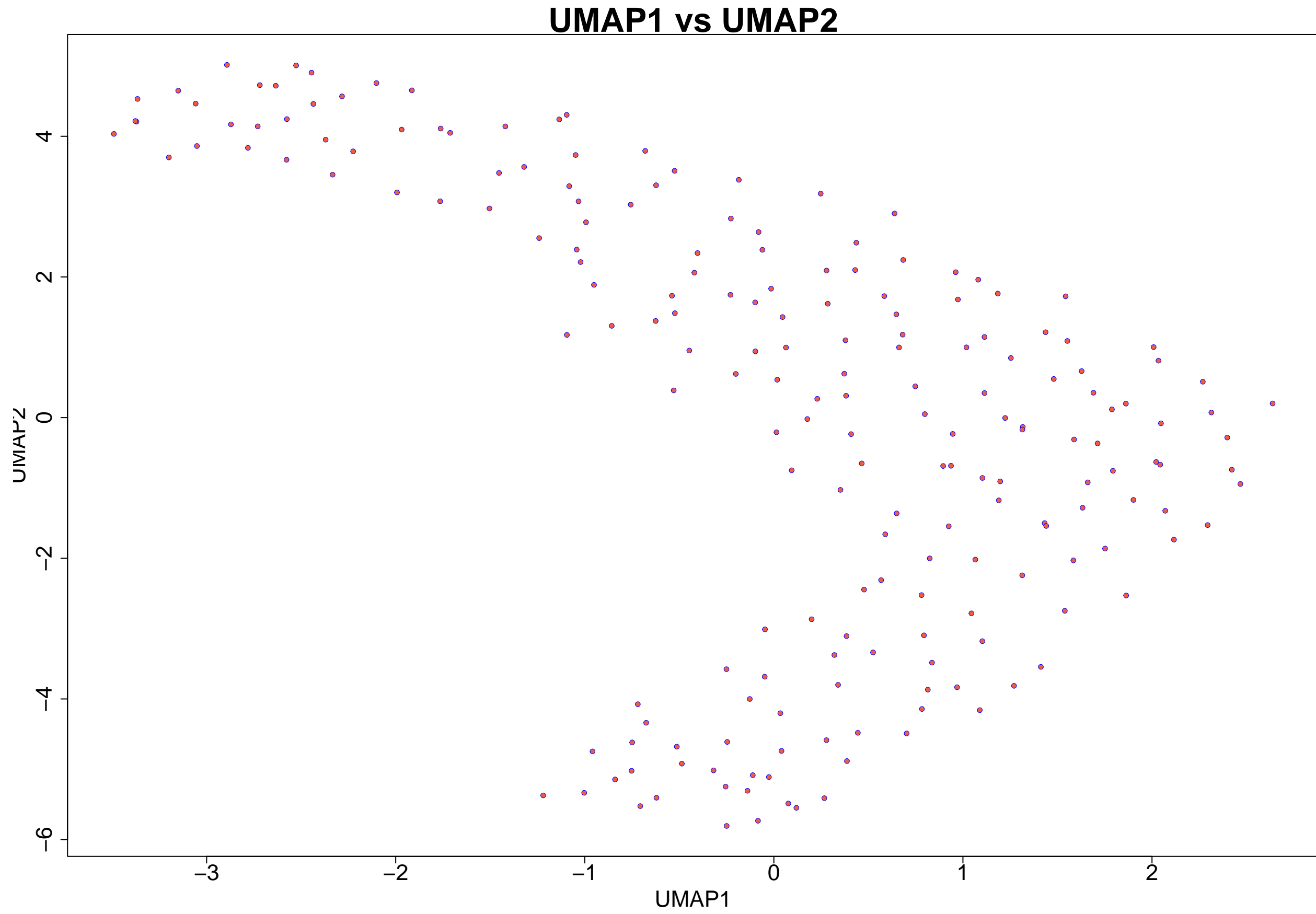
Clustering: UMAP  
n = 20 | dist = 0.3



UMAP Trajectory plot

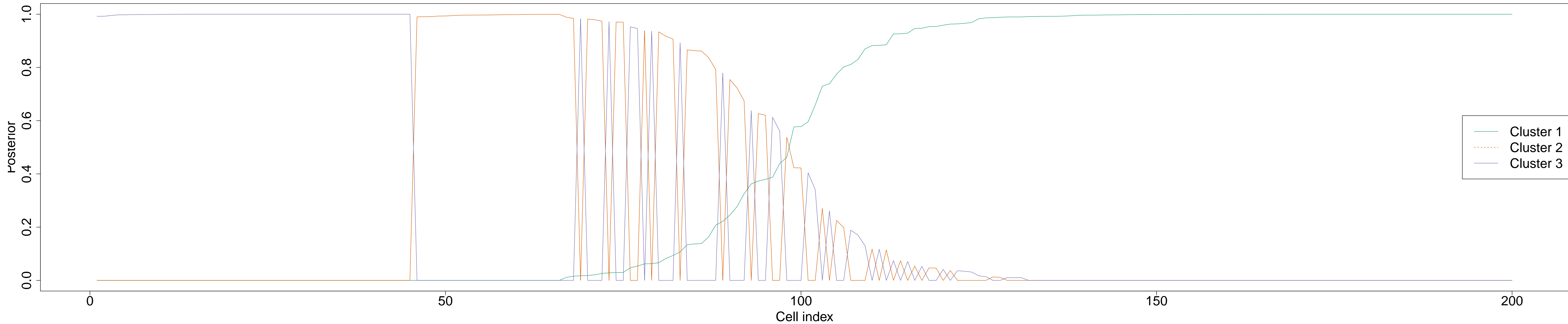


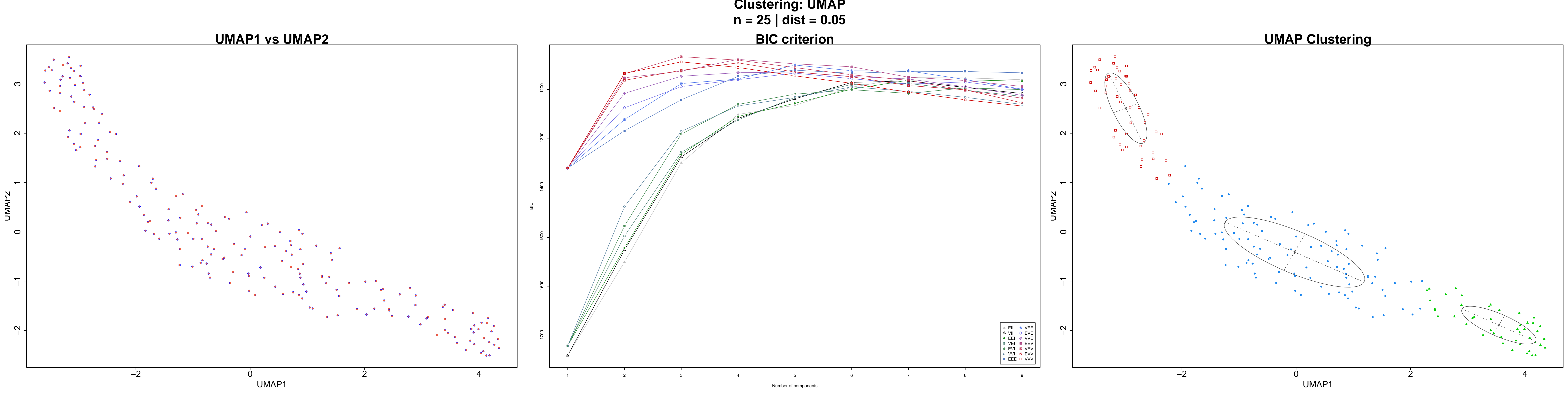
Clustering: UMAP  
n = 20 | dist = 0.4



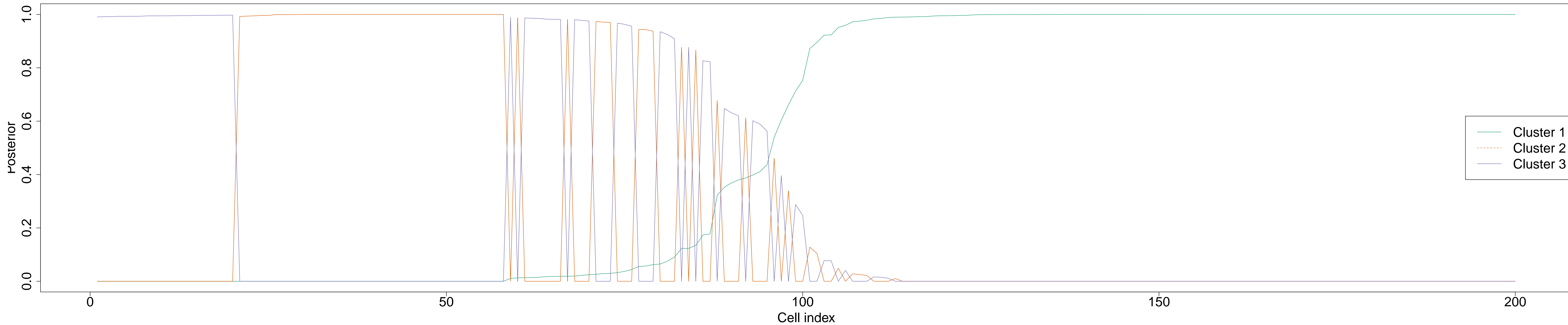


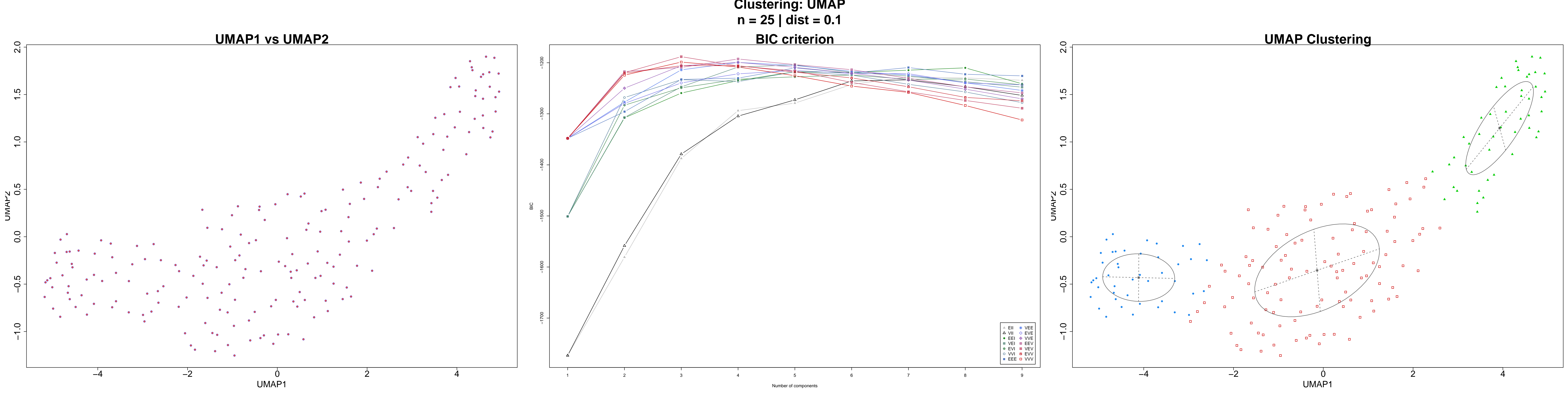
# UMAP Trajectory plot



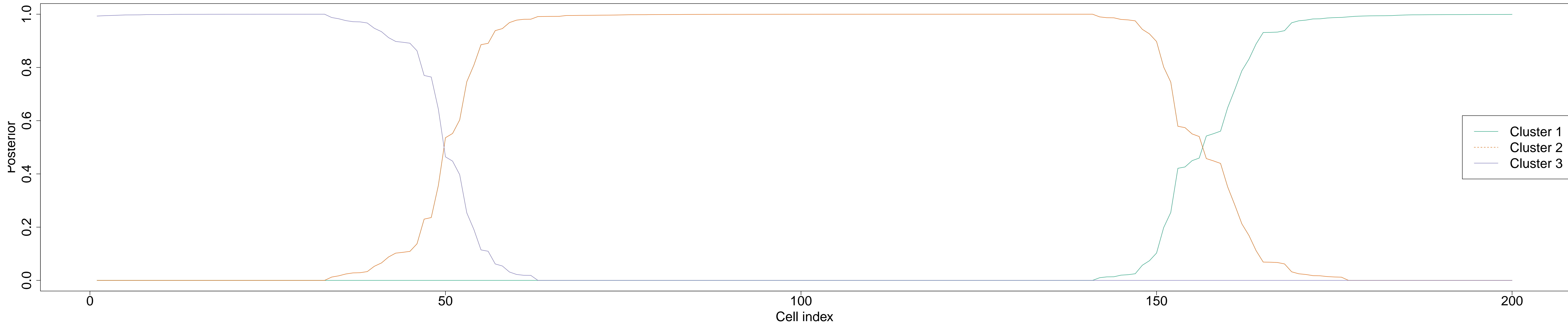


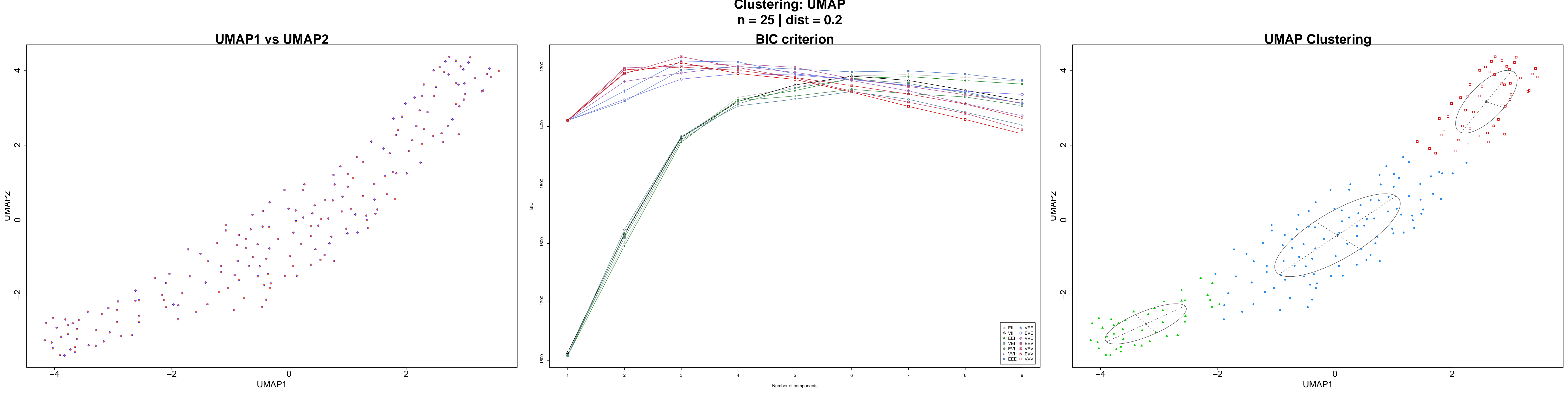
UMAP Trajectory plot



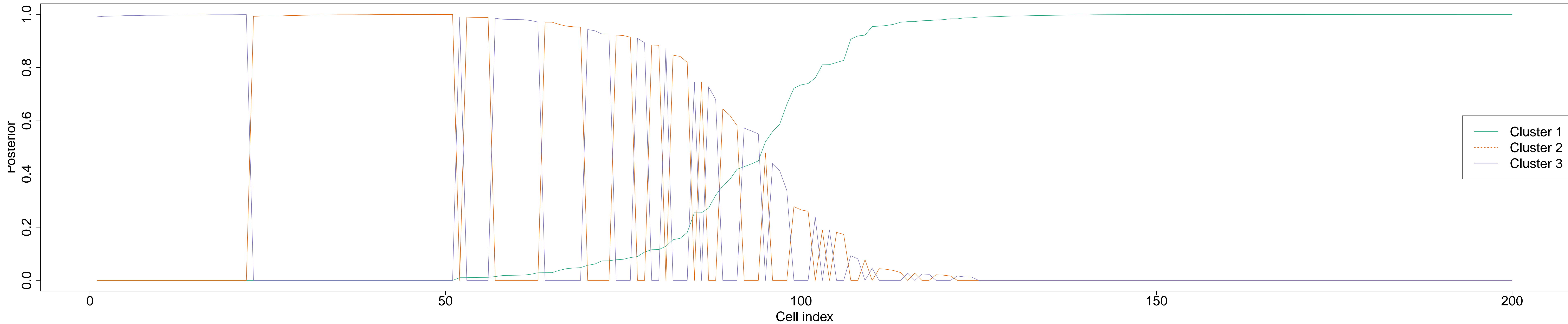


# UMAP Trajectory plot

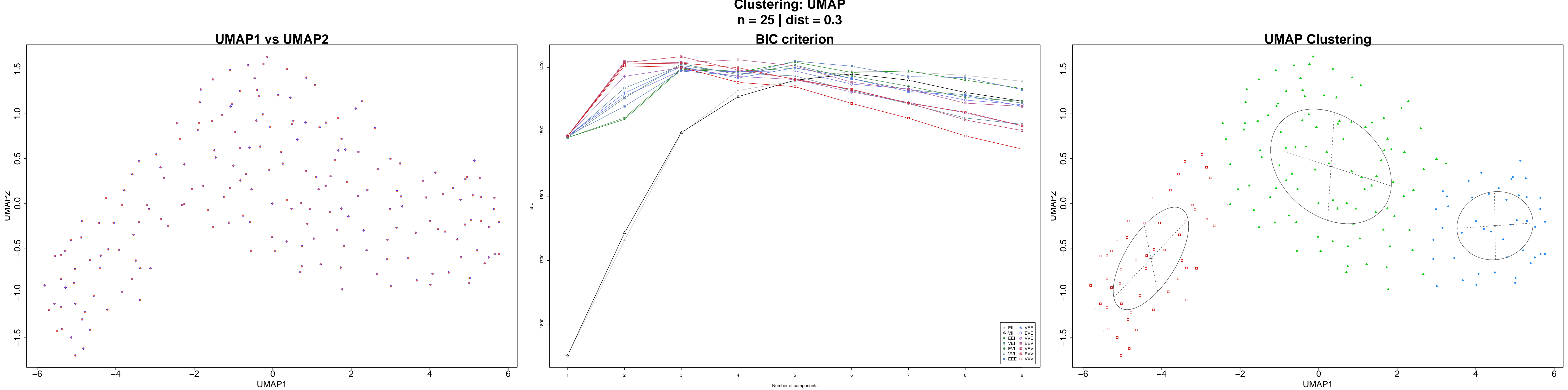




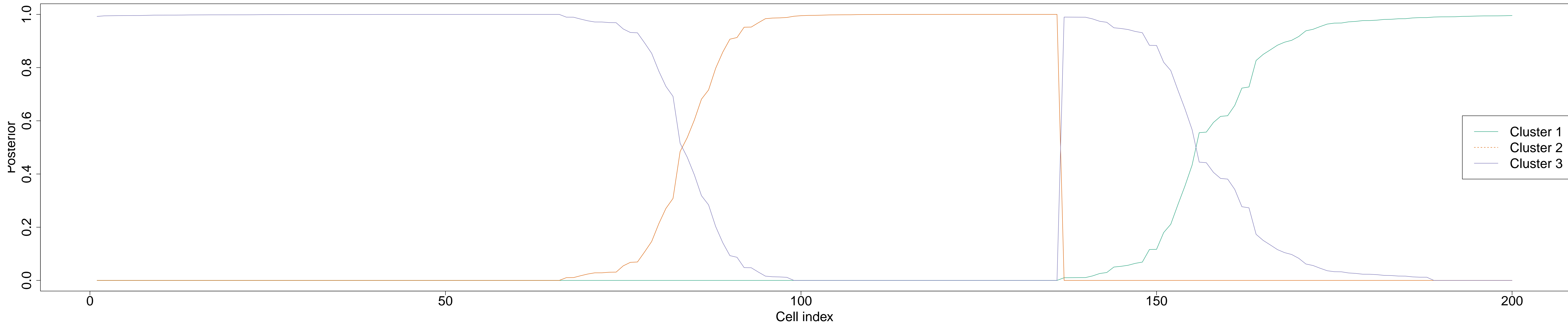
UMAP Trajectory plot



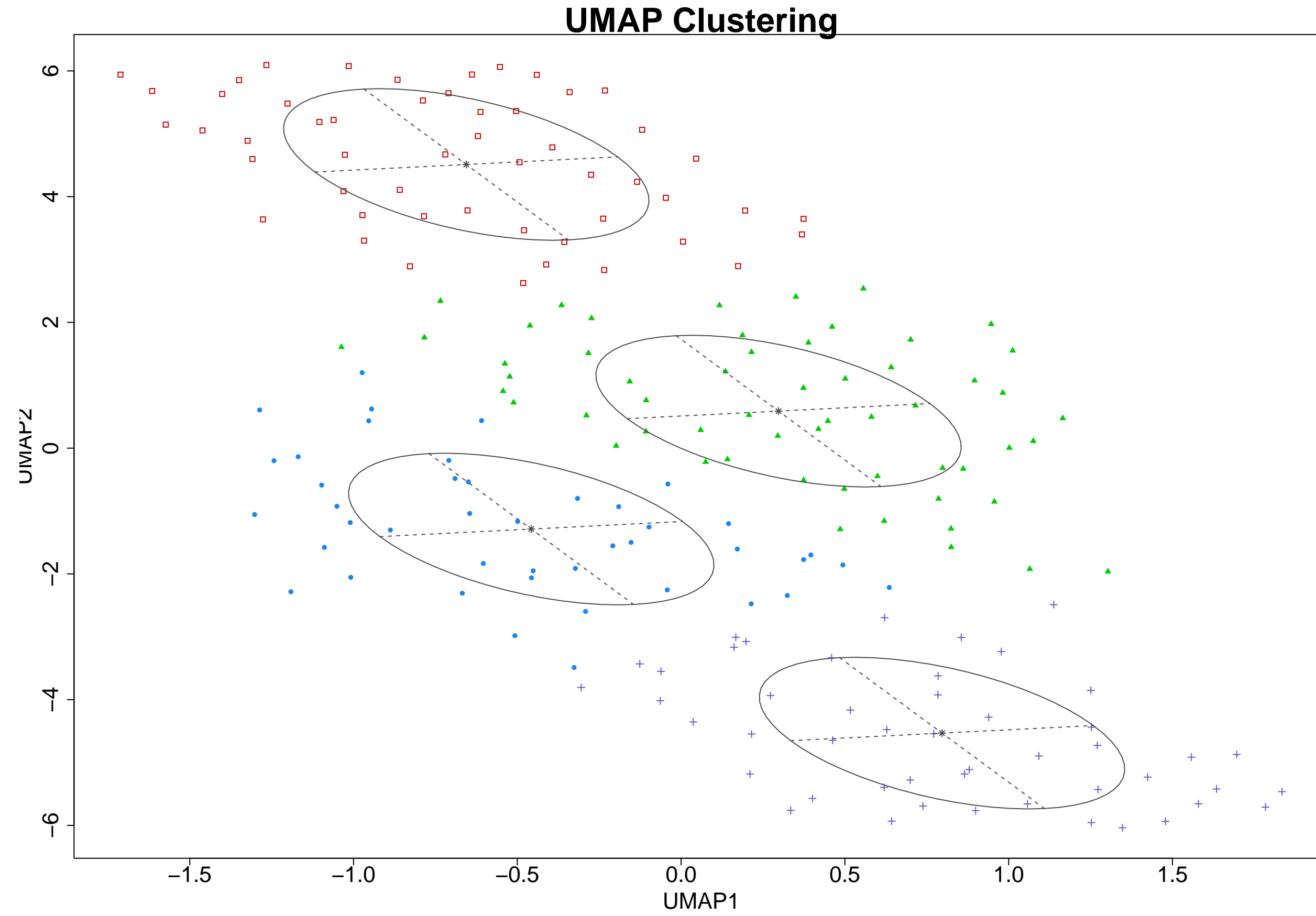
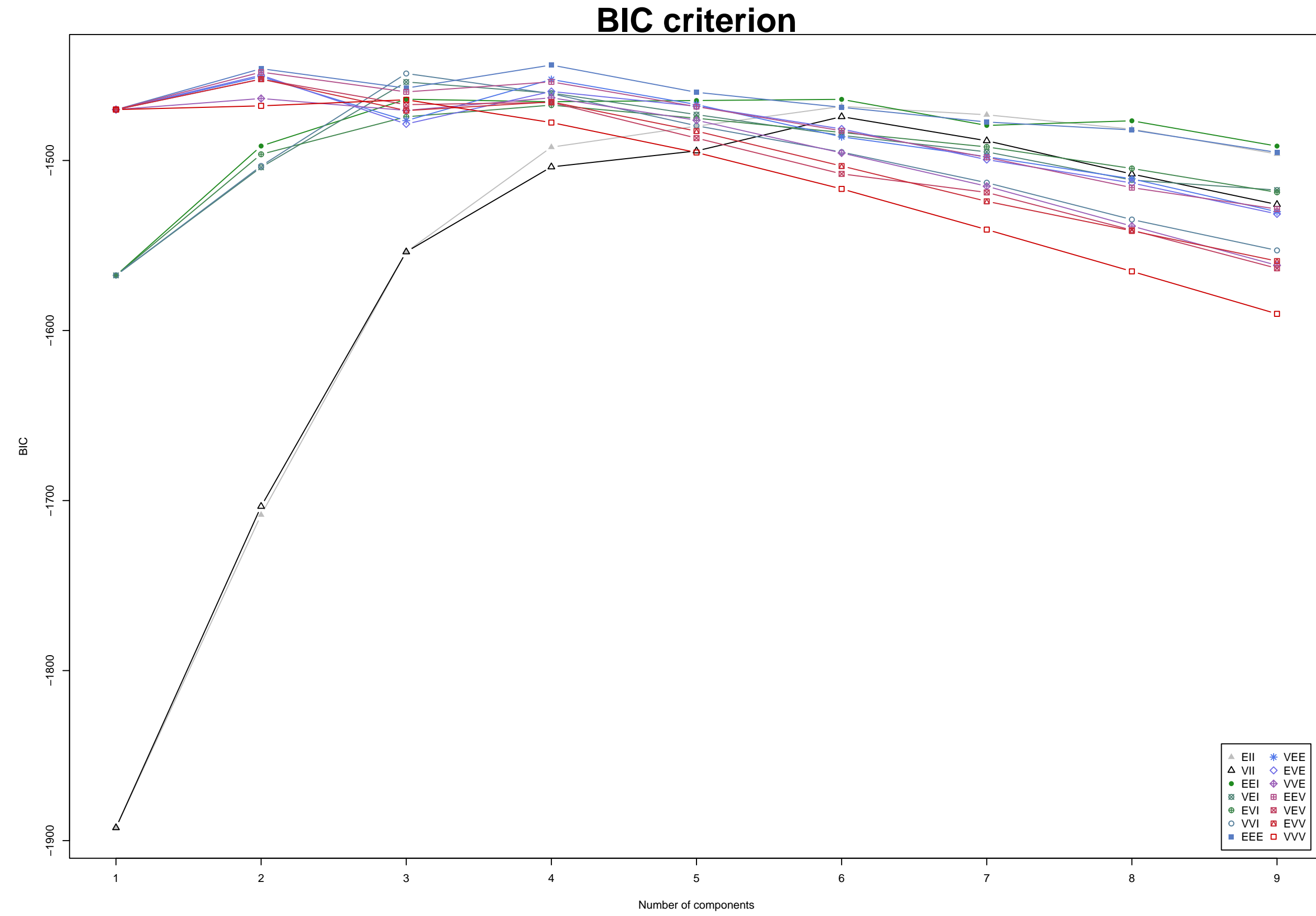
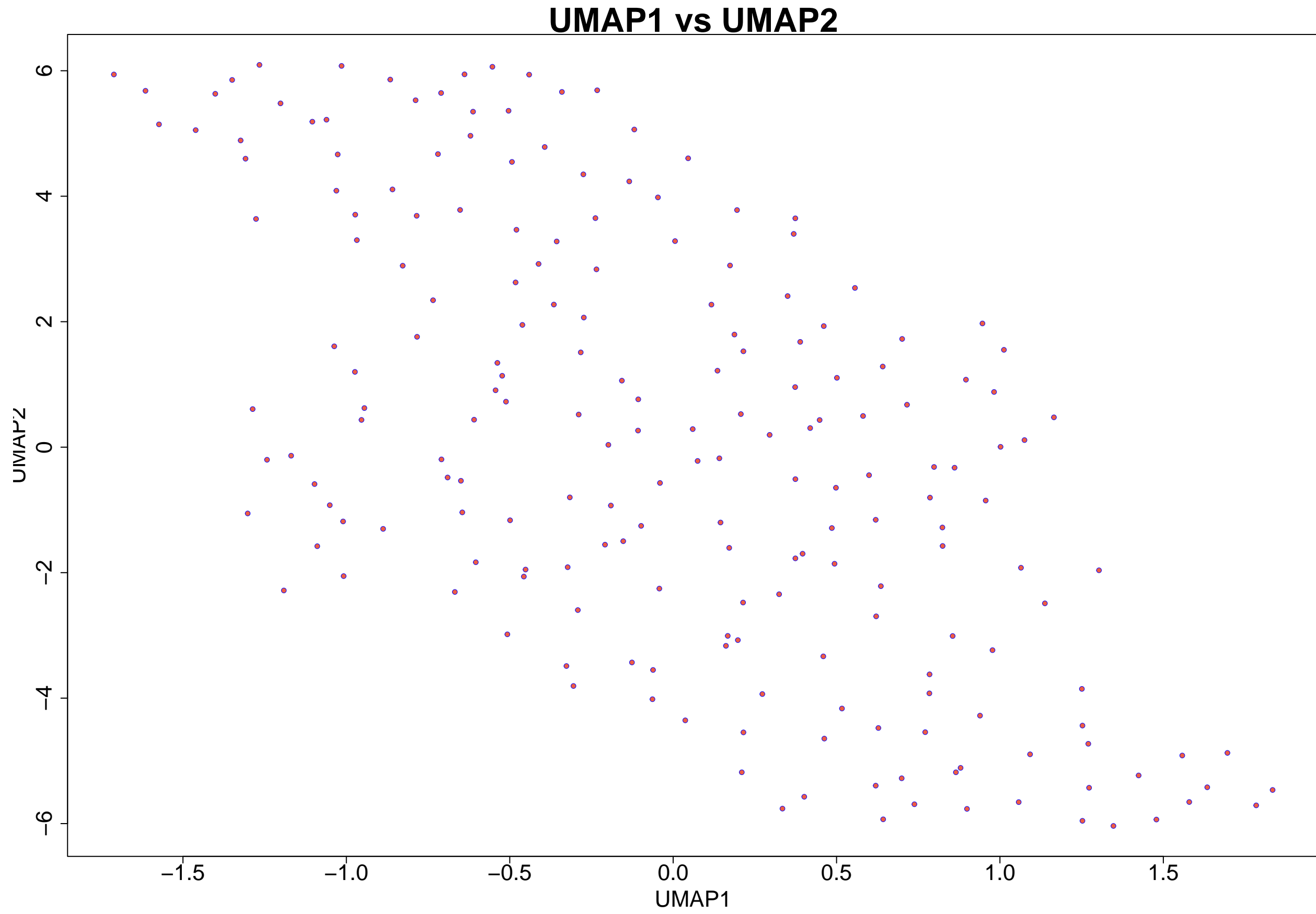




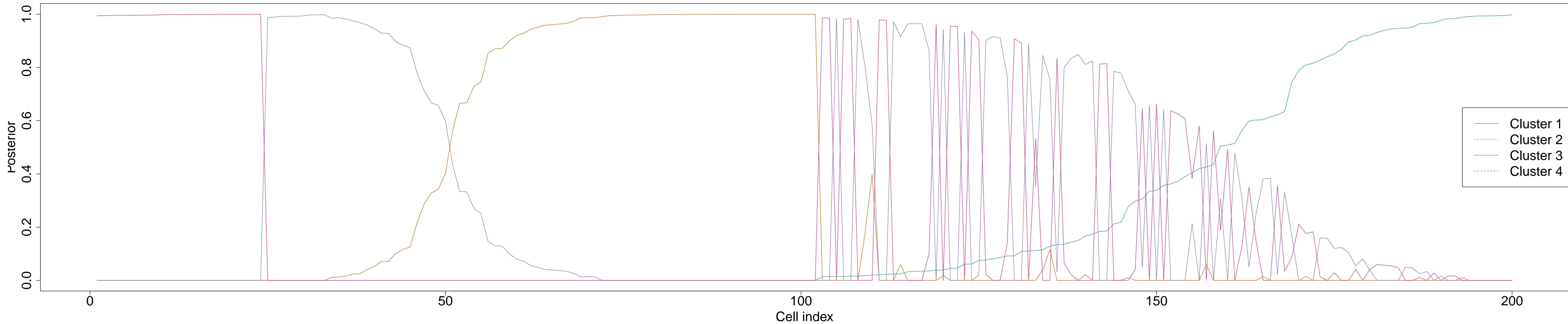
# UMAP Trajectory plot

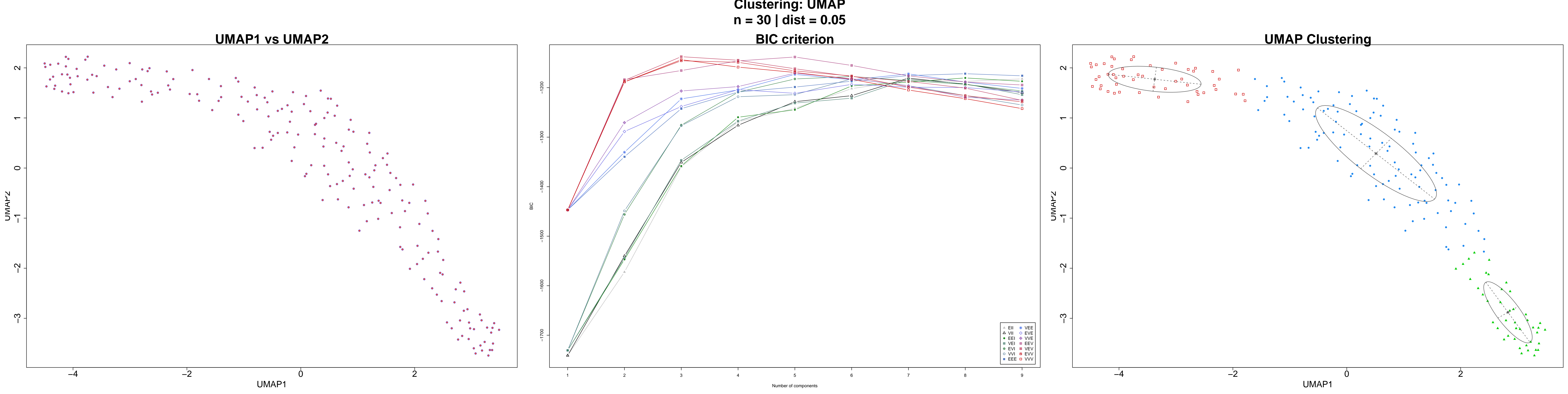


Clustering: UMAP  
n = 25 | dist = 0.4

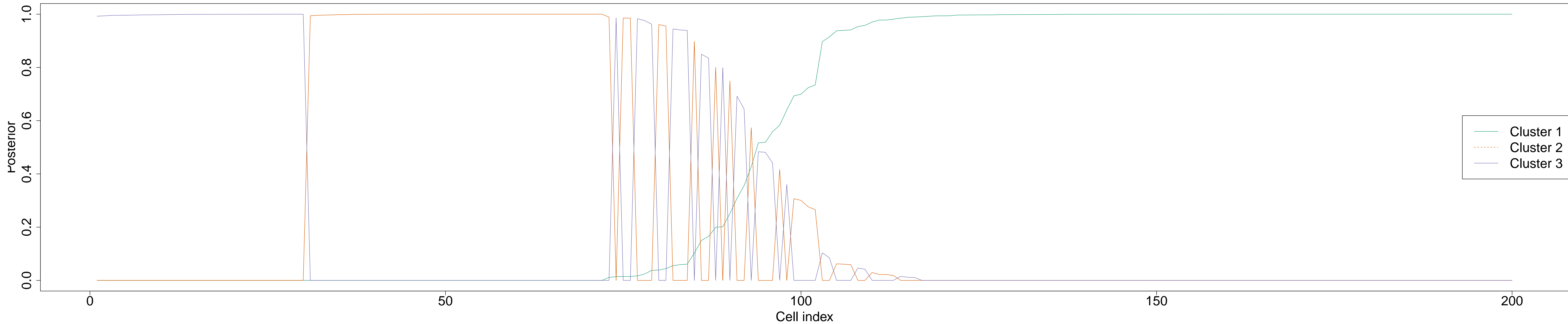


# UMAP Trajectory plot

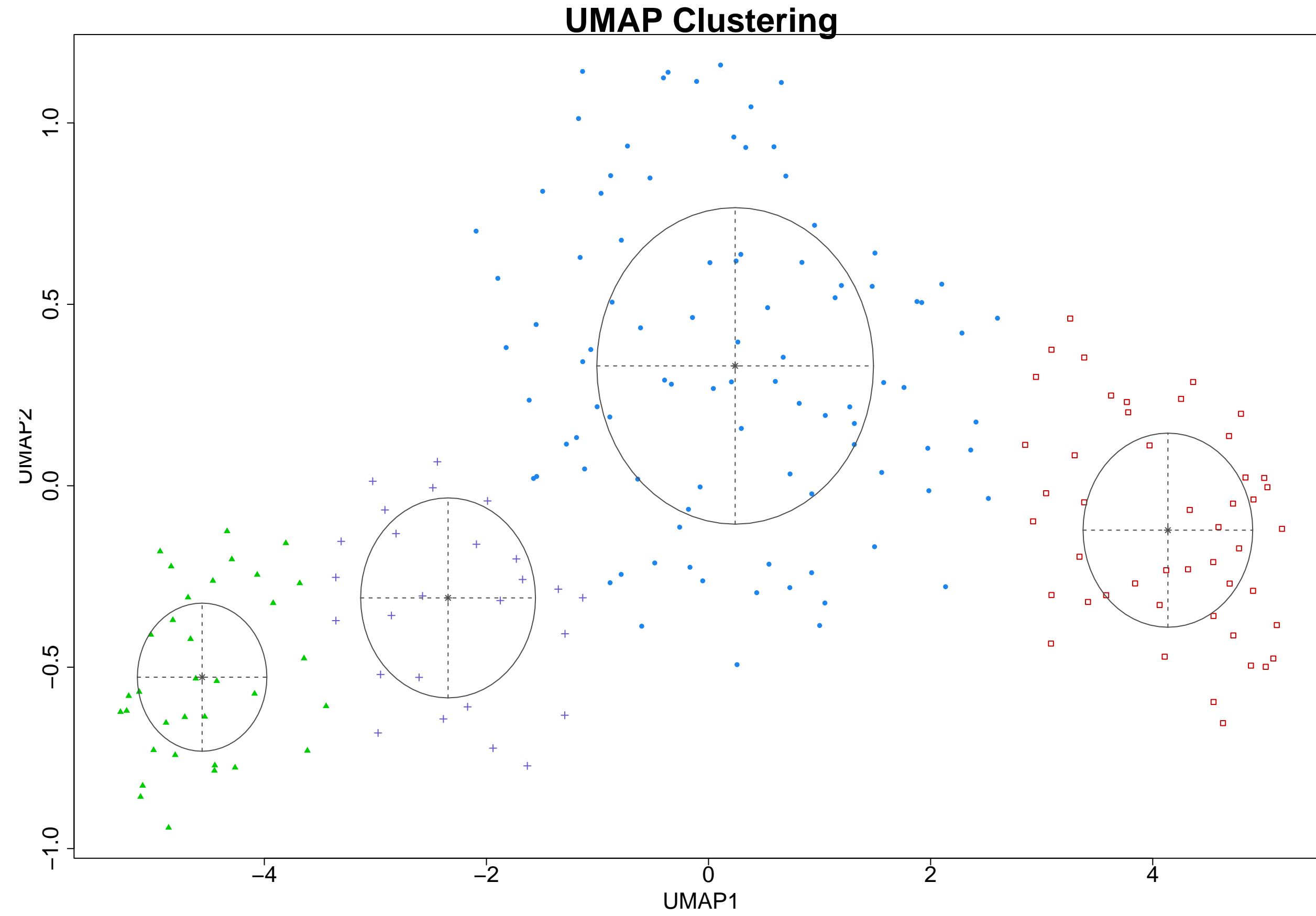
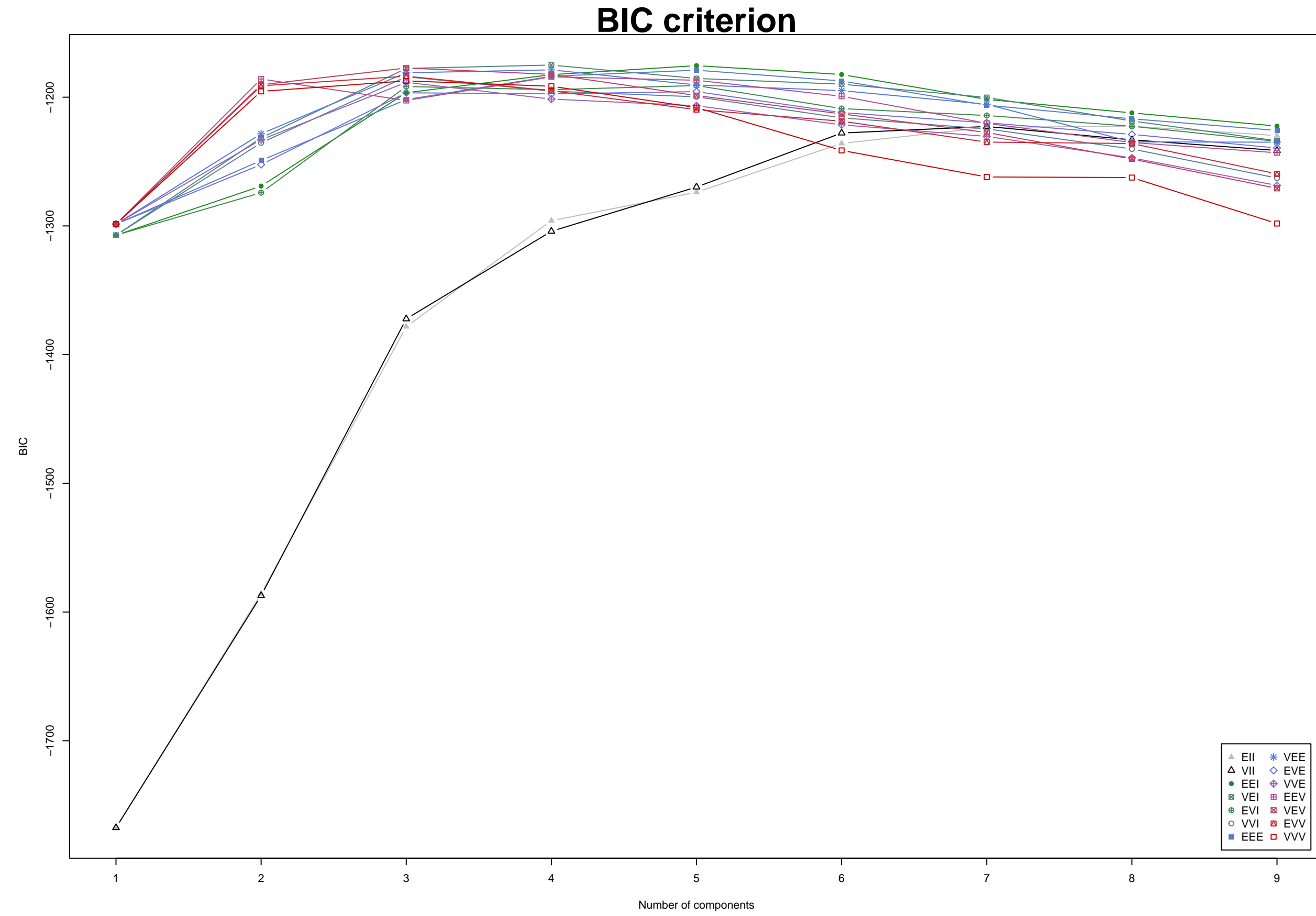
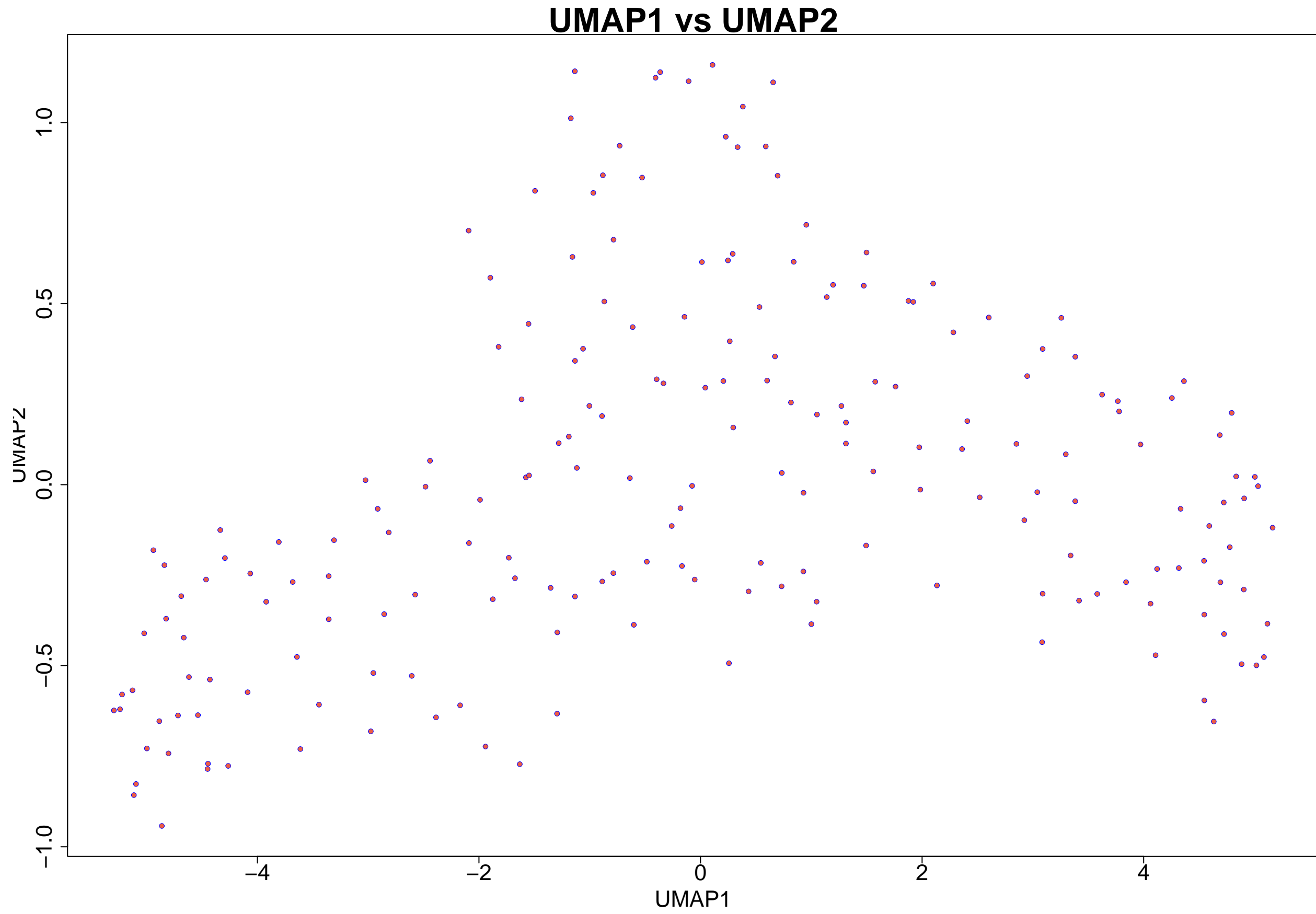




# UMAP Trajectory plot

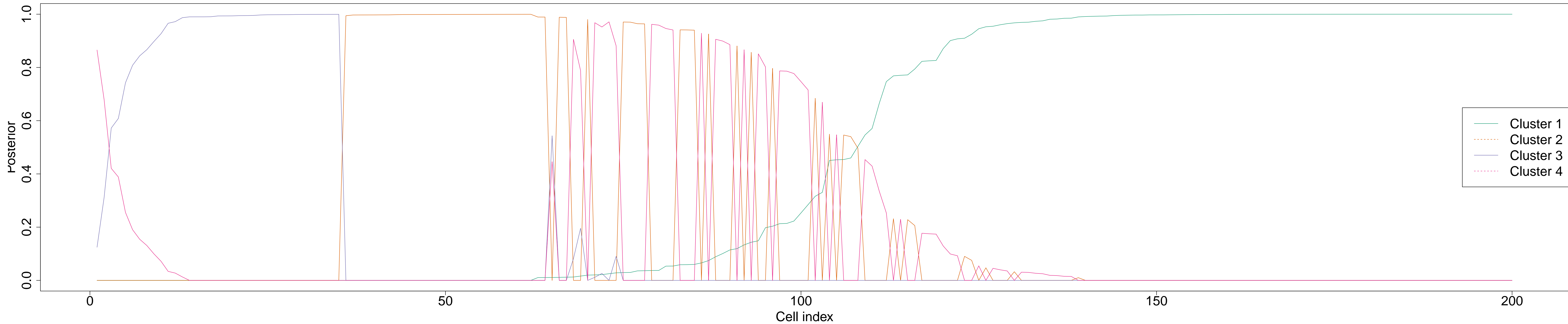


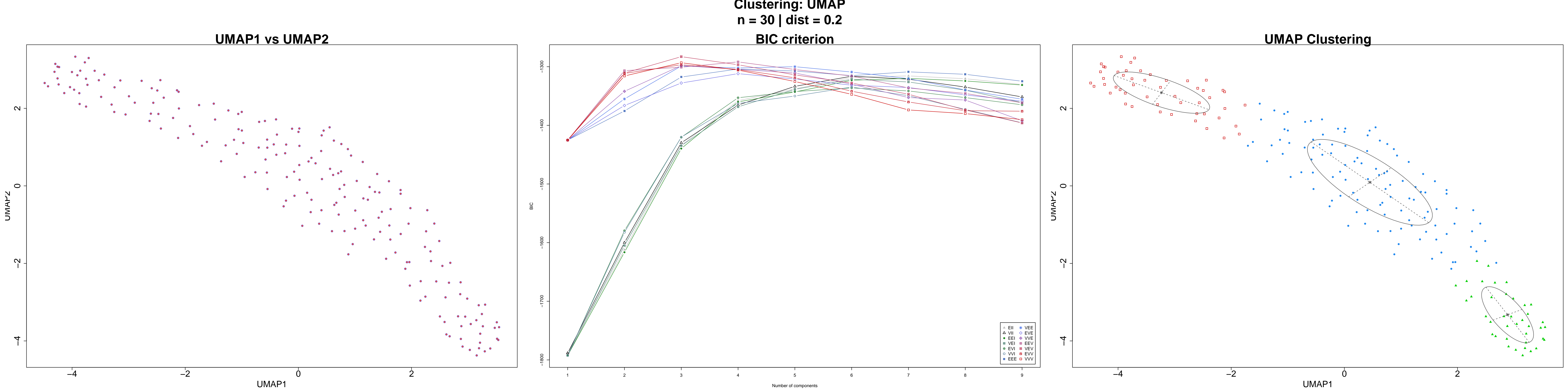
Clustering: UMAP  
n = 30 | dist = 0.1



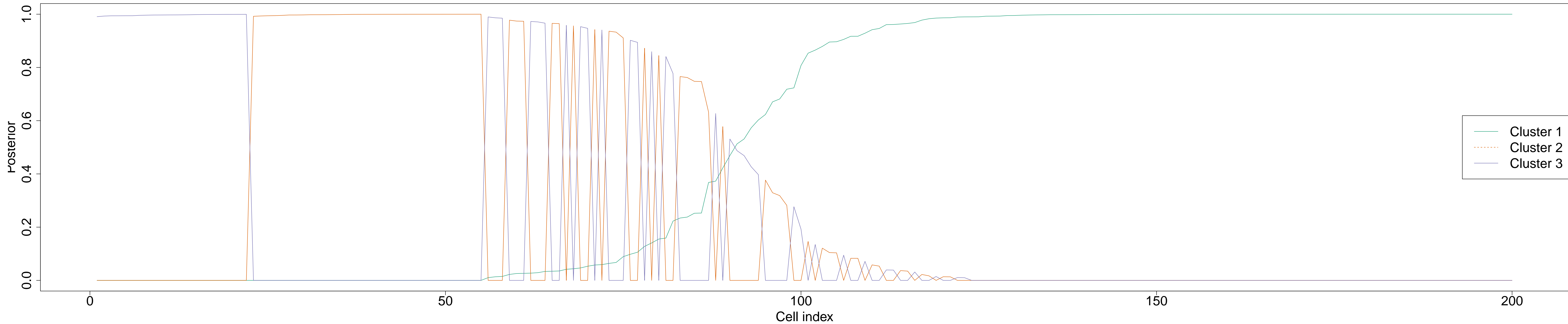


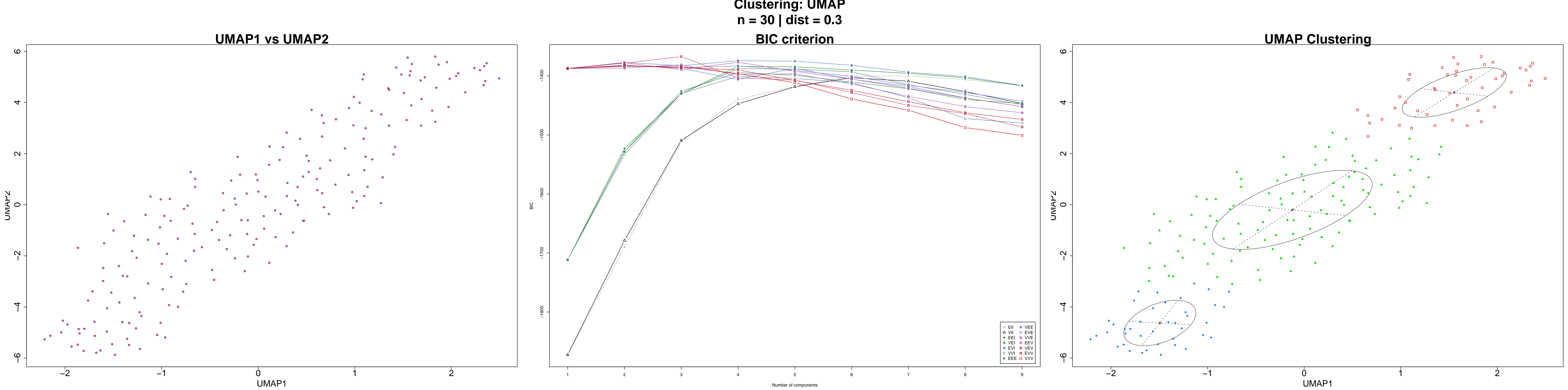
# UMAP Trajectory plot



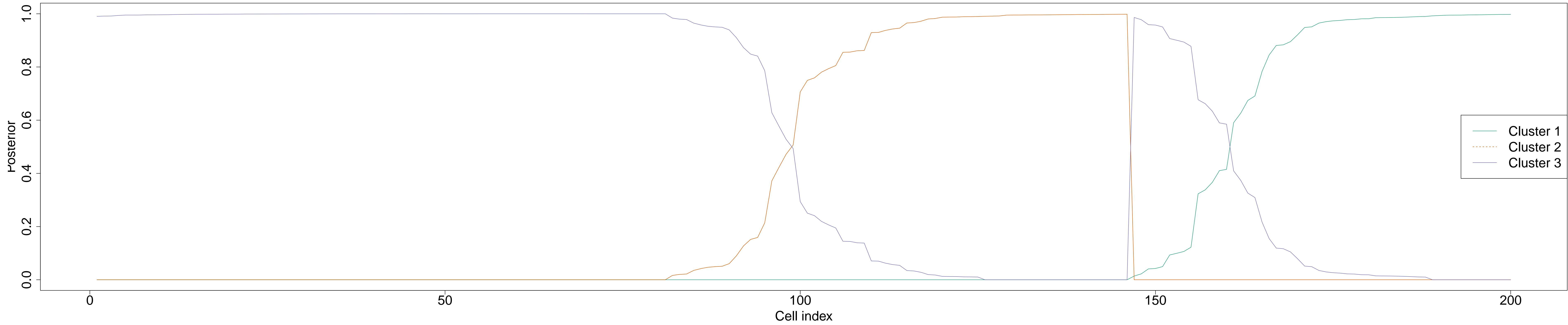


UMAP Trajectory plot

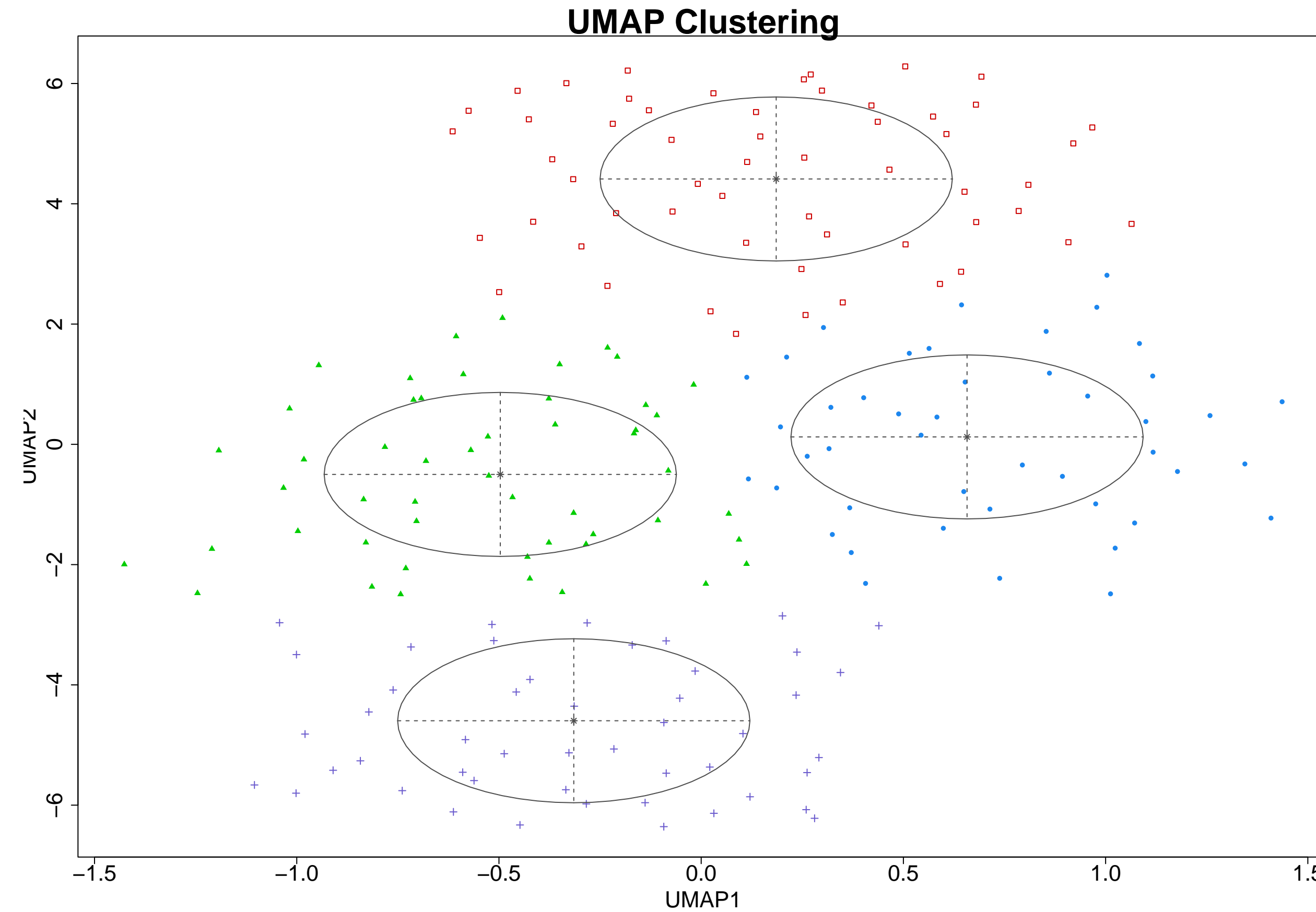
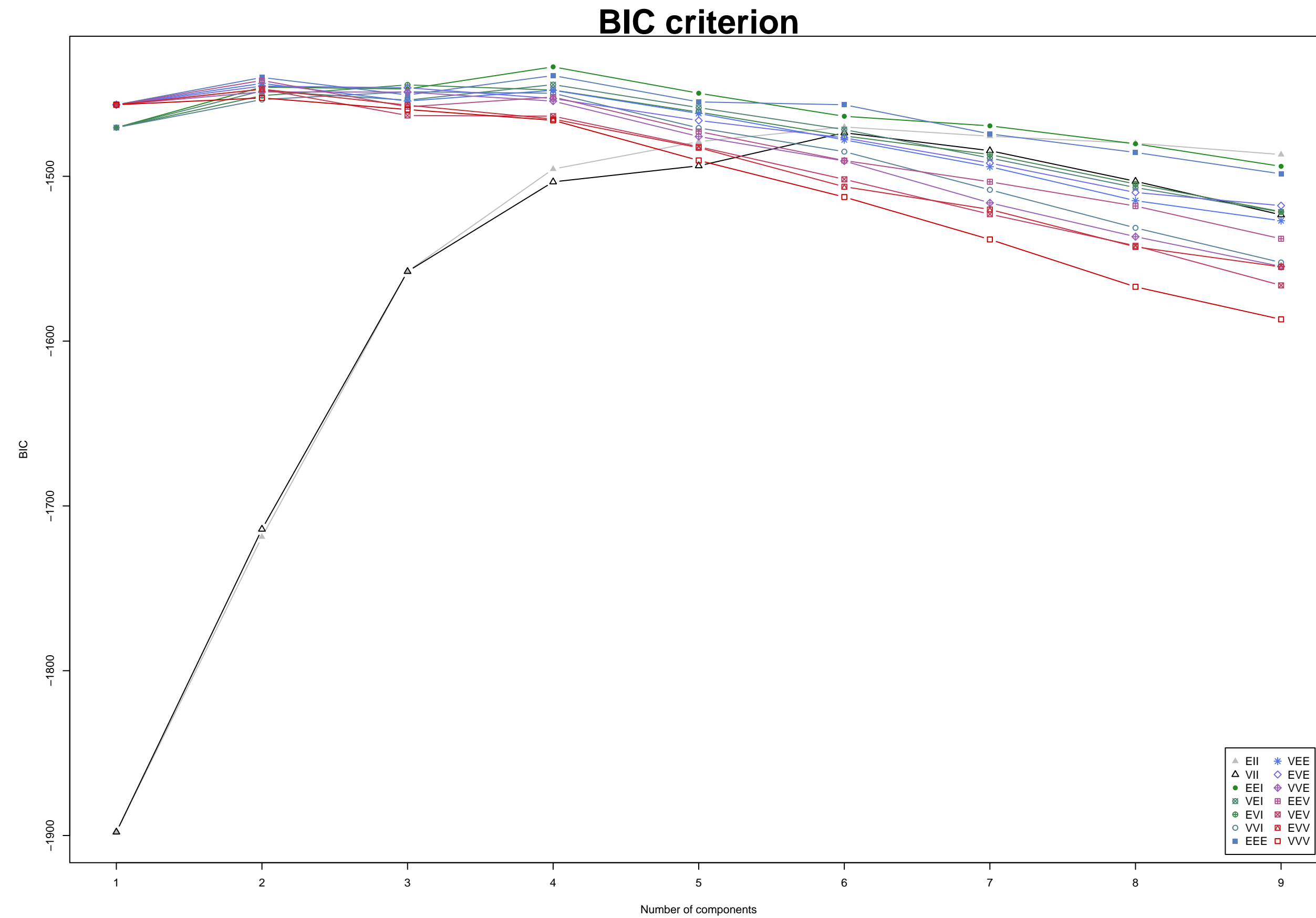
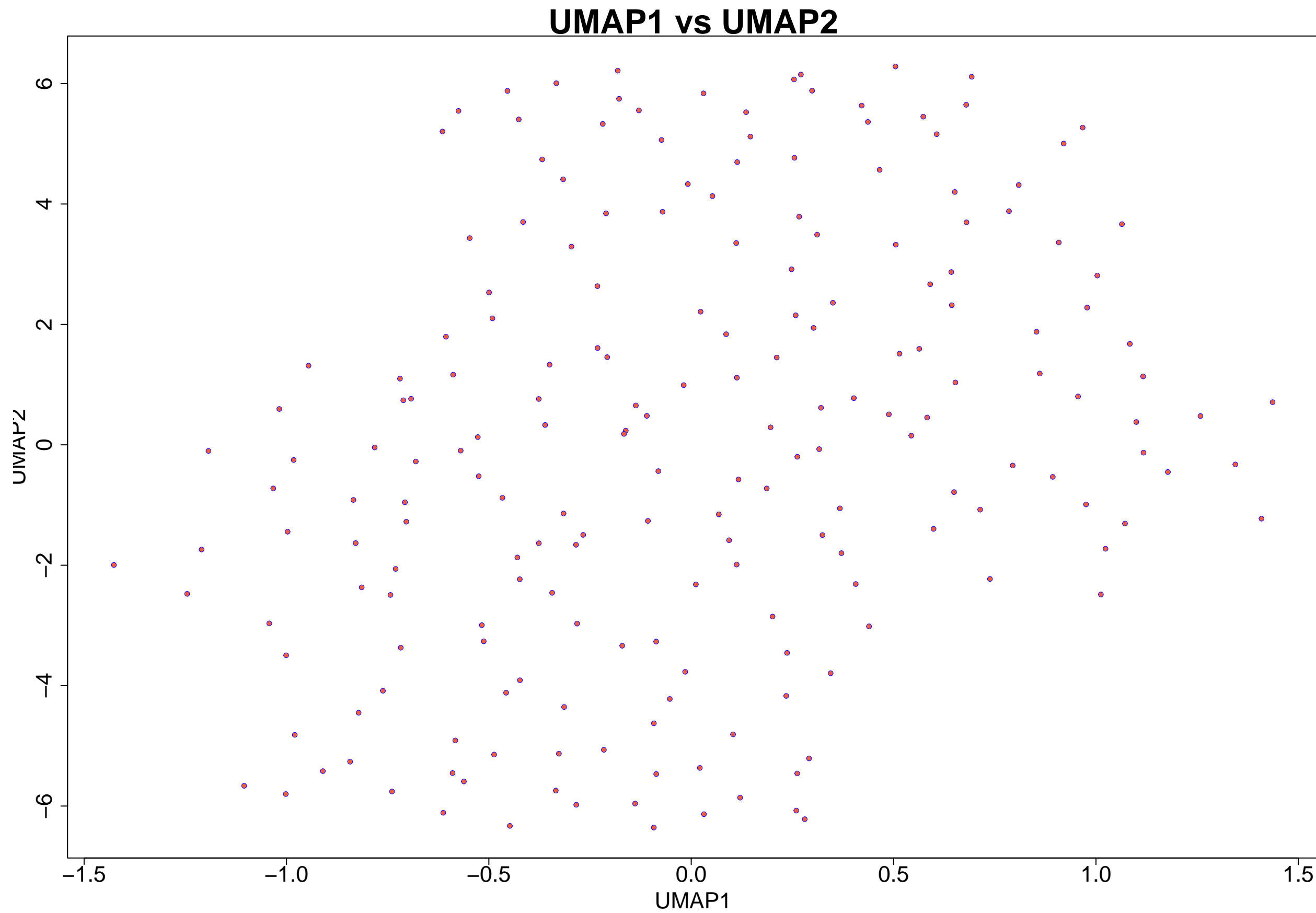




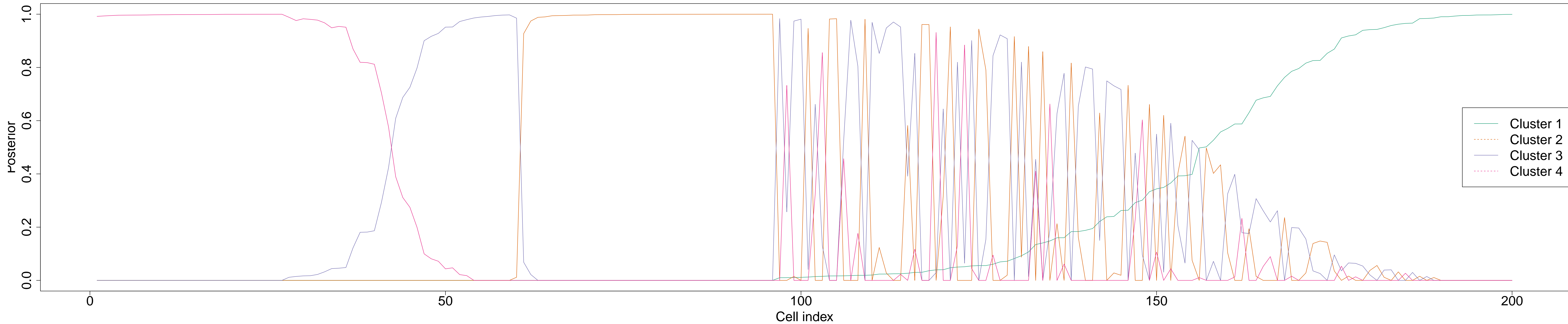
# UMAP Trajectory plot



Clustering: UMAP  
n = 30 | dist = 0.4



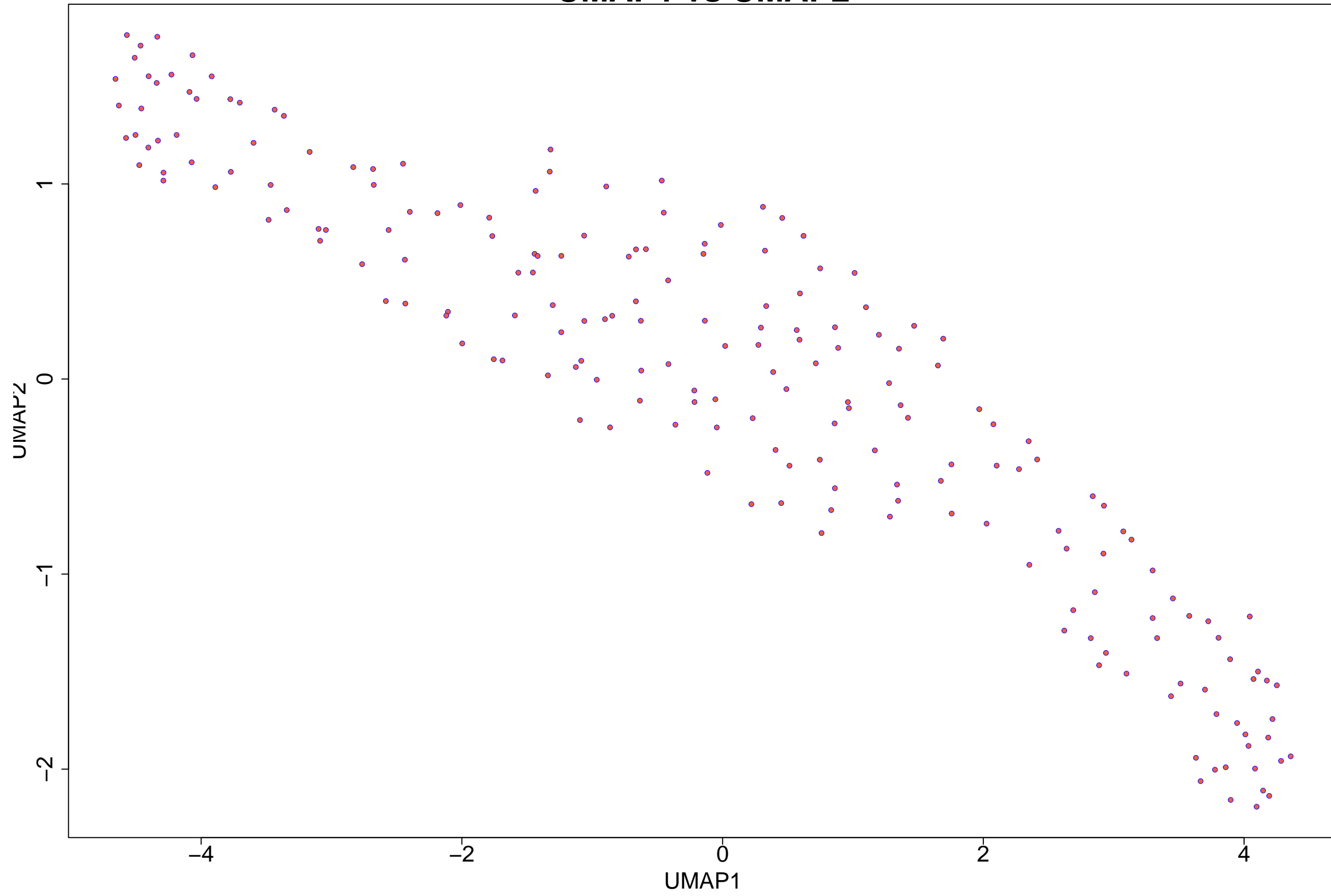
# UMAP Trajectory plot



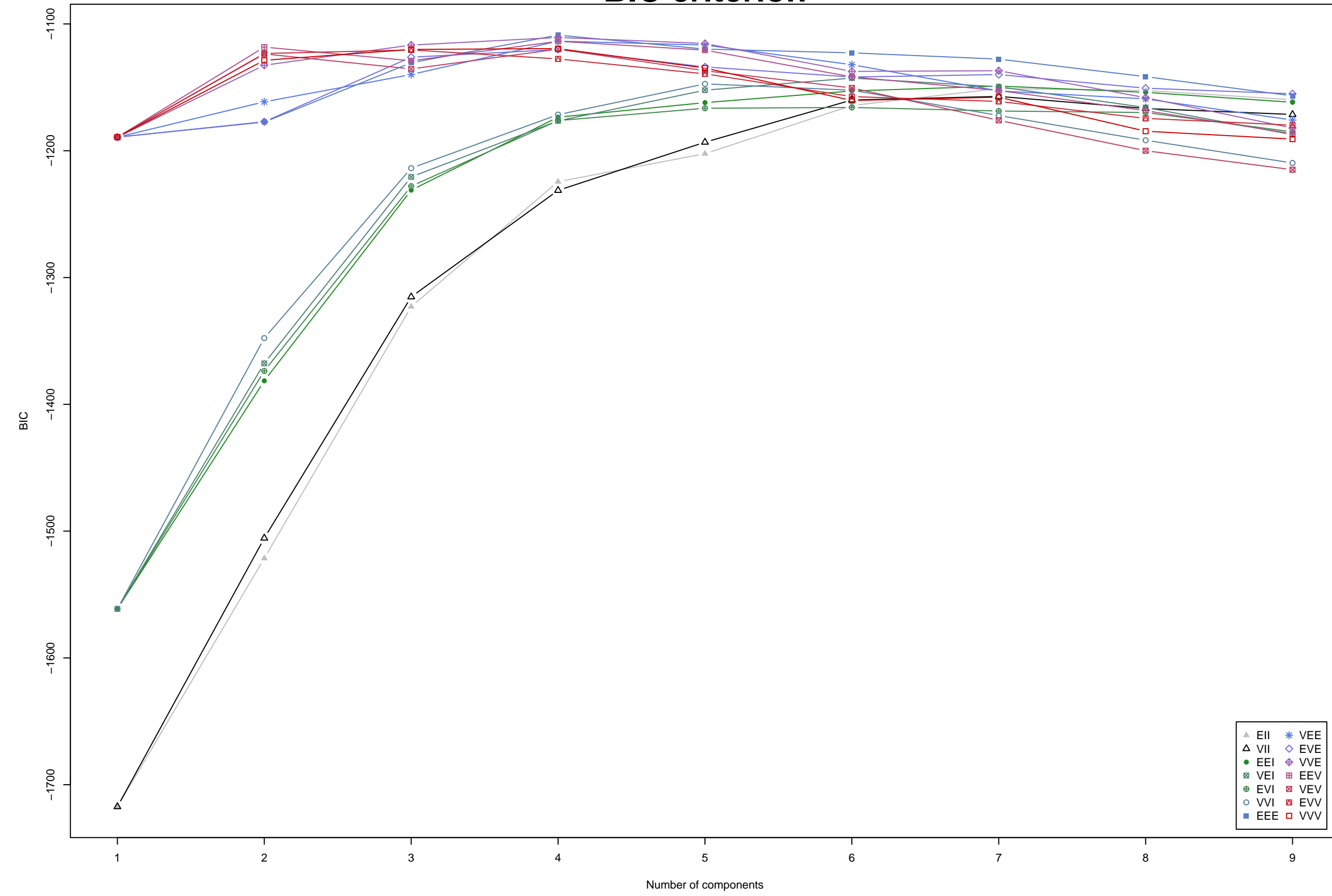


Clustering: UMAP  
n = 35 | dist = 0.05

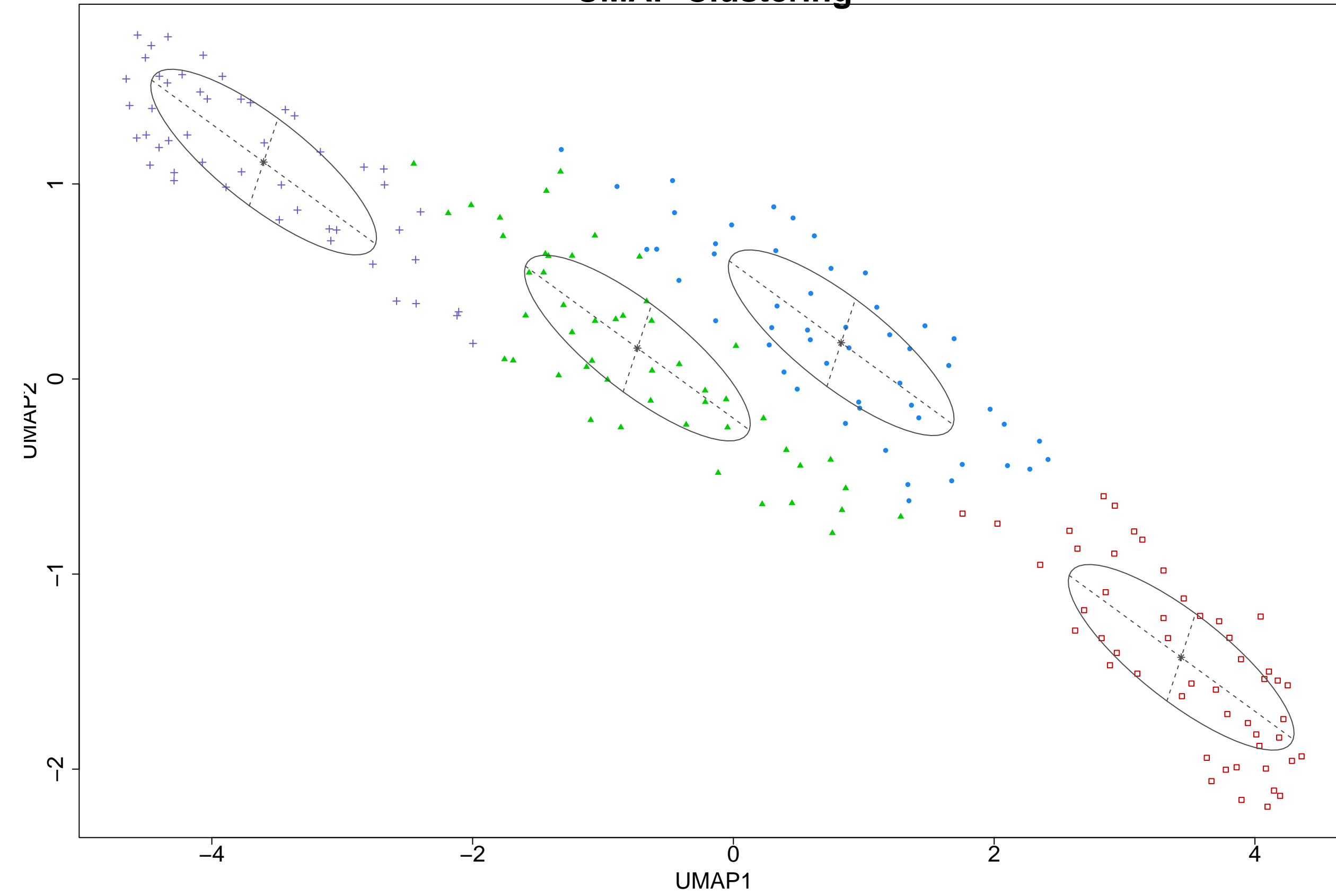
UMAP1 vs UMAP2



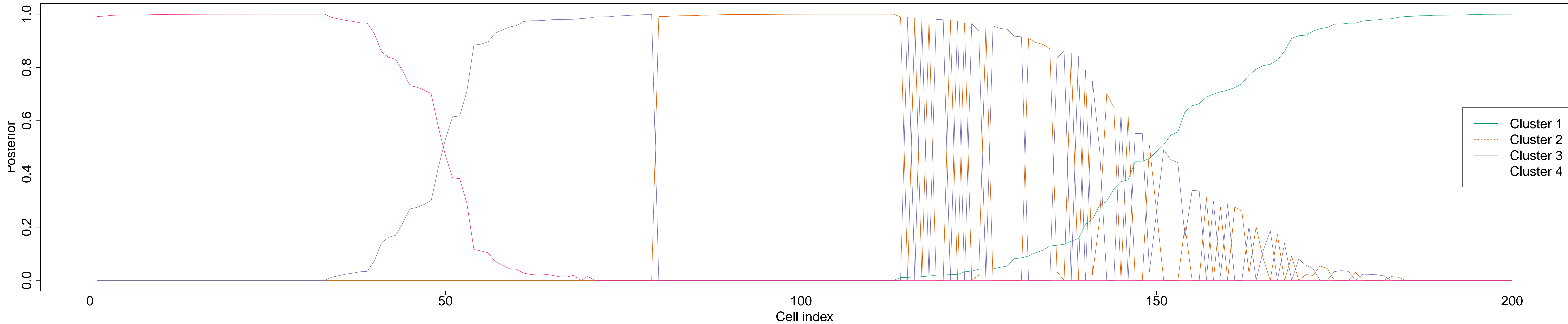
BIC criterion

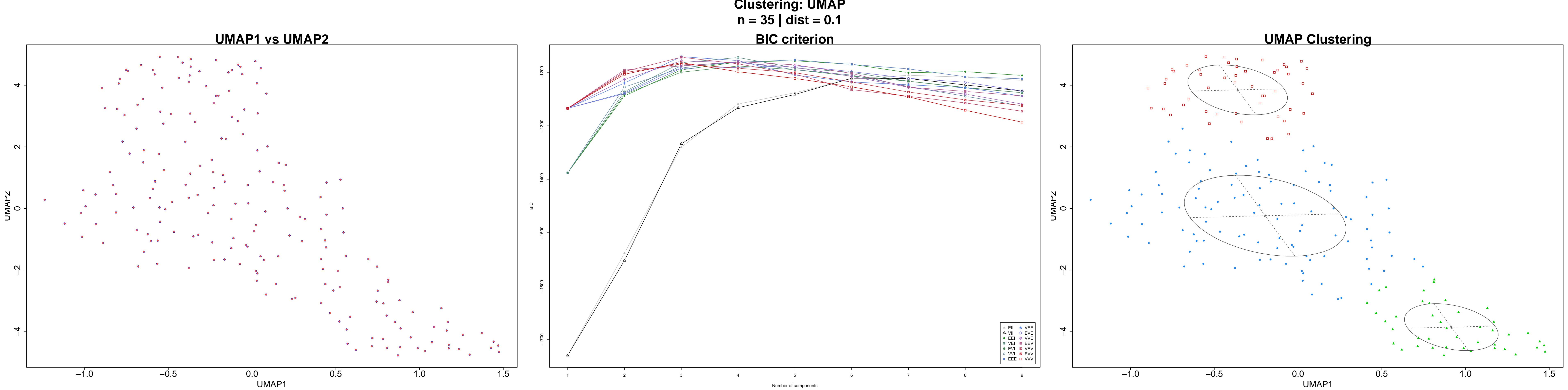


UMAP Clustering

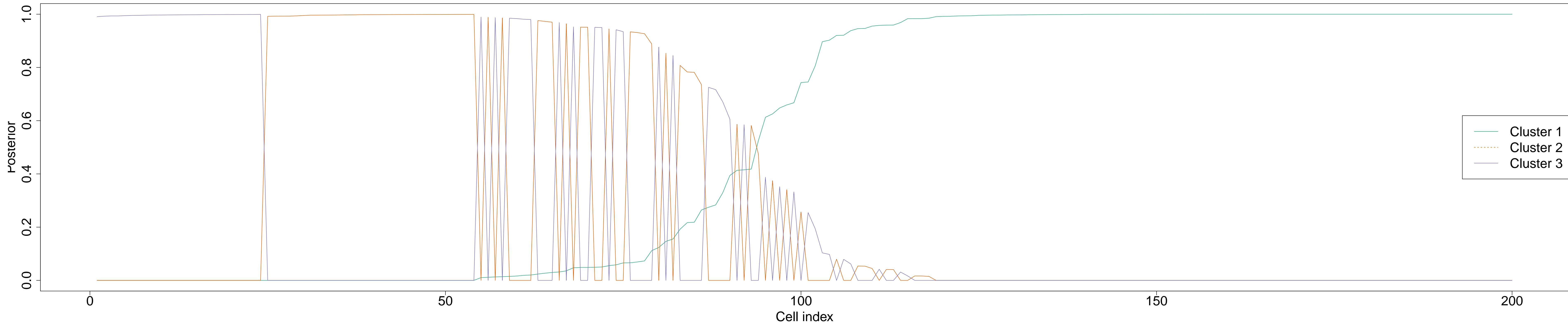


# UMAP Trajectory plot

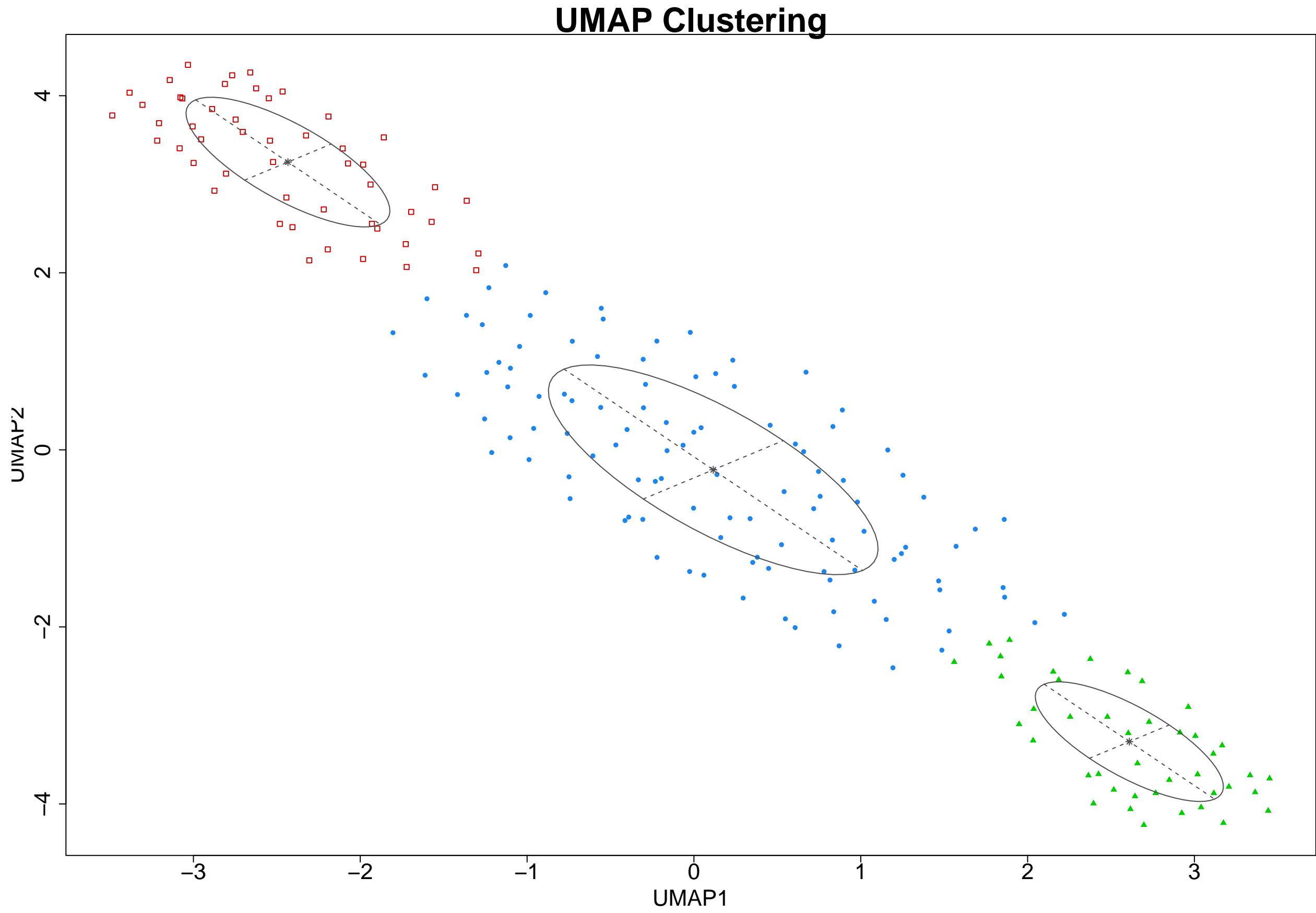
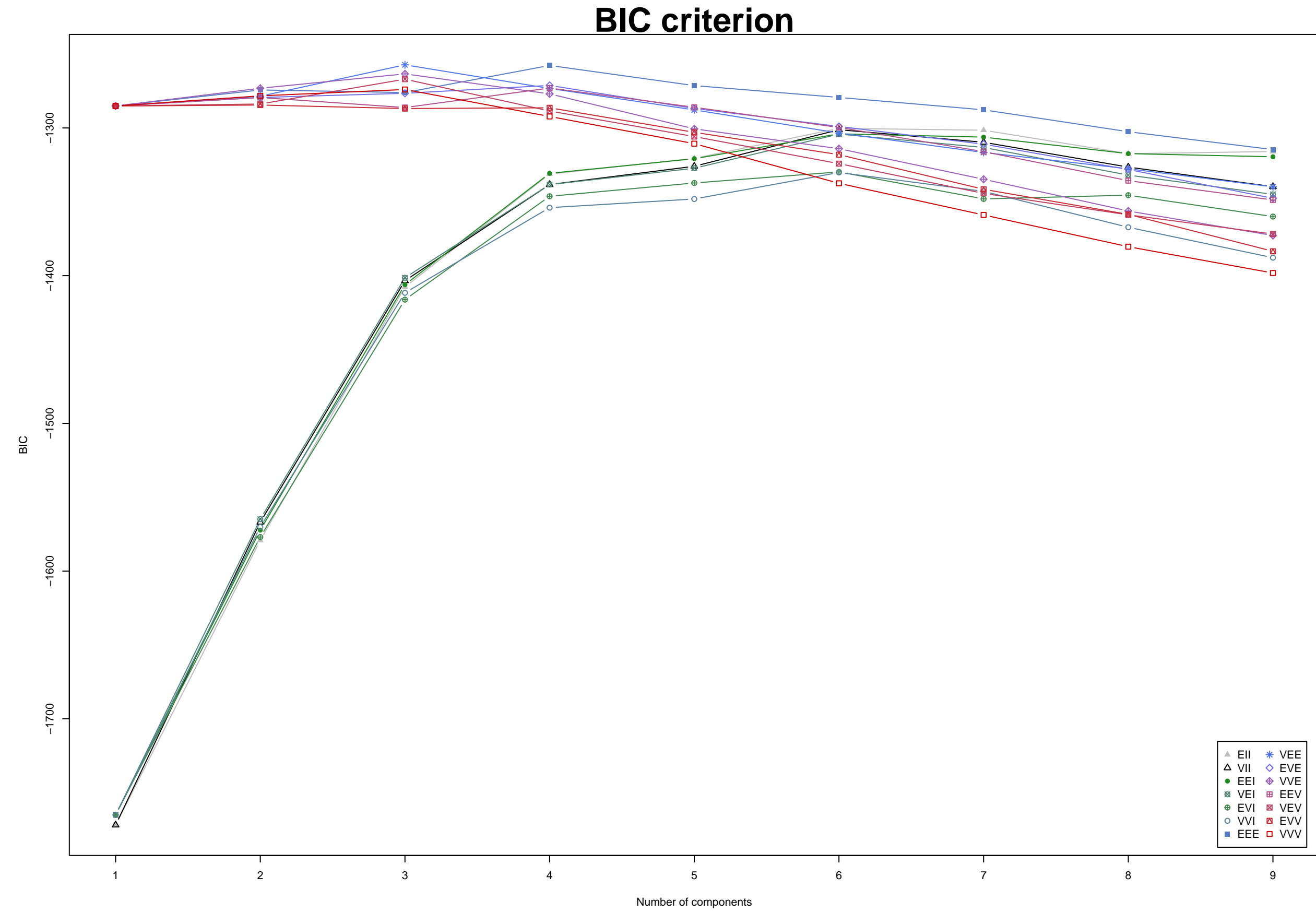
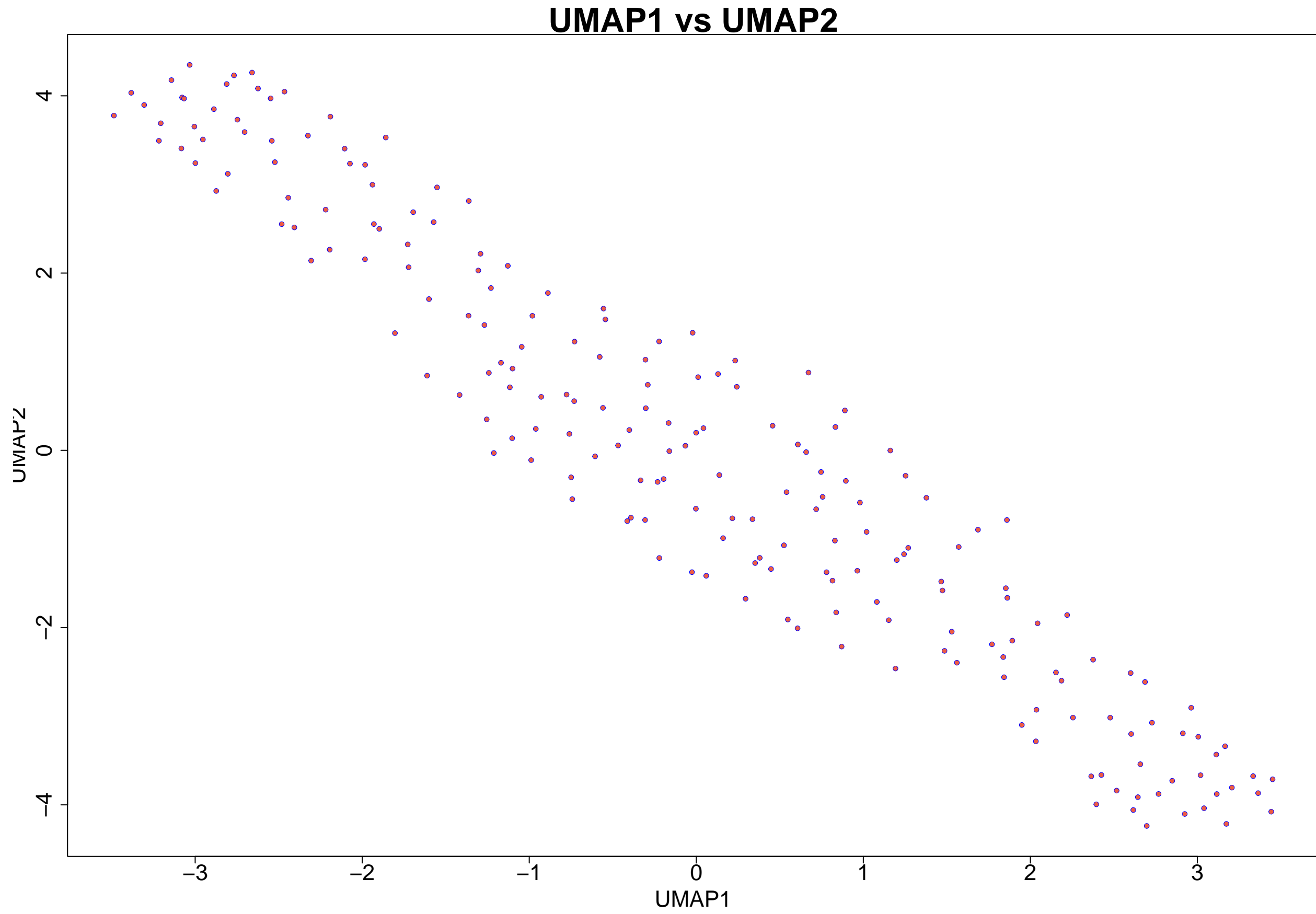




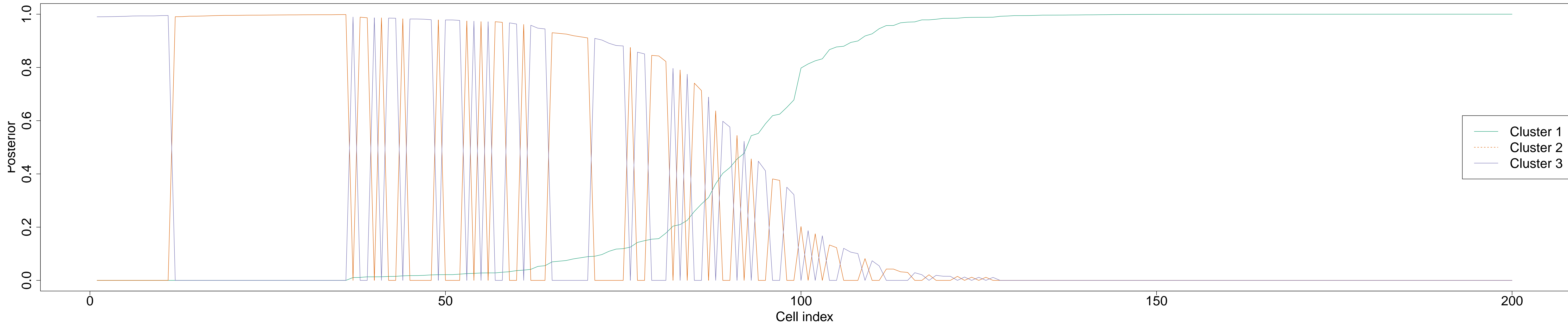
# UMAP Trajectory plot



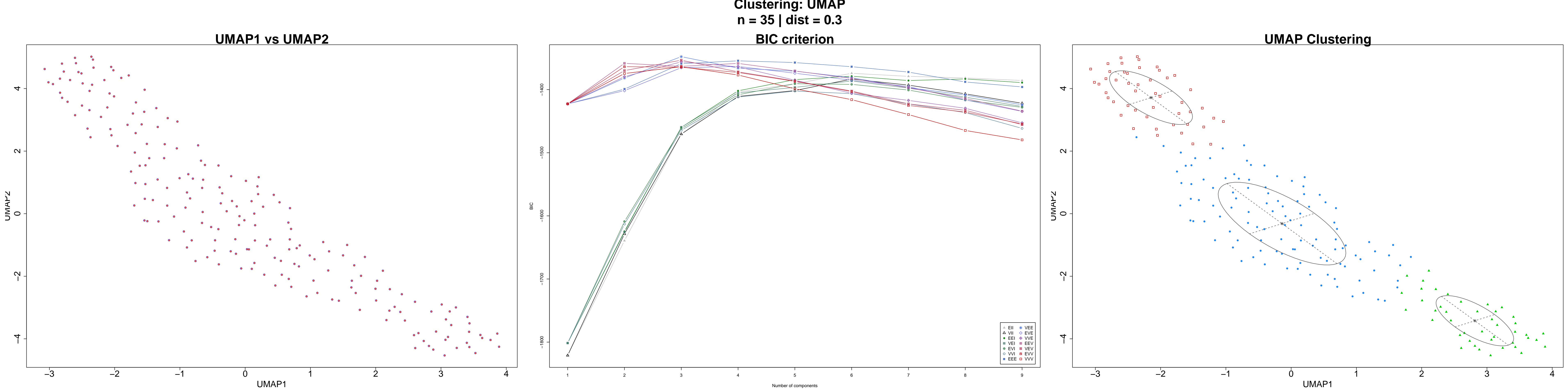
Clustering: UMAP  
n = 35 | dist = 0.2



UMAP Trajectory plot

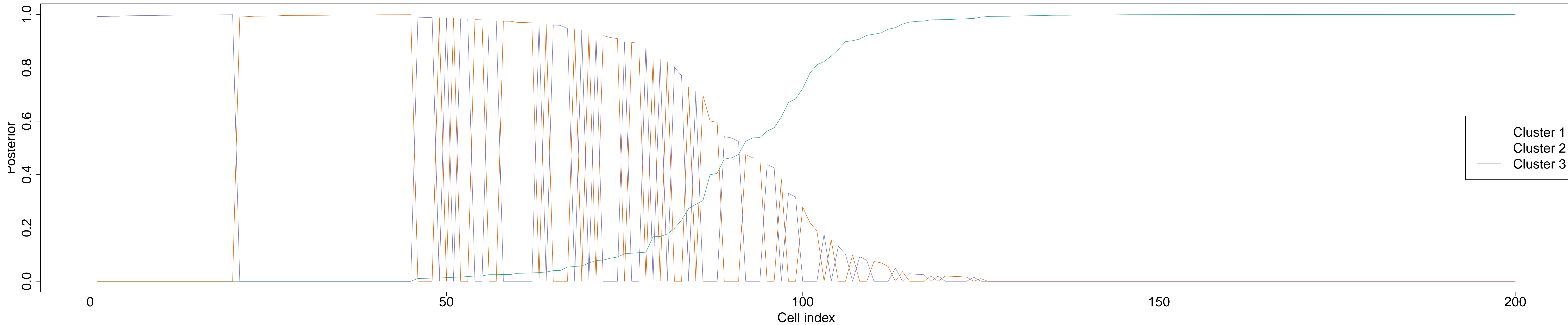


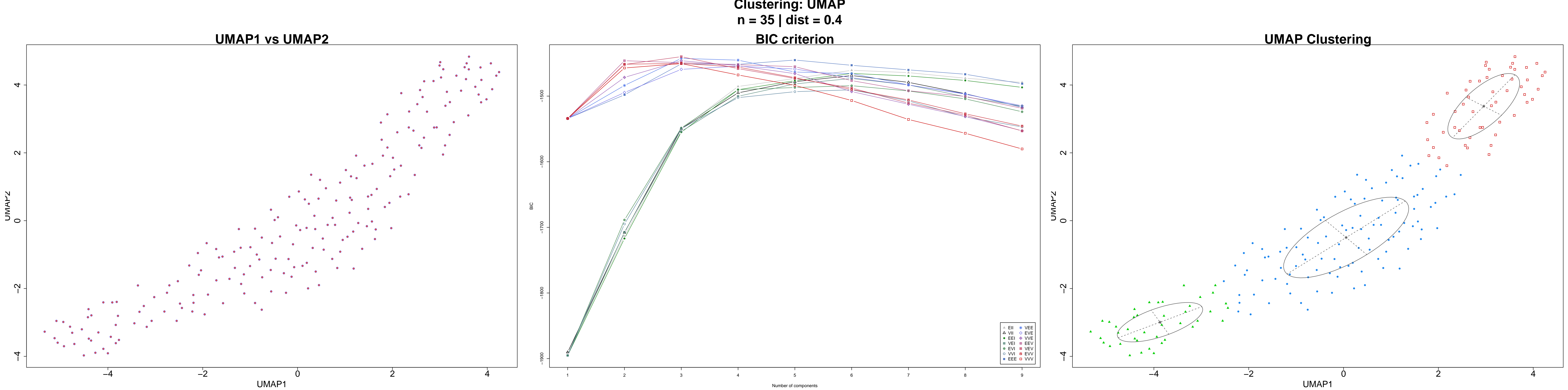




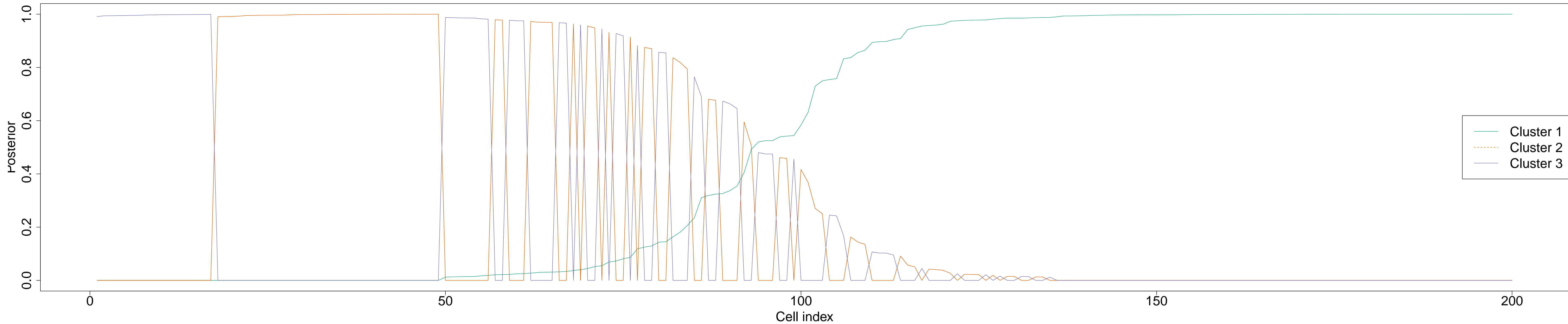


UMAP Trajectory plot



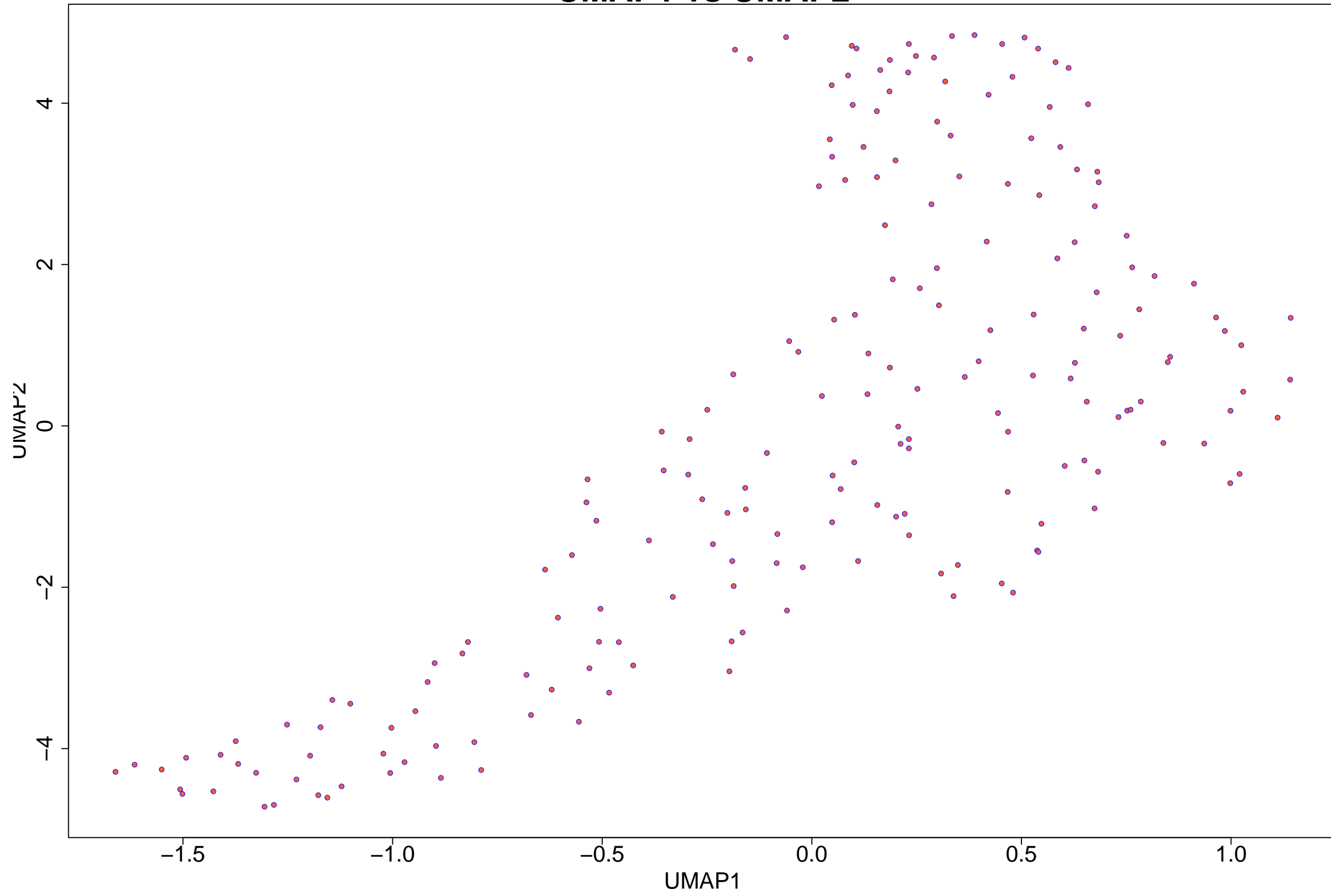


UMAP Trajectory plot

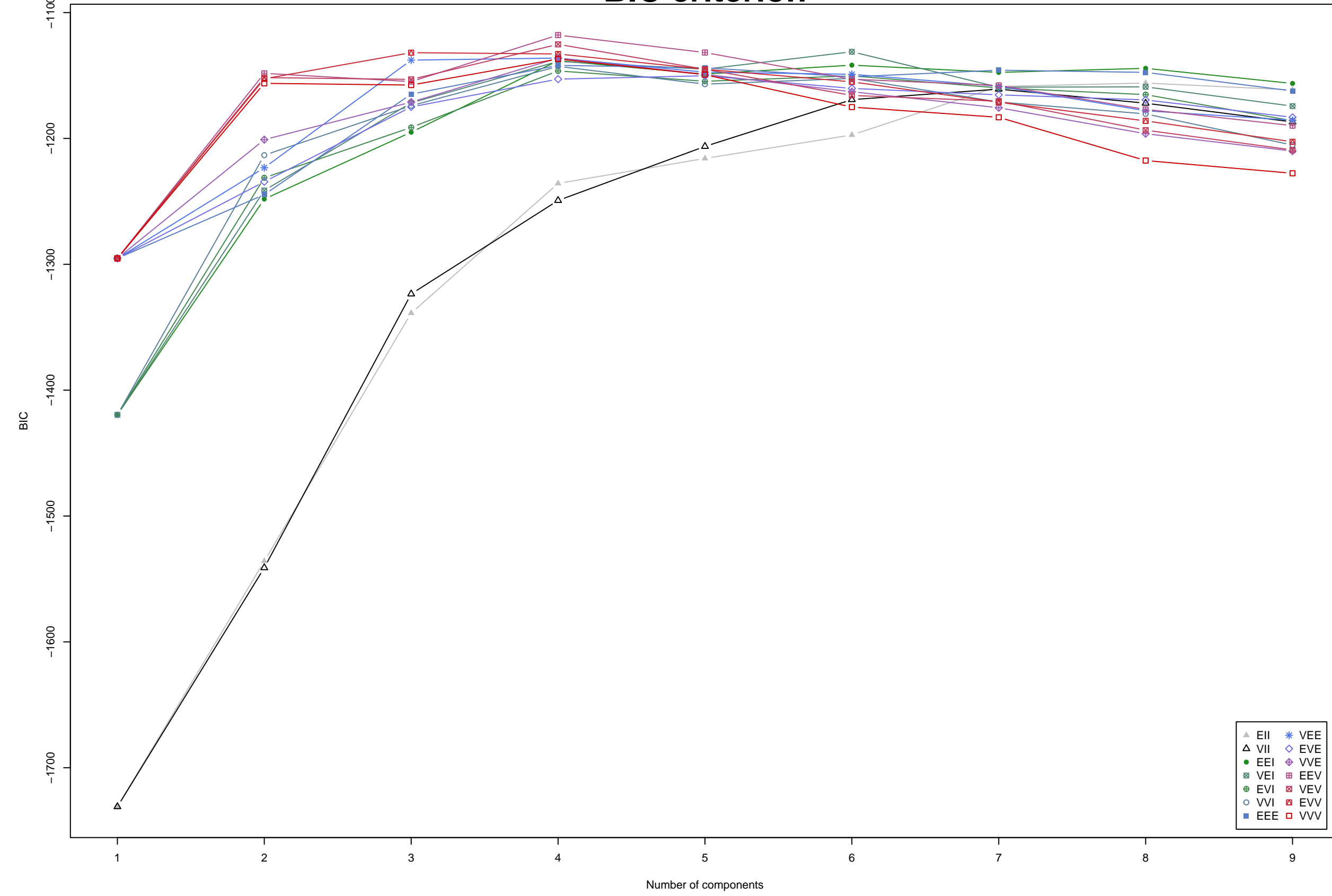


Clustering: UMAP  
n = 40 | dist = 0.05

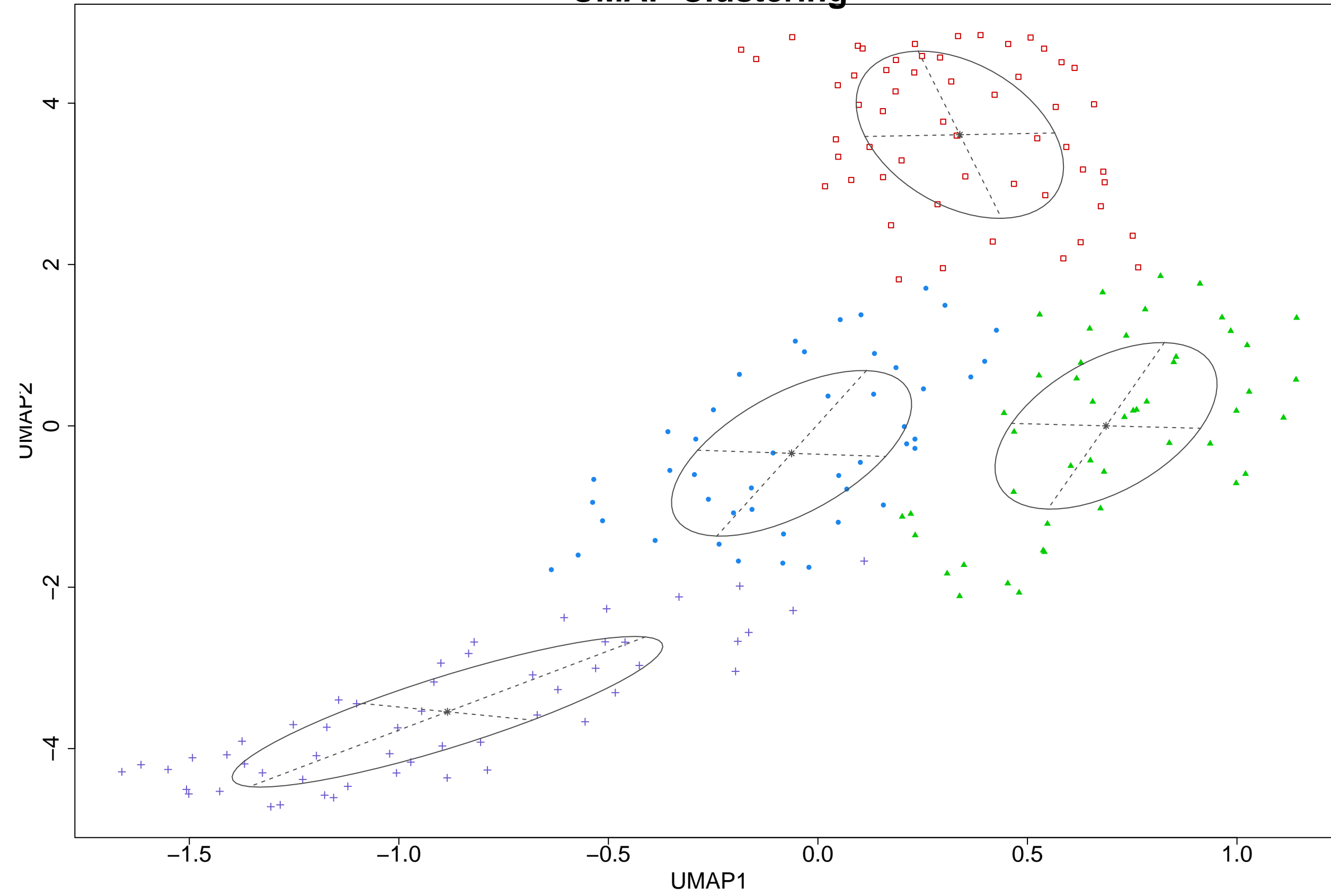
UMAP1 vs UMAP2



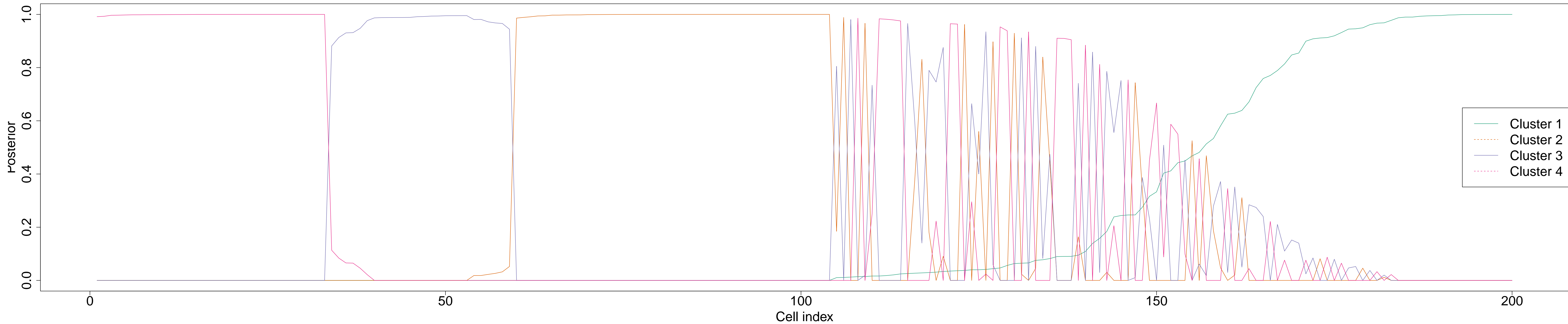
BIC criterion

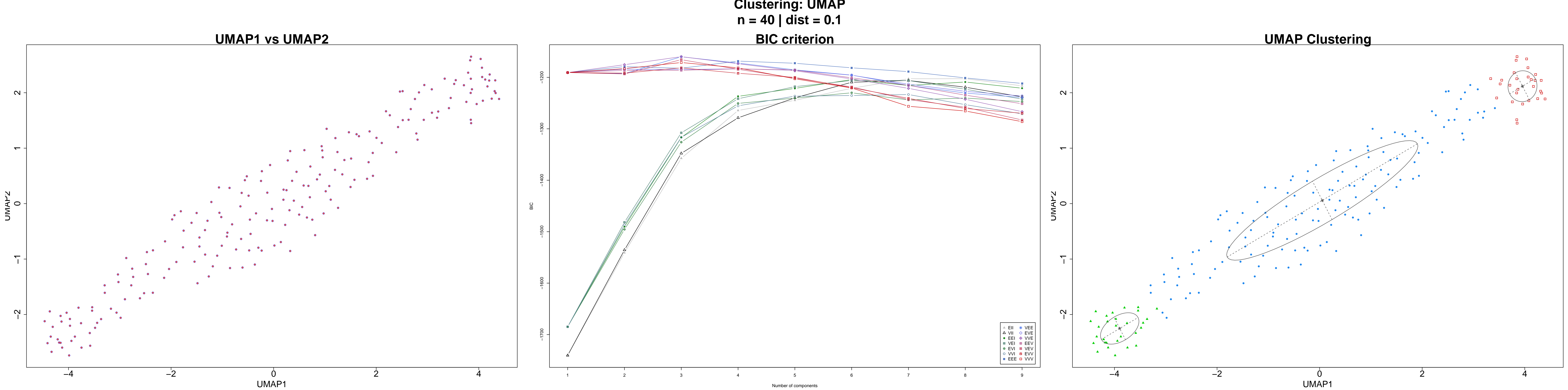


UMAP Clustering



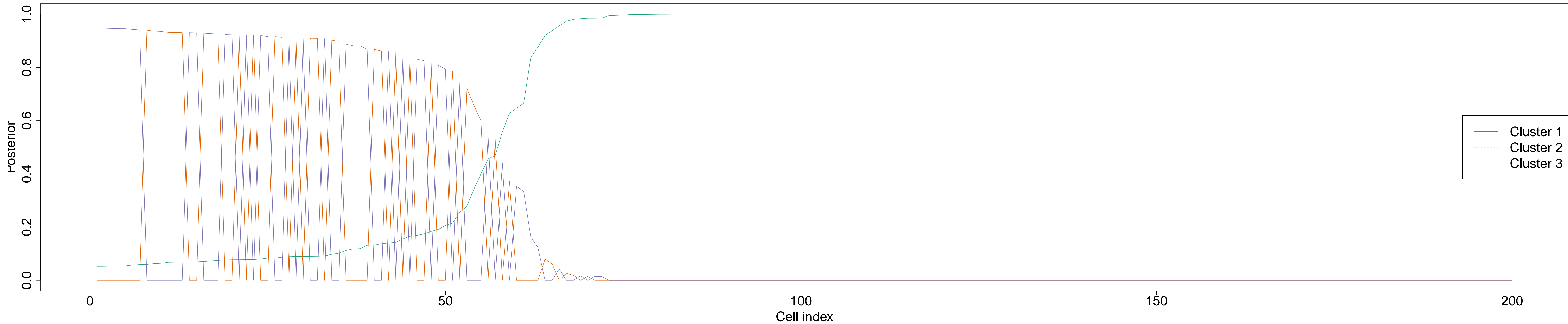
# UMAP Trajectory plot





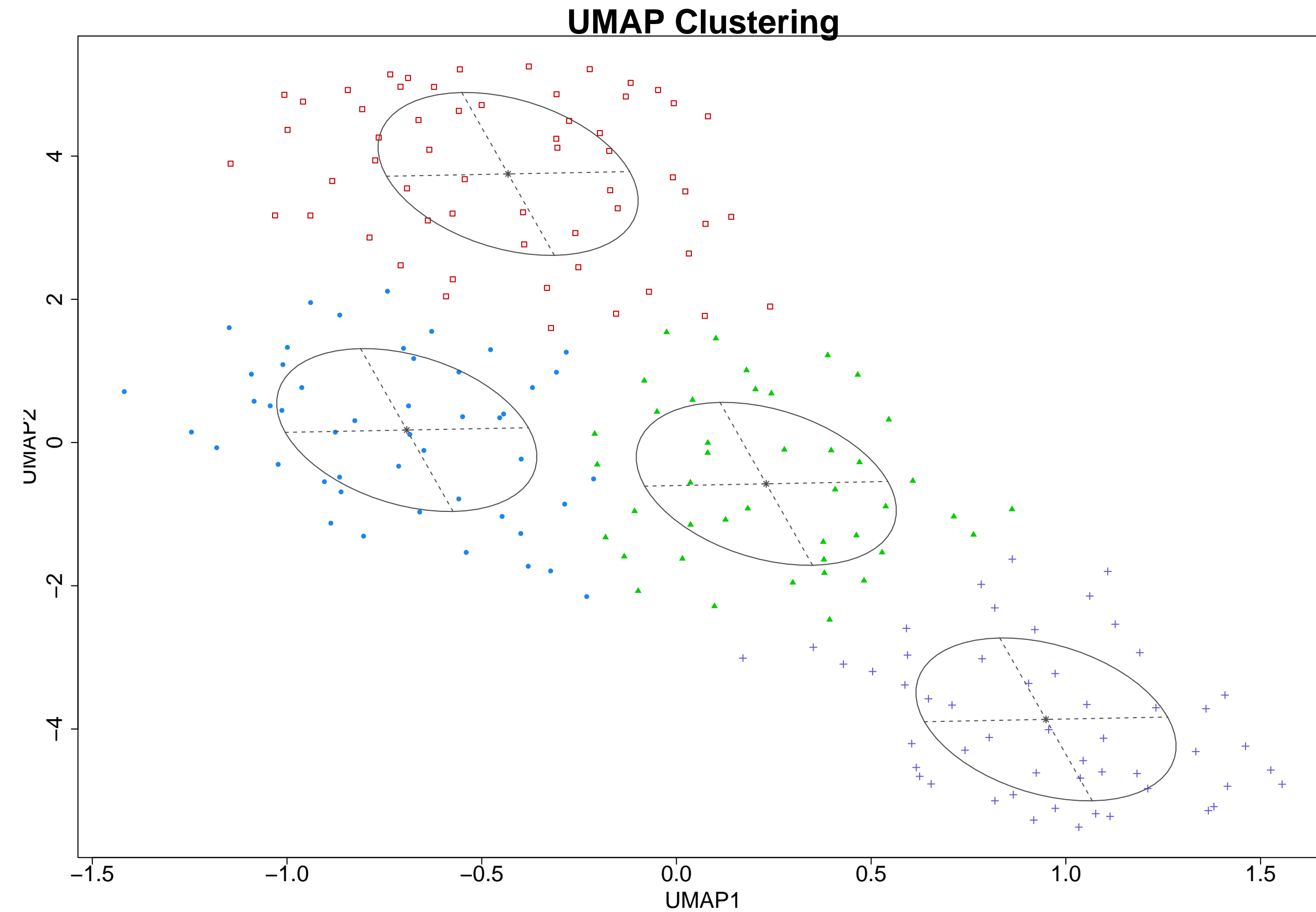
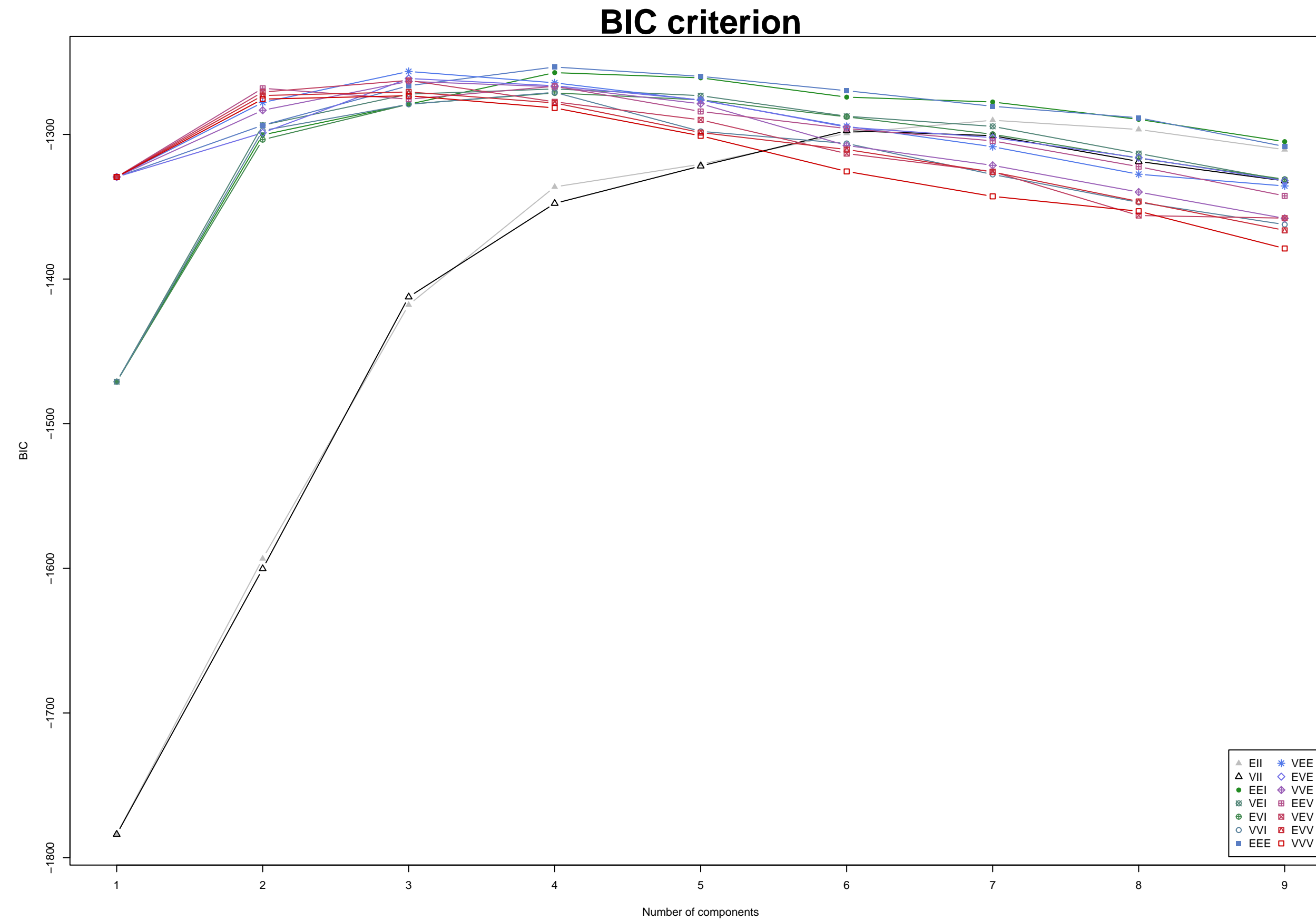
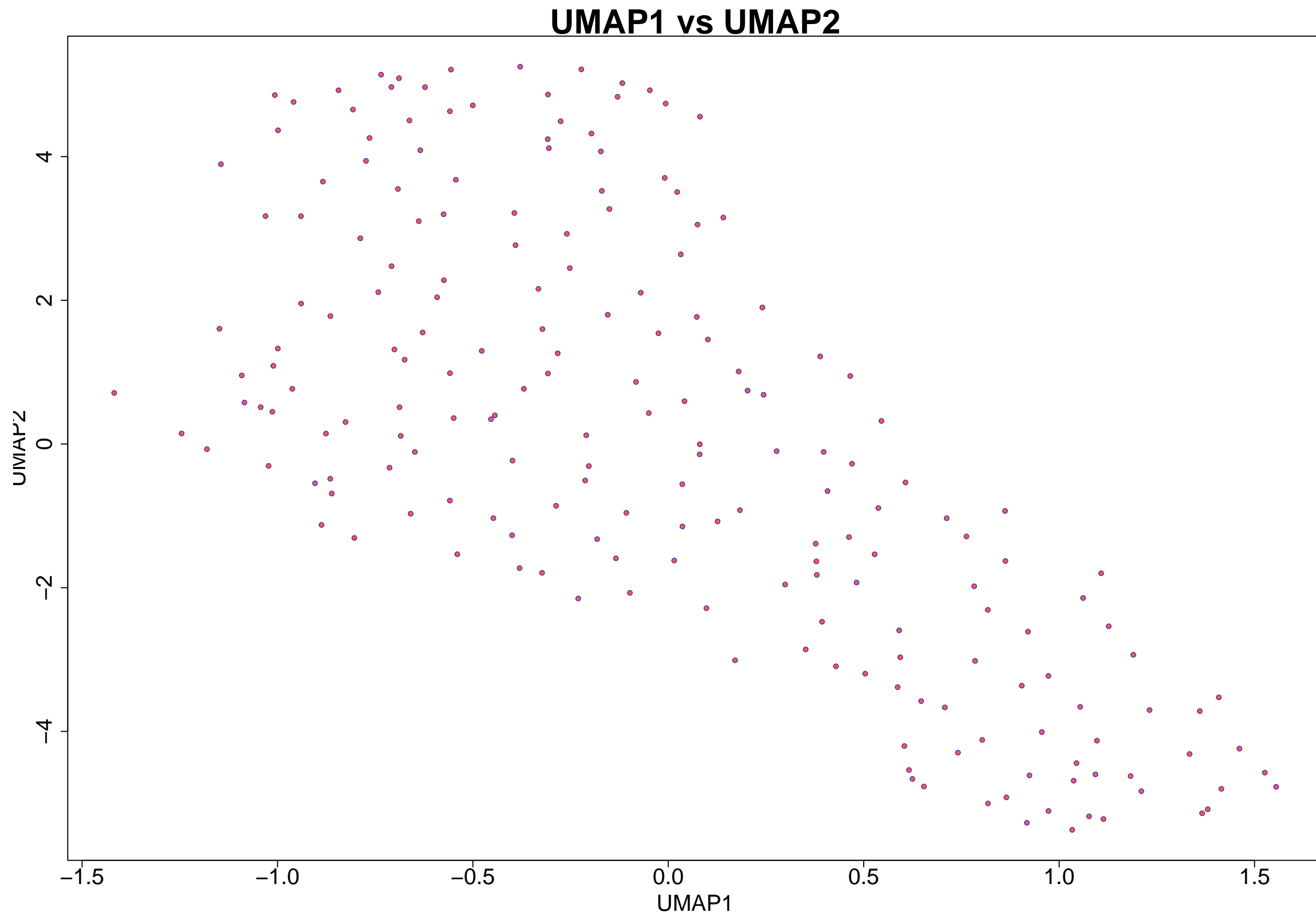


UMAP Trajectory plot

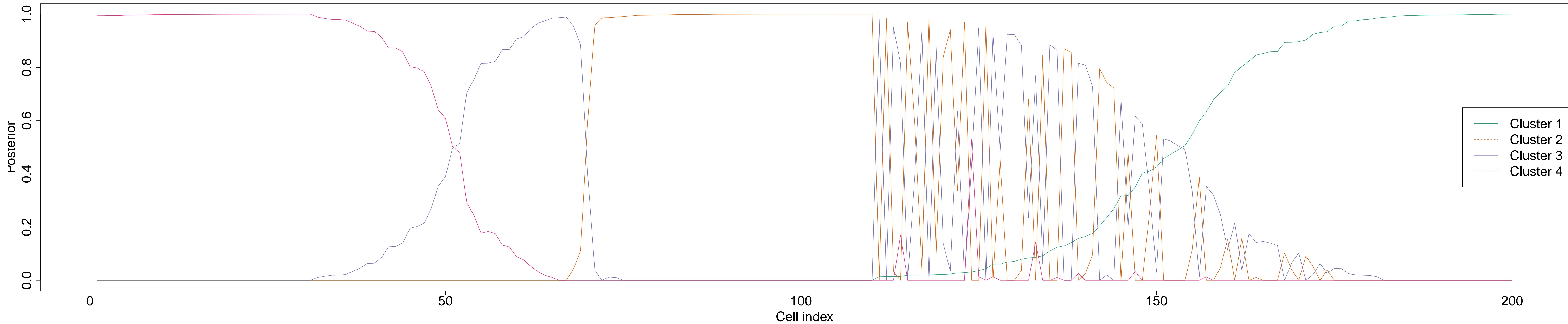




Clustering: UMAP  
n = 40 | dist = 0.2

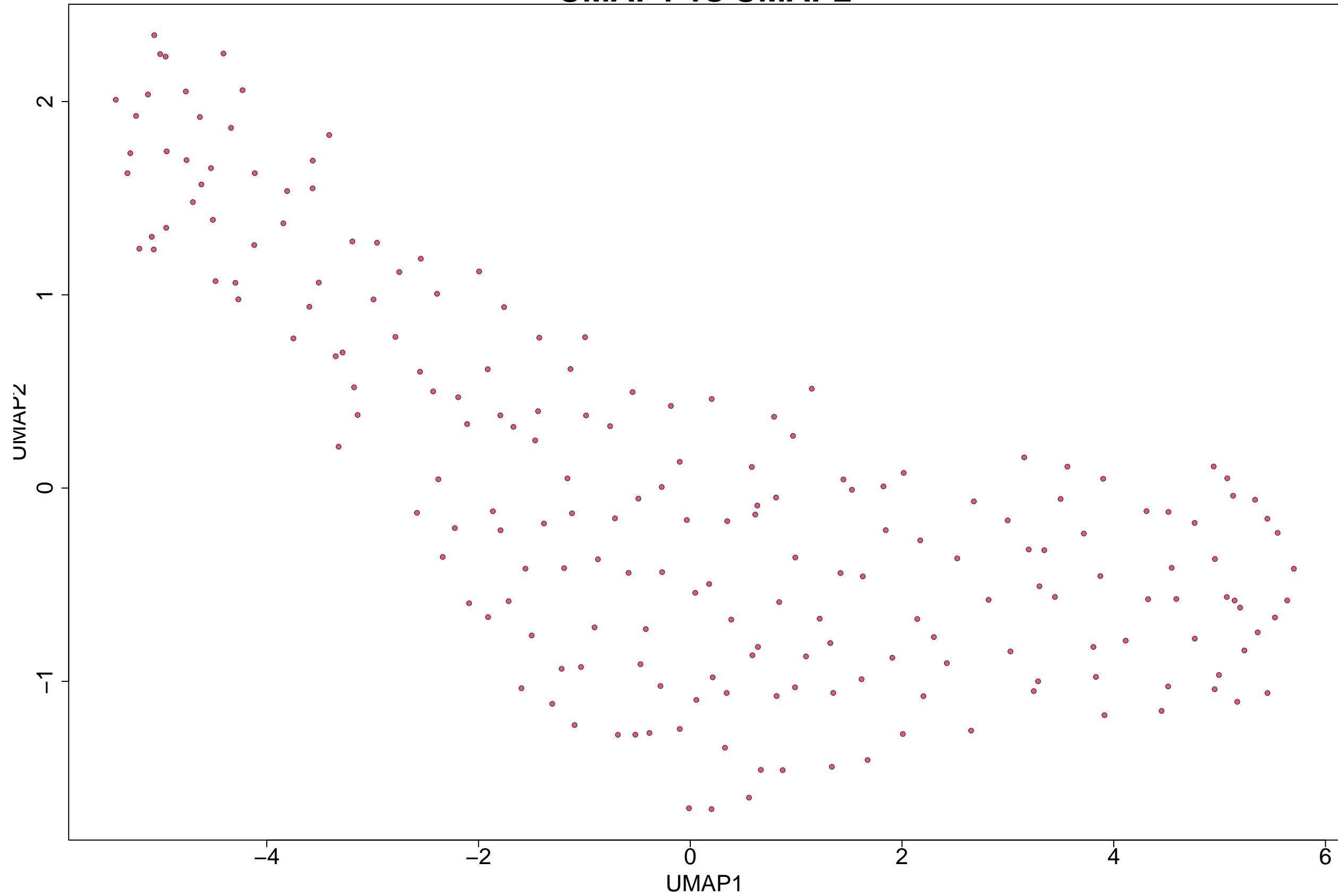


# UMAP Trajectory plot

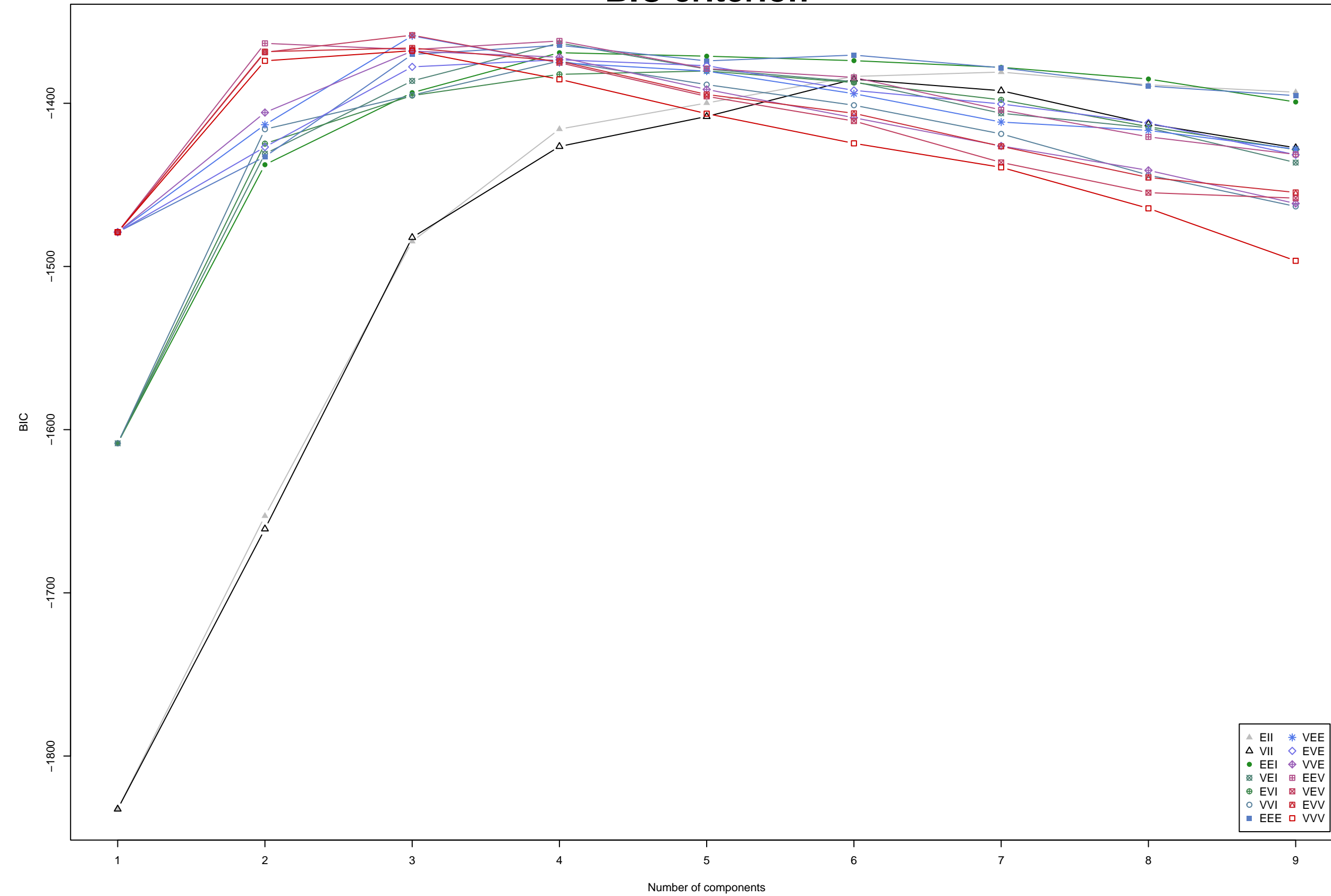


Clustering: UMAP  
n = 40 | dist = 0.3

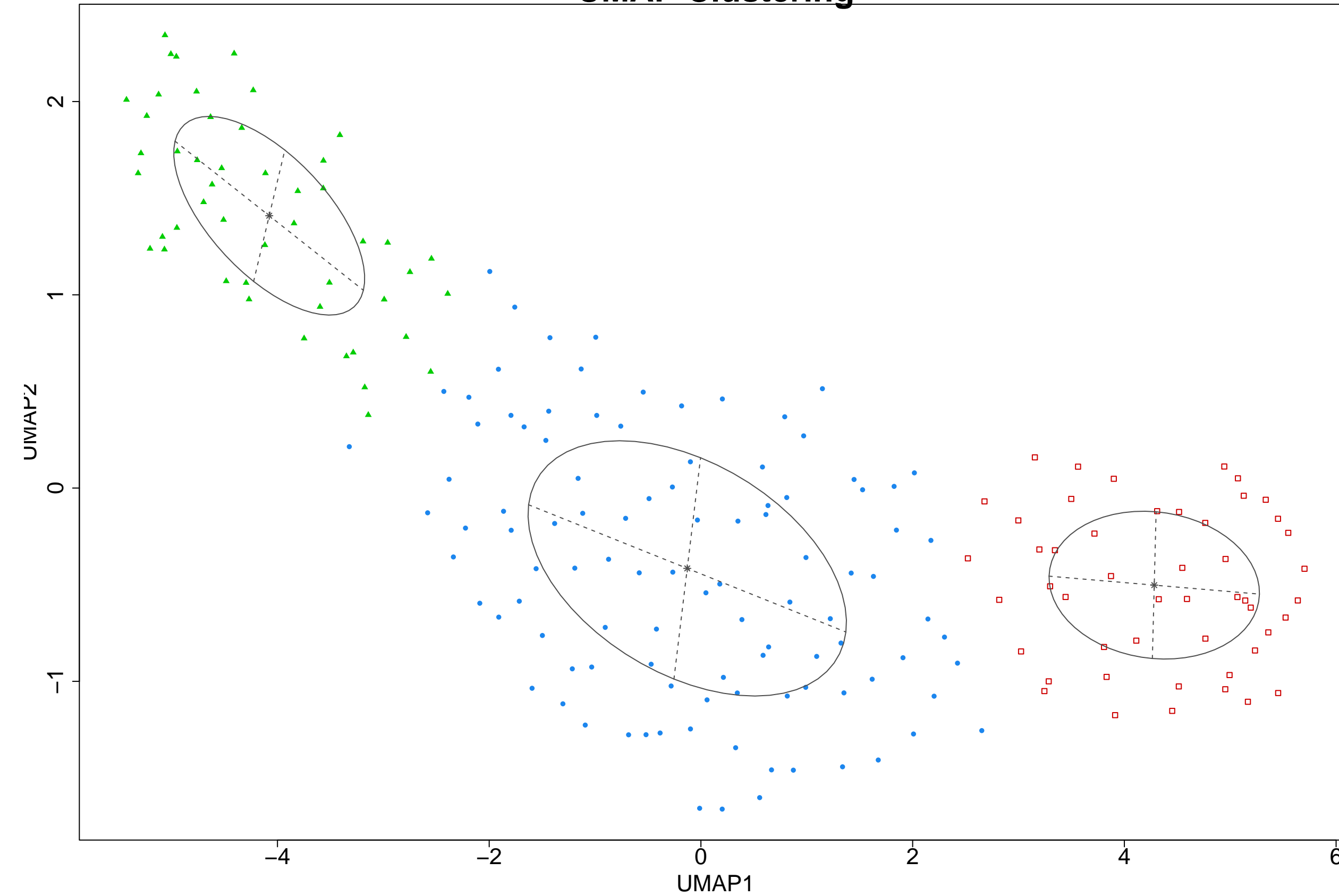
UMAP1 vs UMAP2



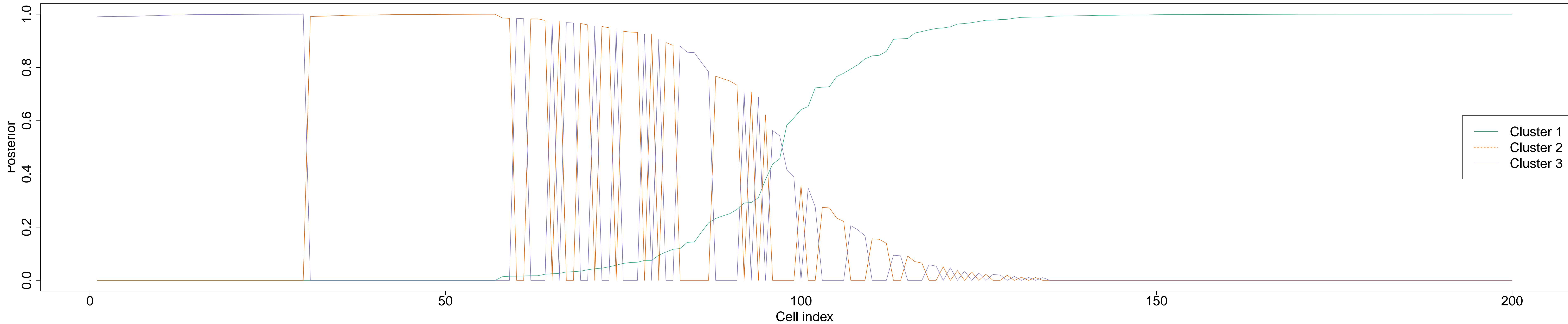
BIC criterion



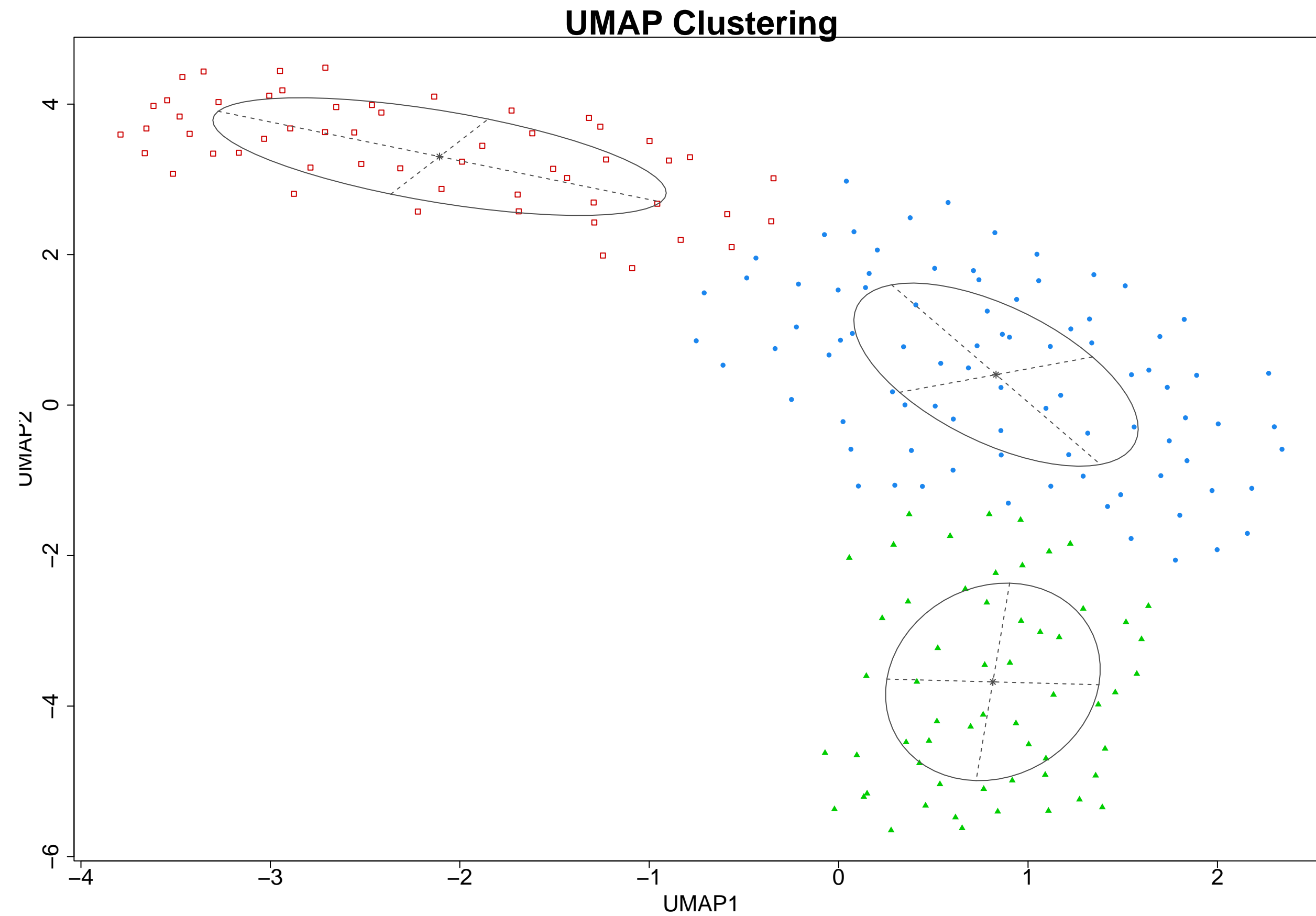
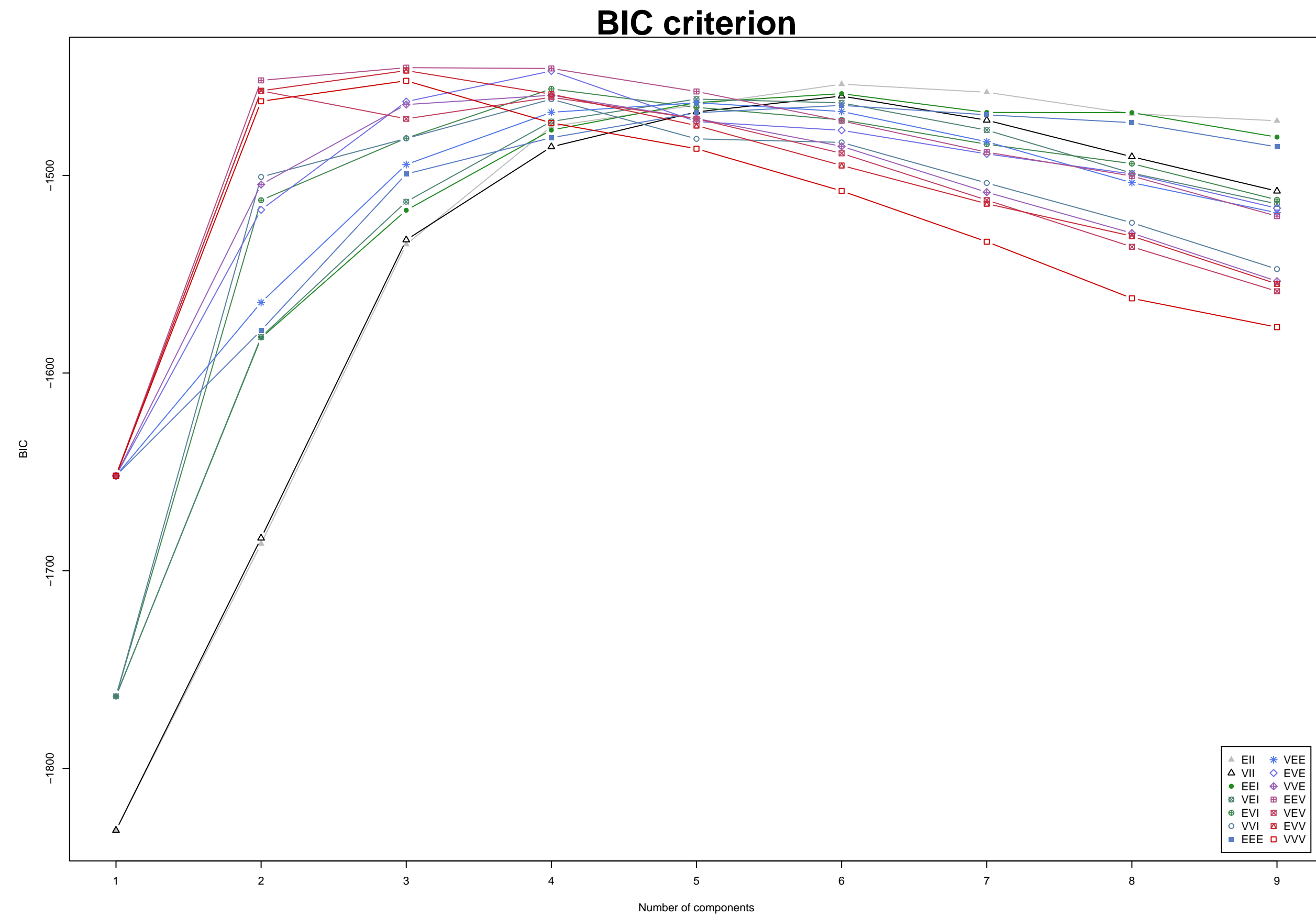
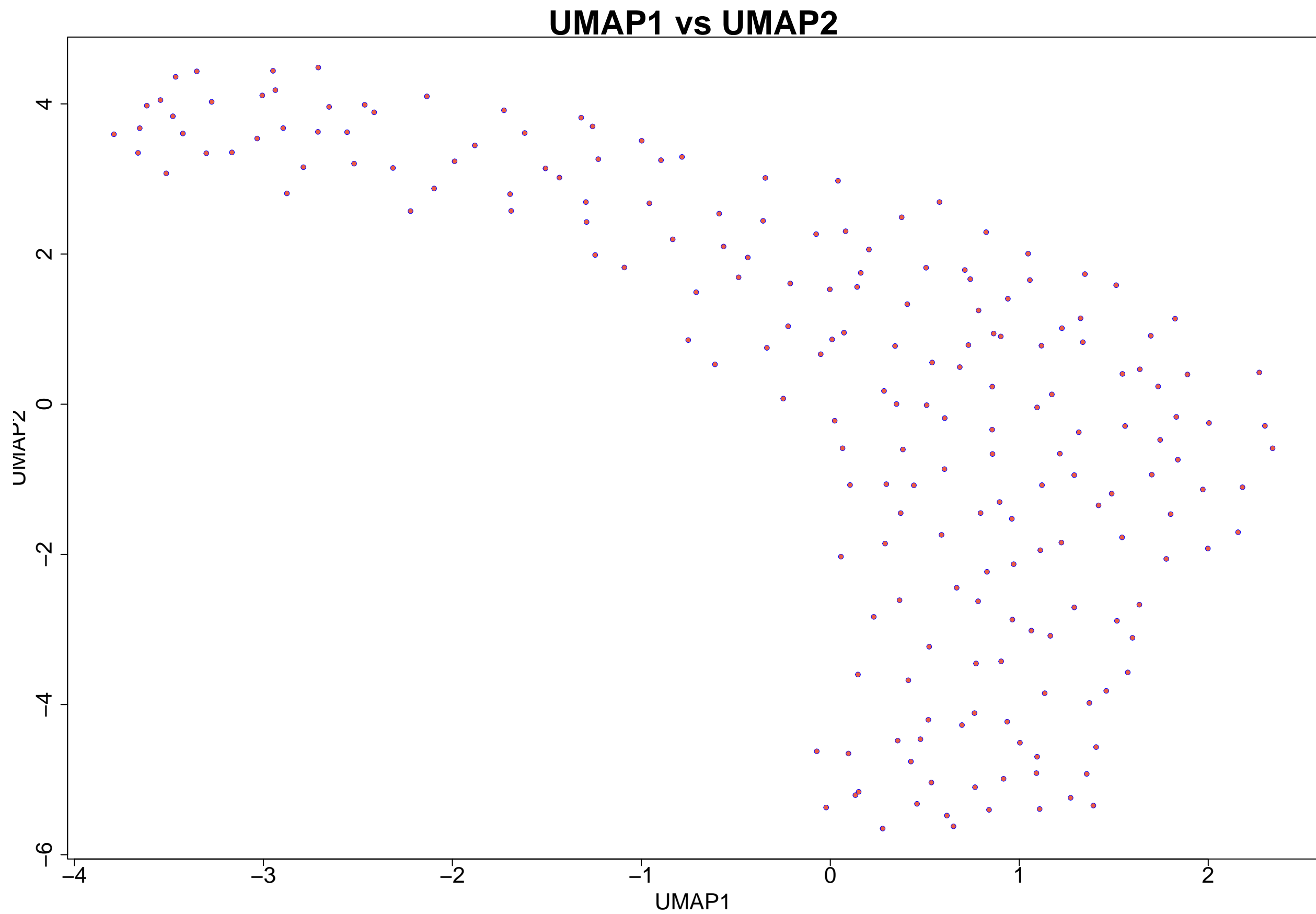
UMAP Clustering



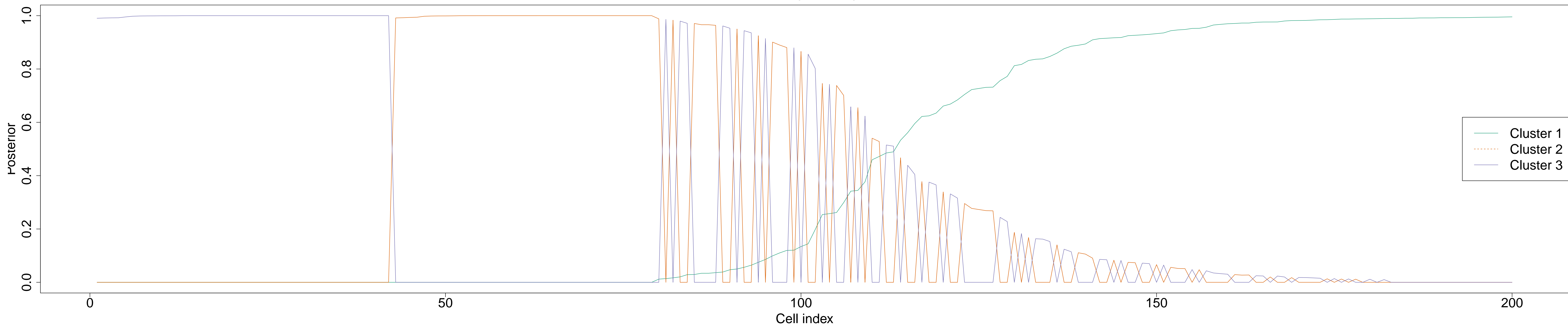
UMAP Trajectory plot



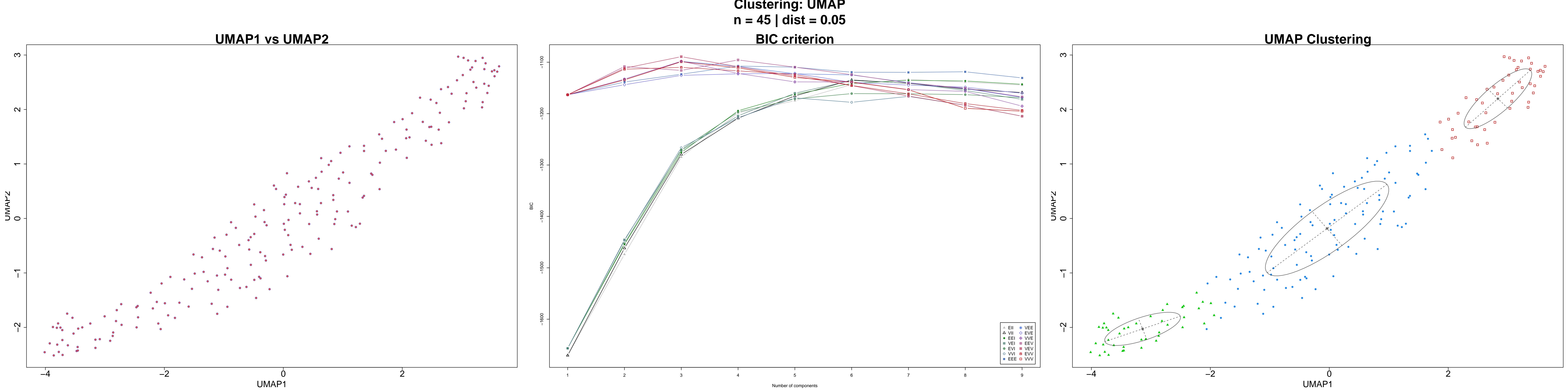
Clustering: UMAP  
n = 40 | dist = 0.4



# UMAP Trajectory plot

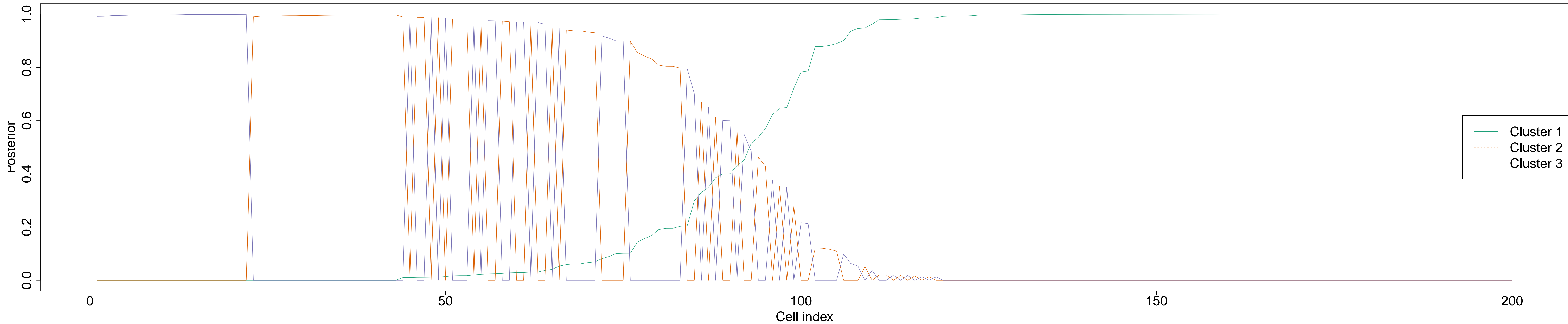




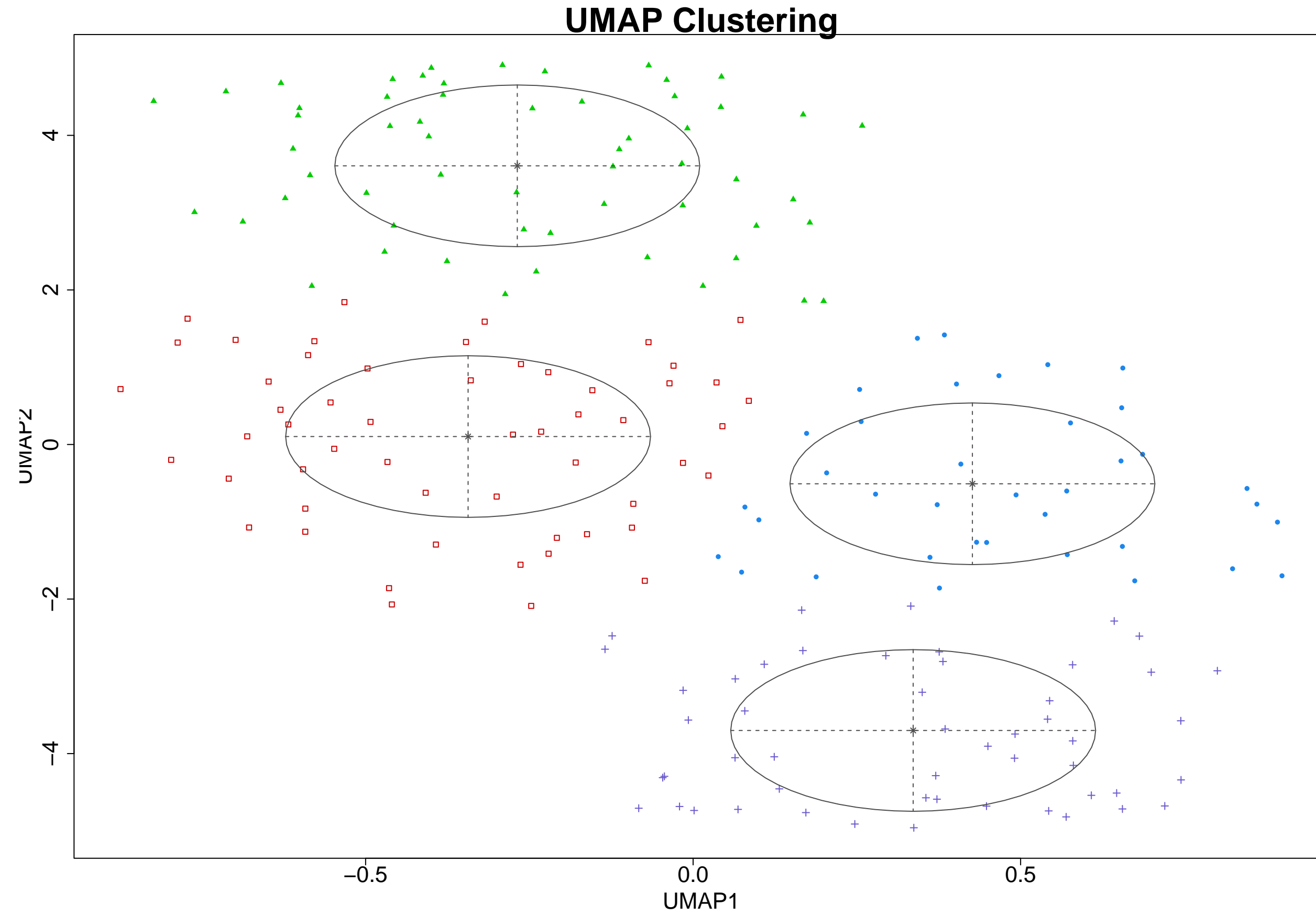
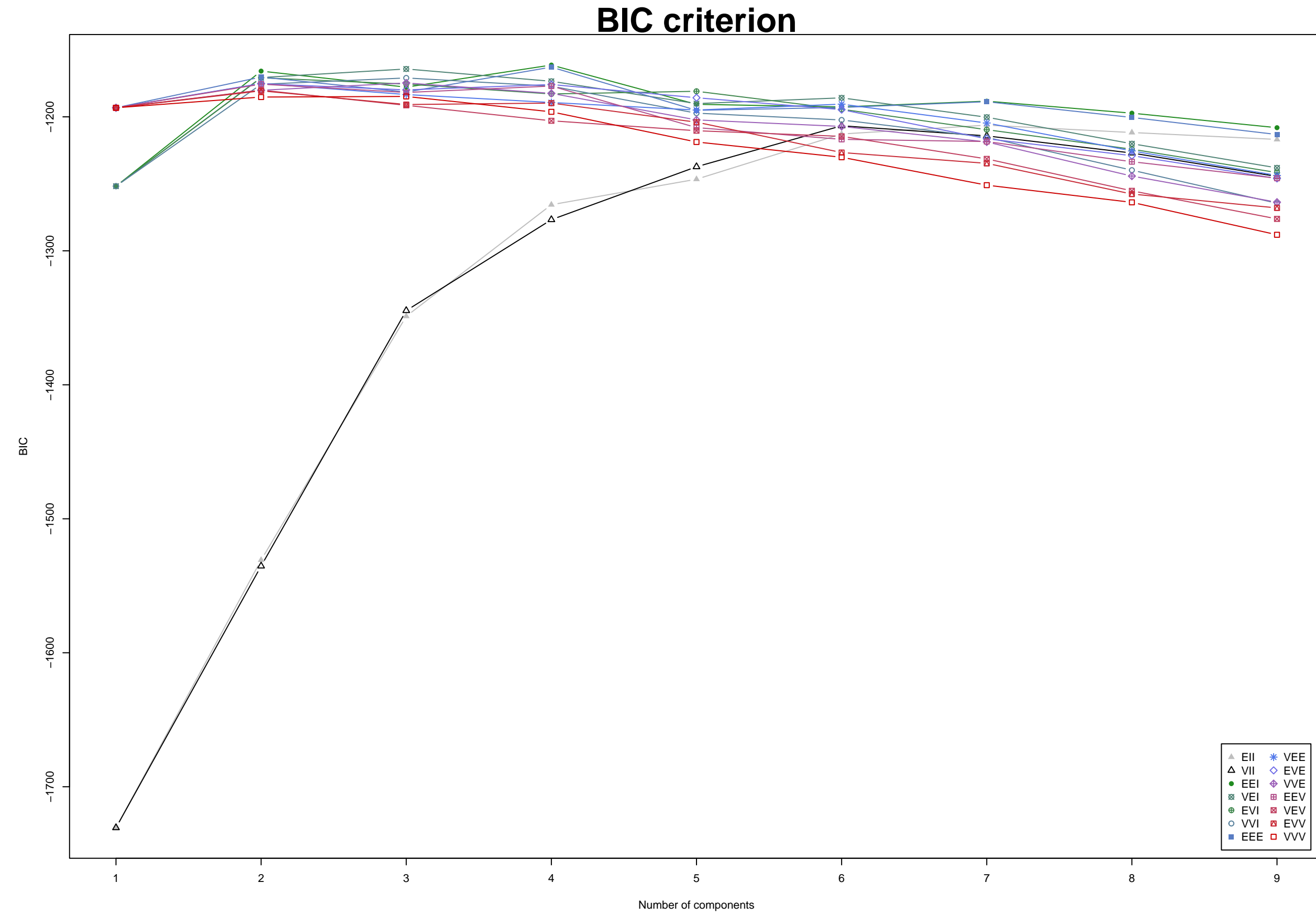
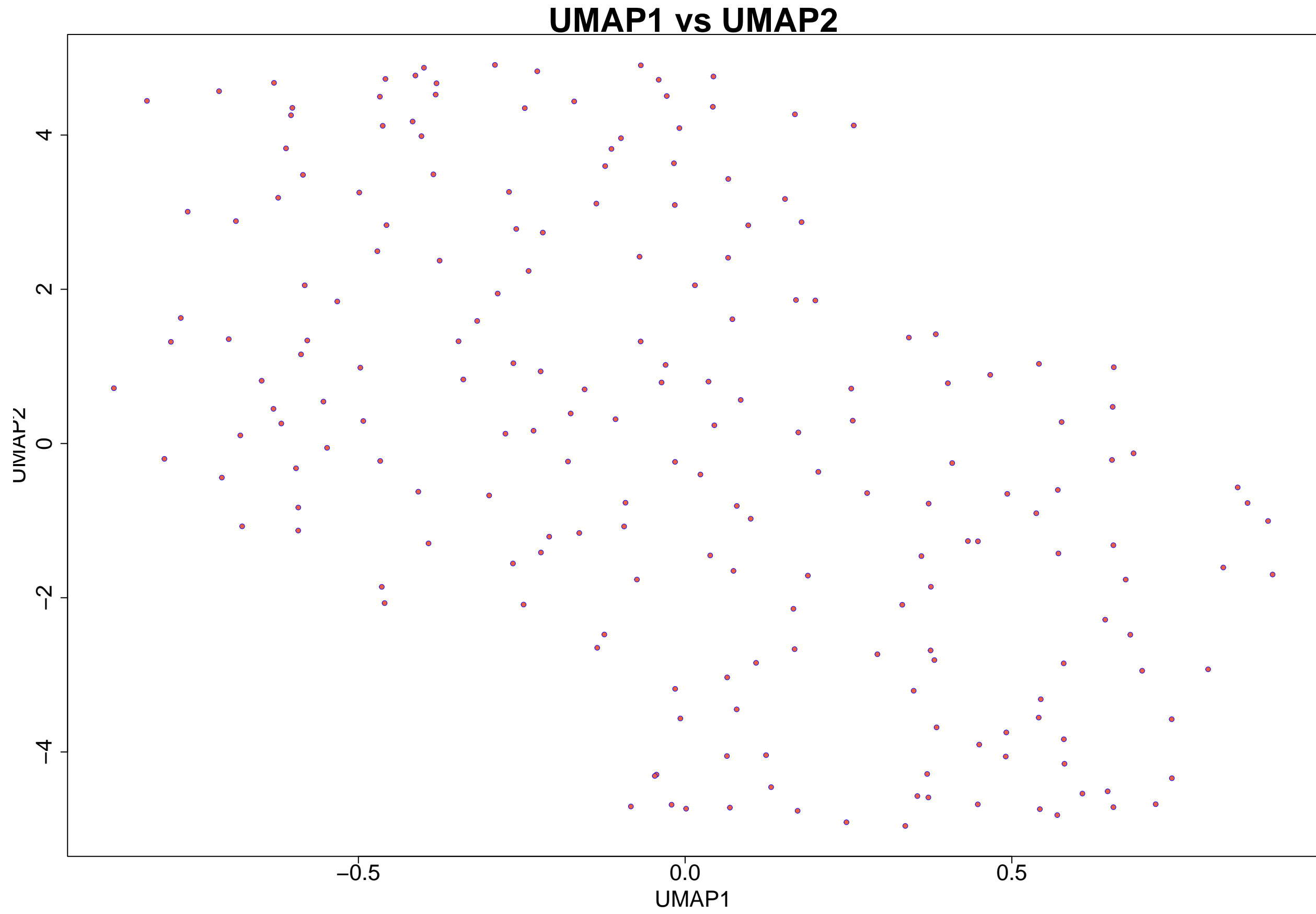




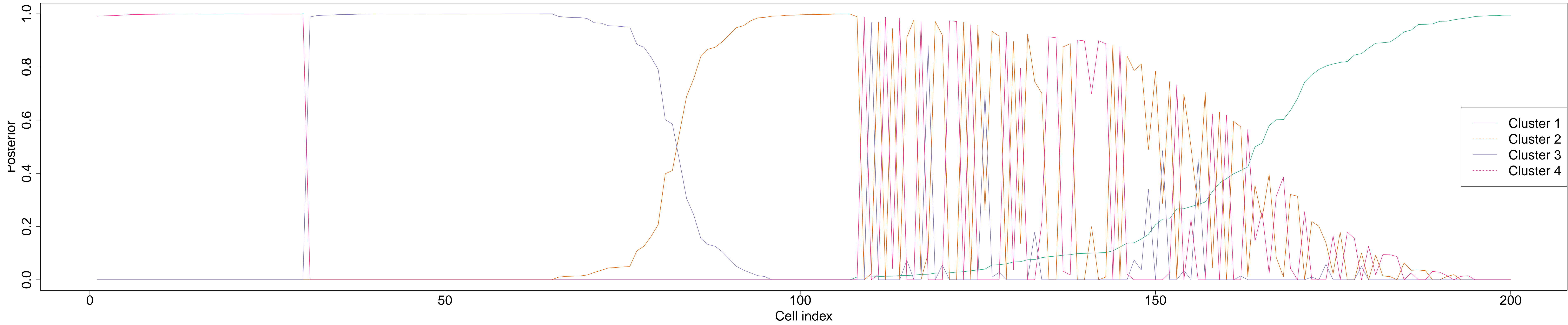
UMAP Trajectory plot



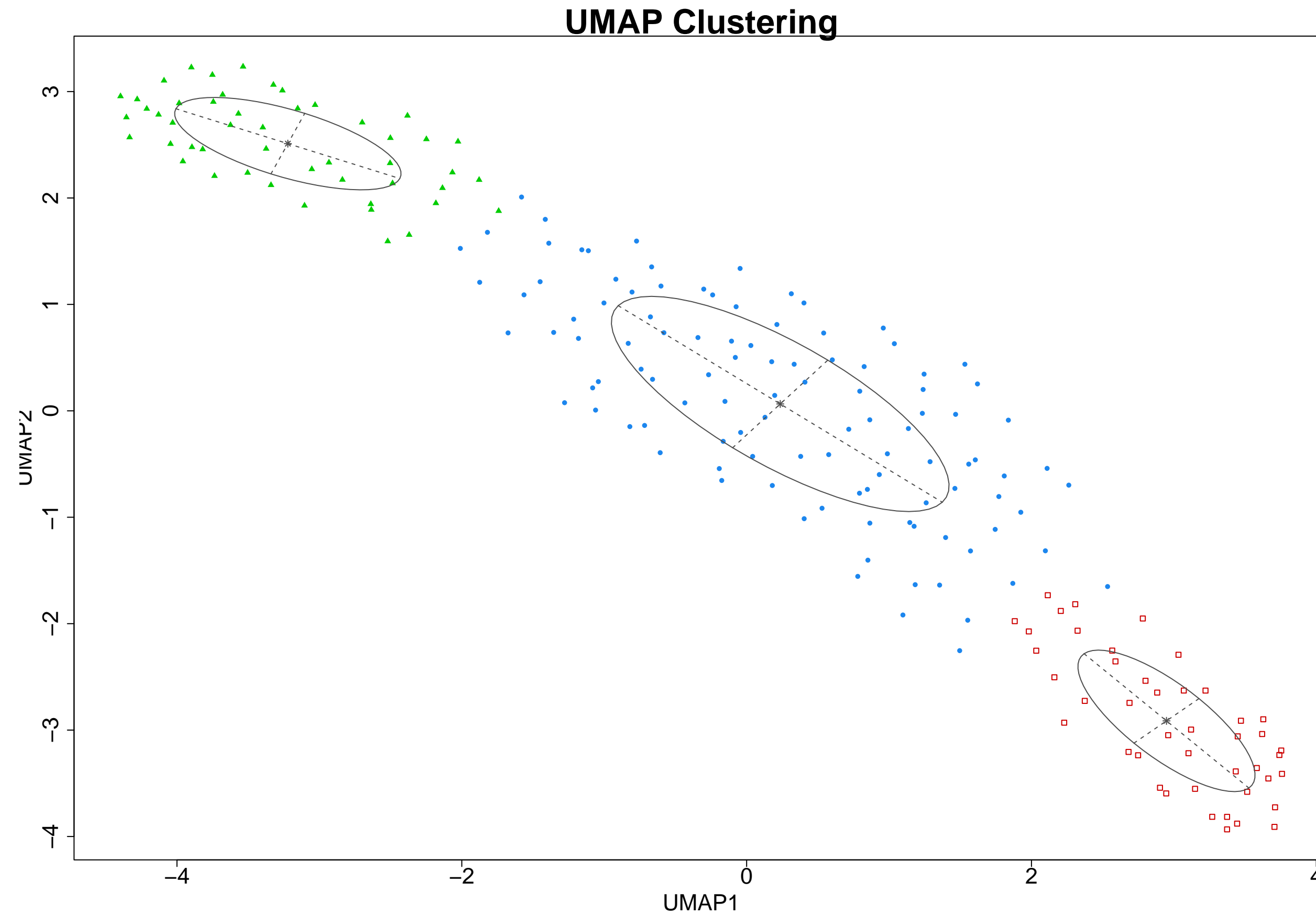
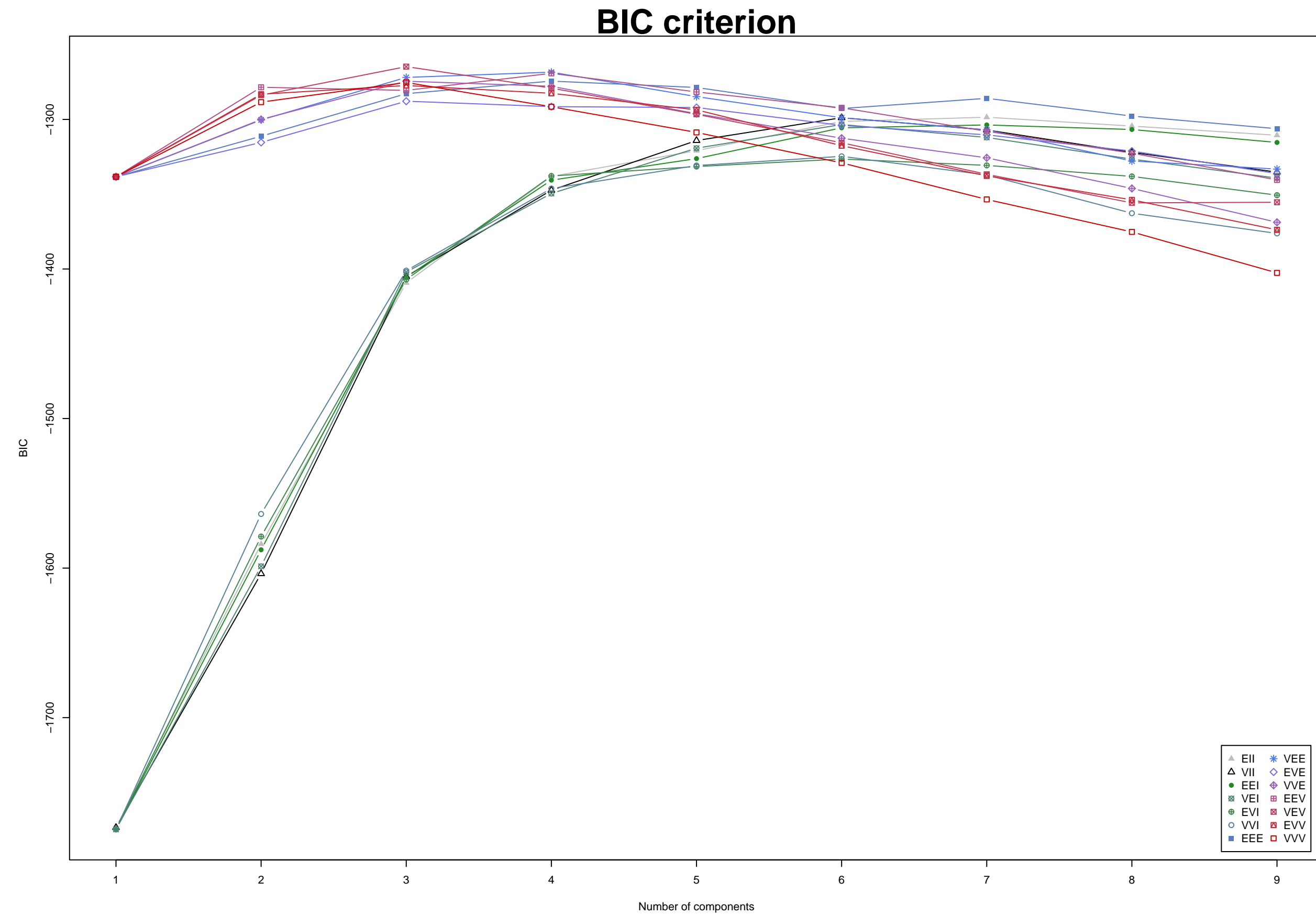
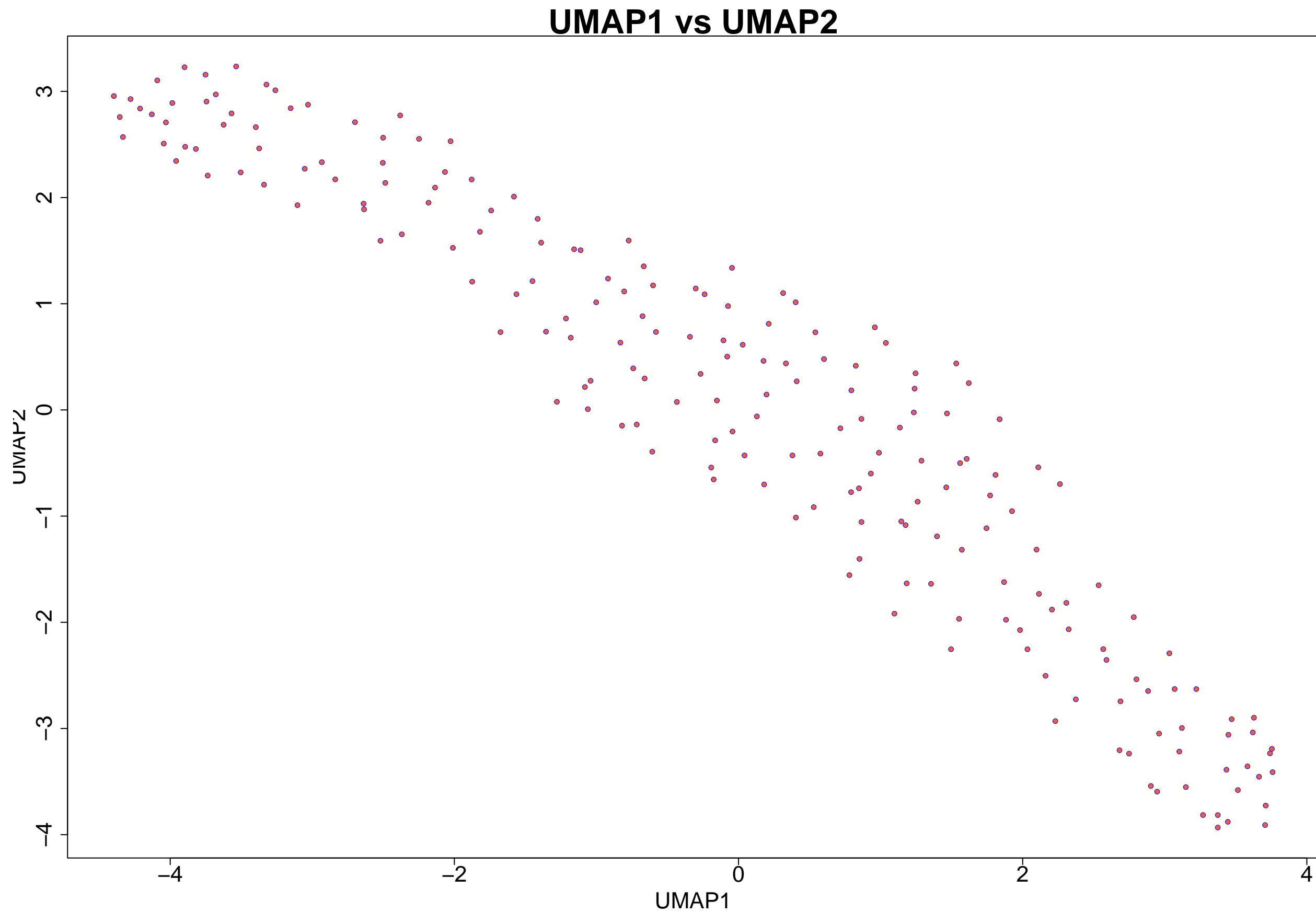
Clustering: UMAP  
n = 45 | dist = 0.1



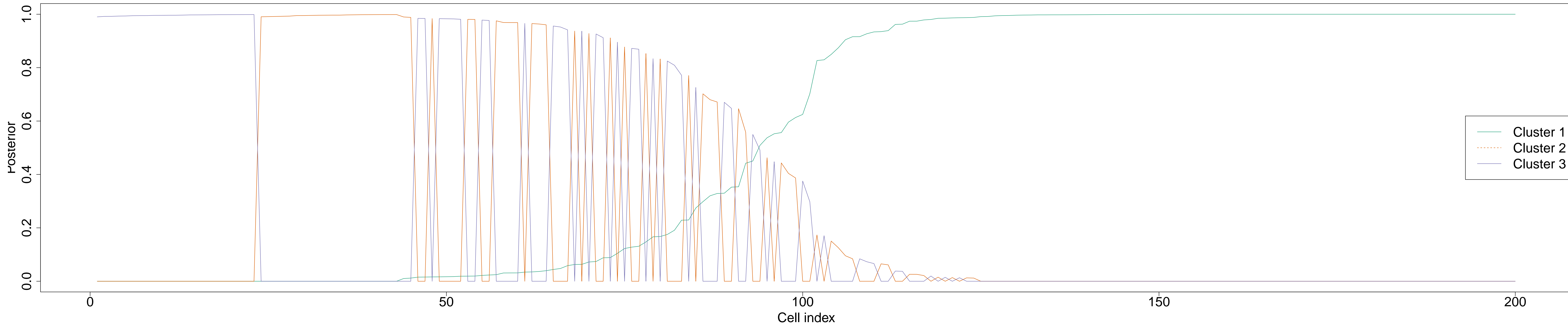
# UMAP Trajectory plot

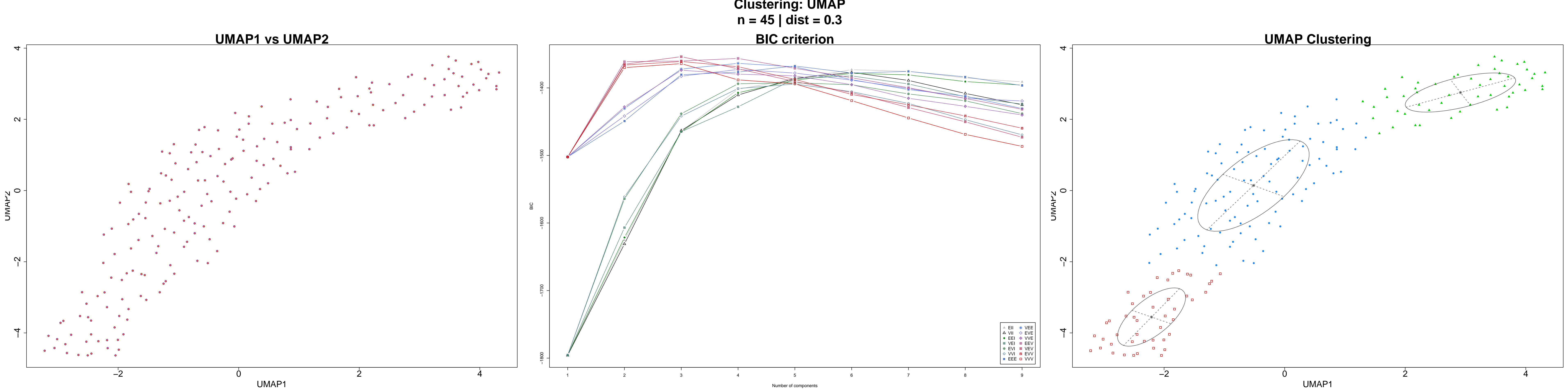


Clustering: UMAP  
n = 45 | dist = 0.2



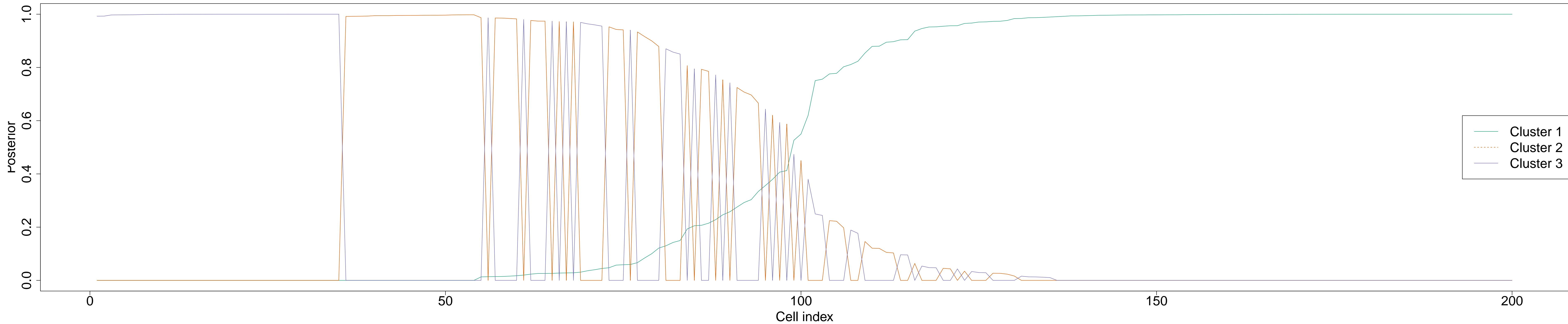
UMAP Trajectory plot





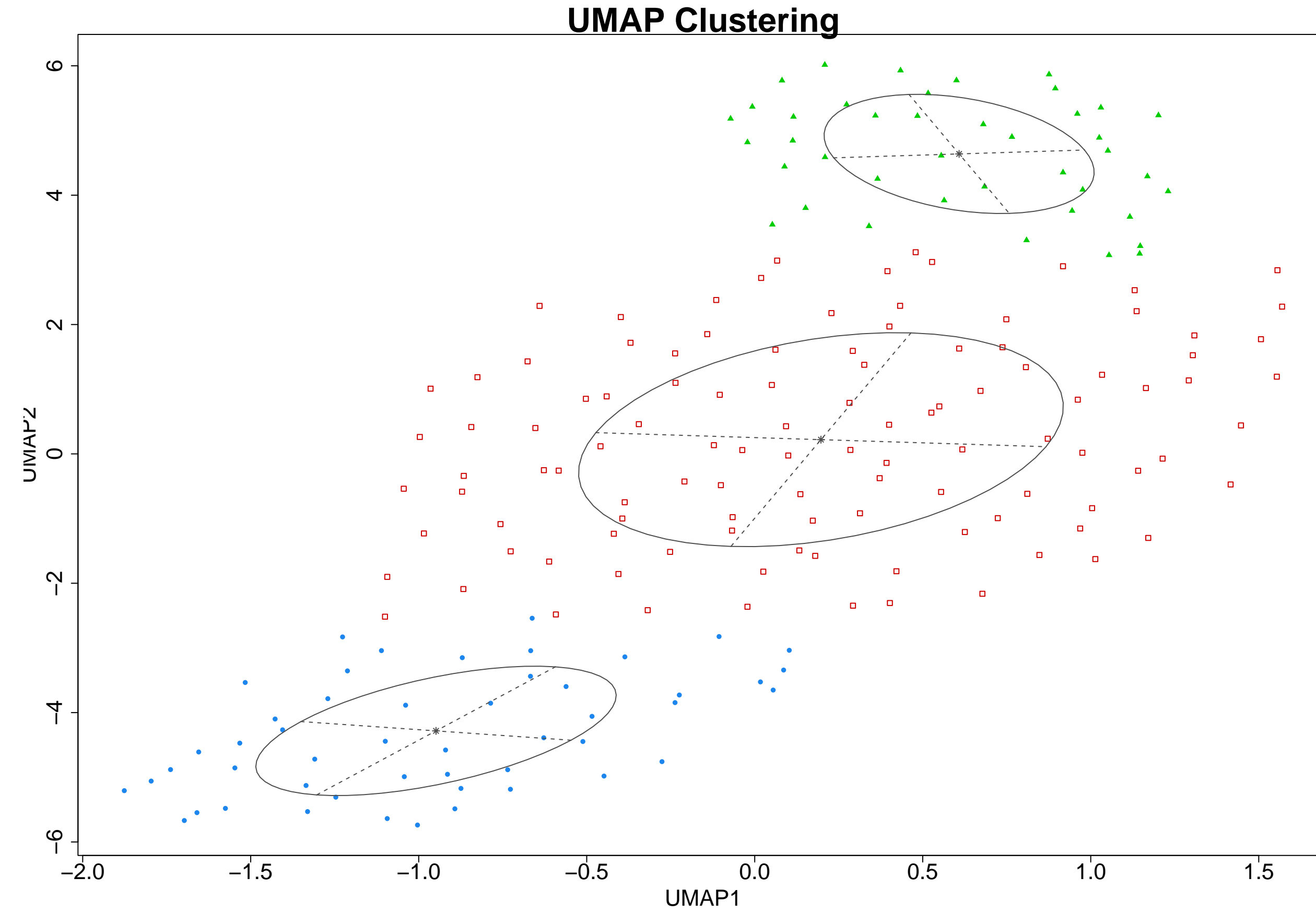
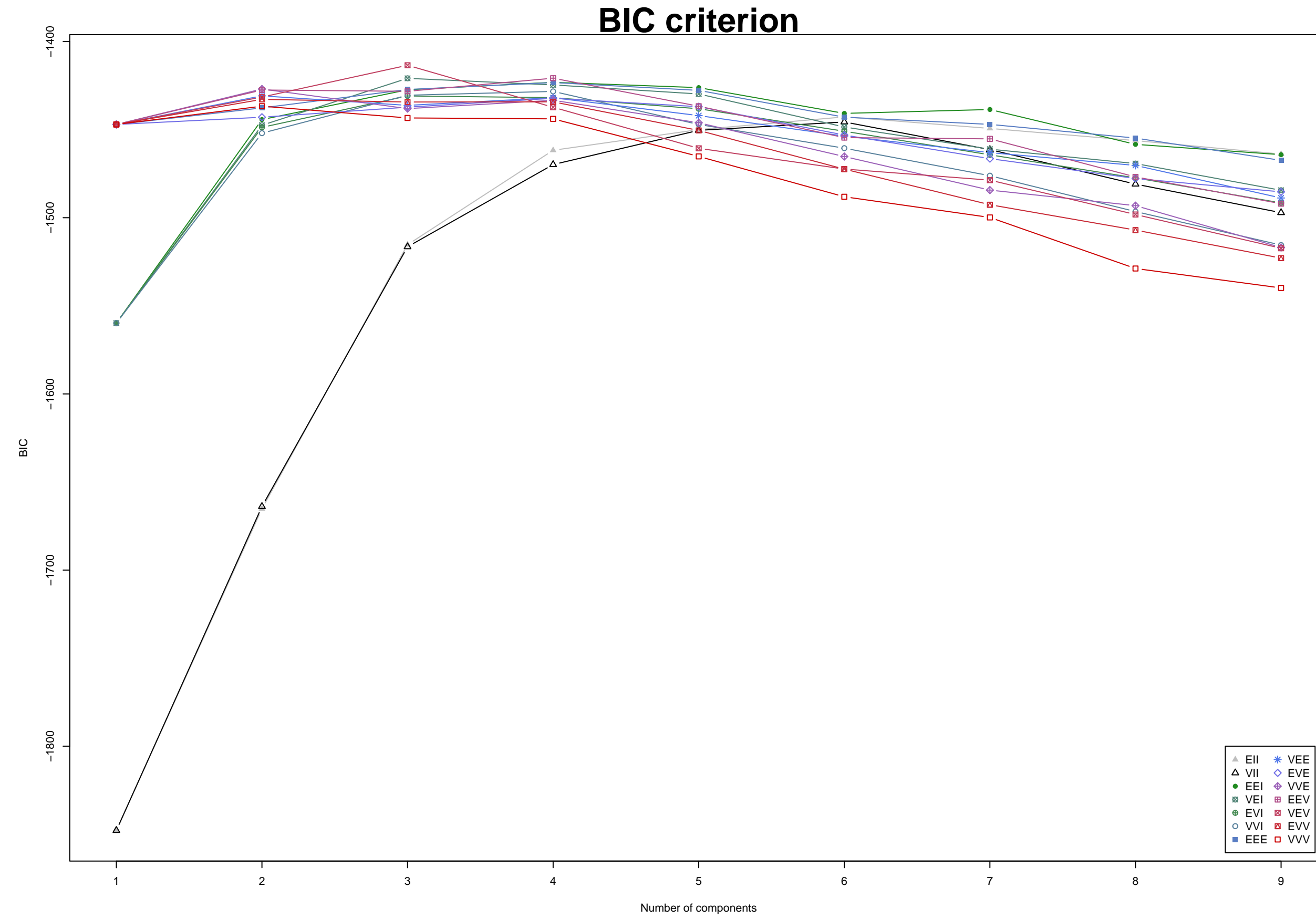
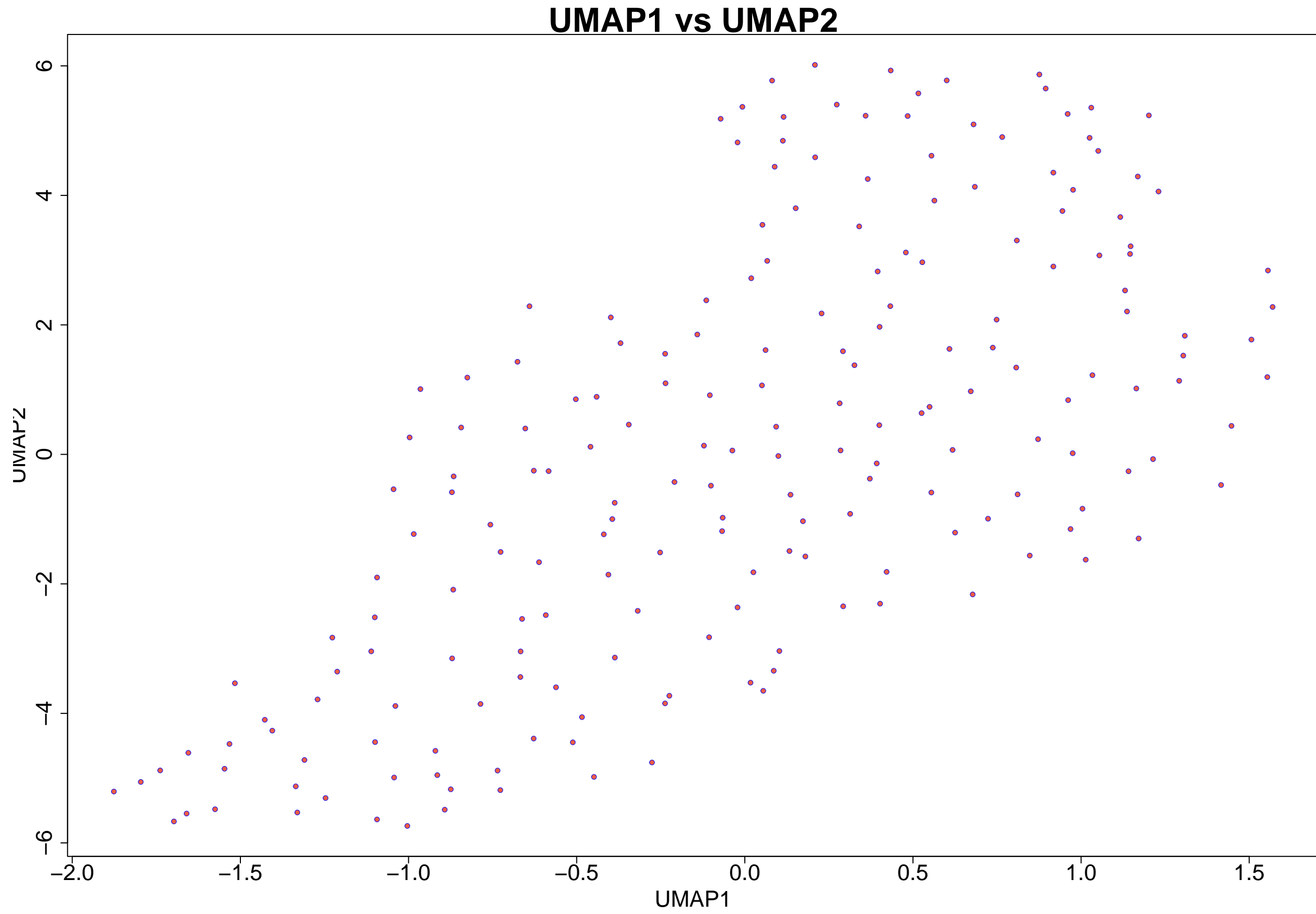


# UMAP Trajectory plot

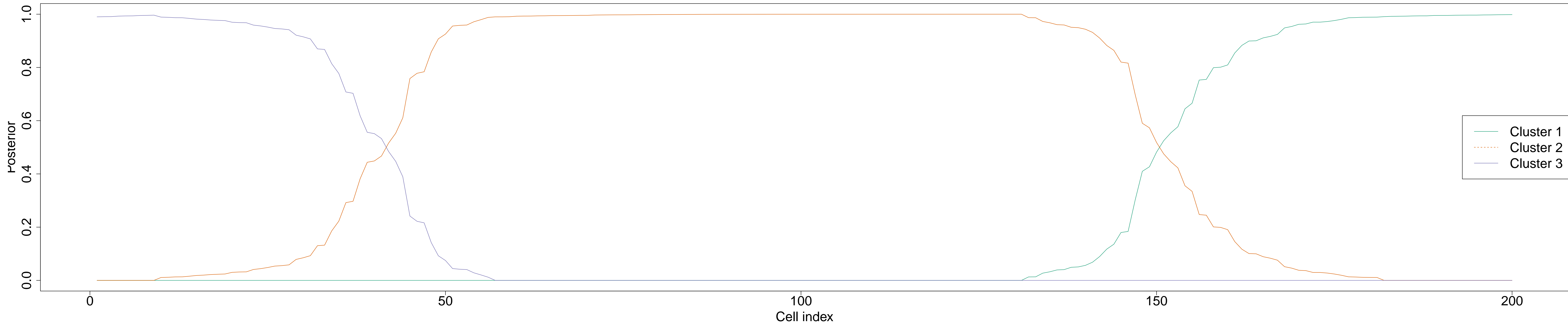


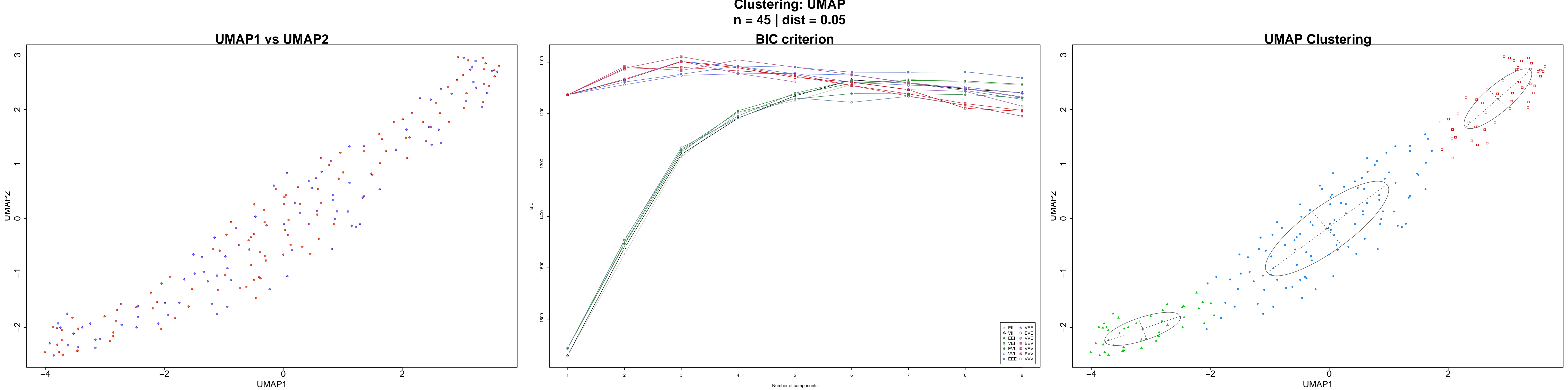


Clustering: UMAP  
n = 45 | dist = 0.4

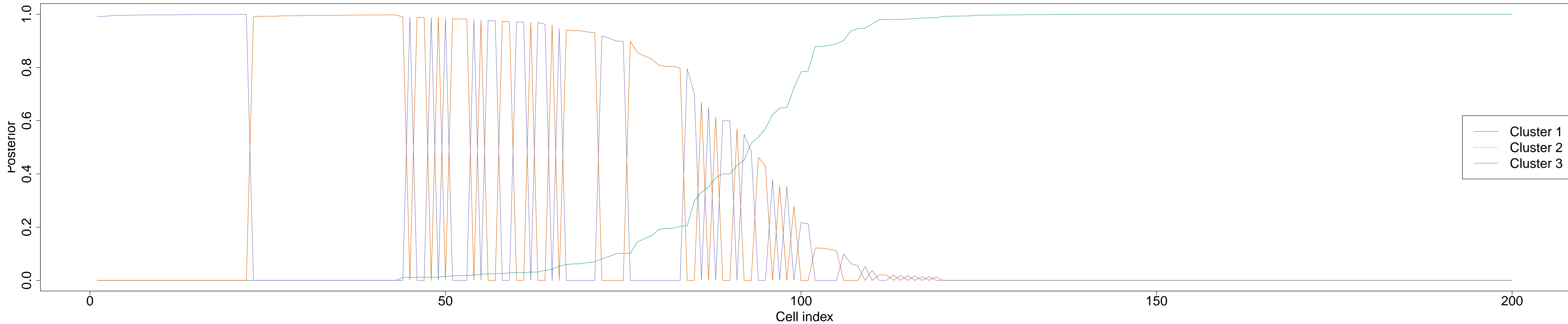


# UMAP Trajectory plot

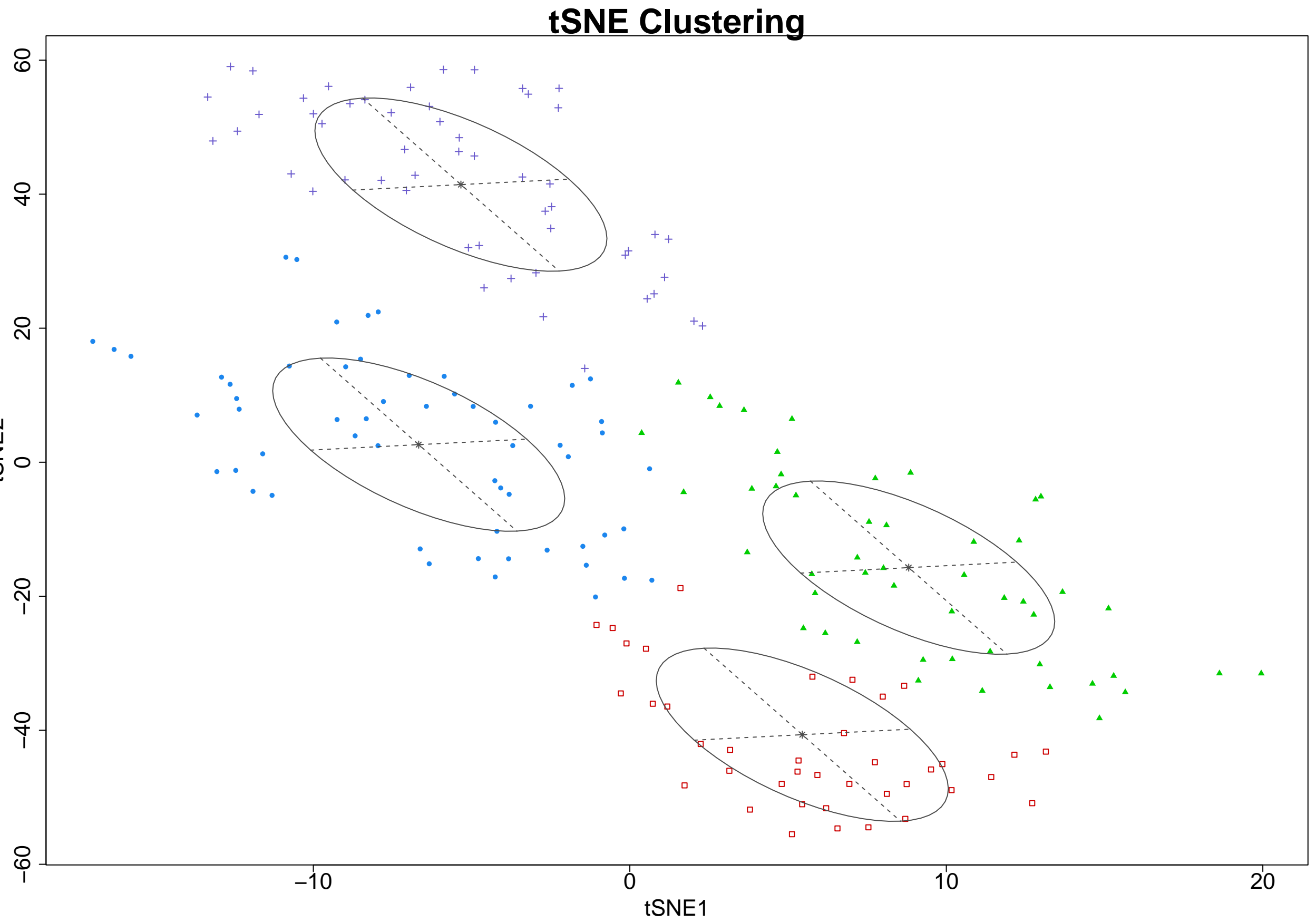
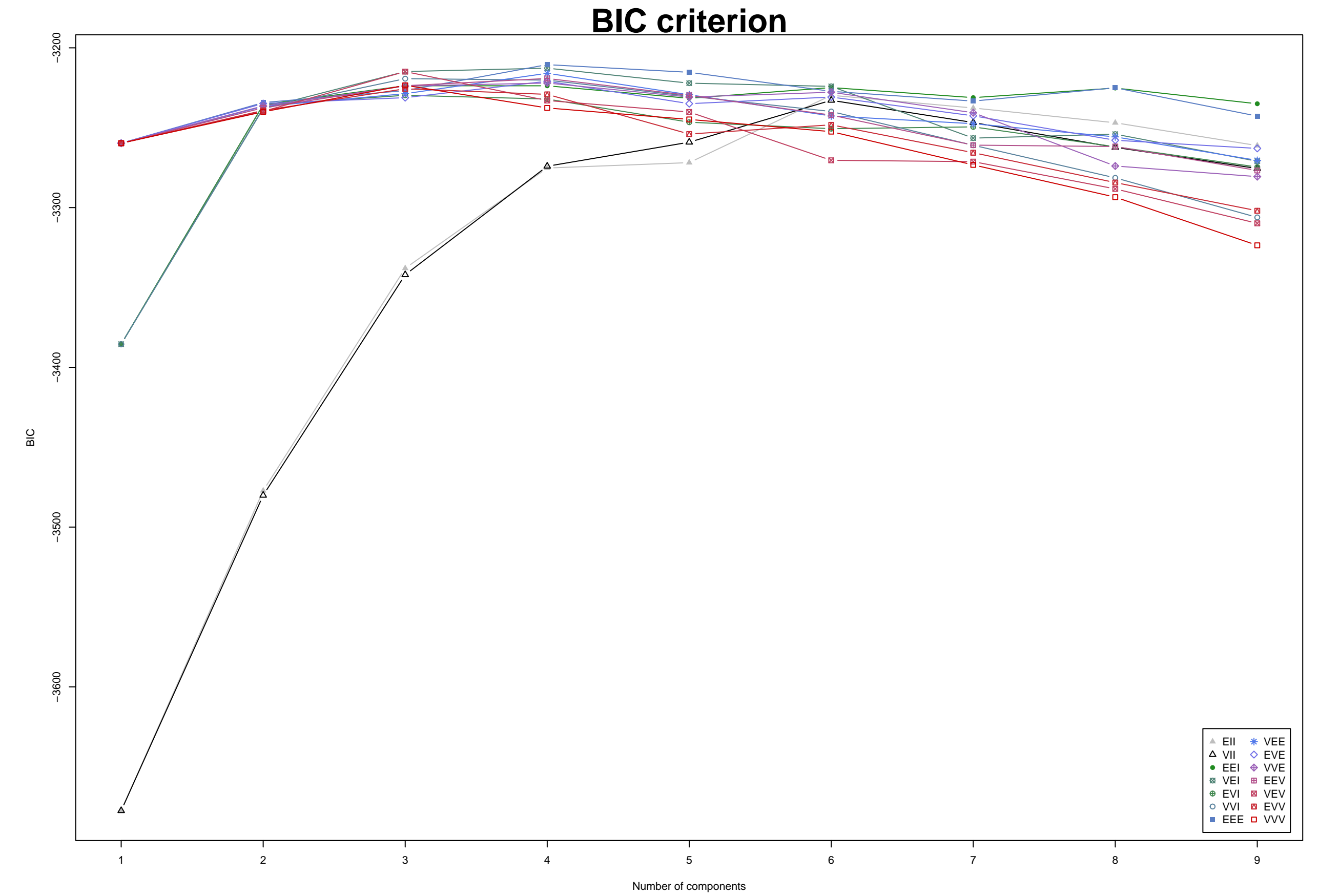
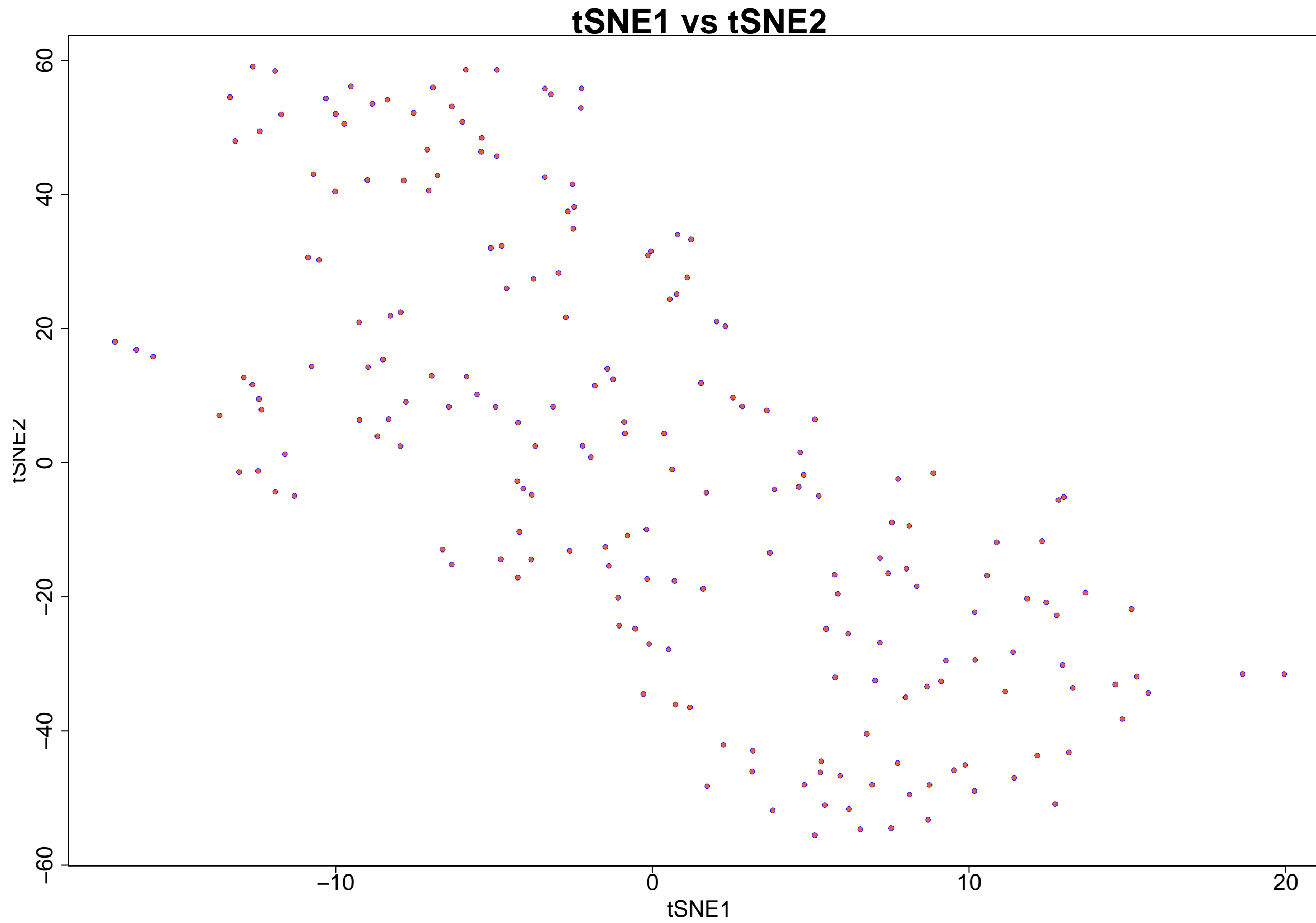




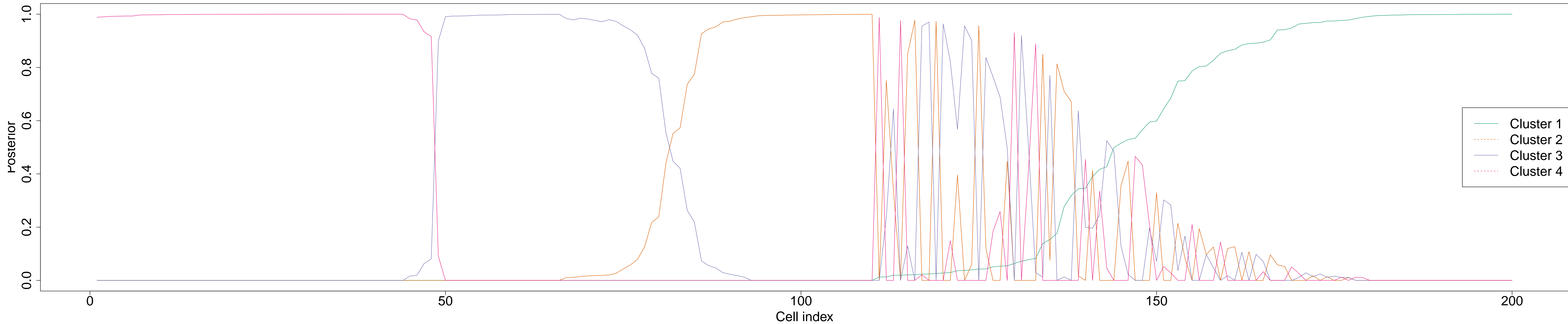
# UMAP Trajectory plot



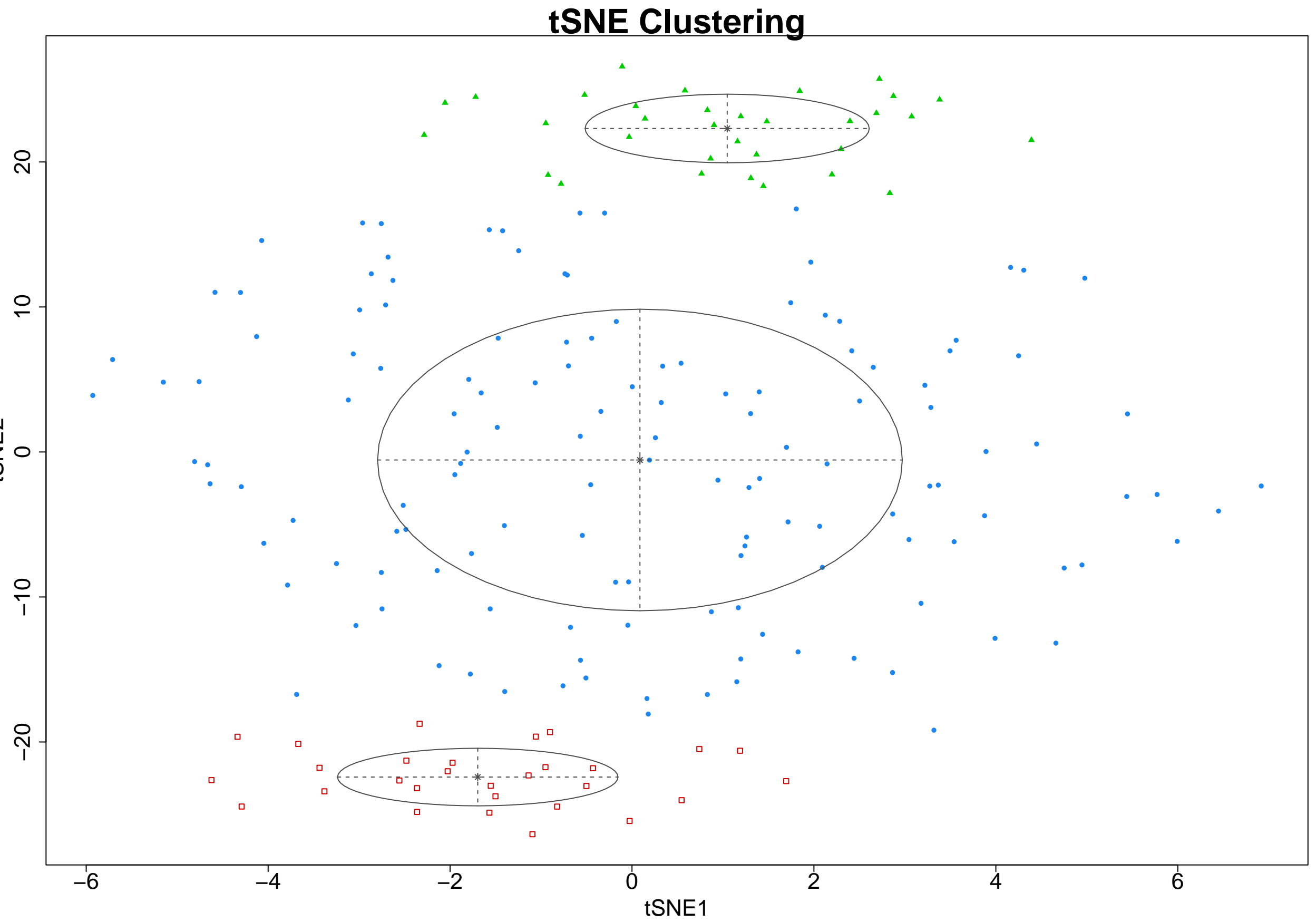
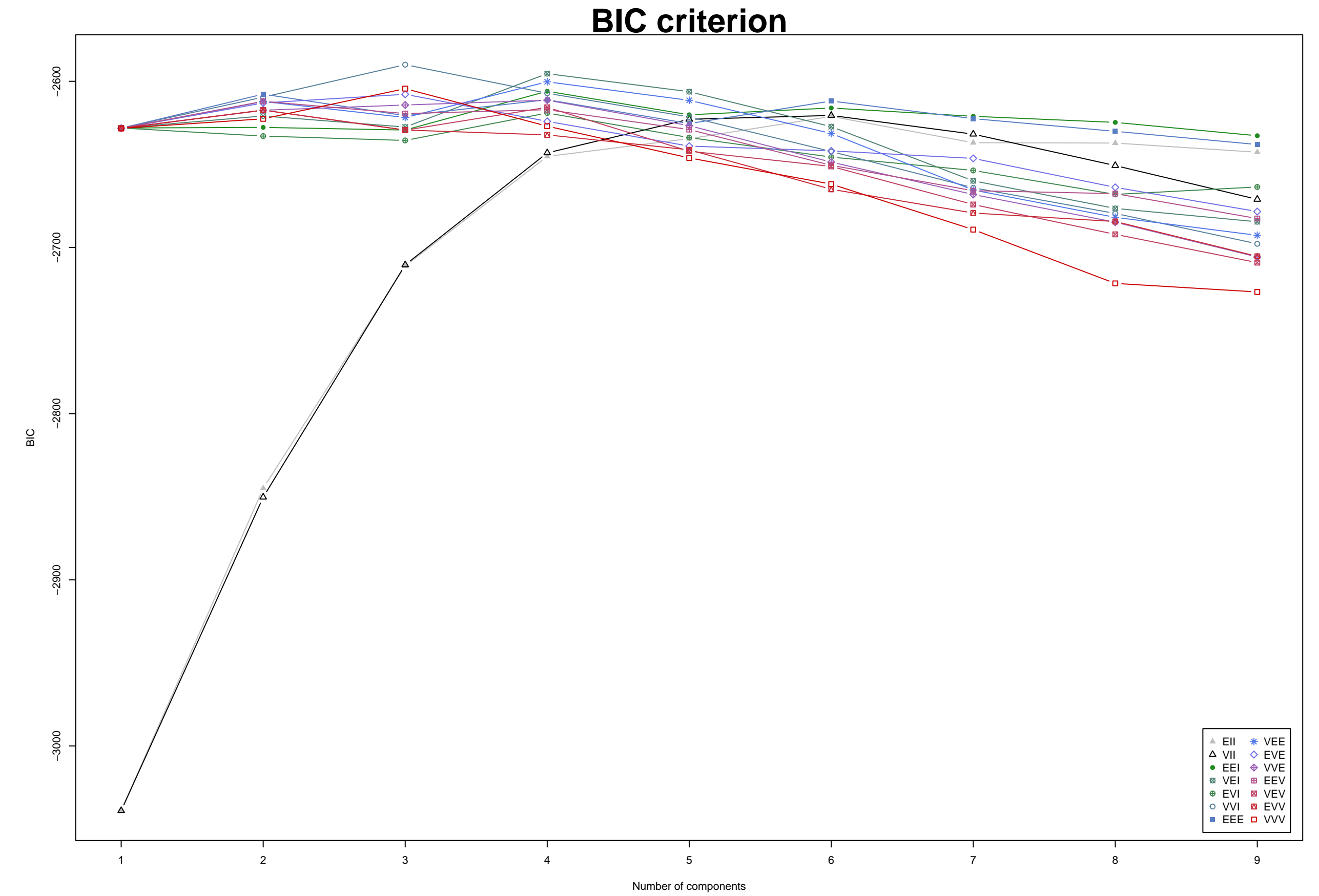
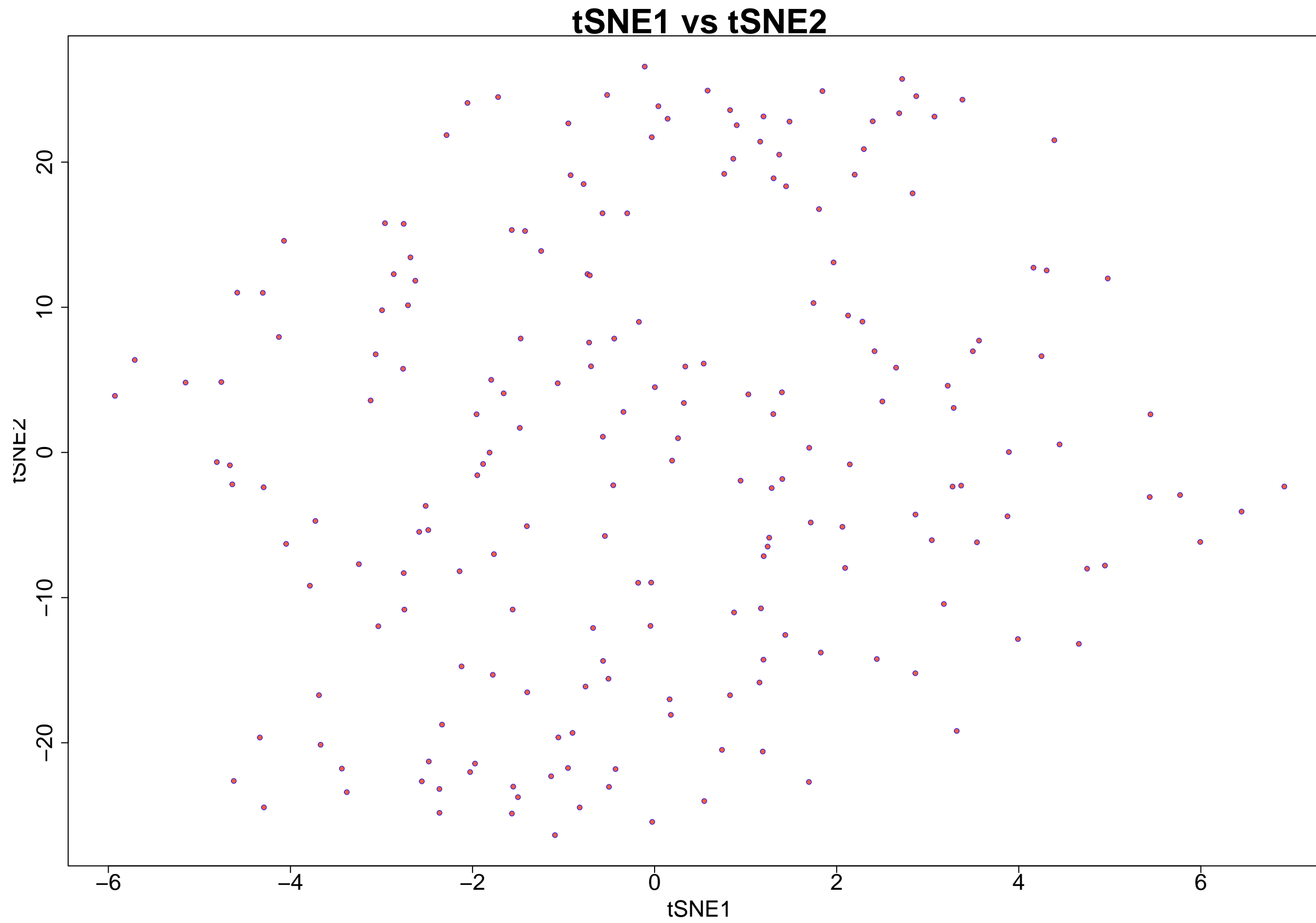
clustering: tSNE  
perp = 5 | iter = 5000



**tSNE Trajectory plot**

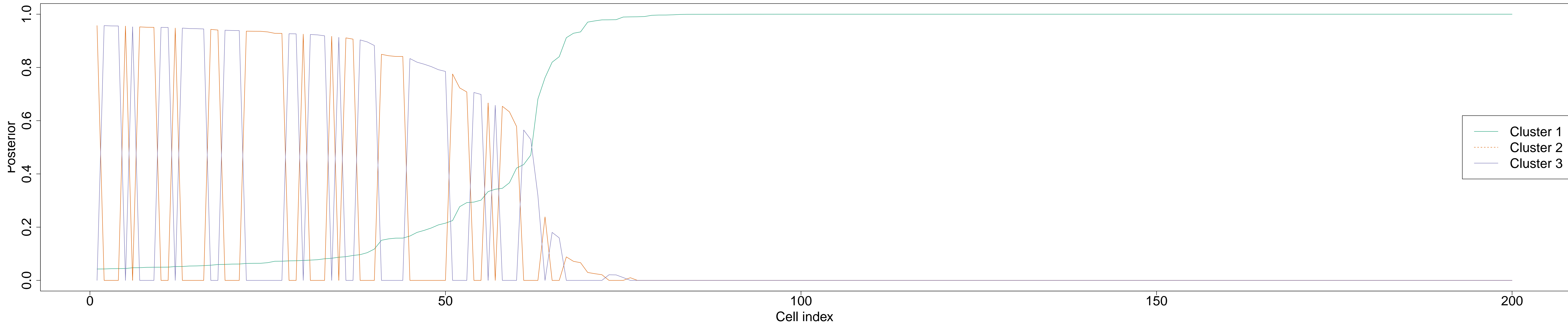


clustering: tSNE  
perp = 14 | iter = 5000



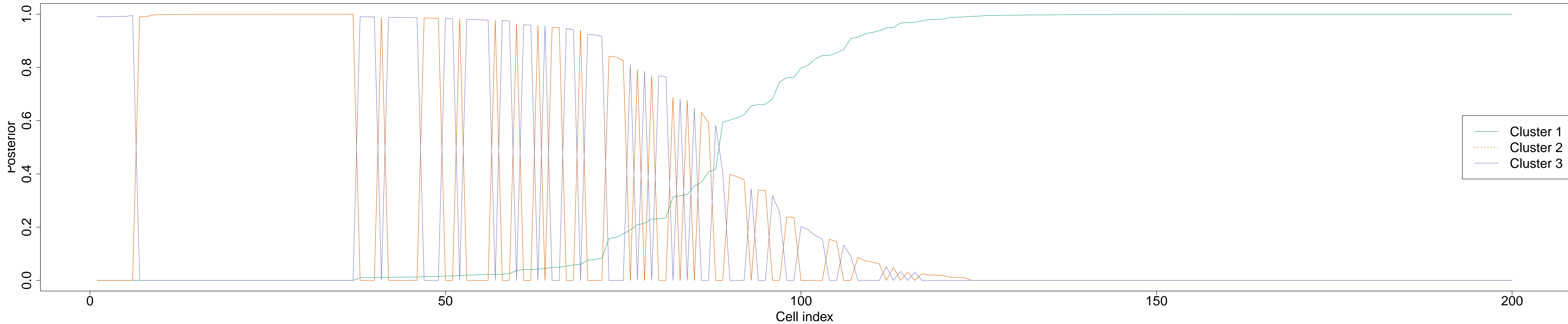


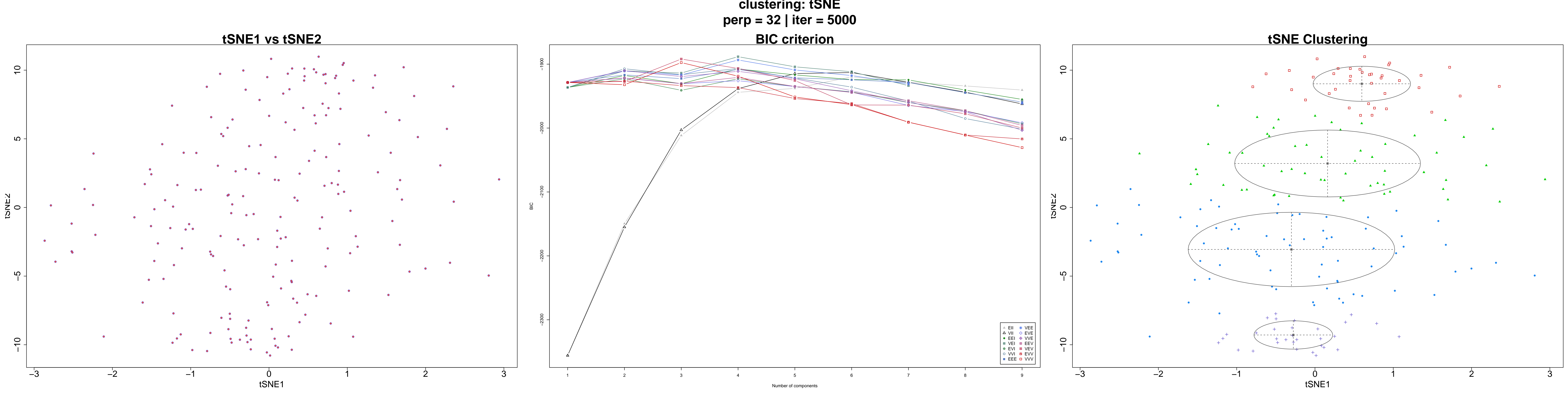
**tSNE Trajectory plot**



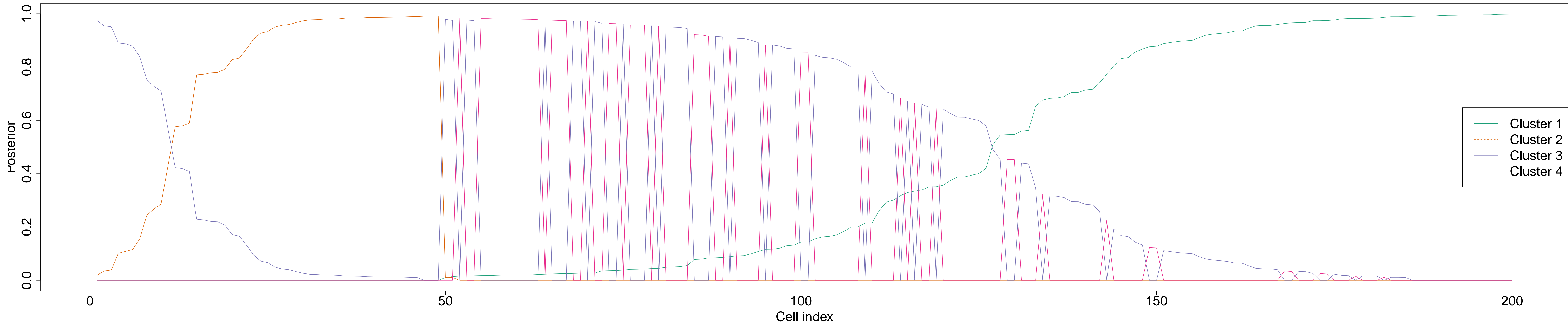


**tSNE Trajectory plot**

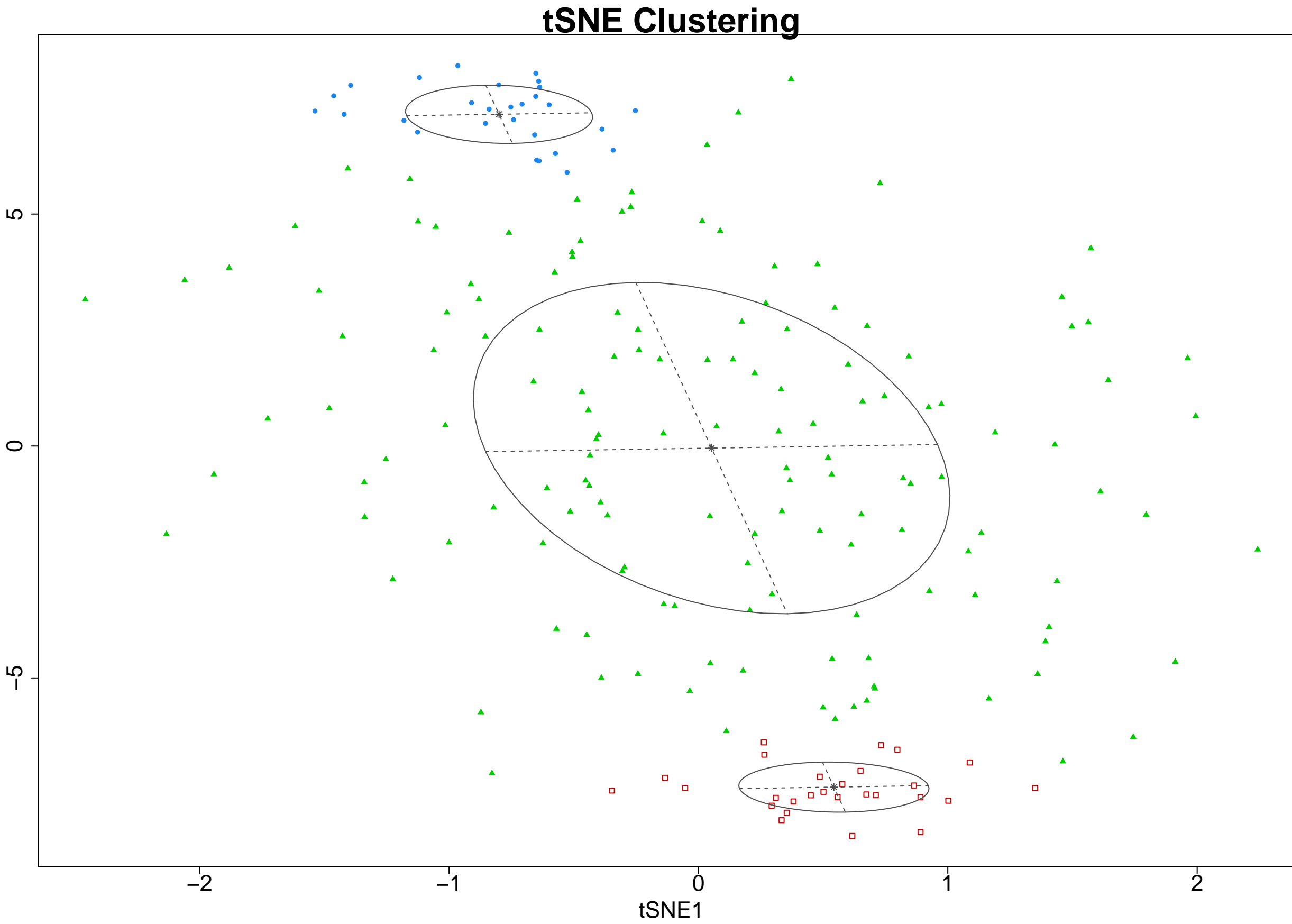
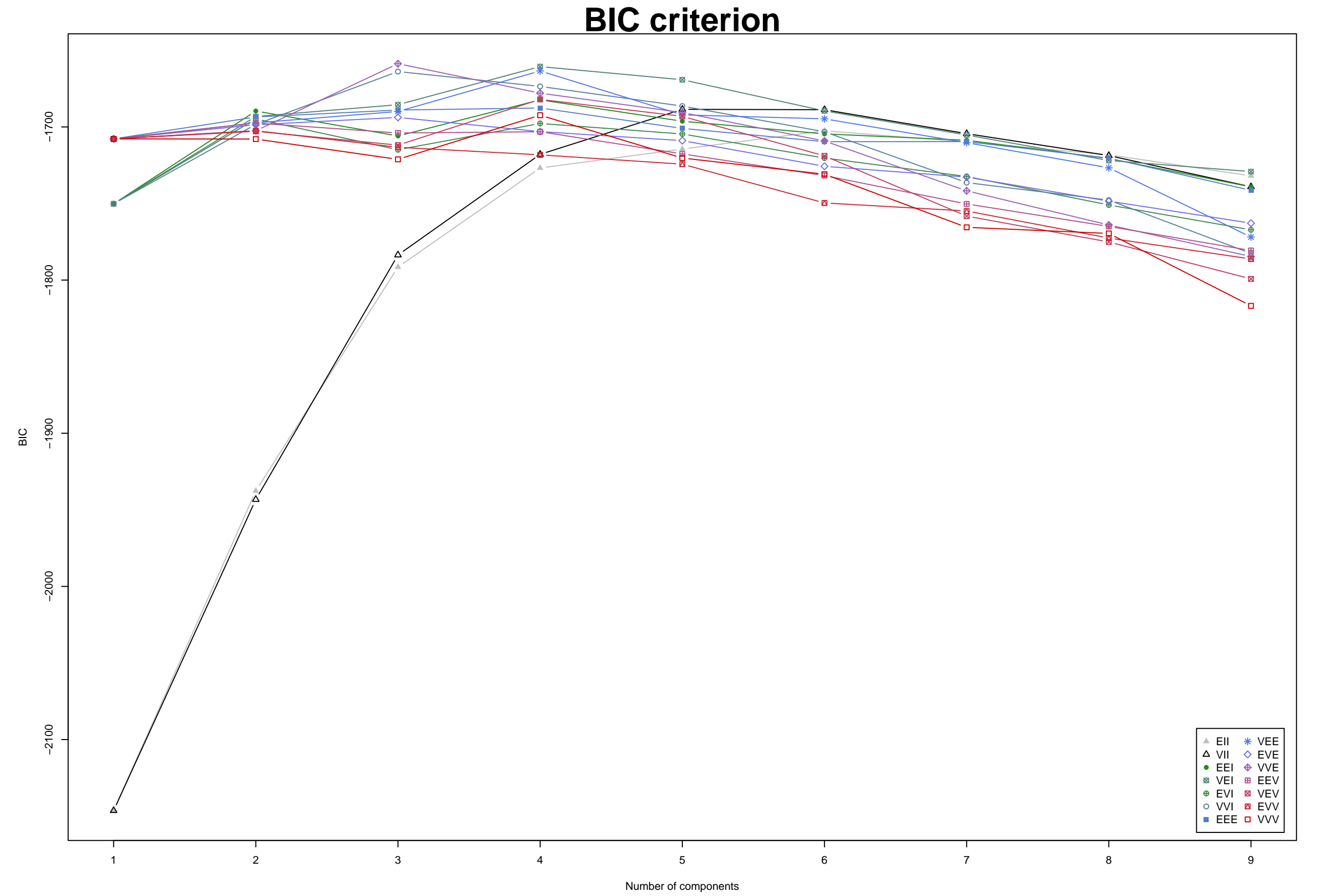
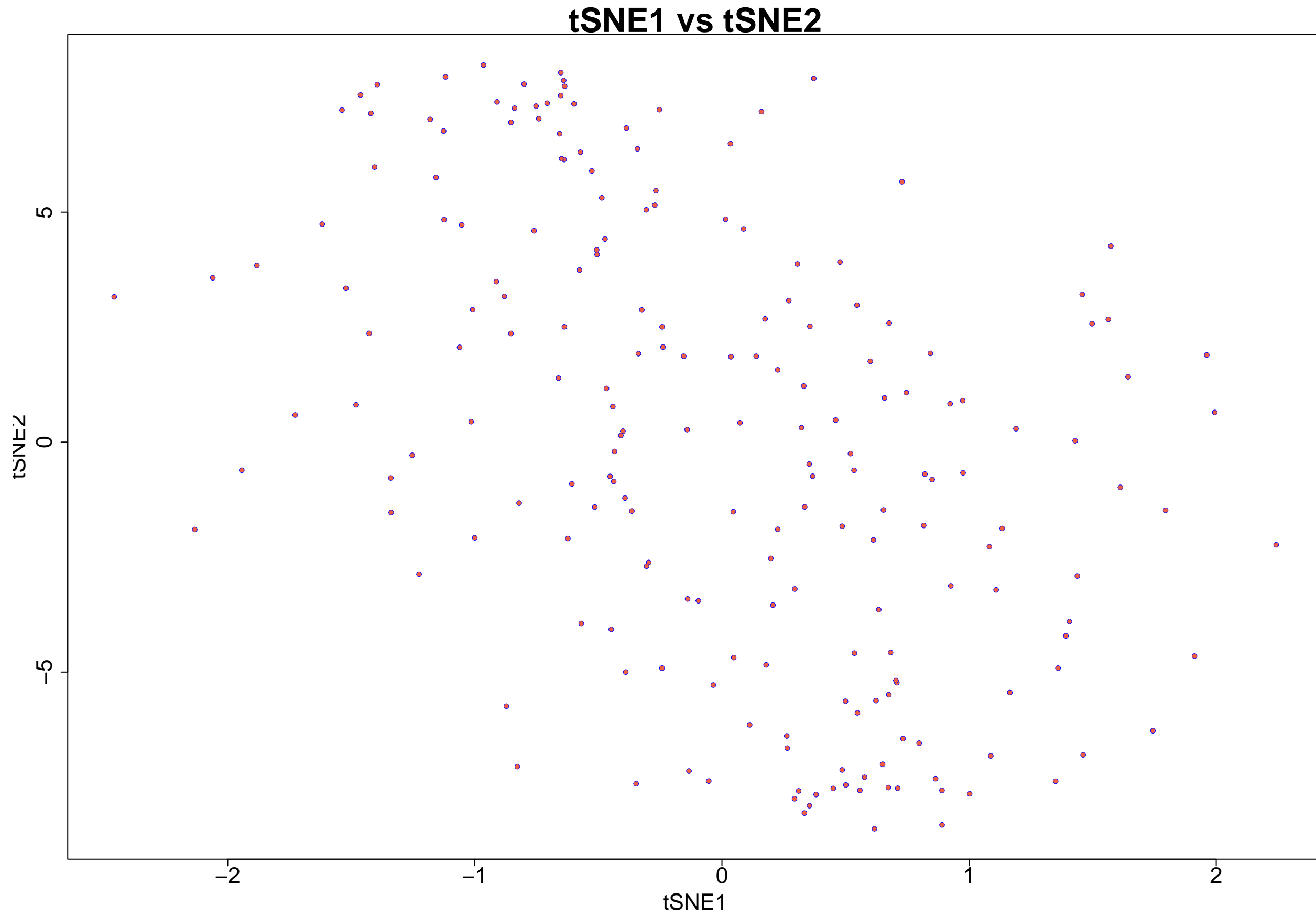




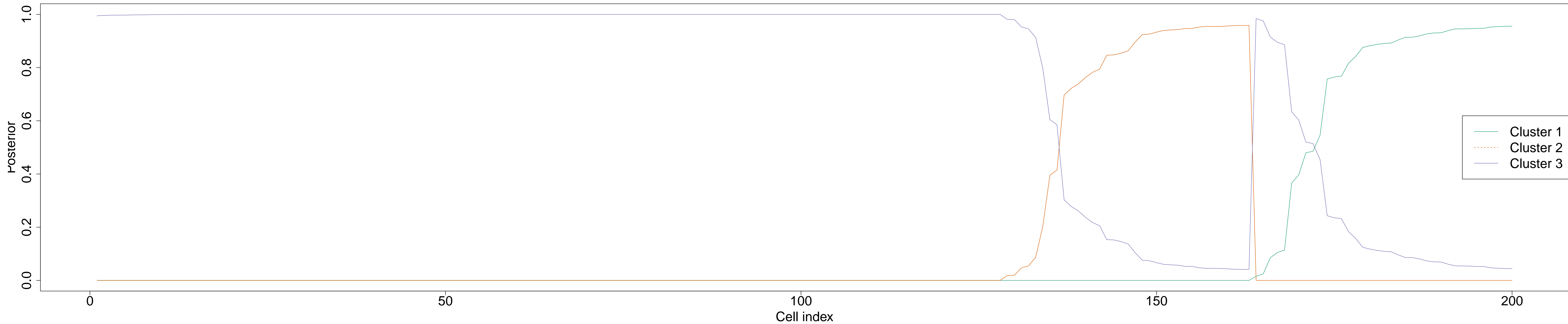
**tSNE Trajectory plot**



clustering: tSNE  
perp = 41 | iter = 5000

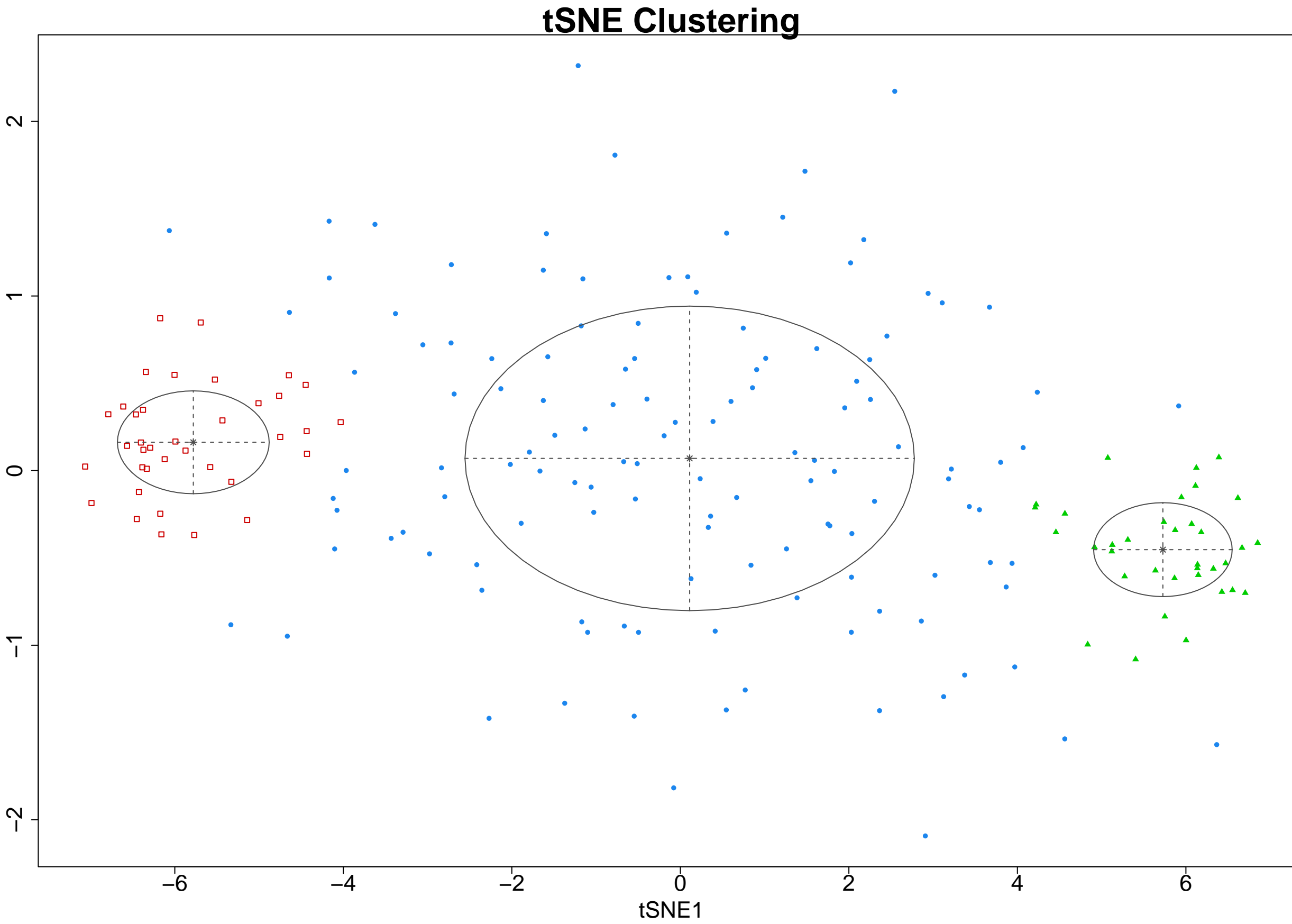
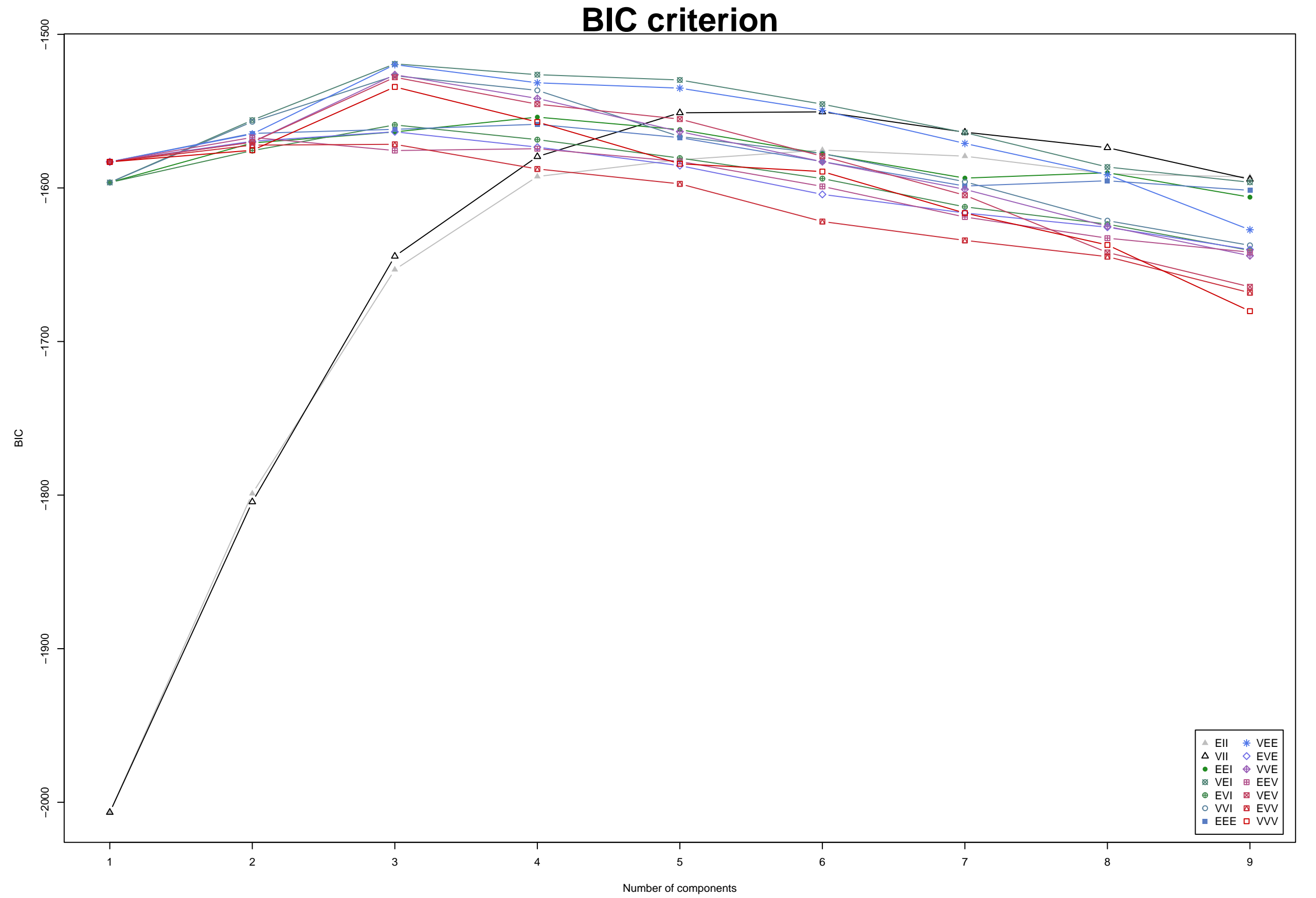
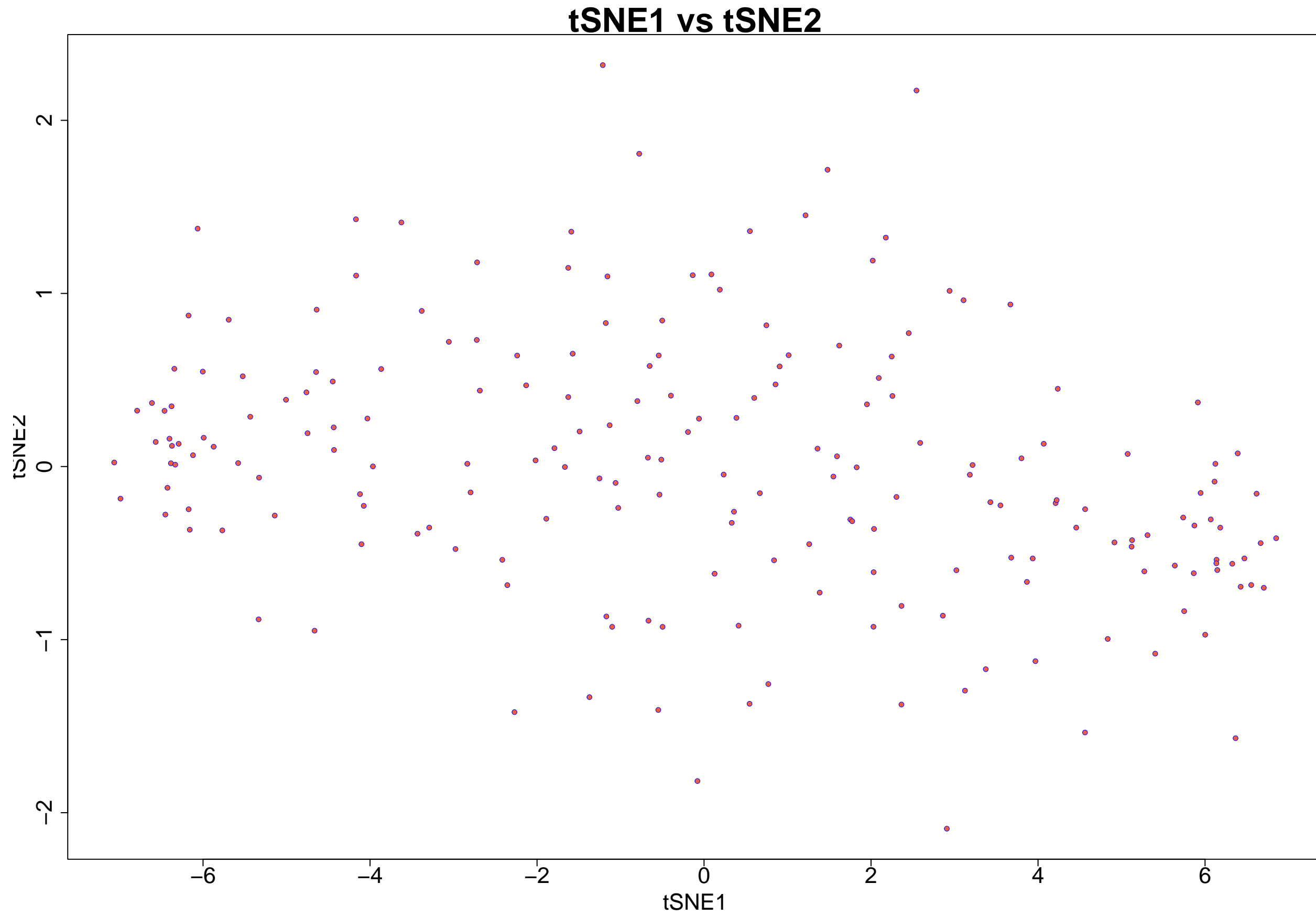


**tSNE Trajectory plot**

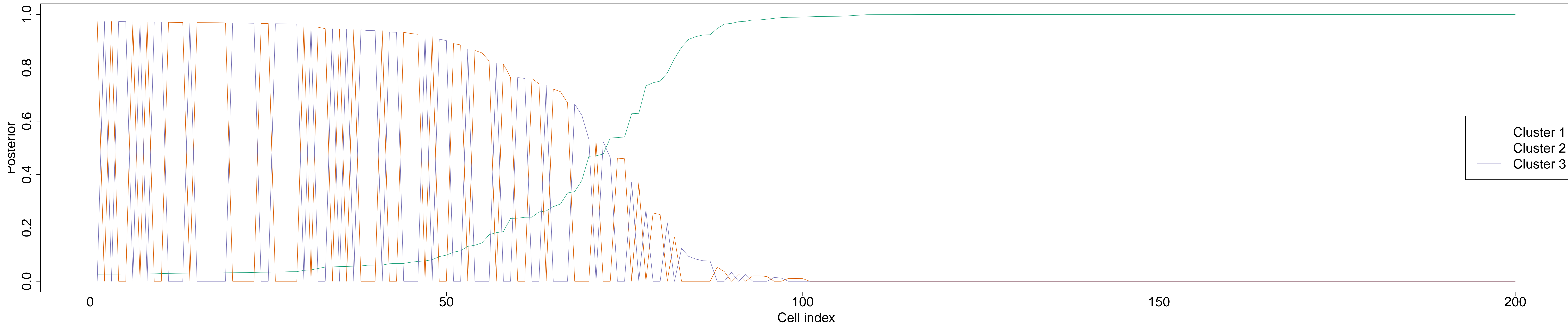


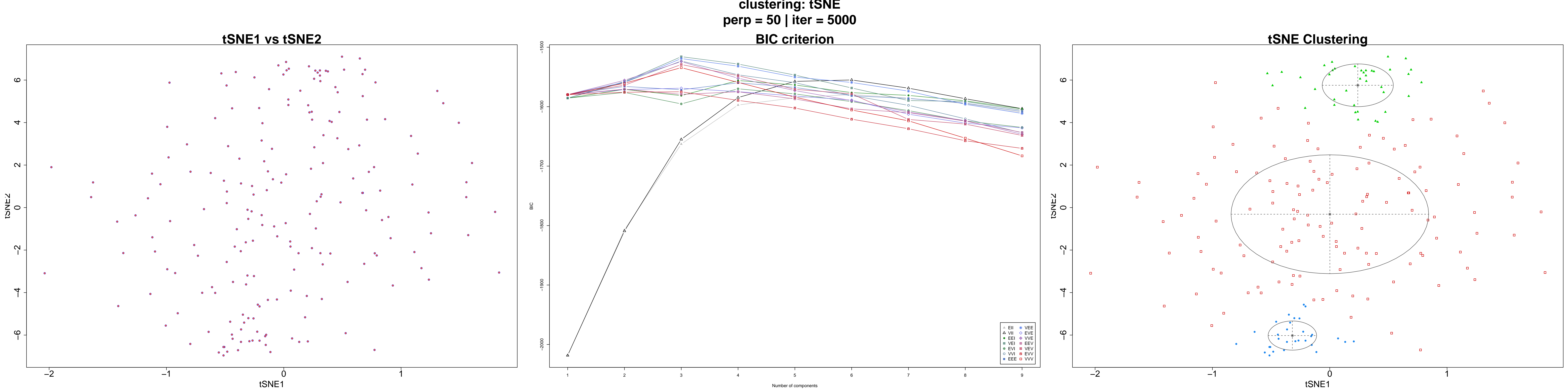


clustering: tSNE  
perp = 50 | iter = 5000



**tSNE Trajectory plot**





**tSNE Trajectory plot**

