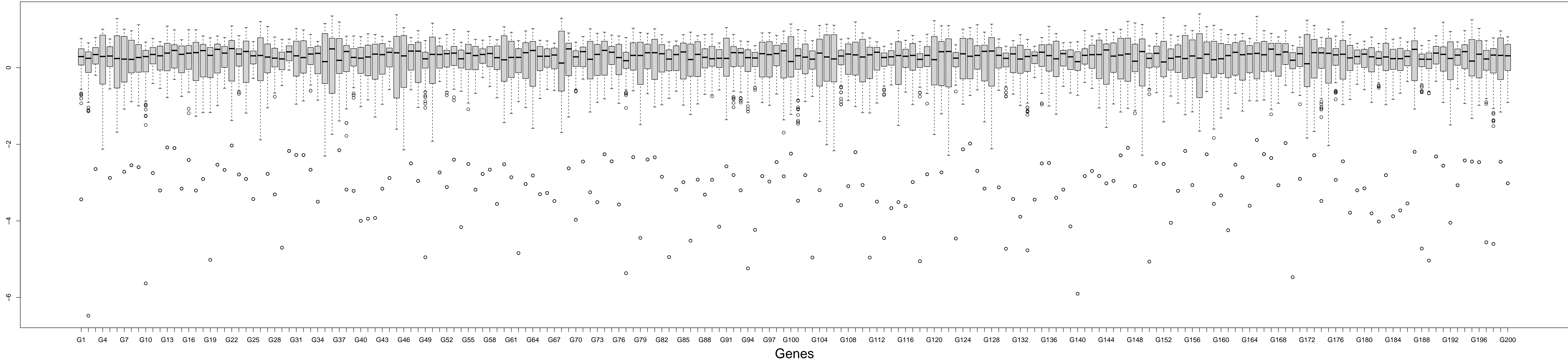
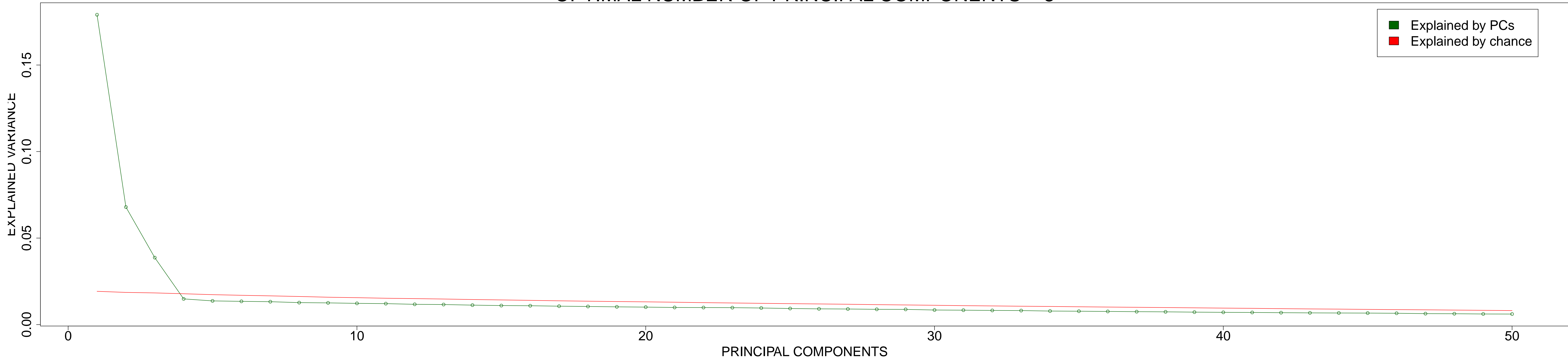
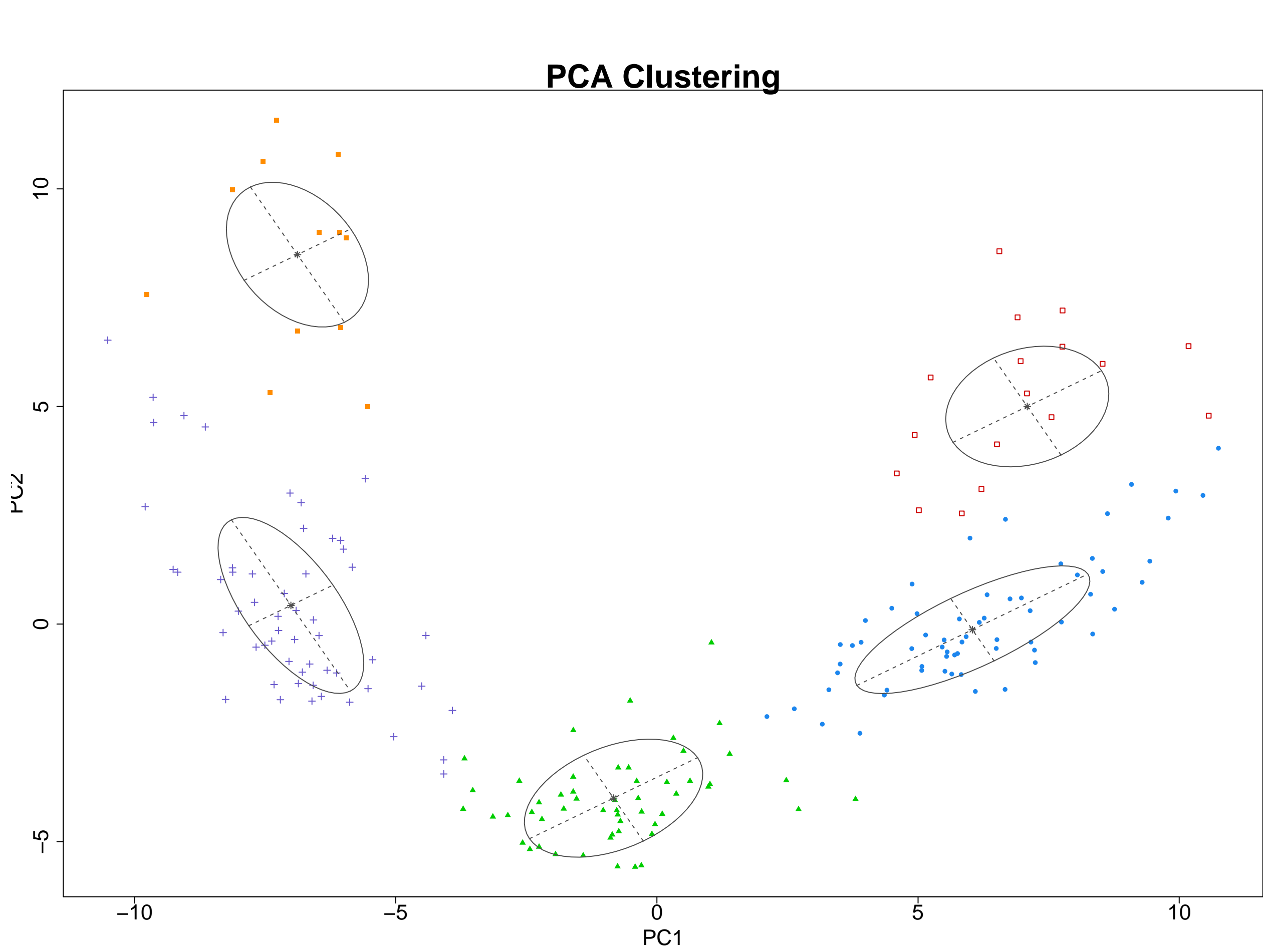
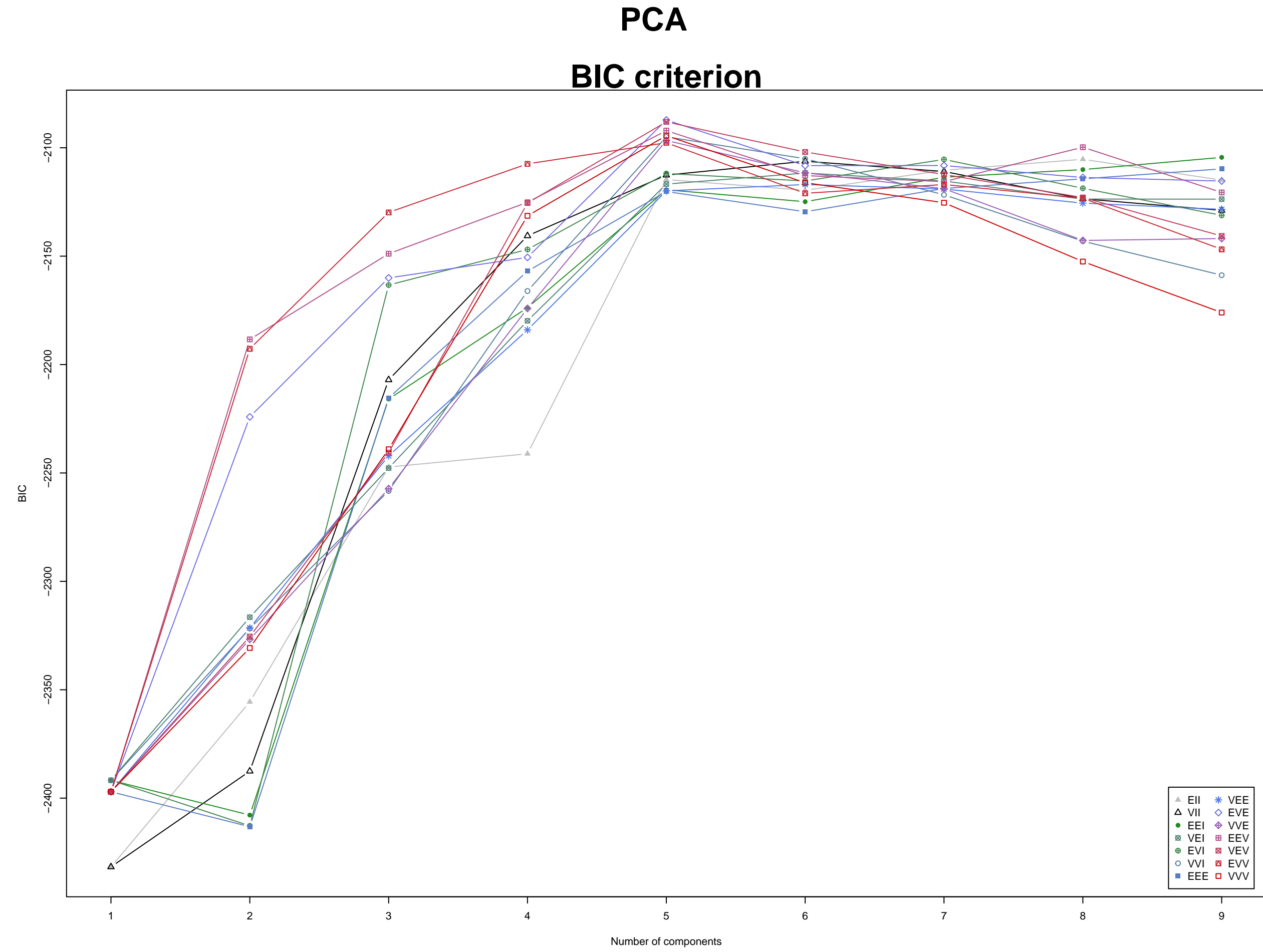
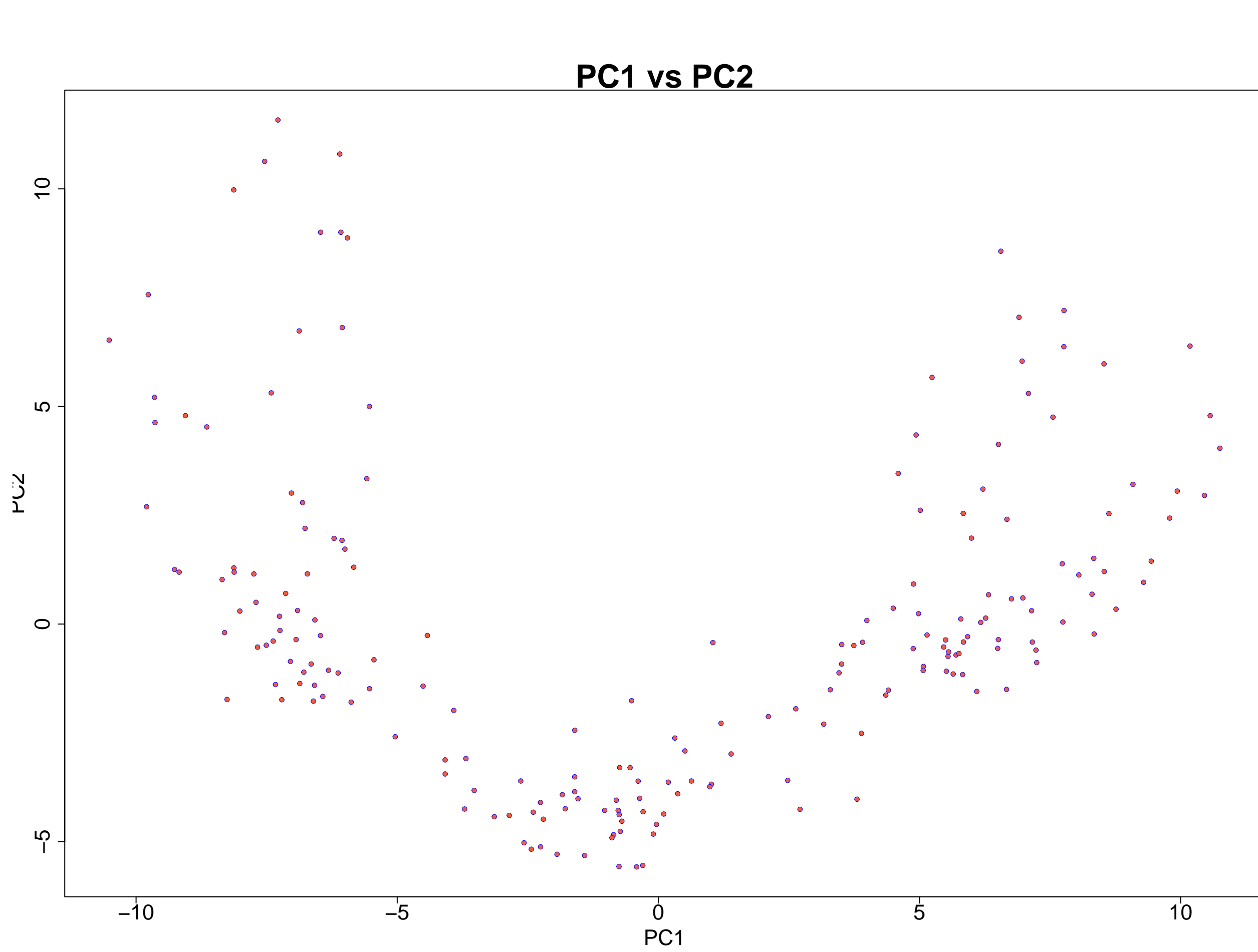


Barplot of Centered and Scaled Dataset 2

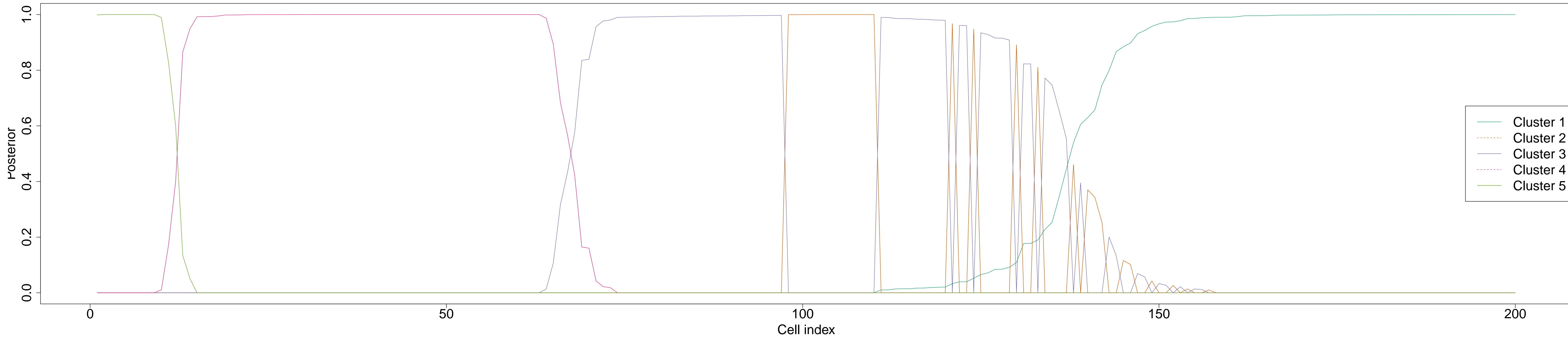


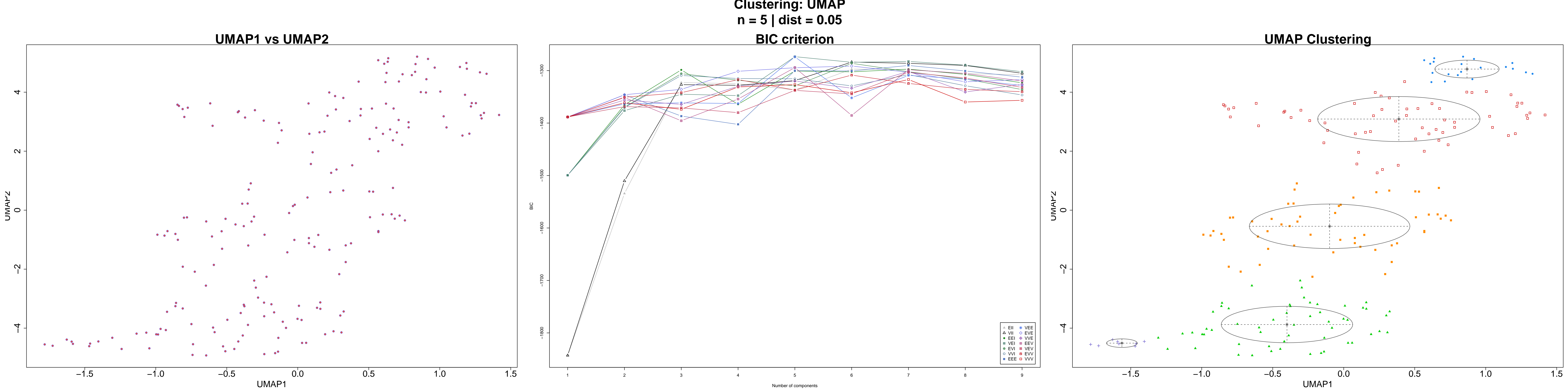
# OPTIMAL NUMBER OF PRINCIPAL COMPONENTS = 3



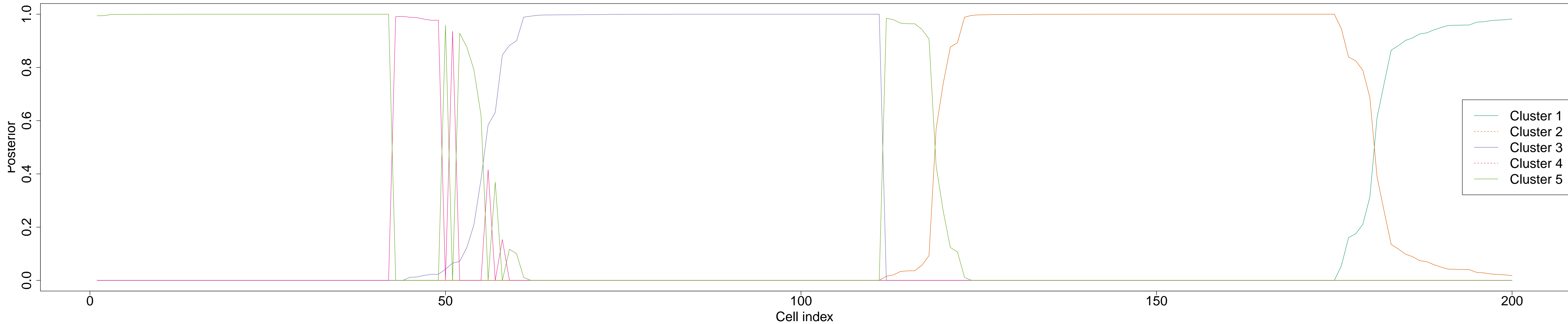


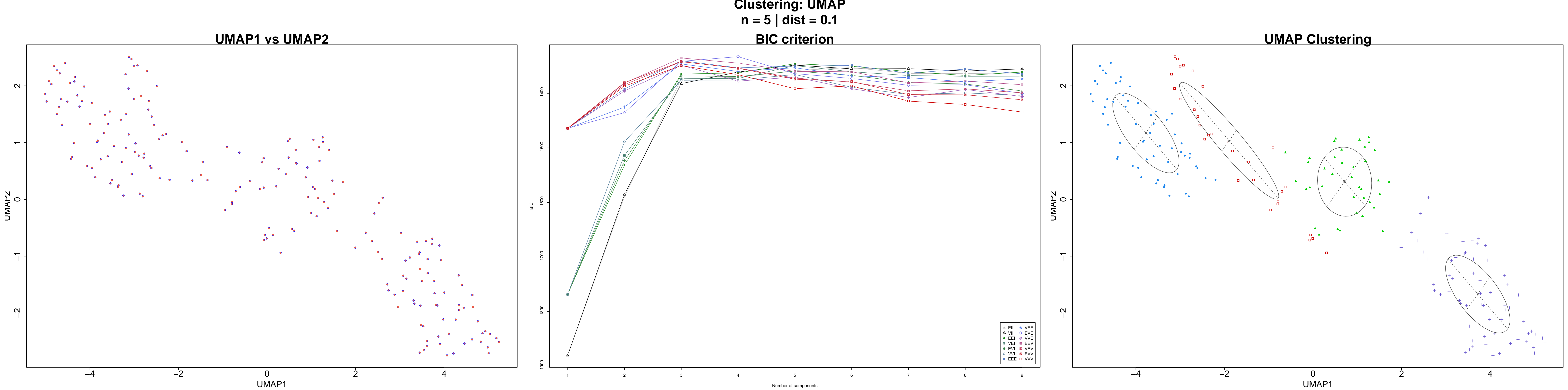
PCA Trajectory plot



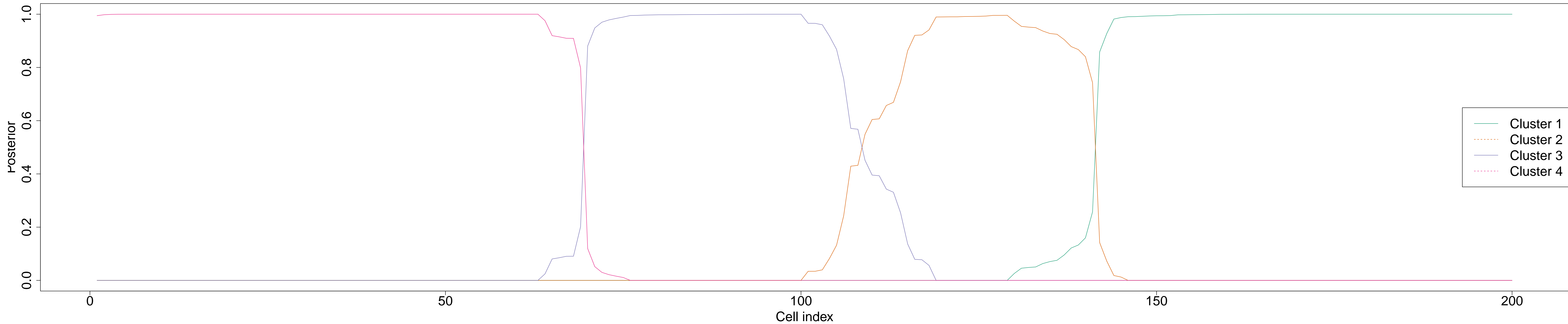


# UMAP Trajectory plot

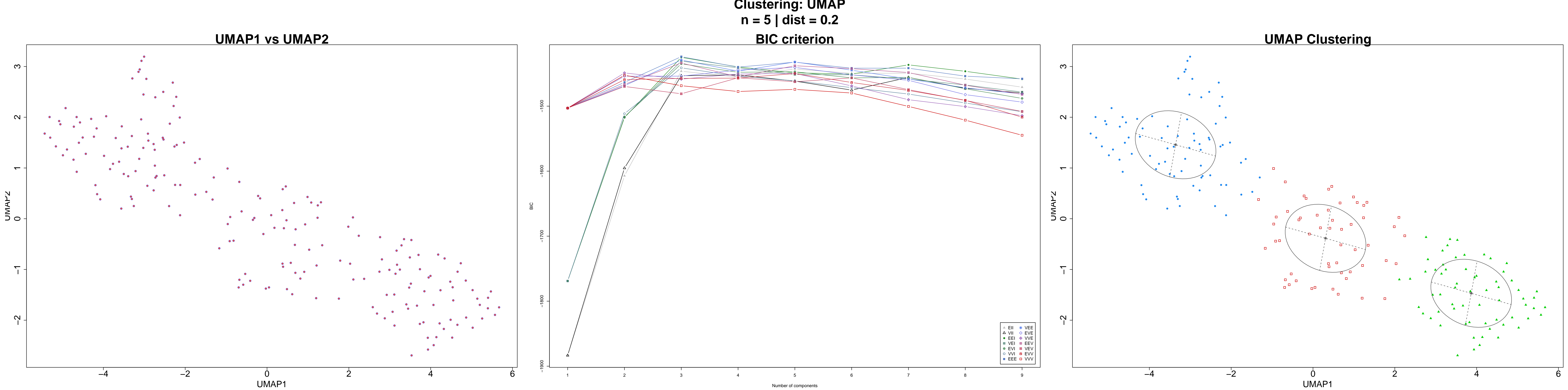




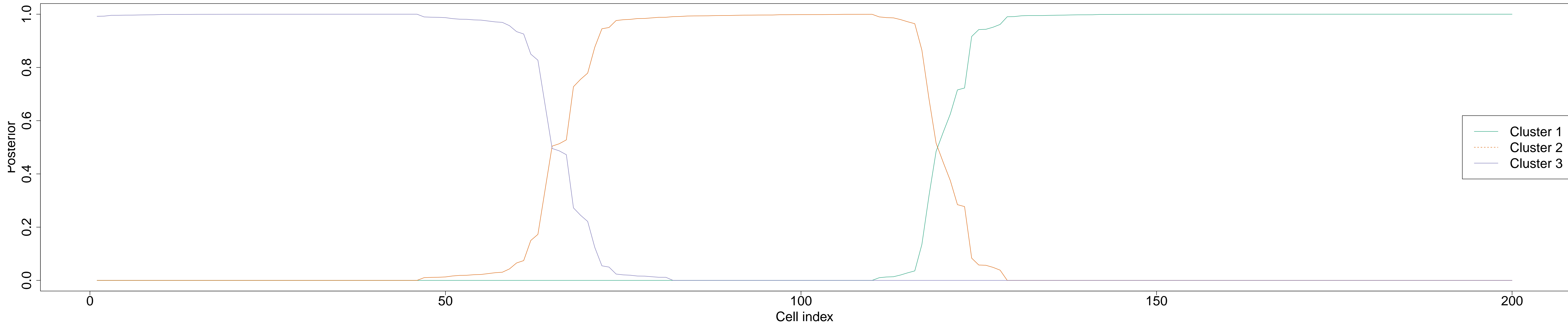
# UMAP Trajectory plot

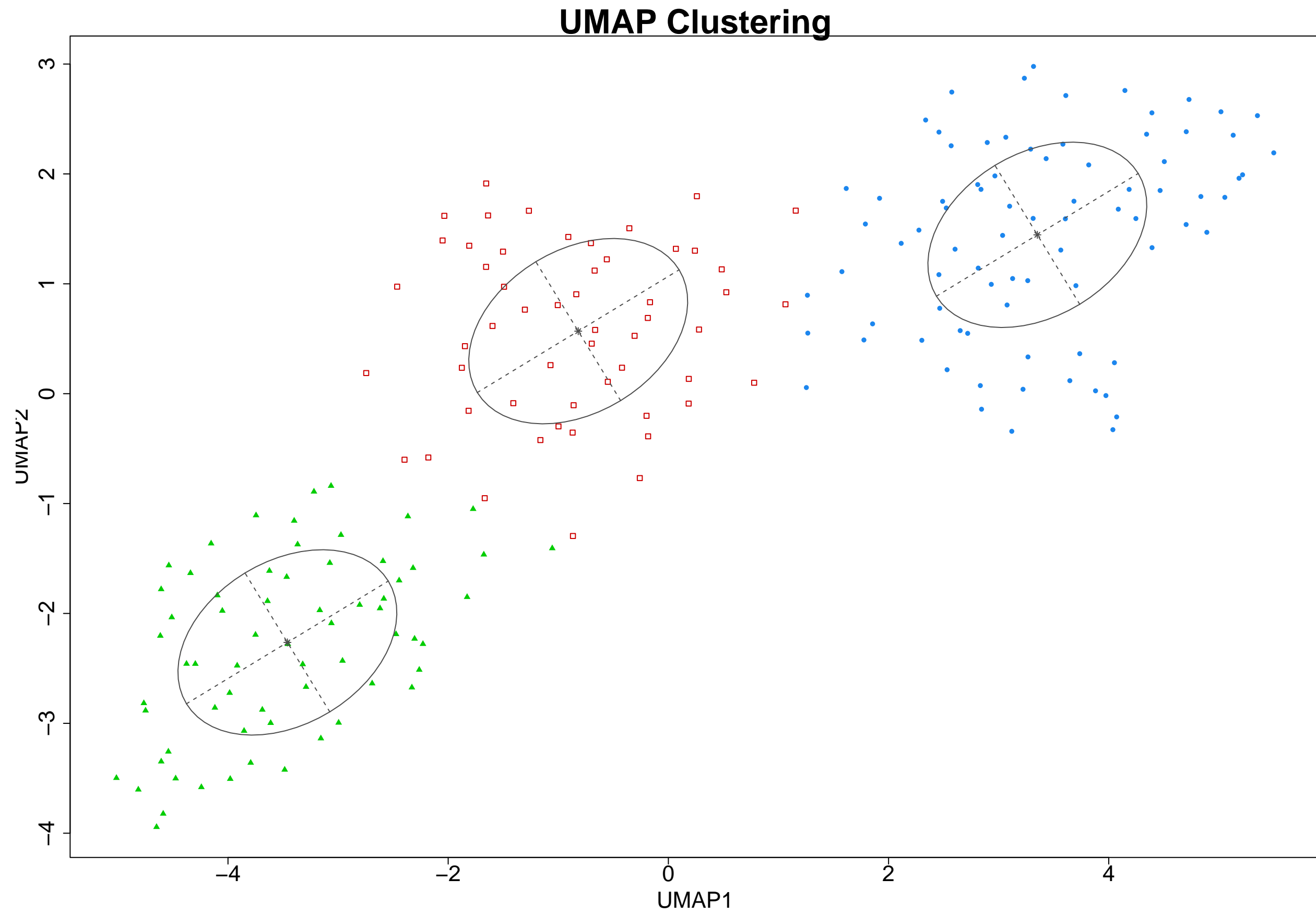
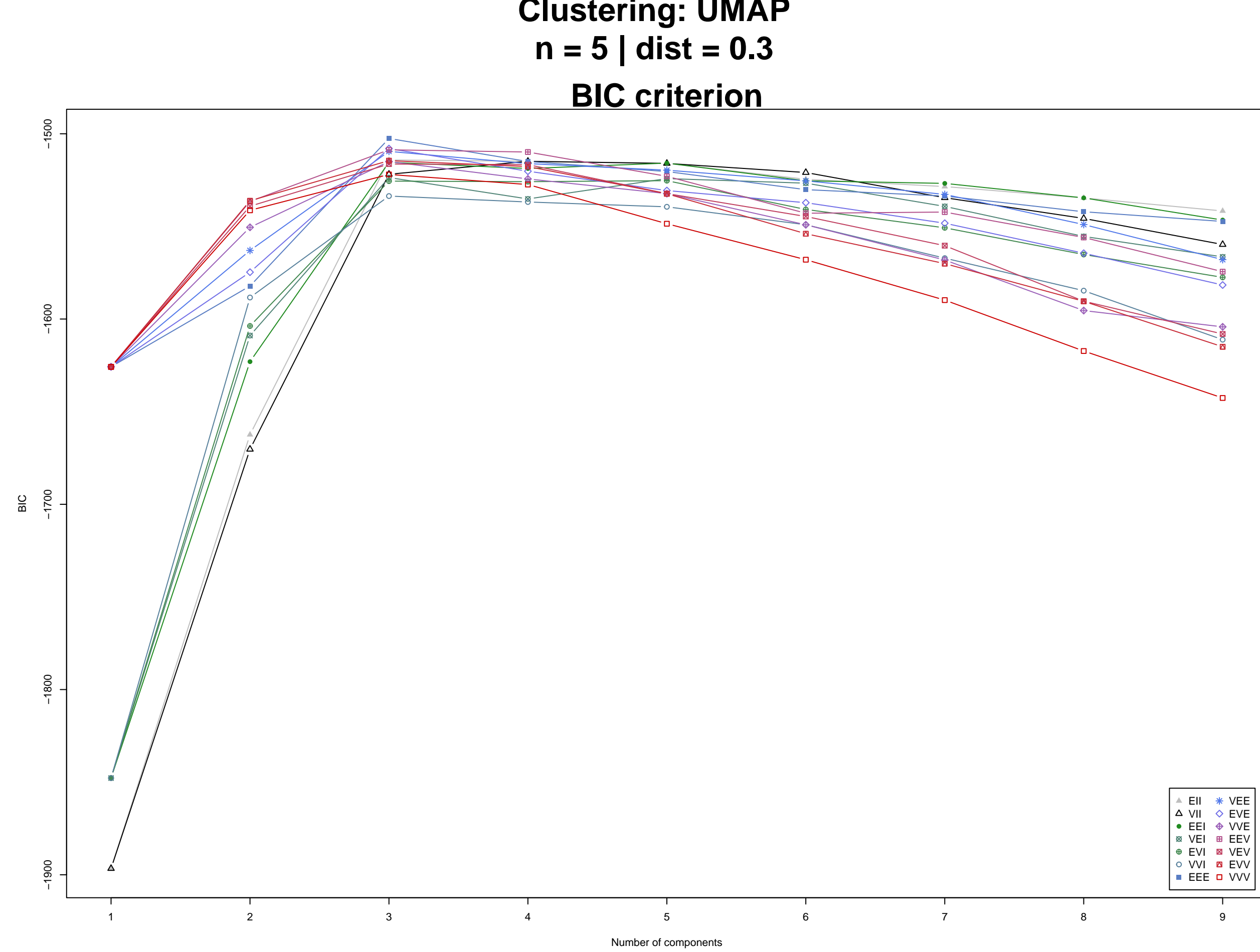
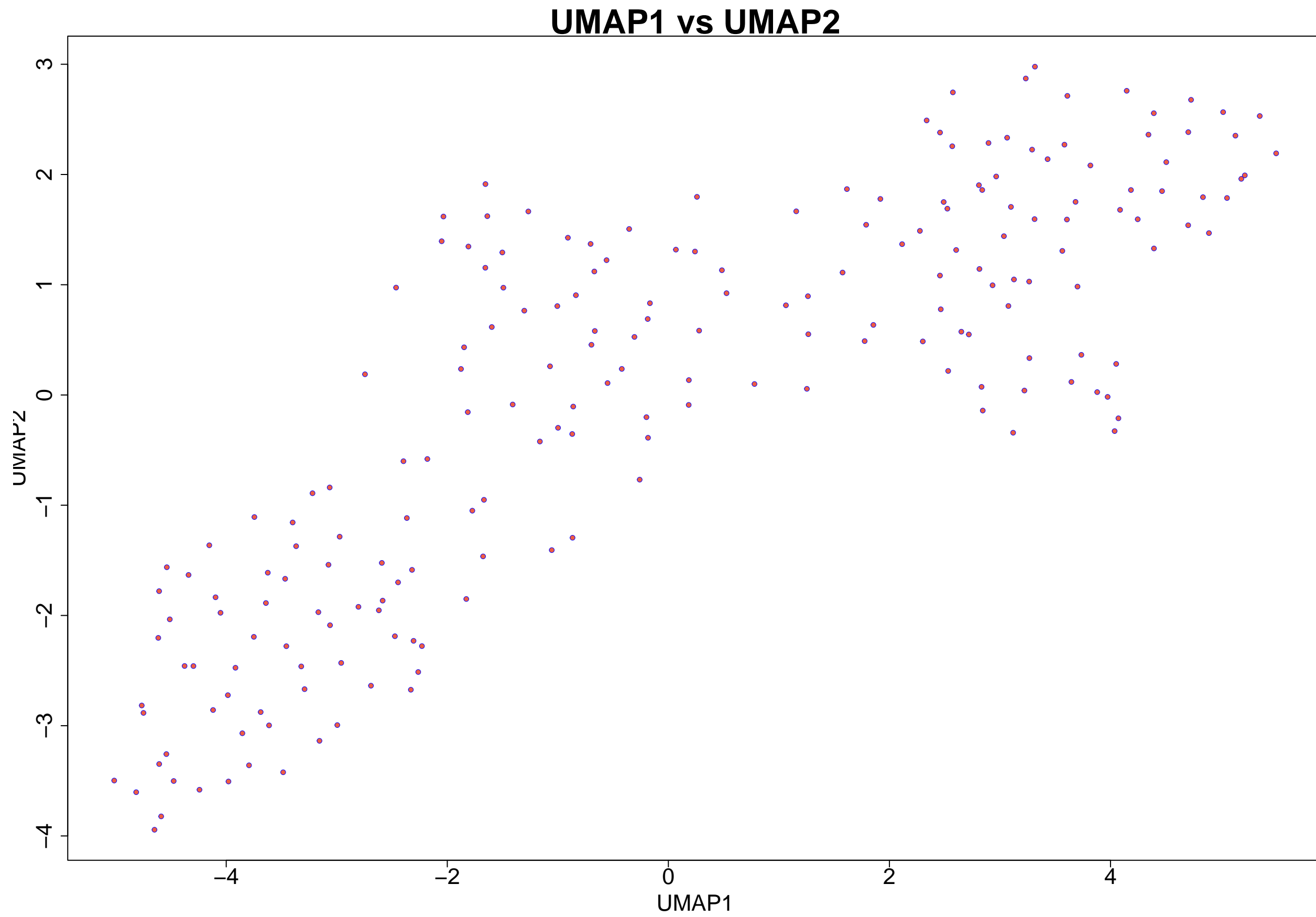




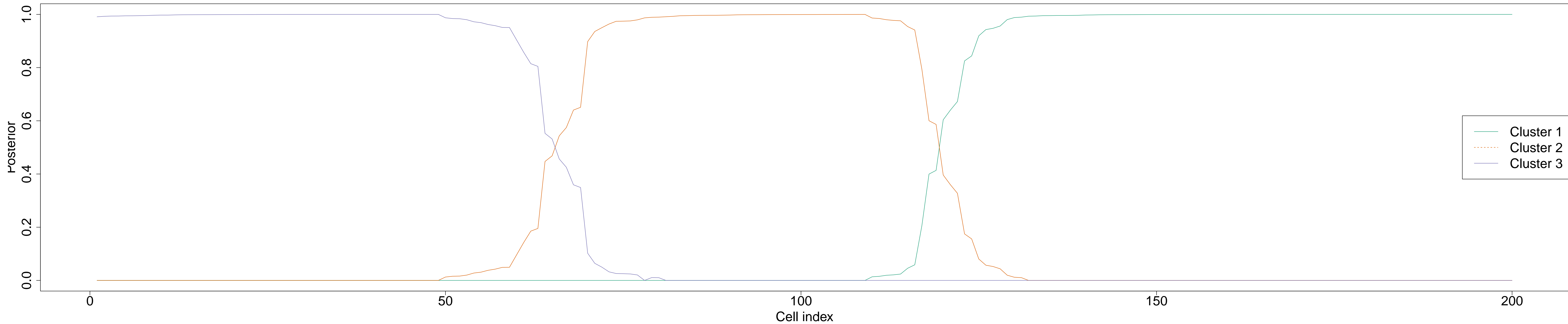


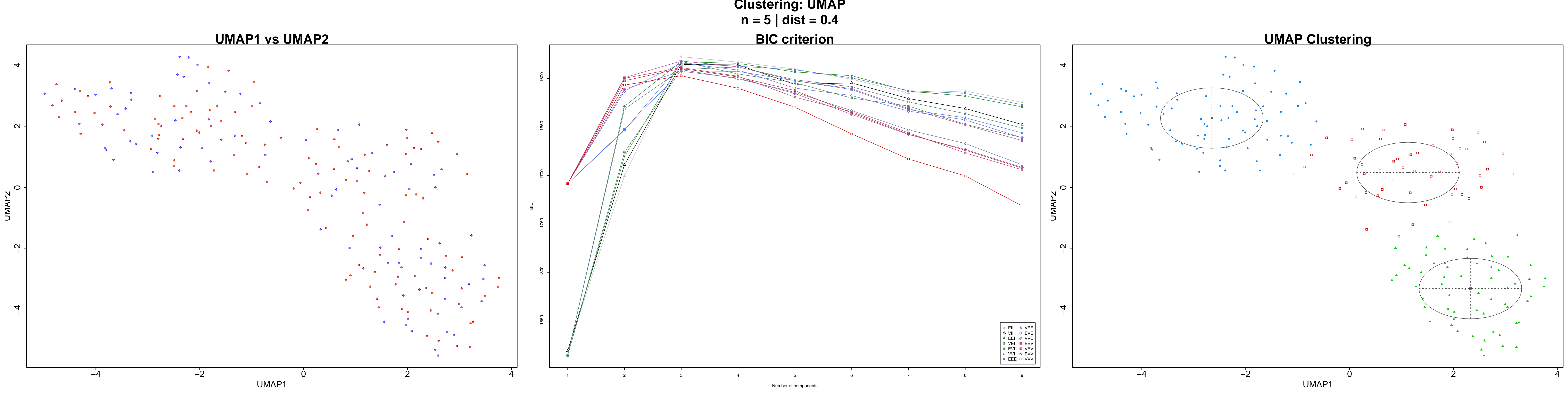
# UMAP Trajectory plot



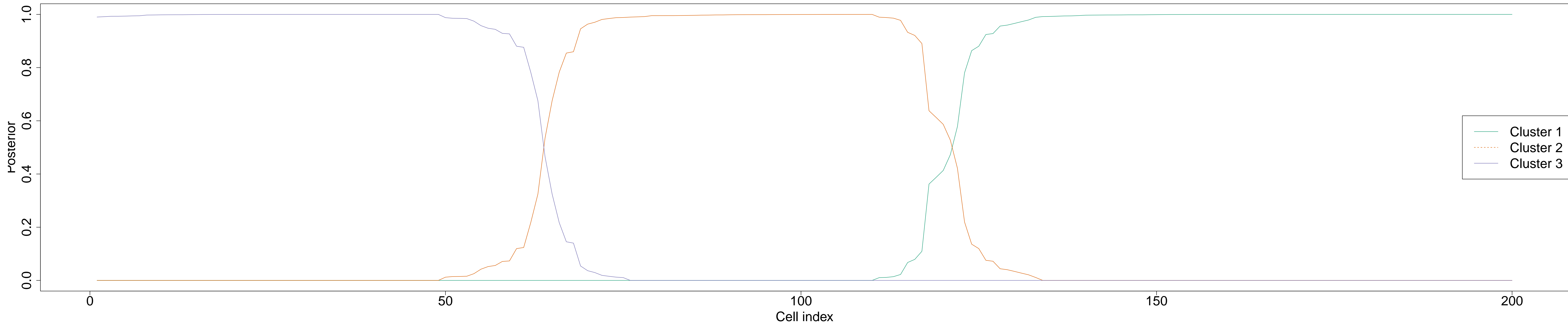


UMAP Trajectory plot



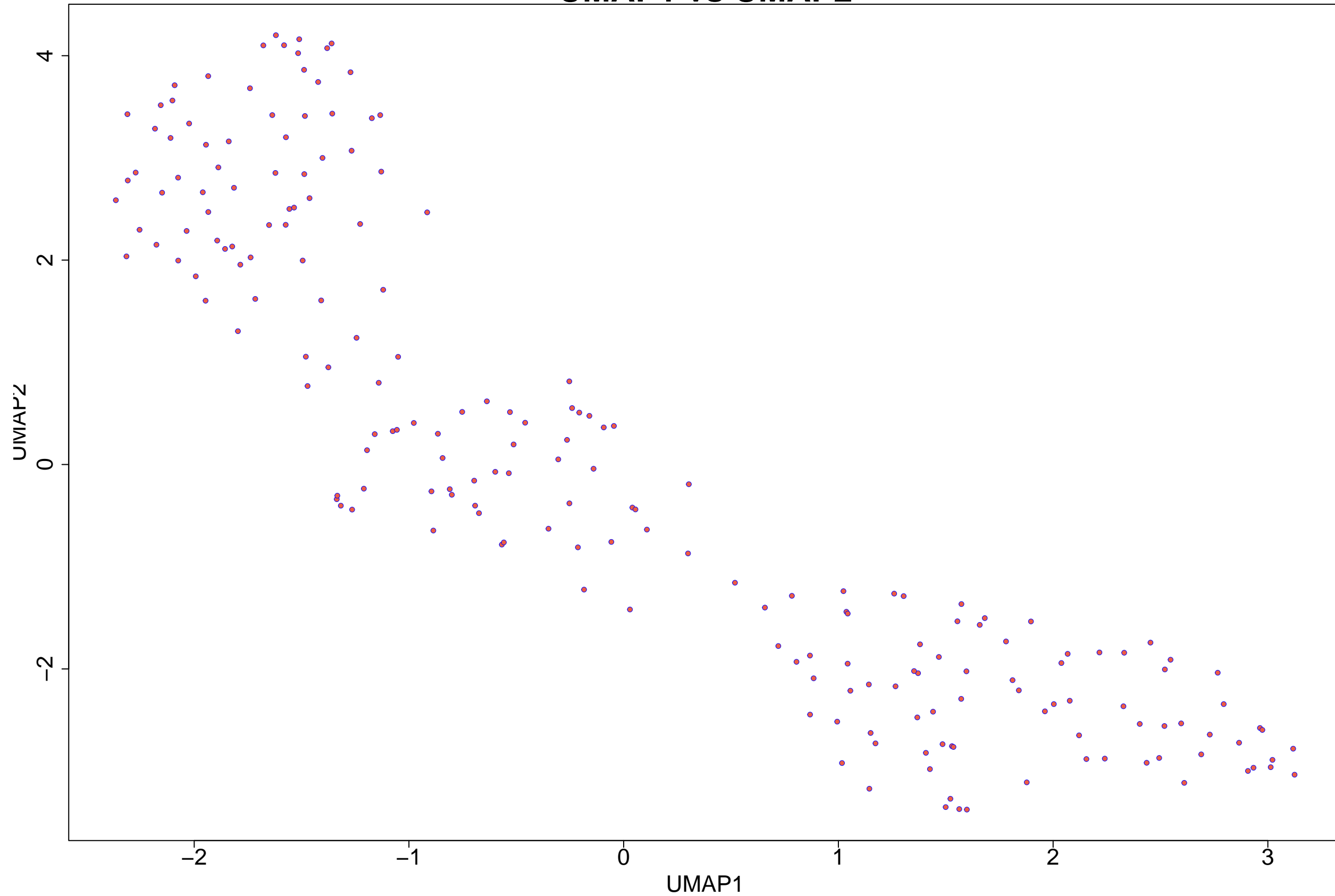


UMAP Trajectory plot

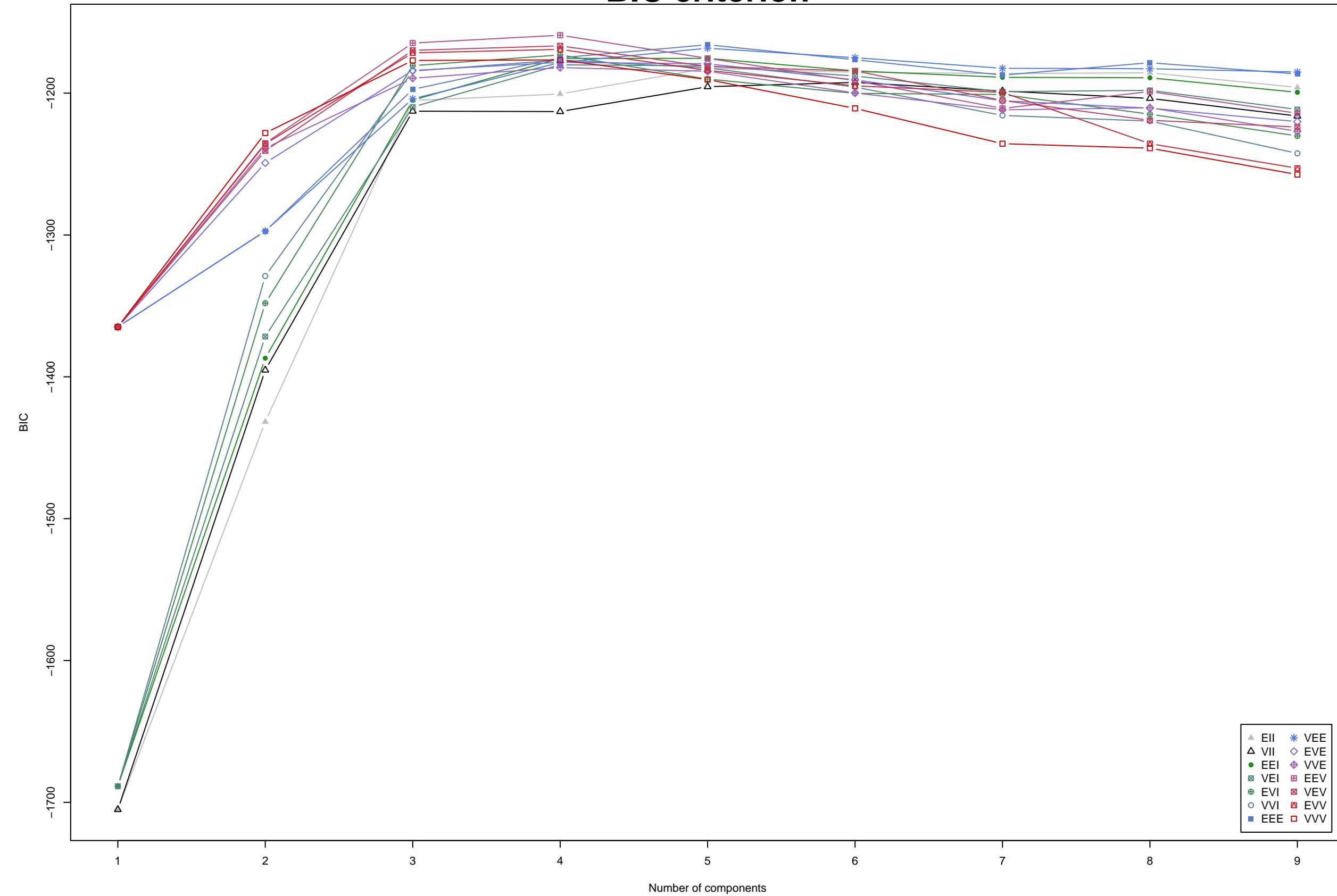


Clustering: UMAP  
n = 10 | dist = 0.05

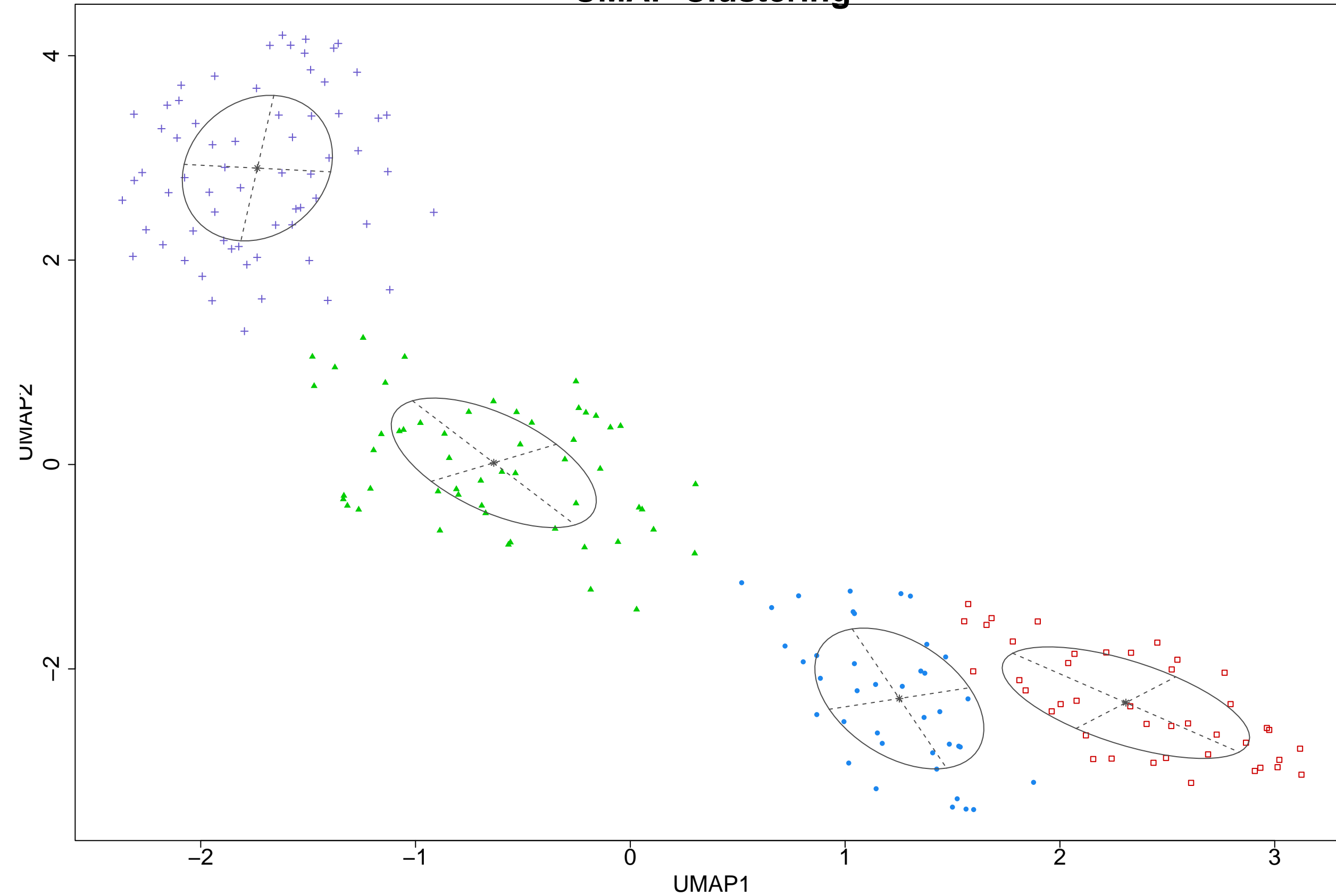
UMAP1 vs UMAP2



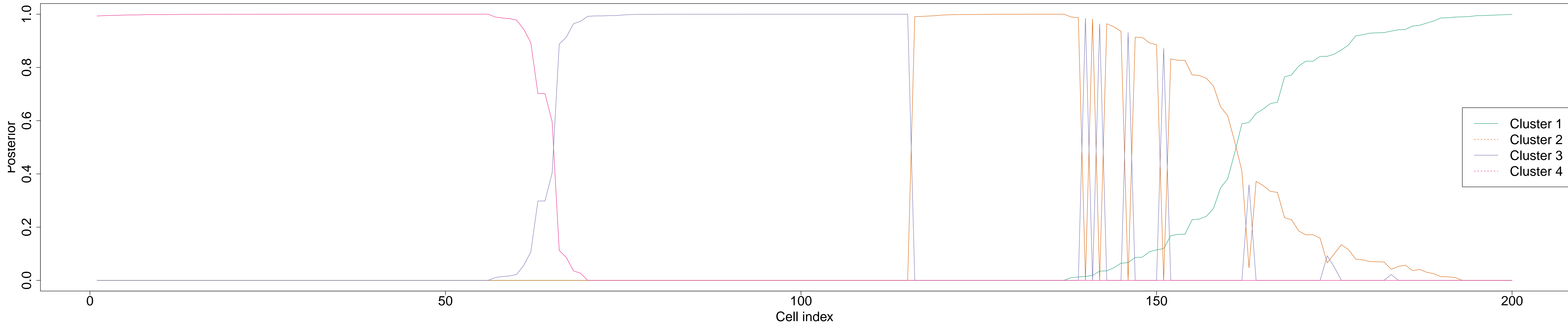
BIC criterion



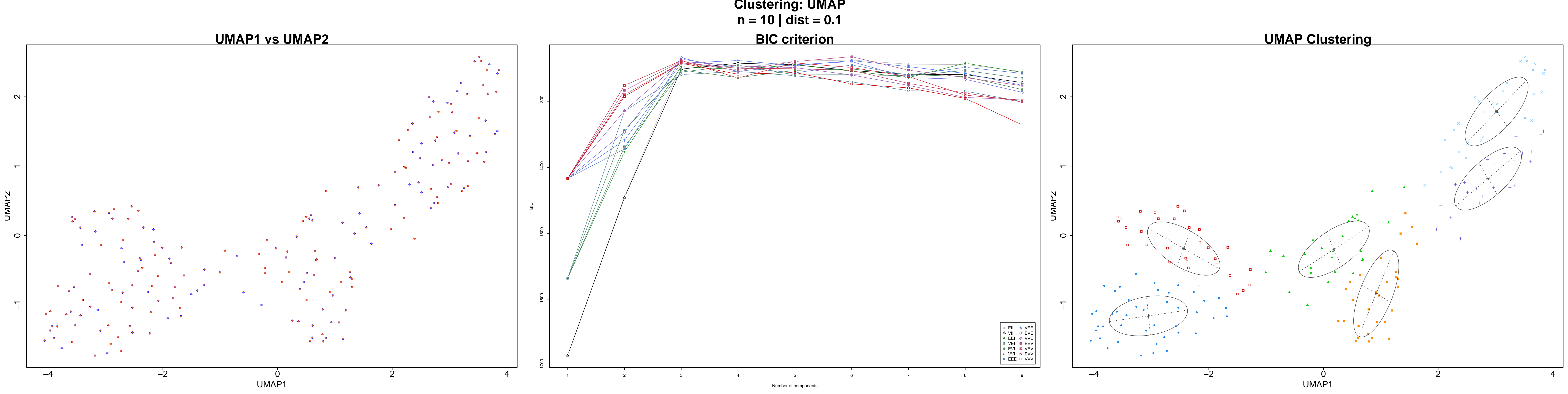
UMAP Clustering



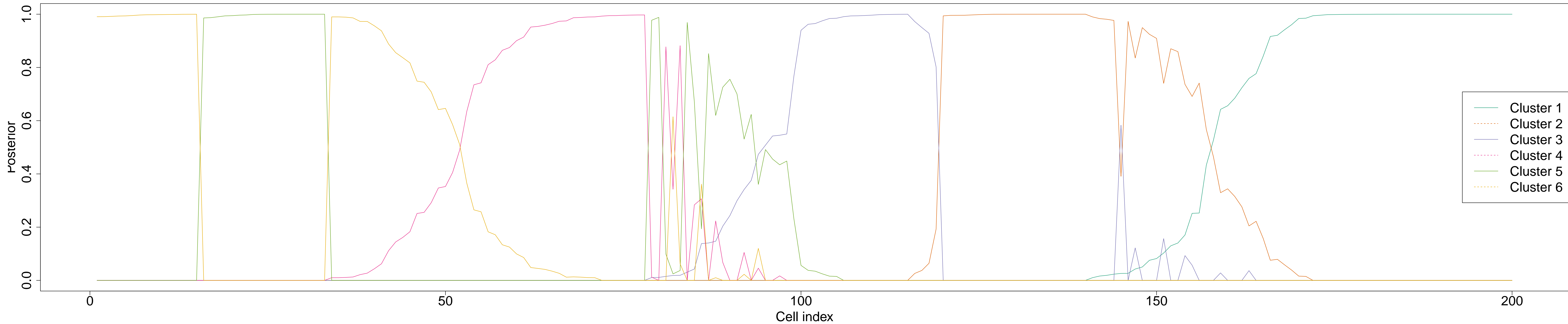
# UMAP Trajectory plot

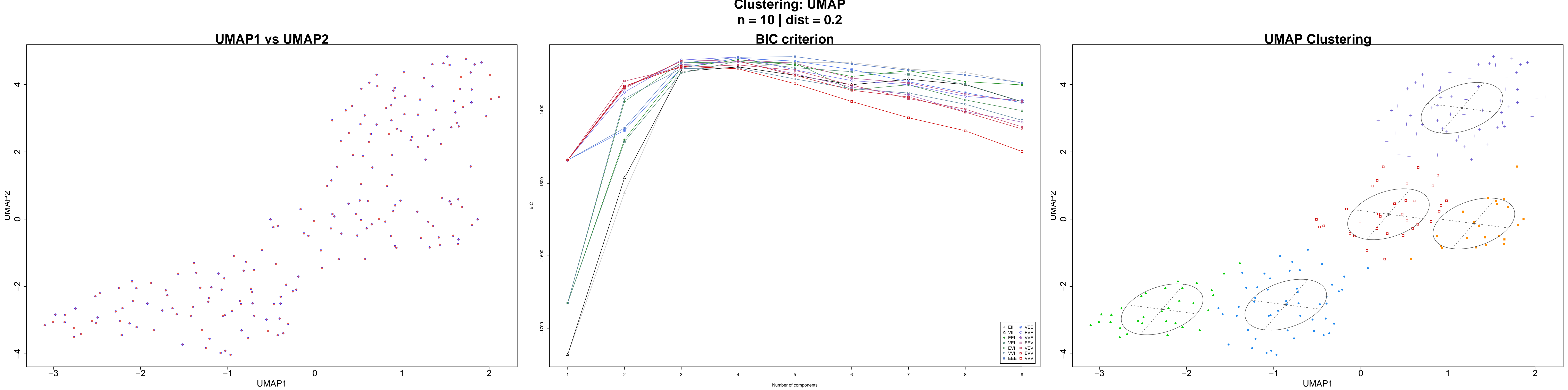




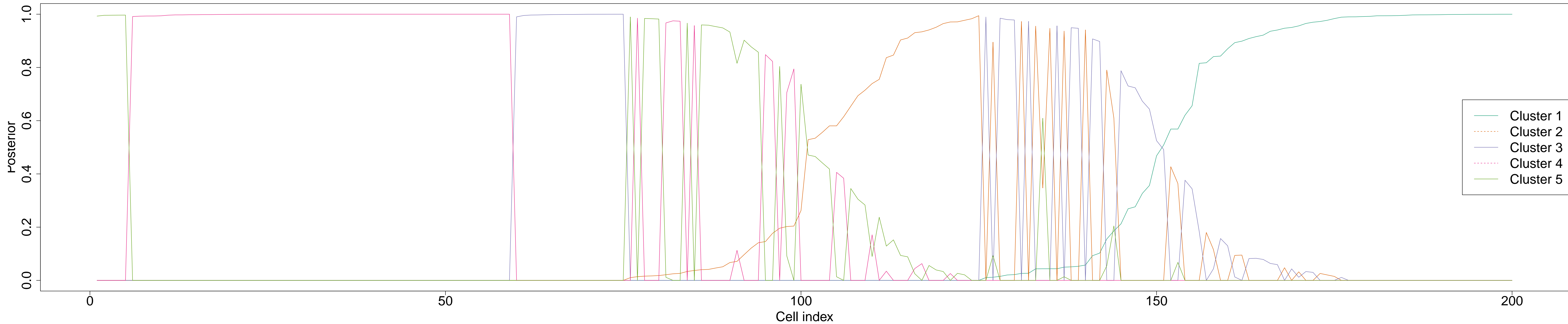


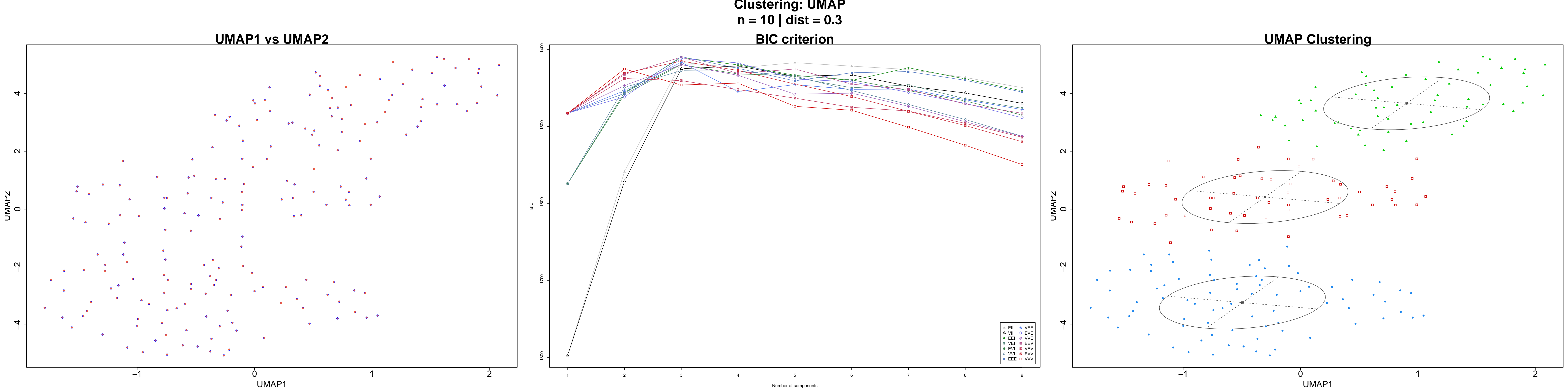
# UMAP Trajectory plot



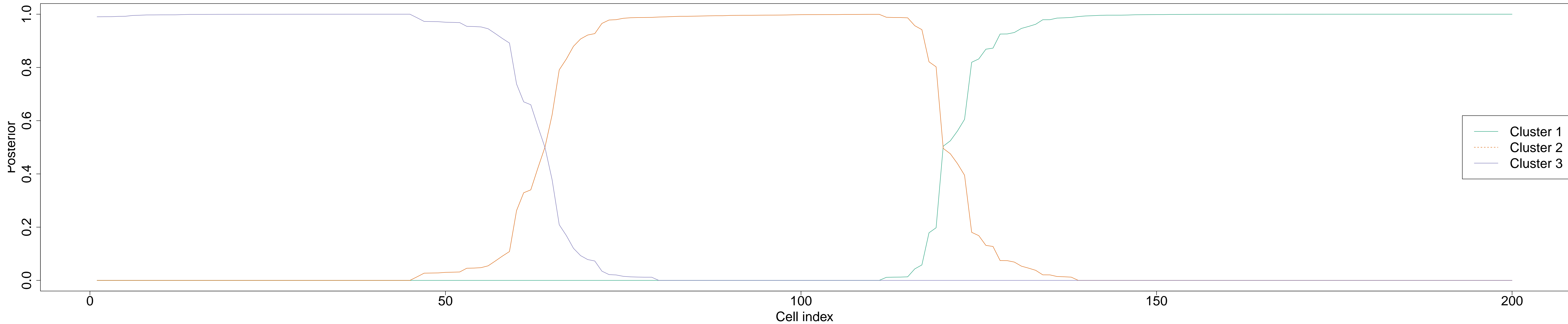


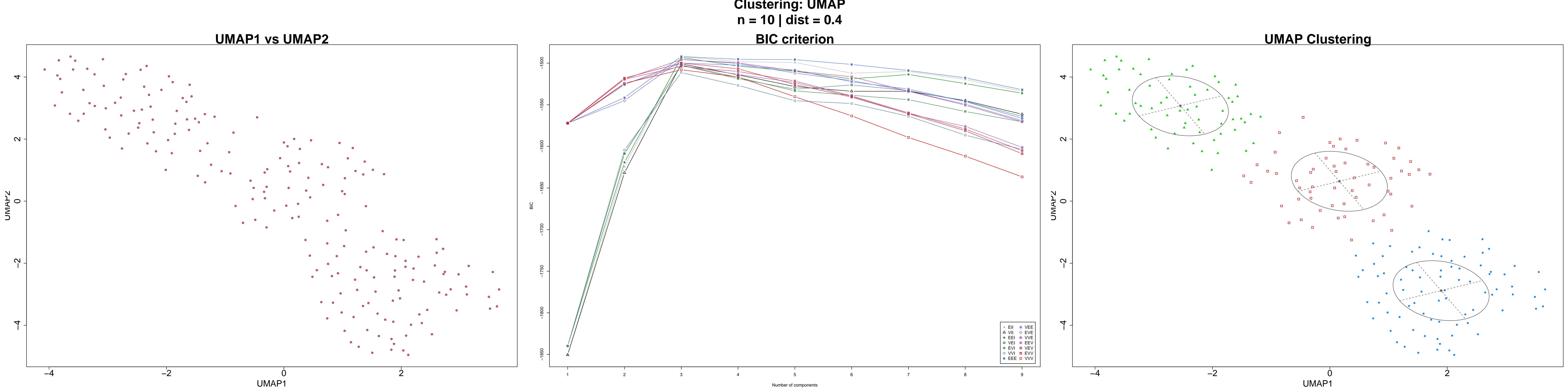
# UMAP Trajectory plot





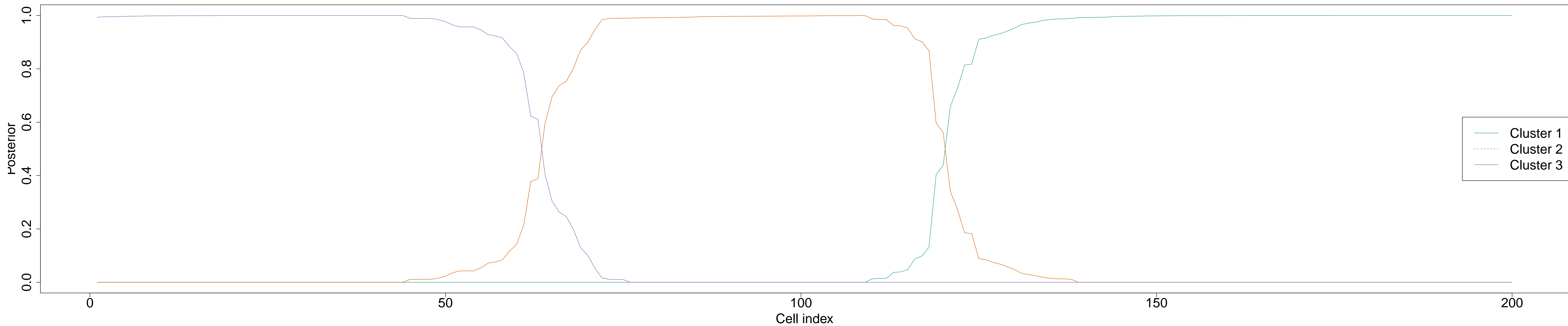
UMAP Trajectory plot





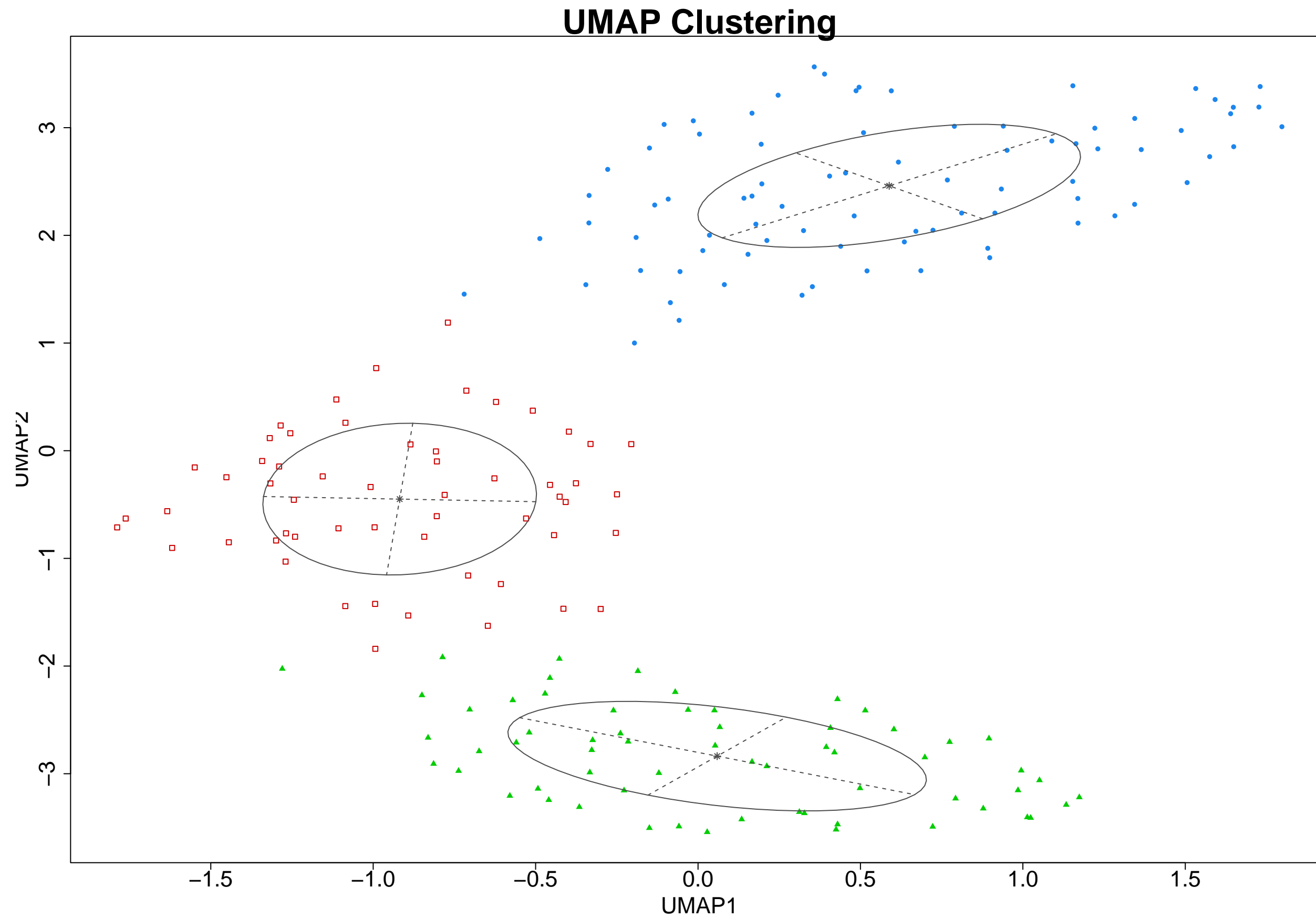
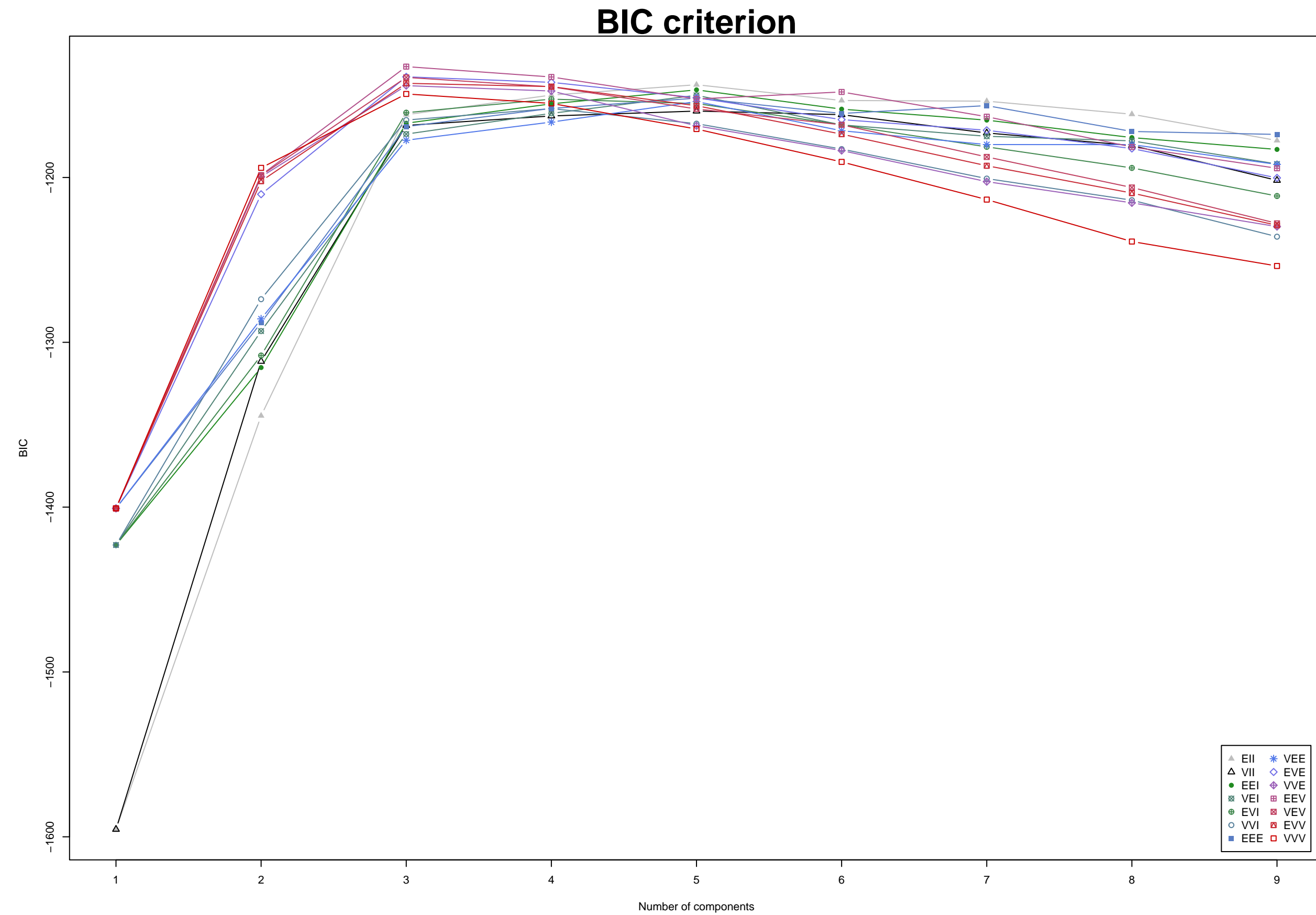
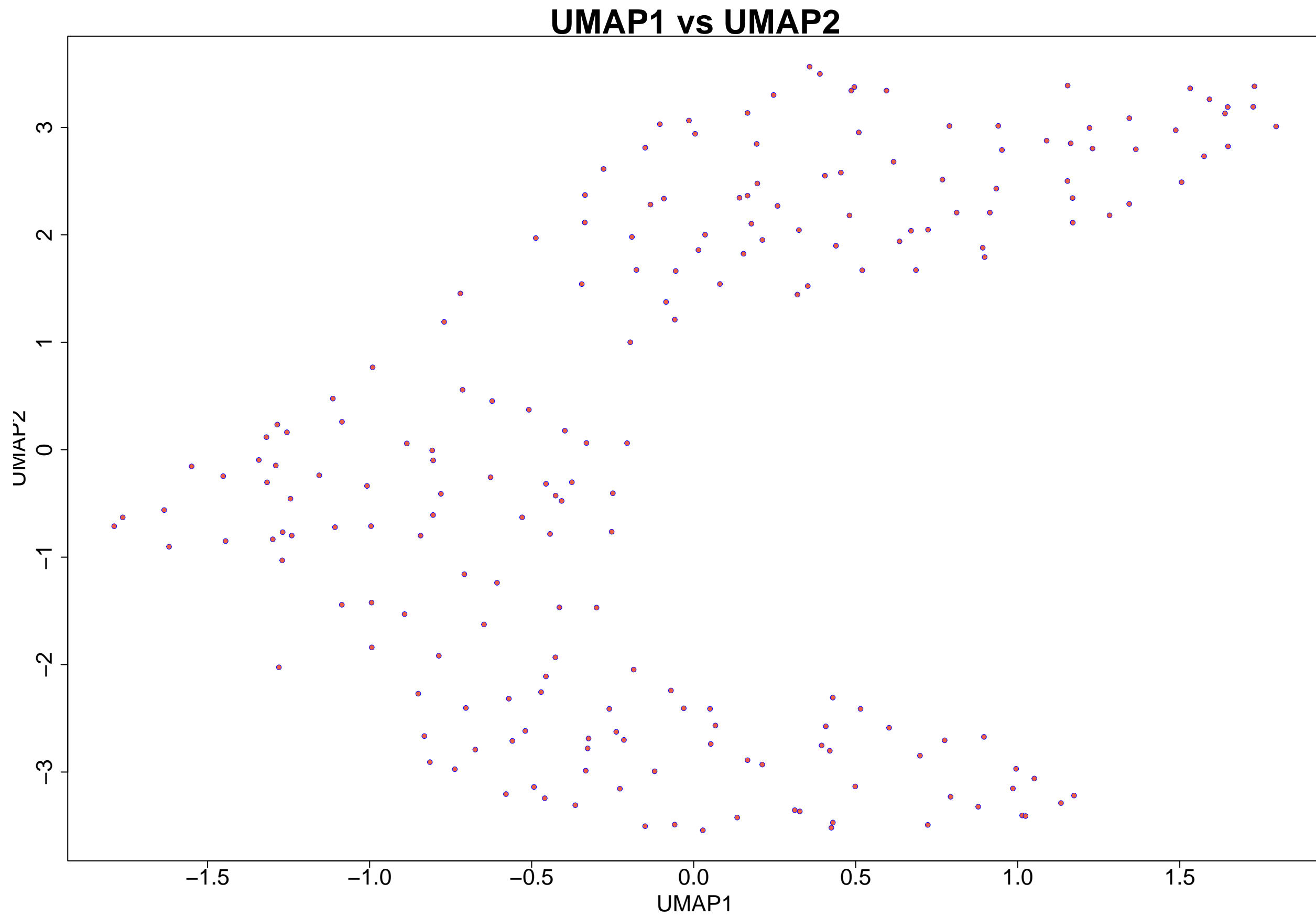


UMAP Trajectory plot

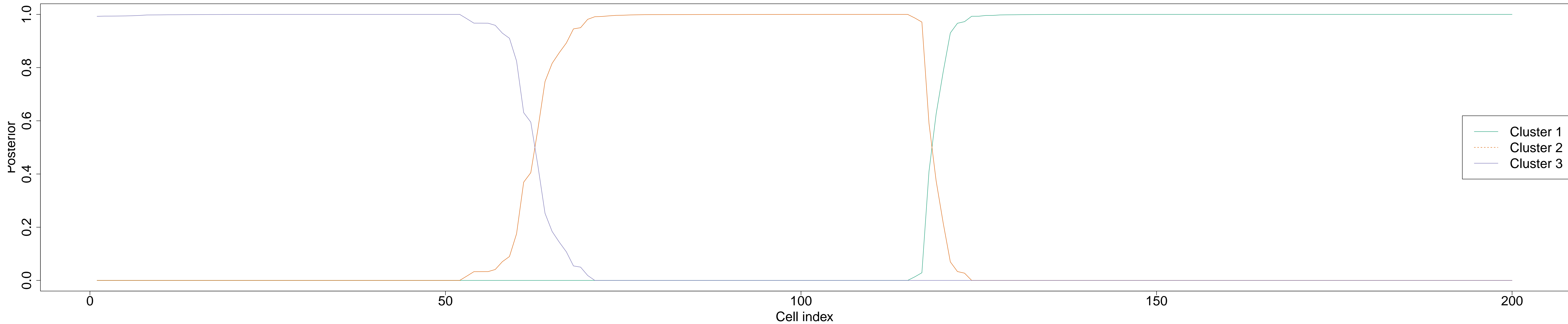


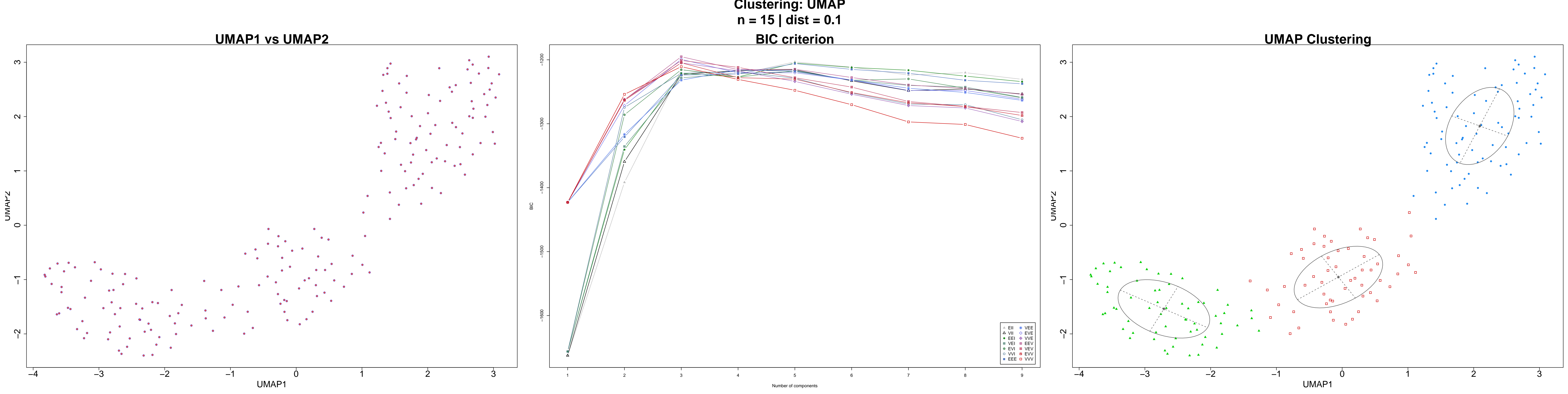


Clustering: UMAP  
n = 15 | dist = 0.05

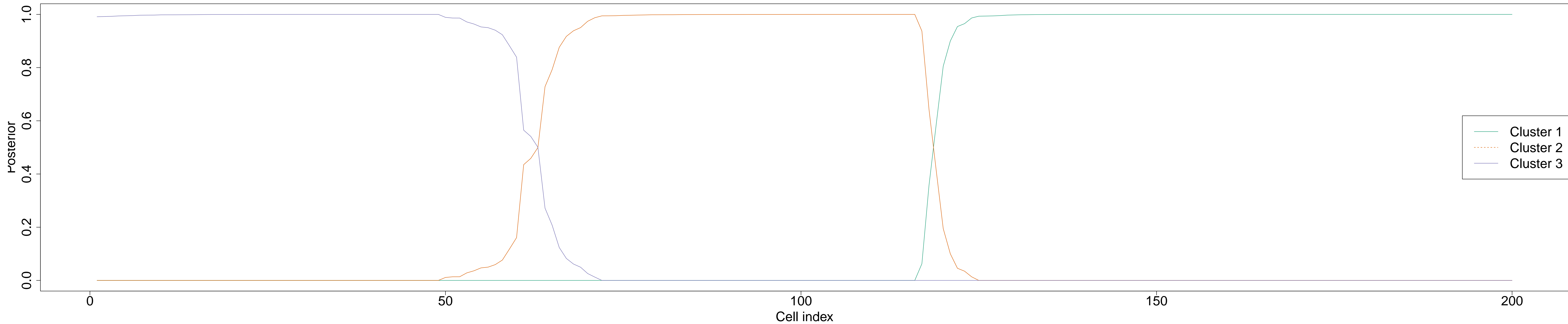


UMAP Trajectory plot

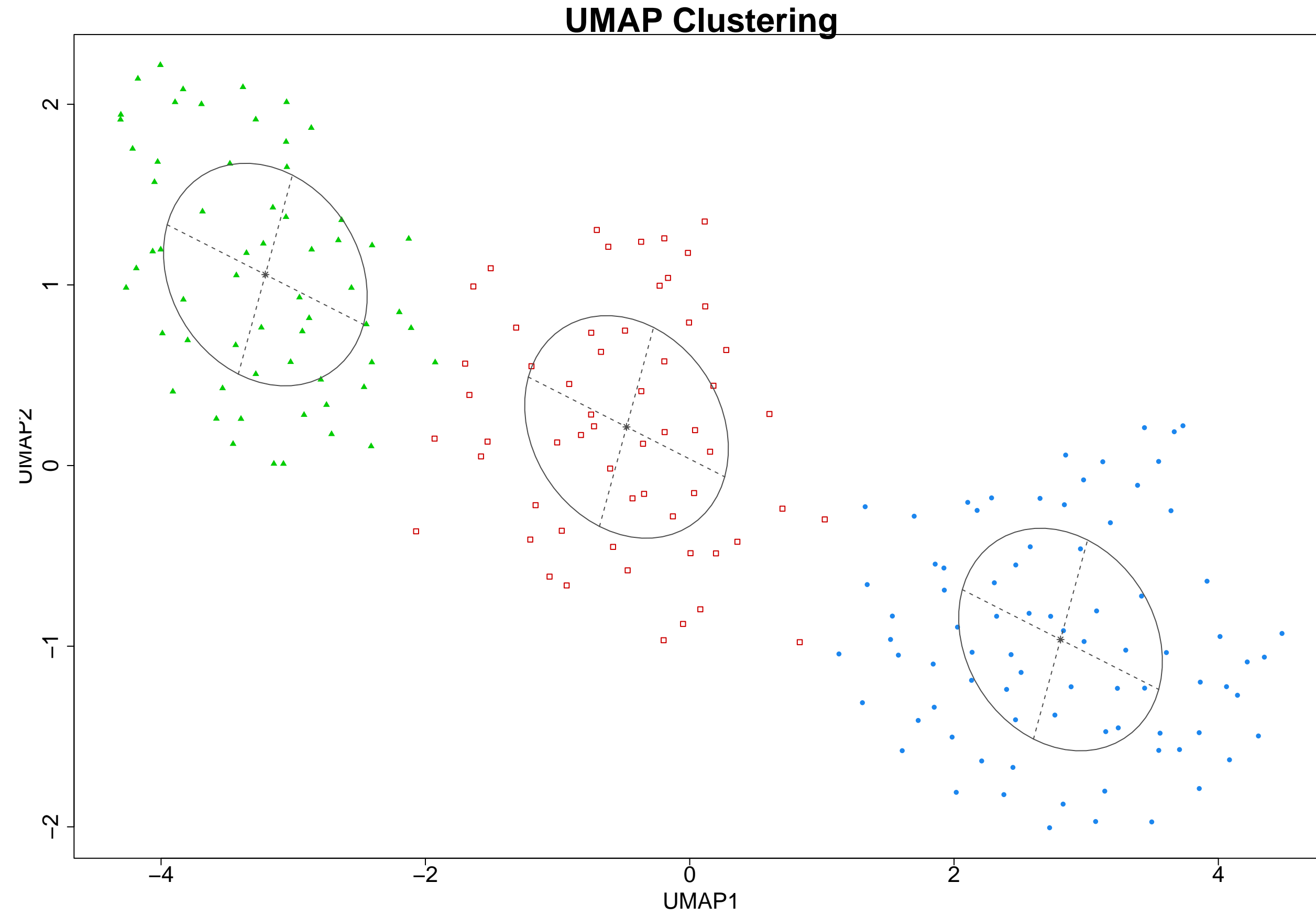
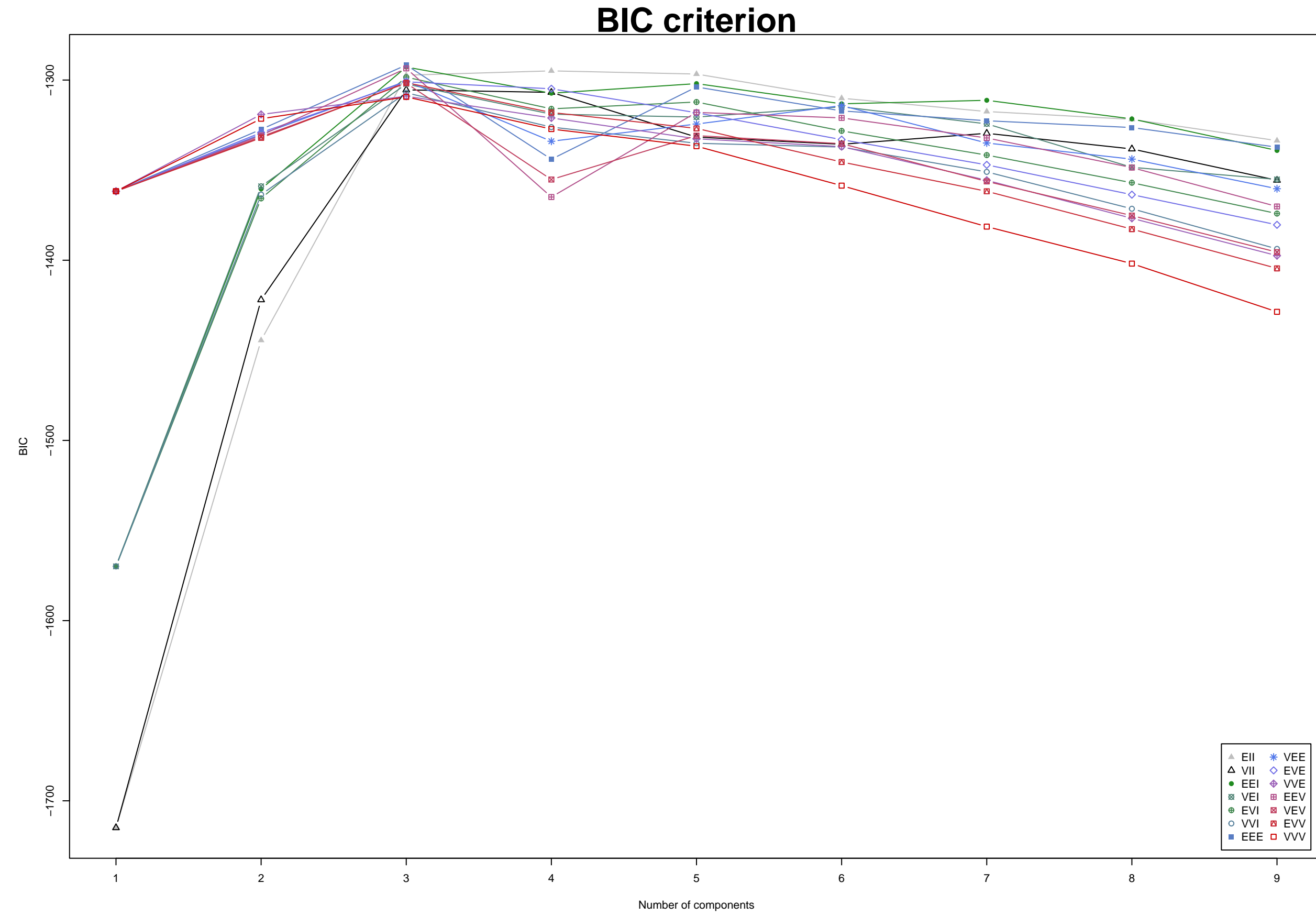
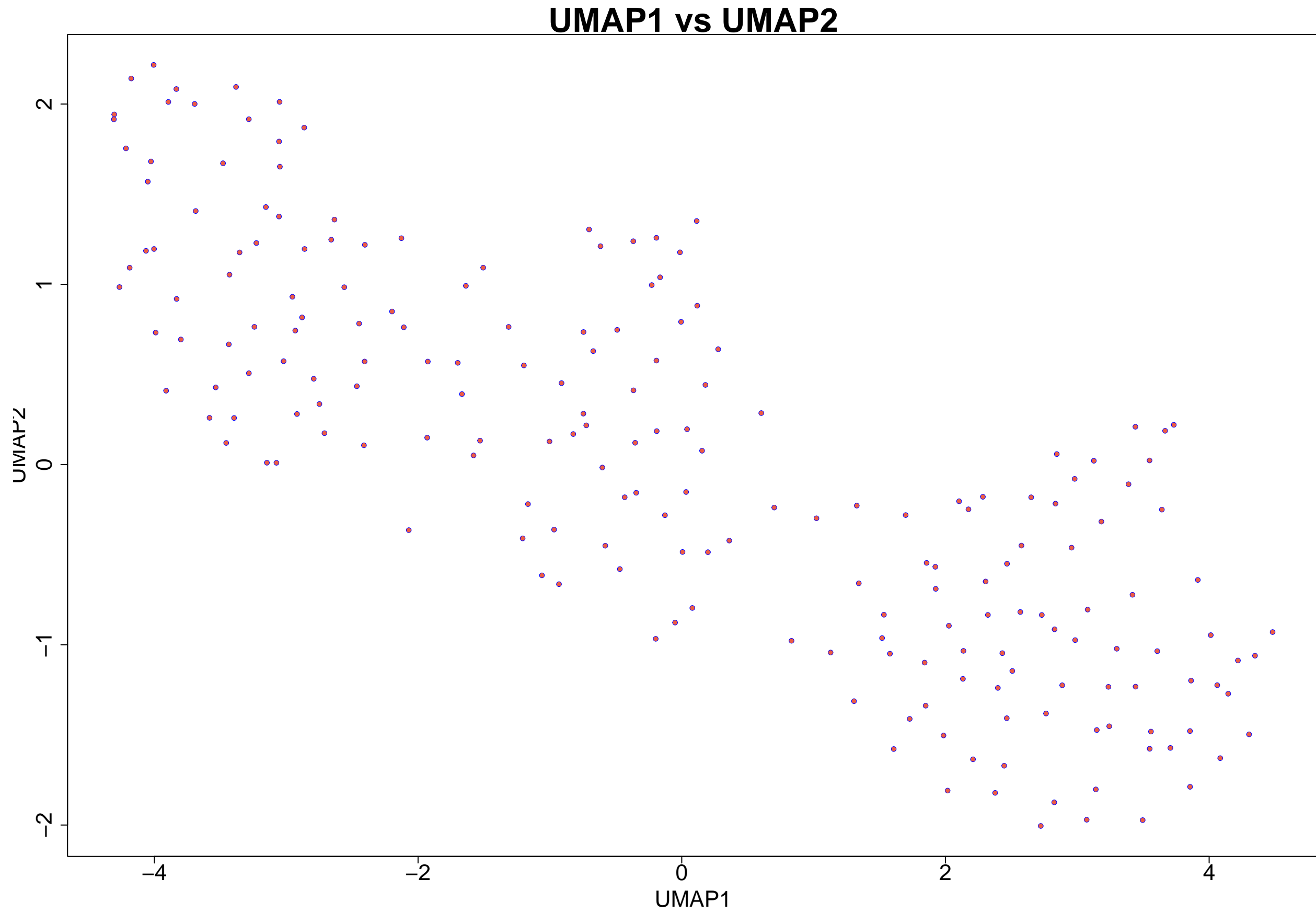




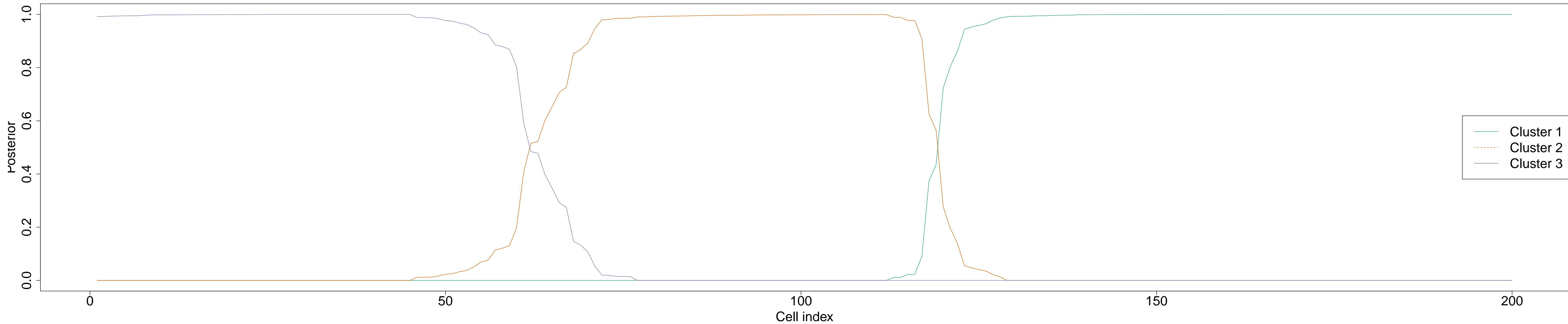
UMAP Trajectory plot



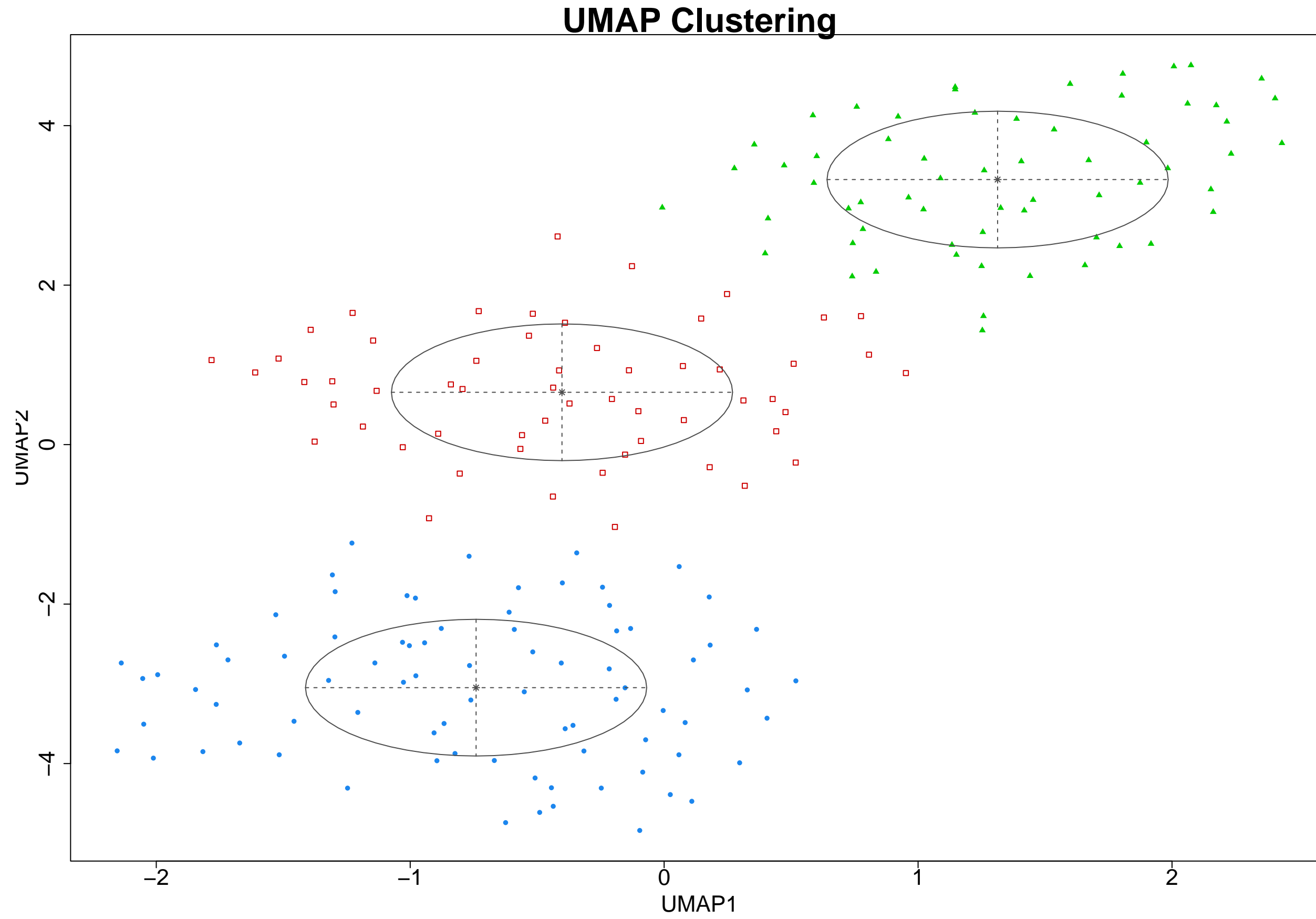
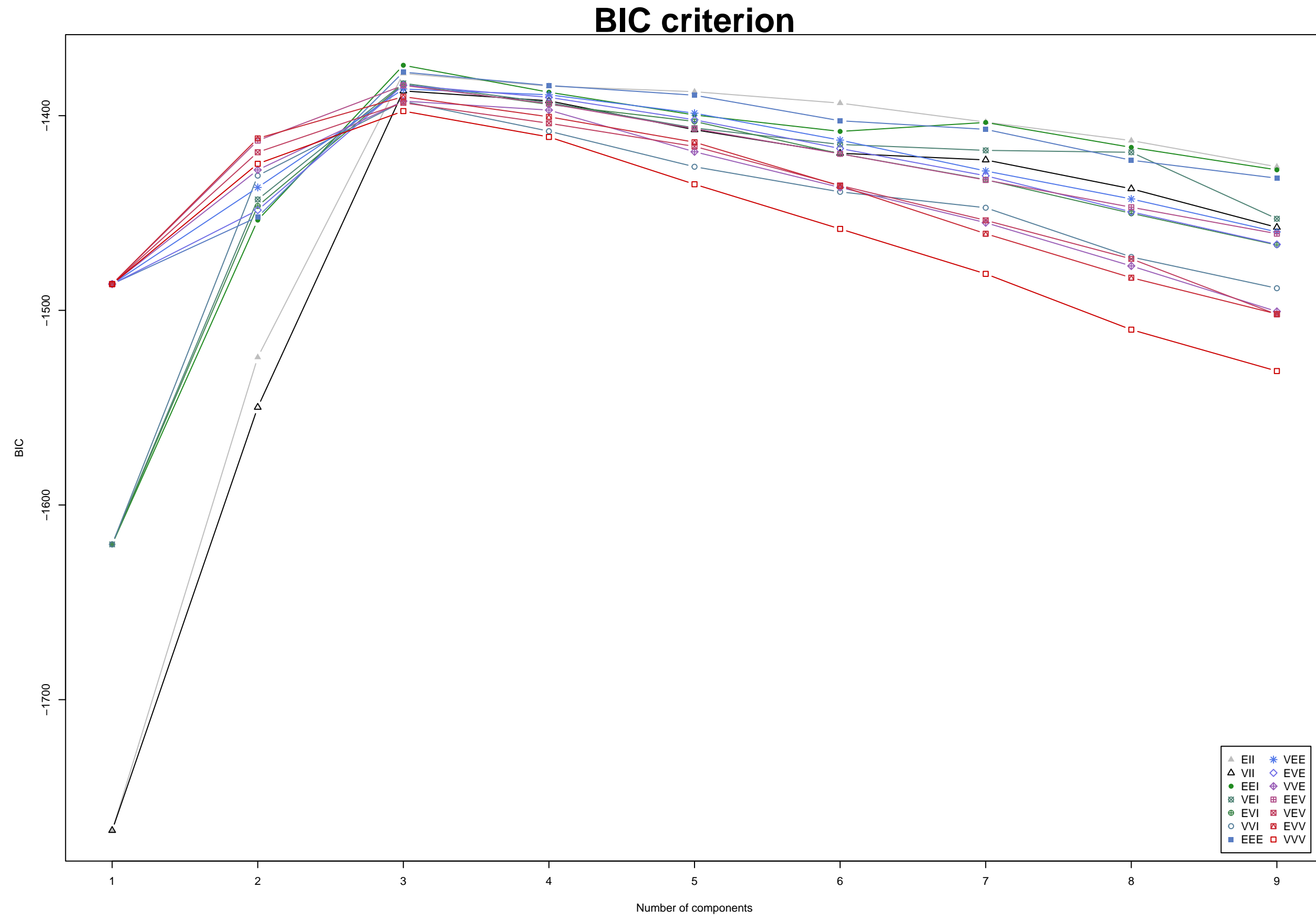
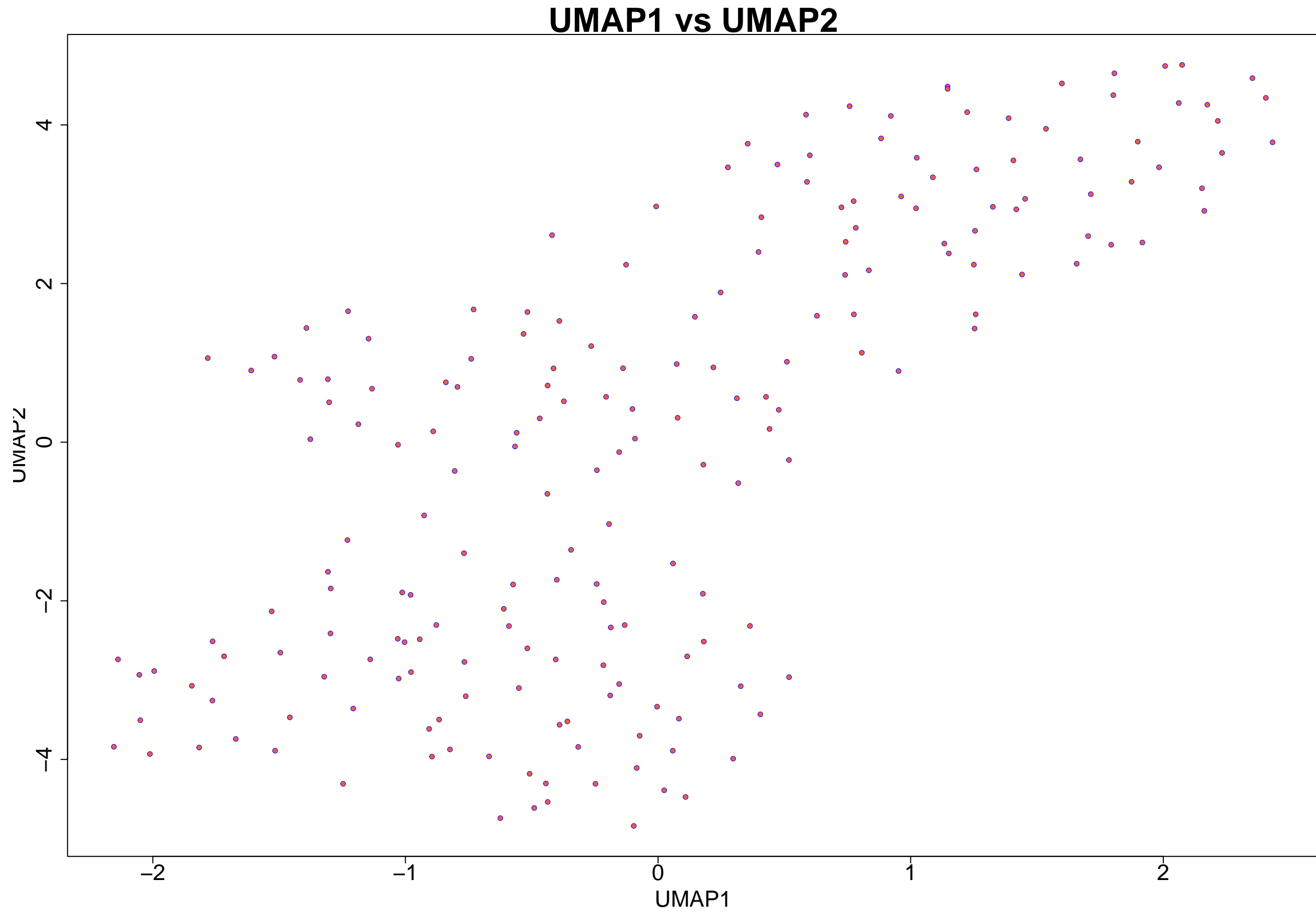
Clustering: UMAP  
n = 15 | dist = 0.2



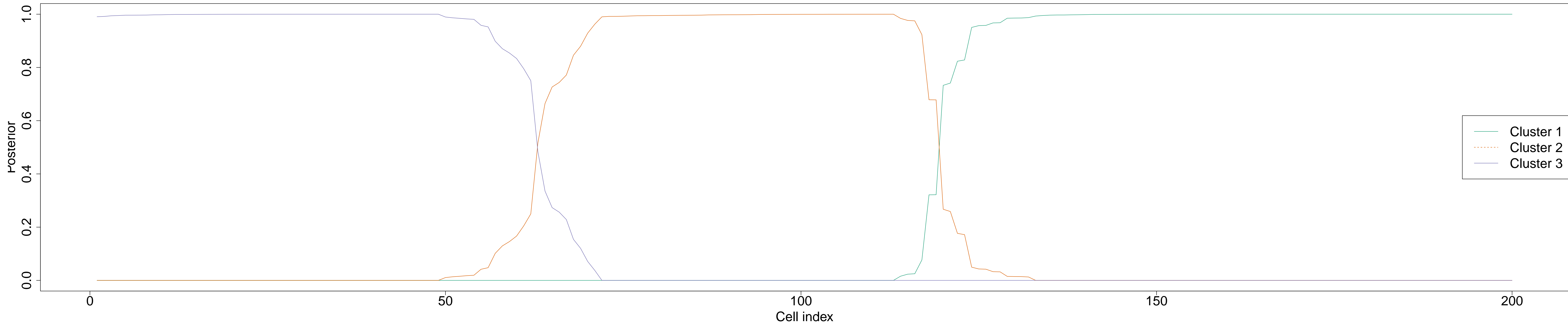
UMAP Trajectory plot



Clustering: UMAP  
n = 15 | dist = 0.3

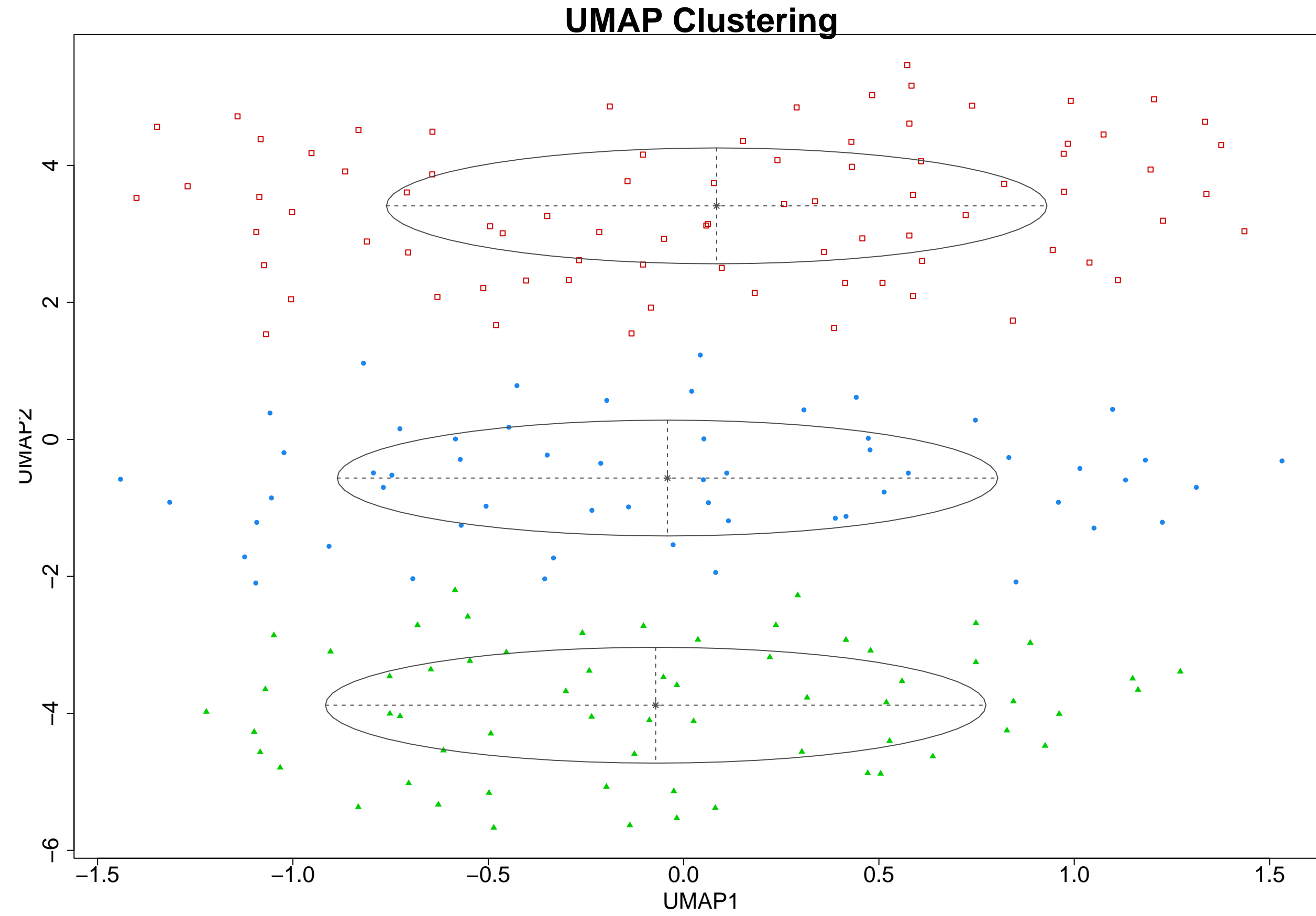
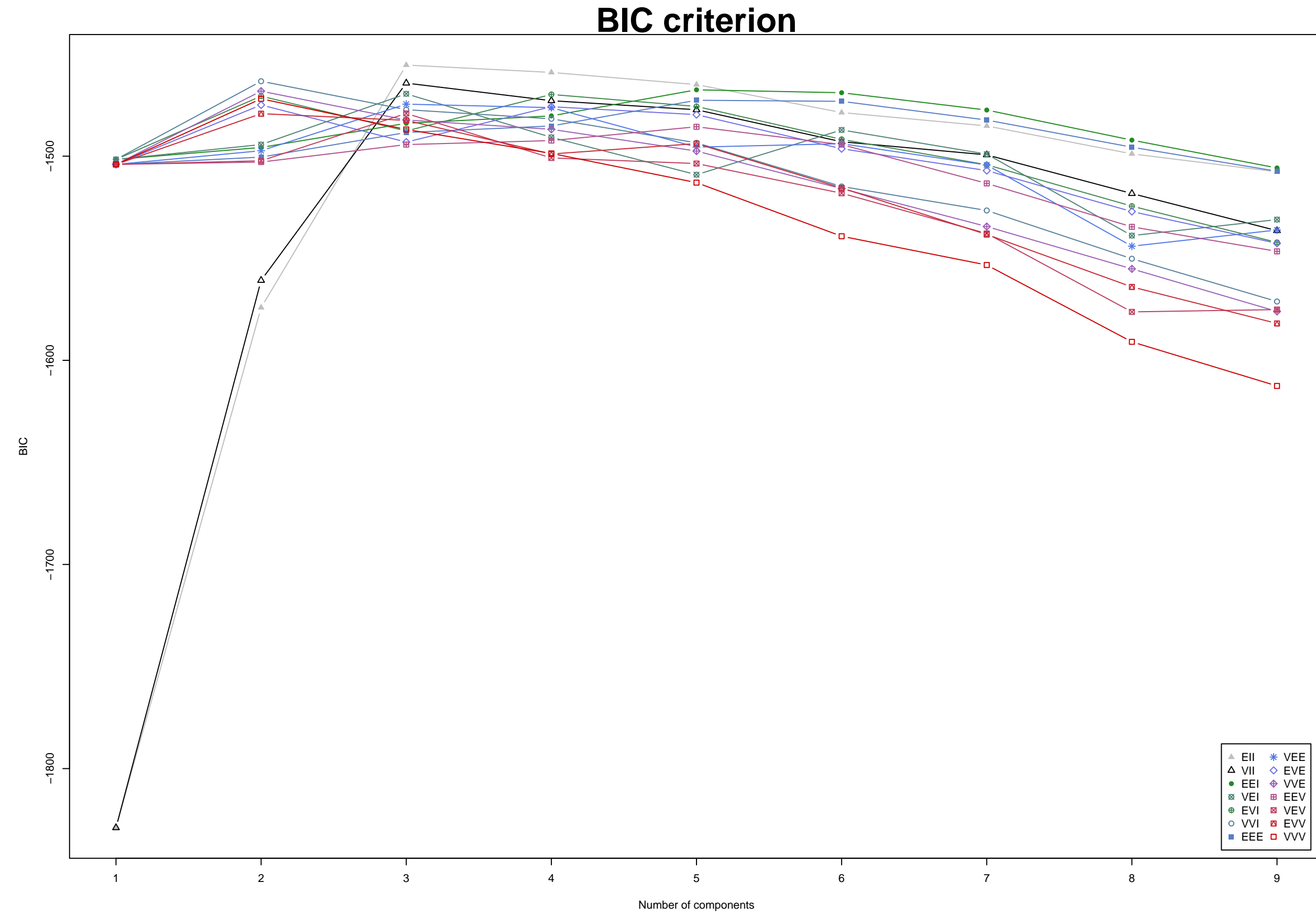
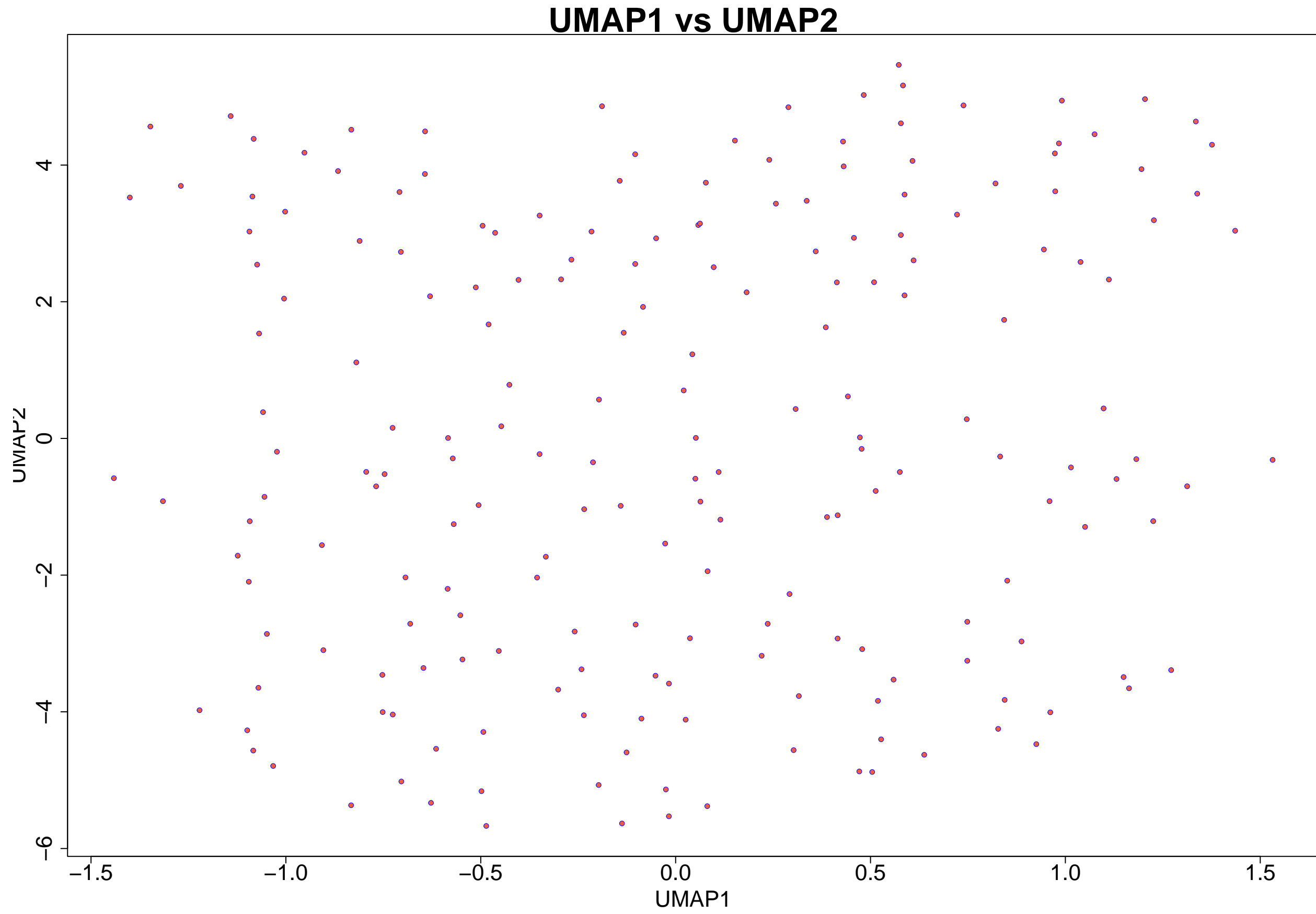


# UMAP Trajectory plot

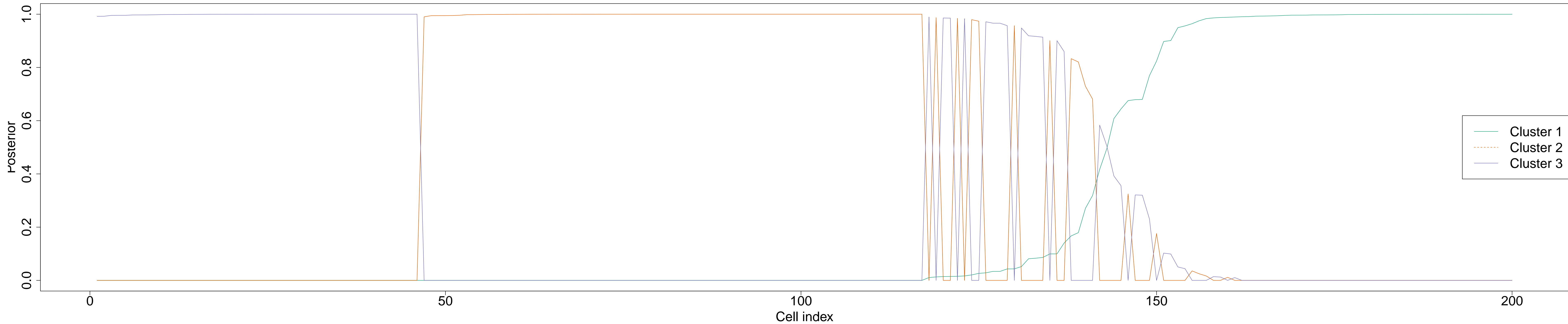


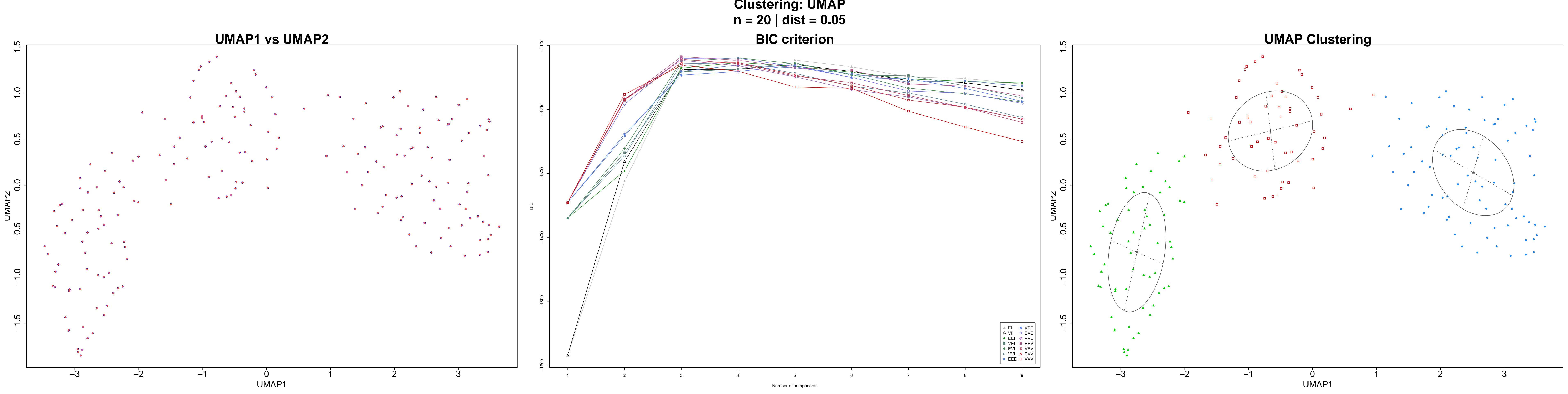


Clustering: UMAP  
n = 15 | dist = 0.4

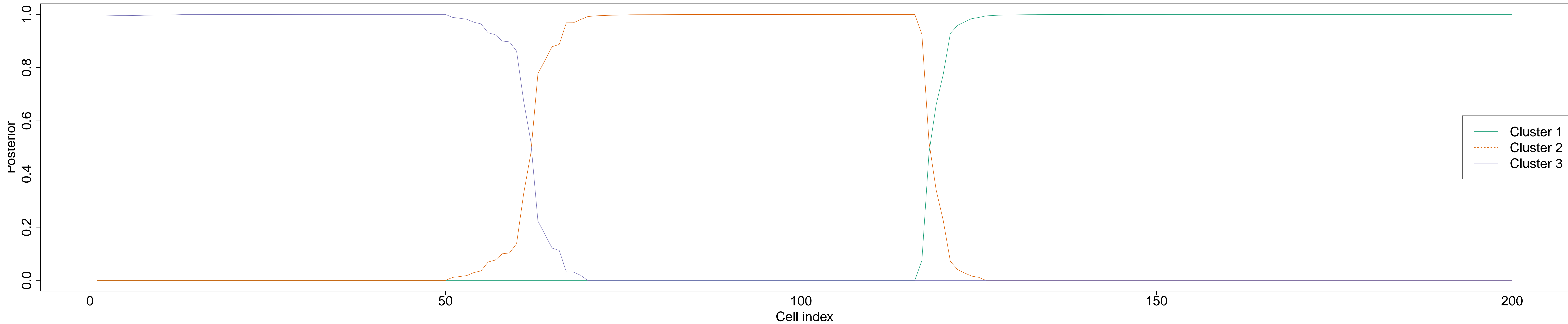


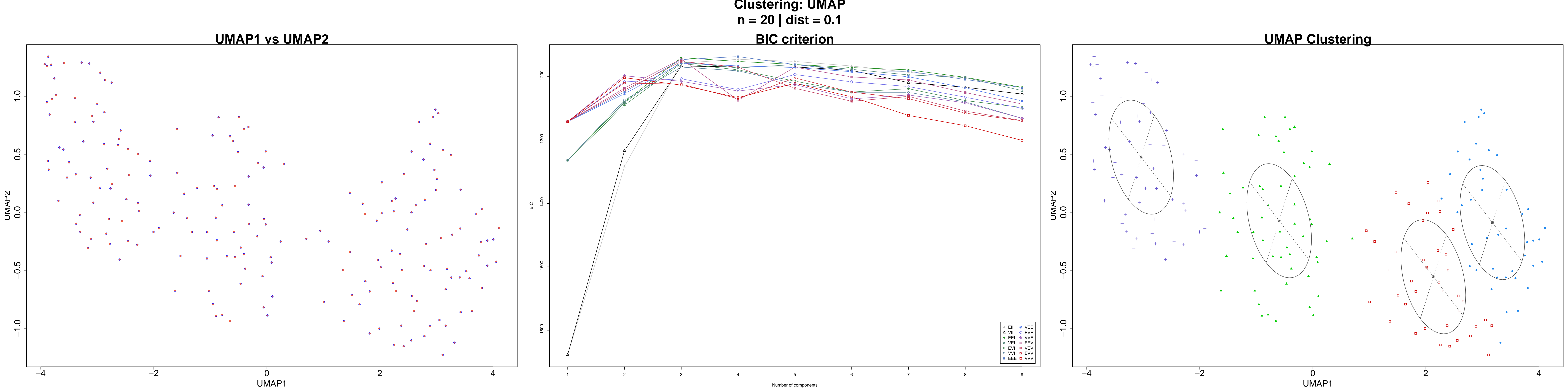
# UMAP Trajectory plot



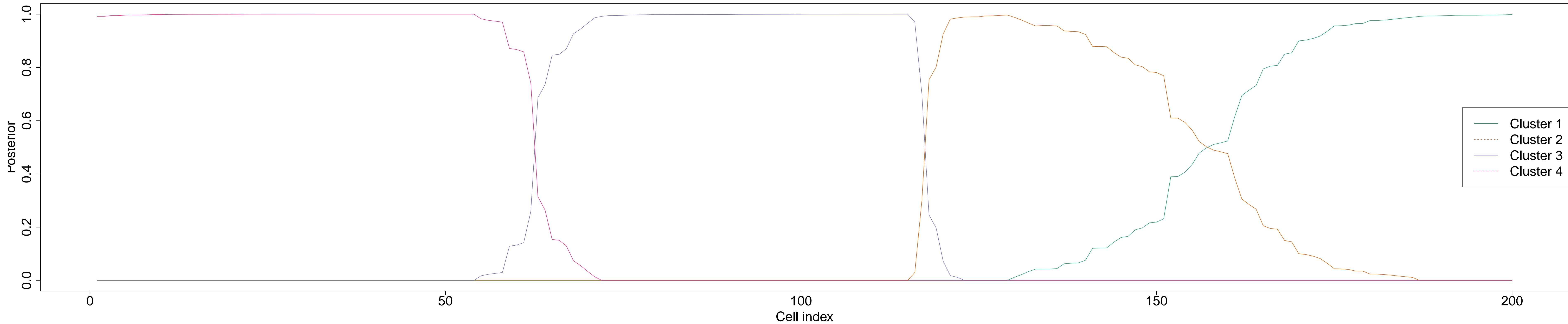


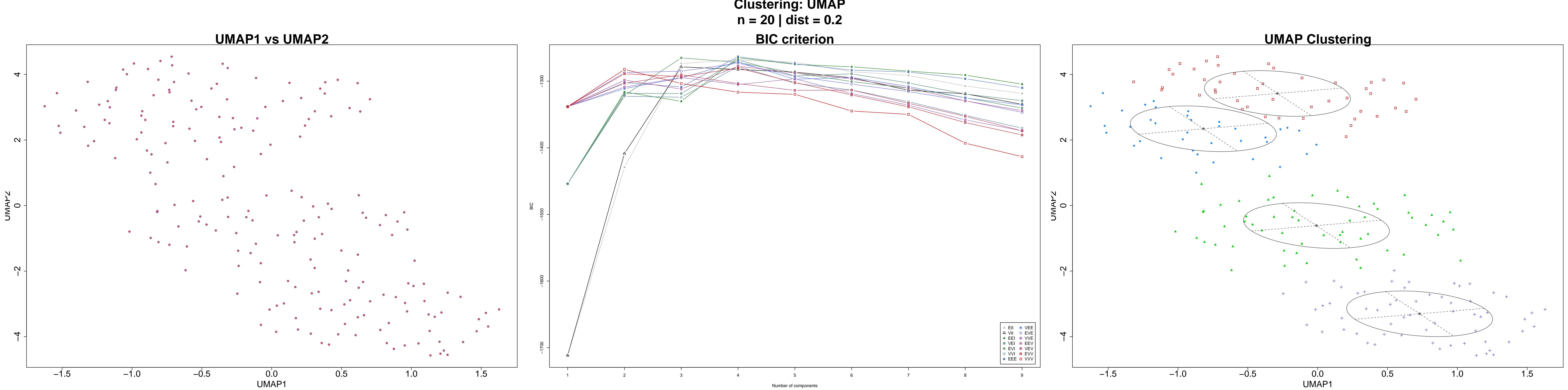
UMAP Trajectory plot



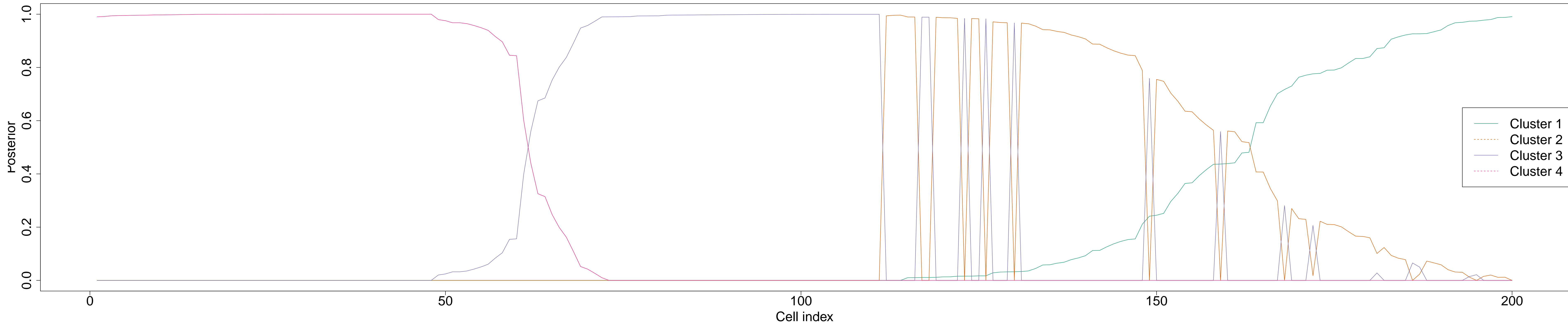


# UMAP Trajectory plot



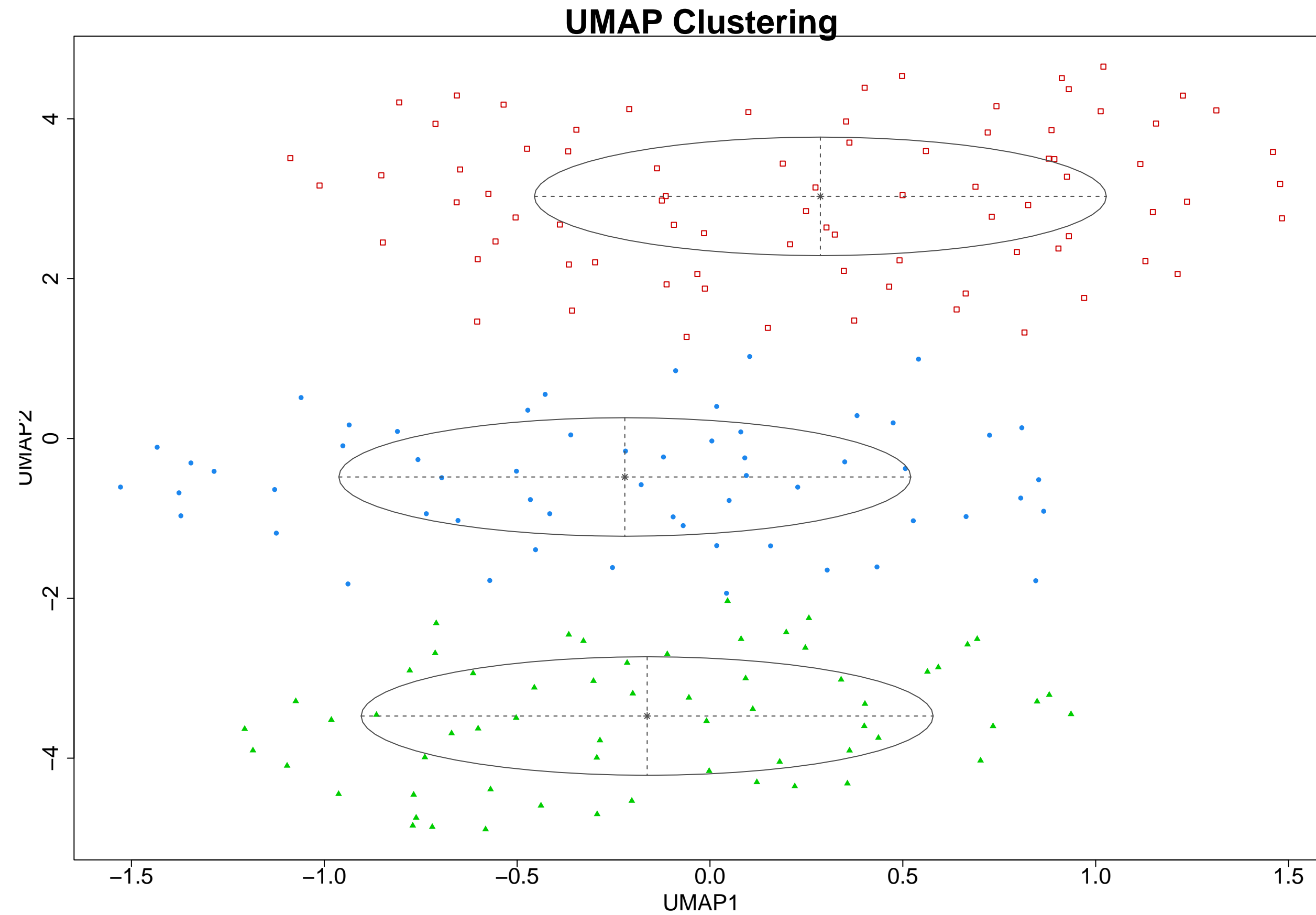
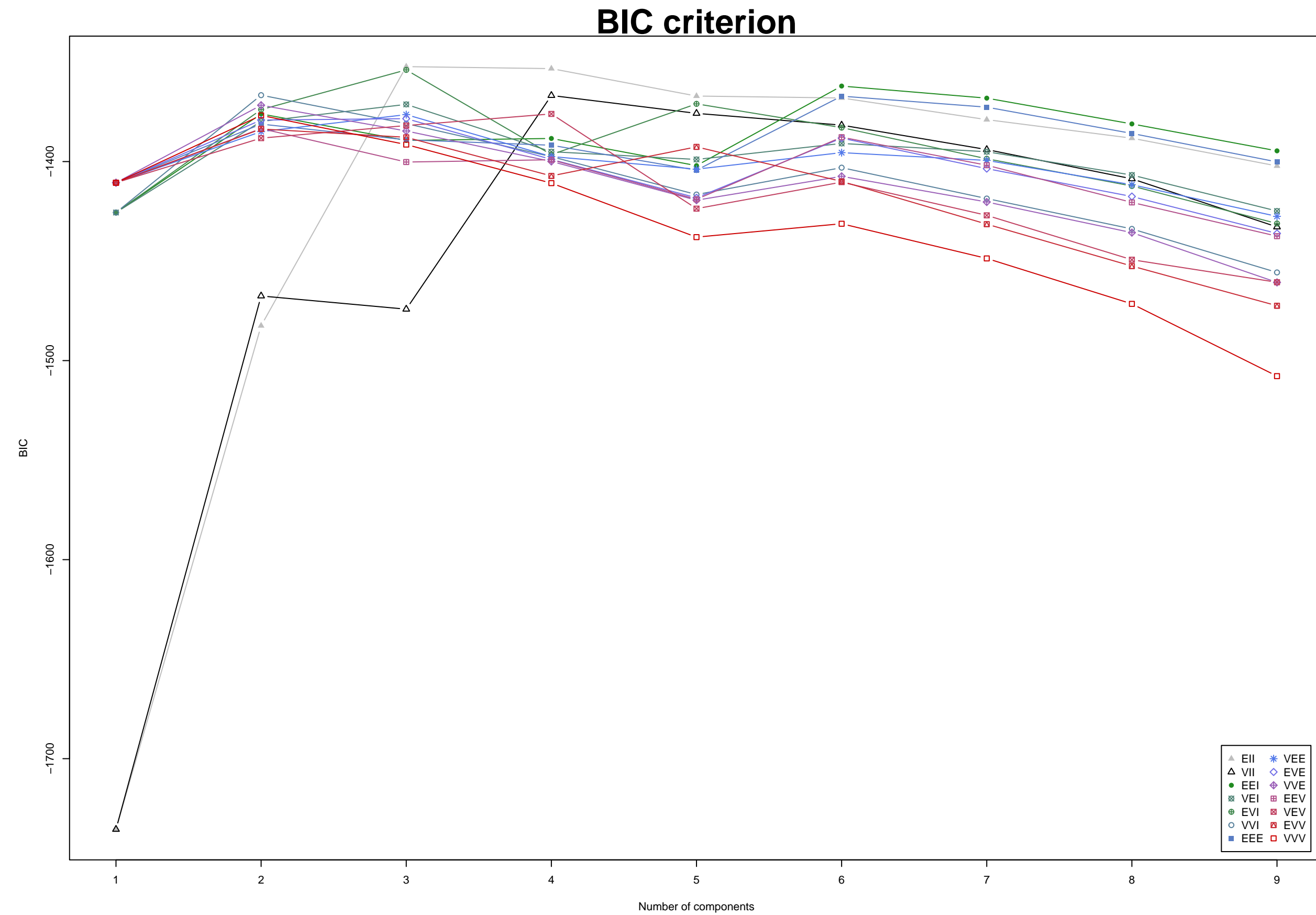
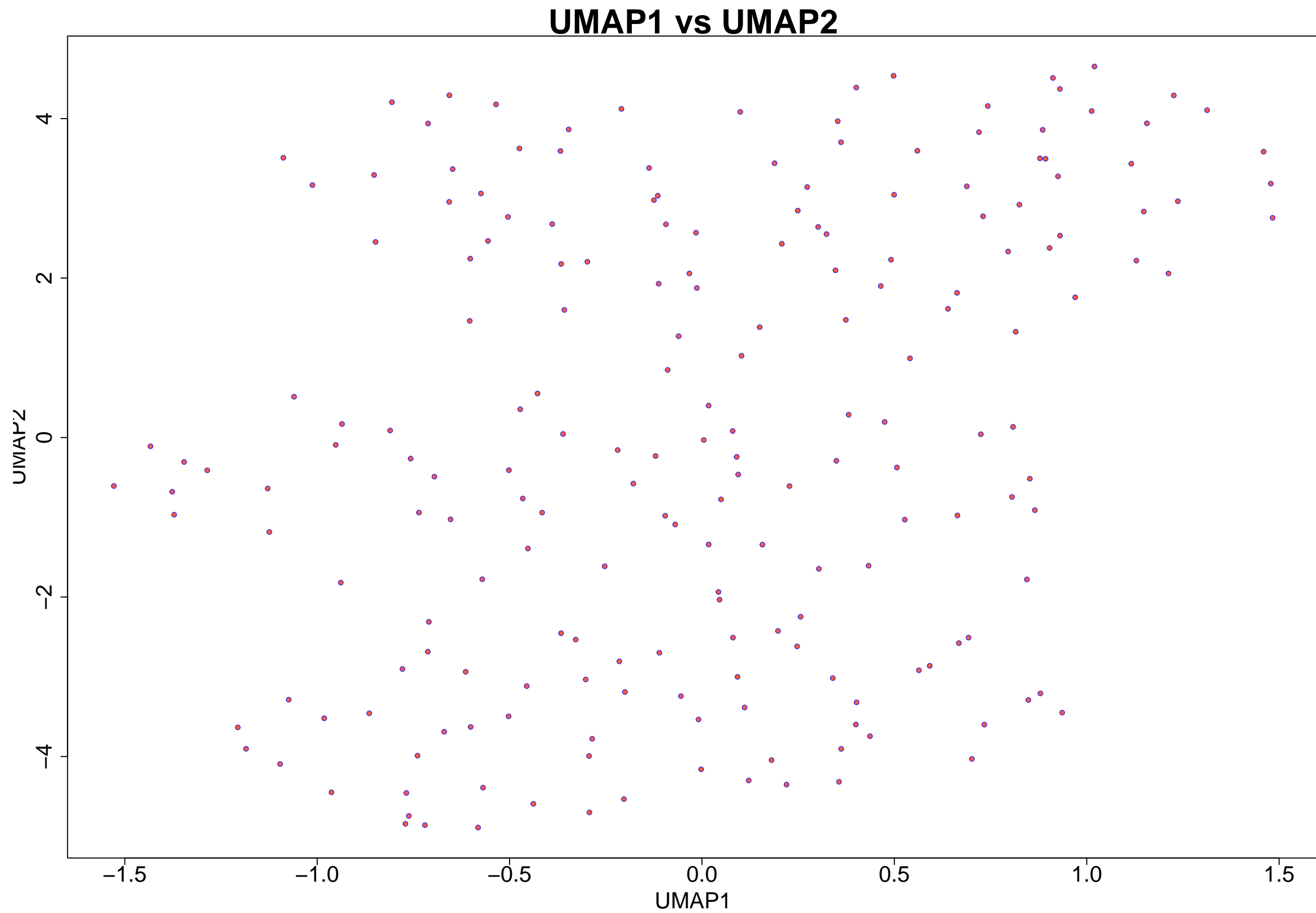


# UMAP Trajectory plot

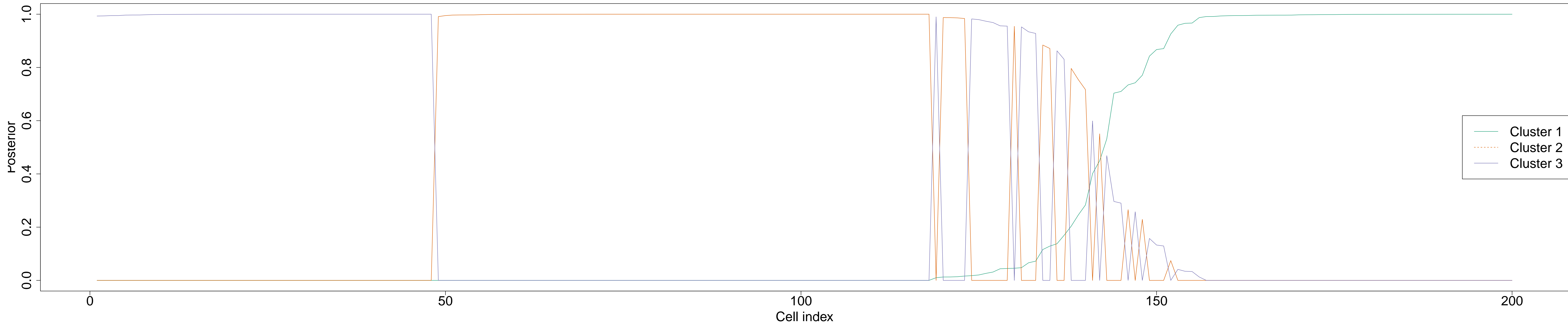




Clustering: UMAP  
n = 20 | dist = 0.3

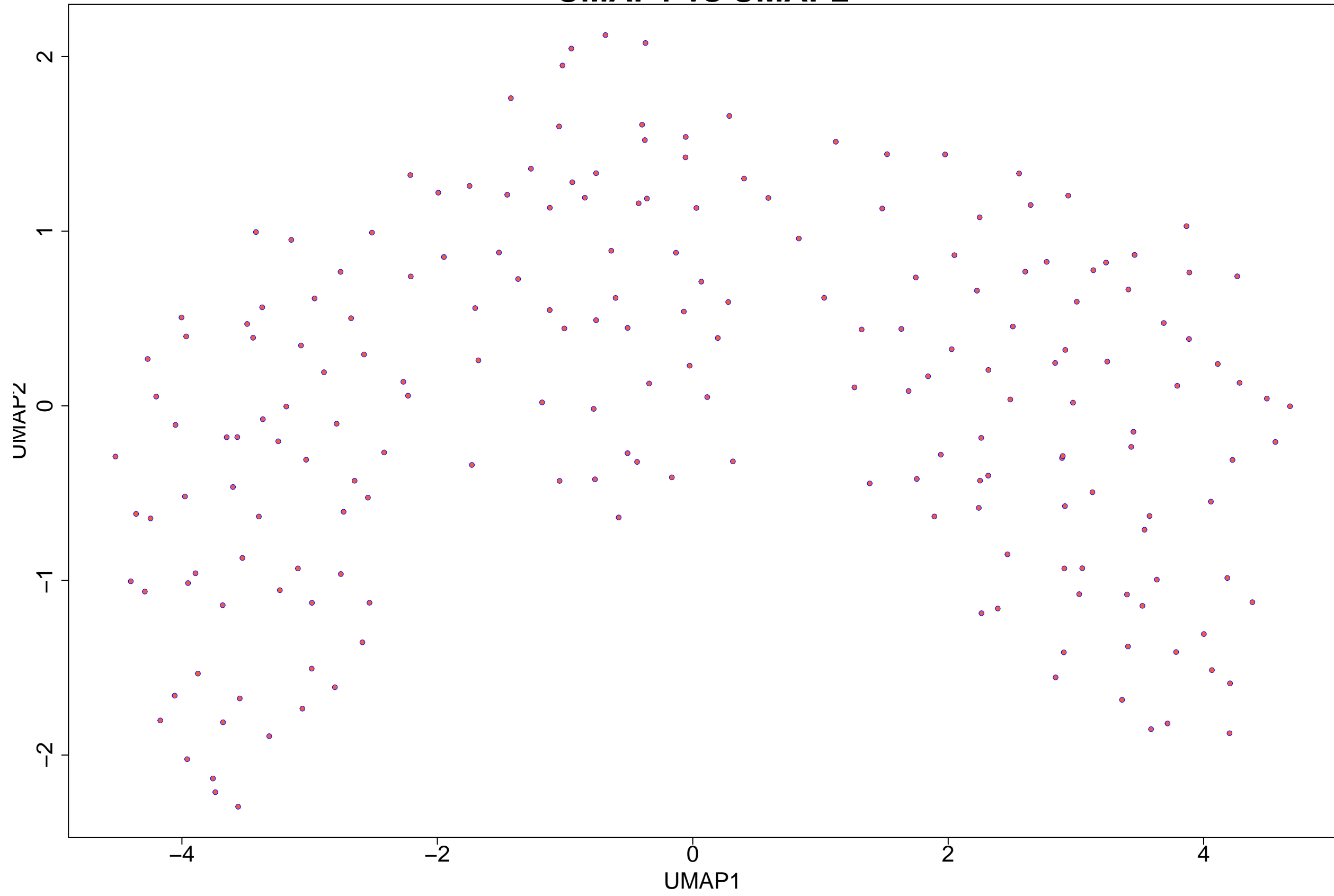


# UMAP Trajectory plot

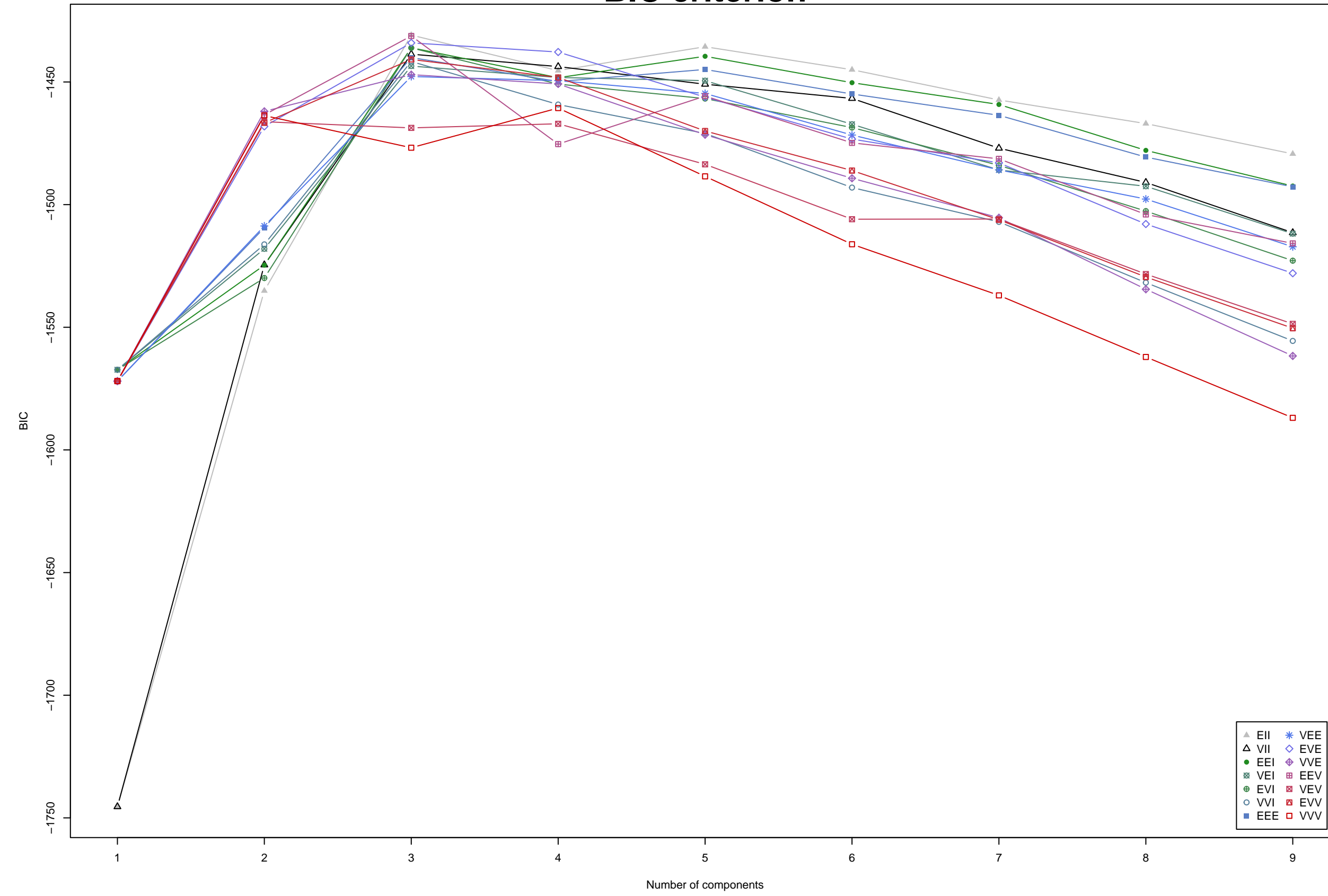


Clustering: UMAP  
n = 20 | dist = 0.4

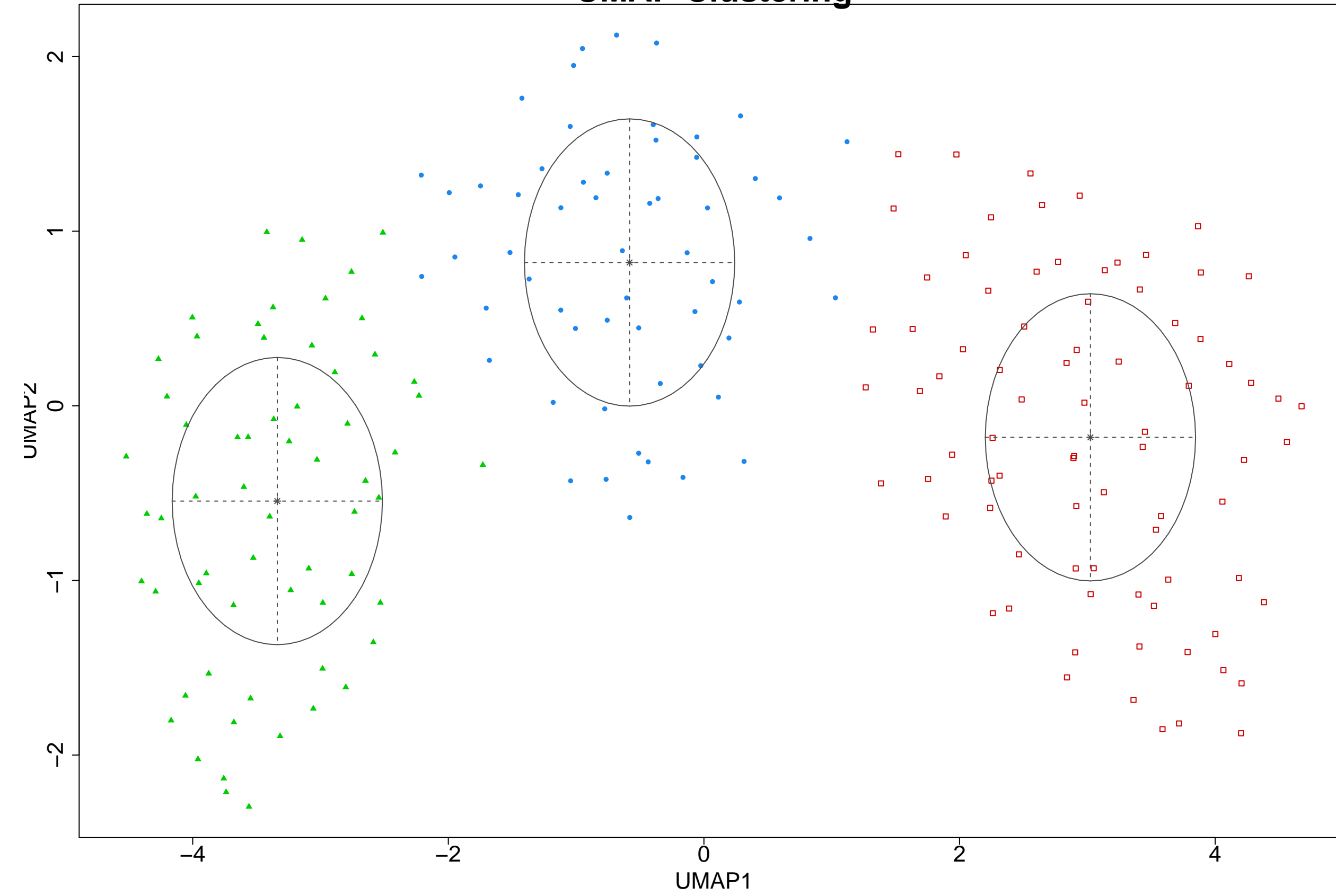
UMAP1 vs UMAP2



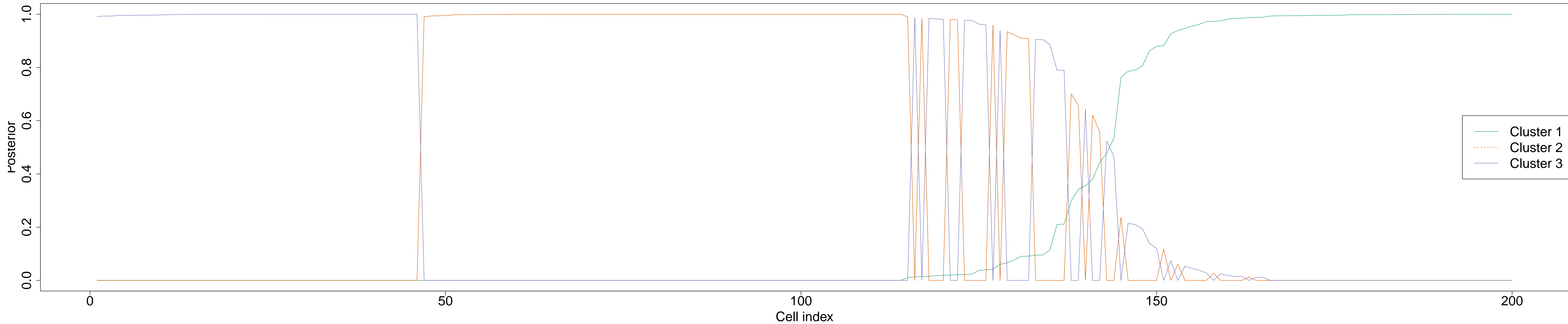
BIC criterion

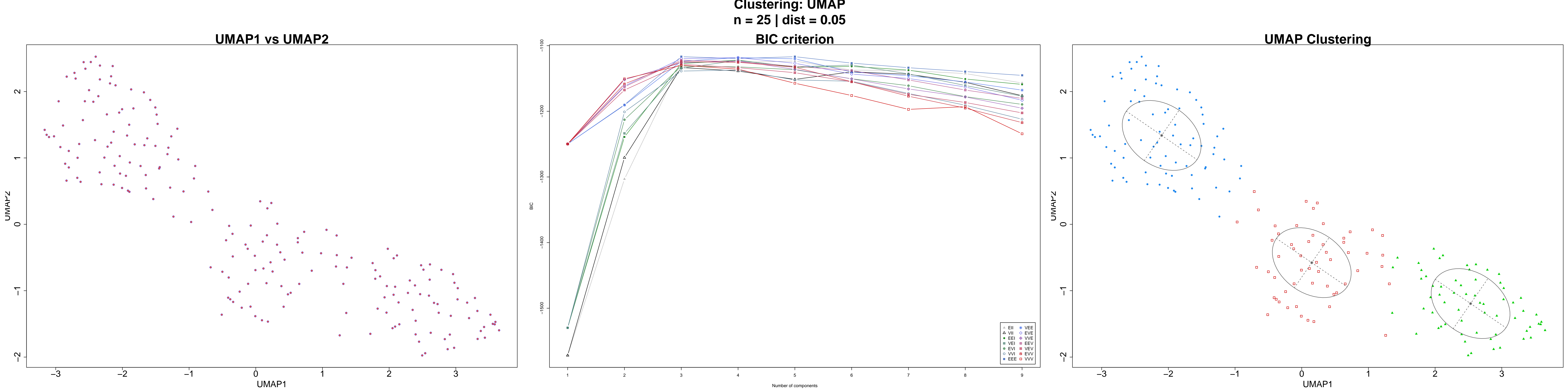


UMAP Clustering

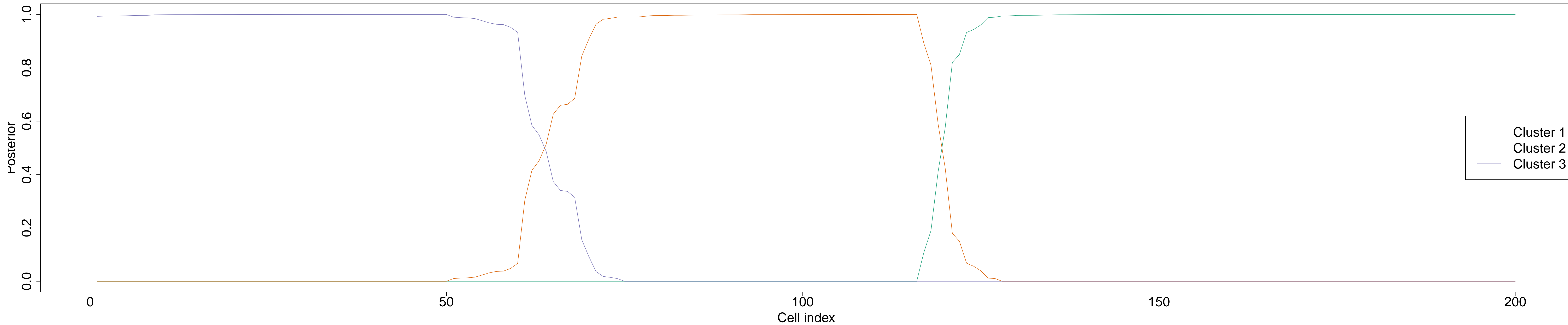


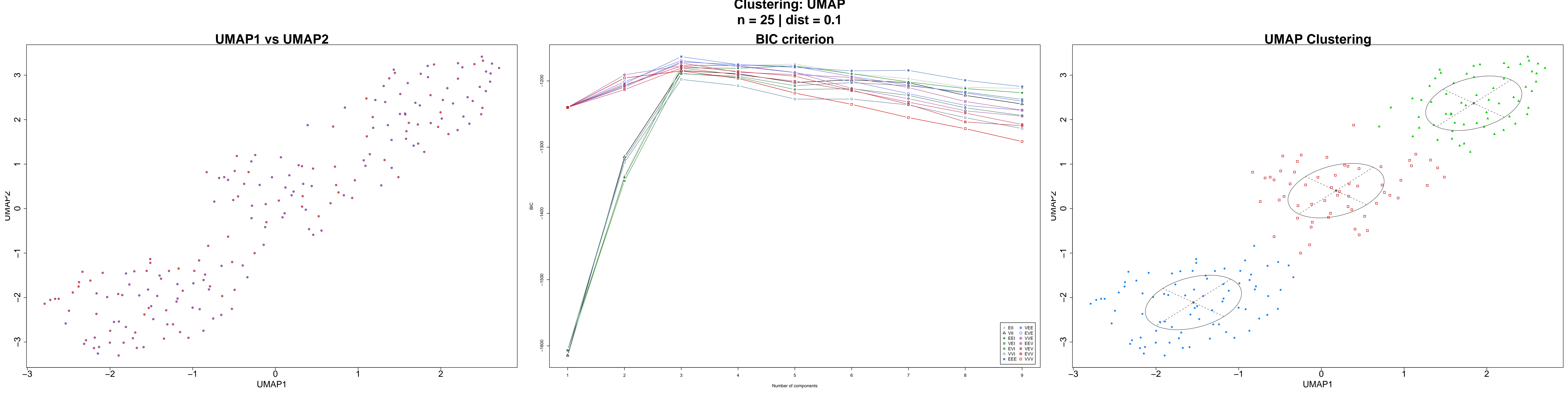
# UMAP Trajectory plot



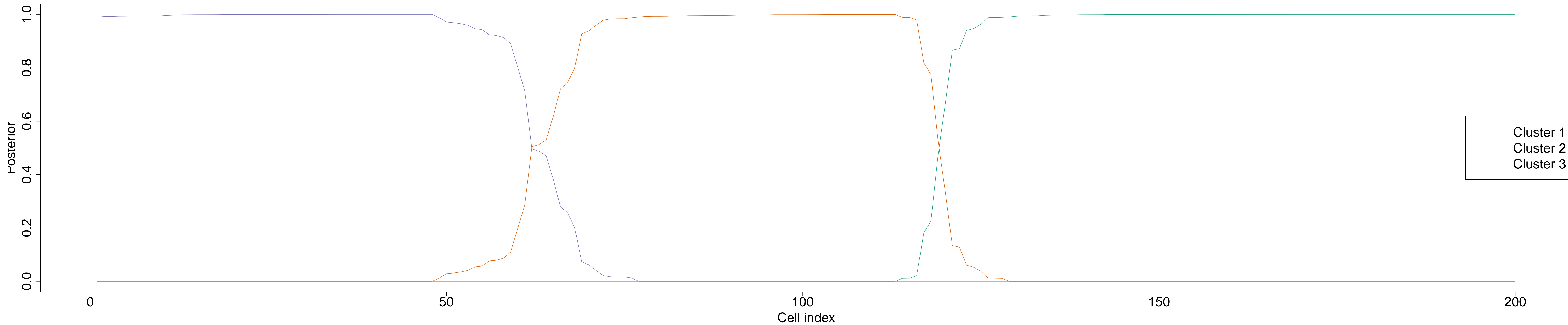


UMAP Trajectory plot



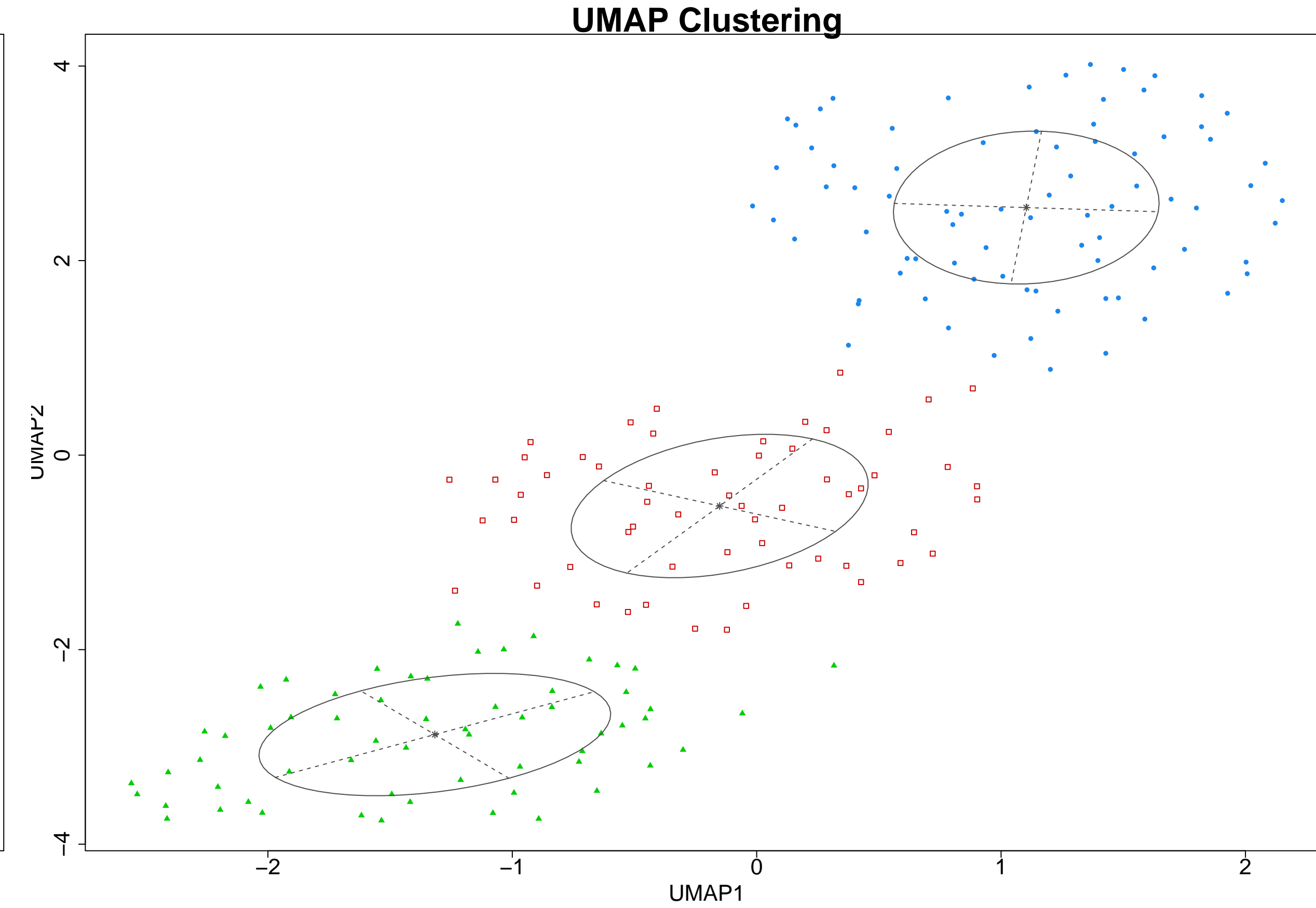
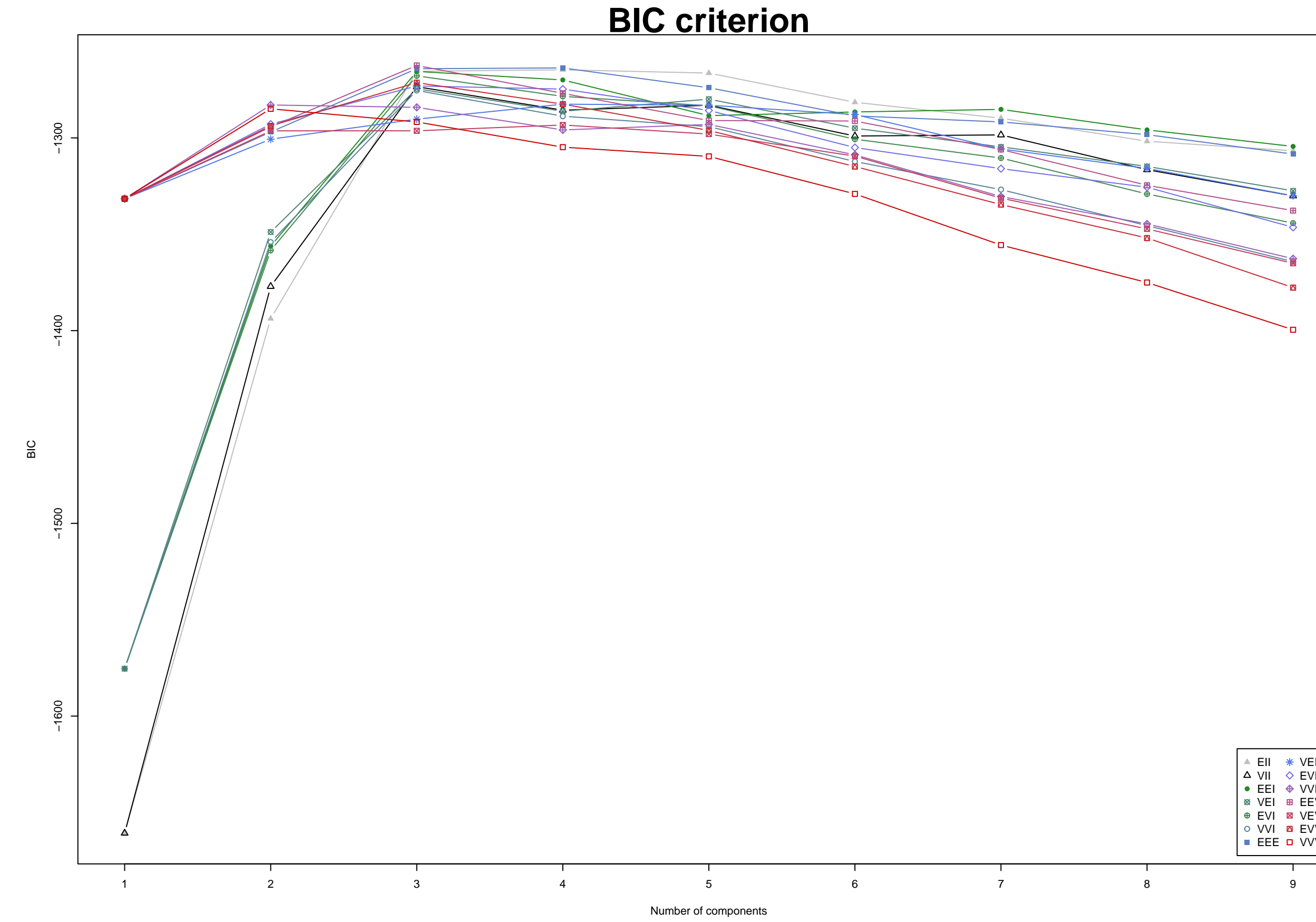
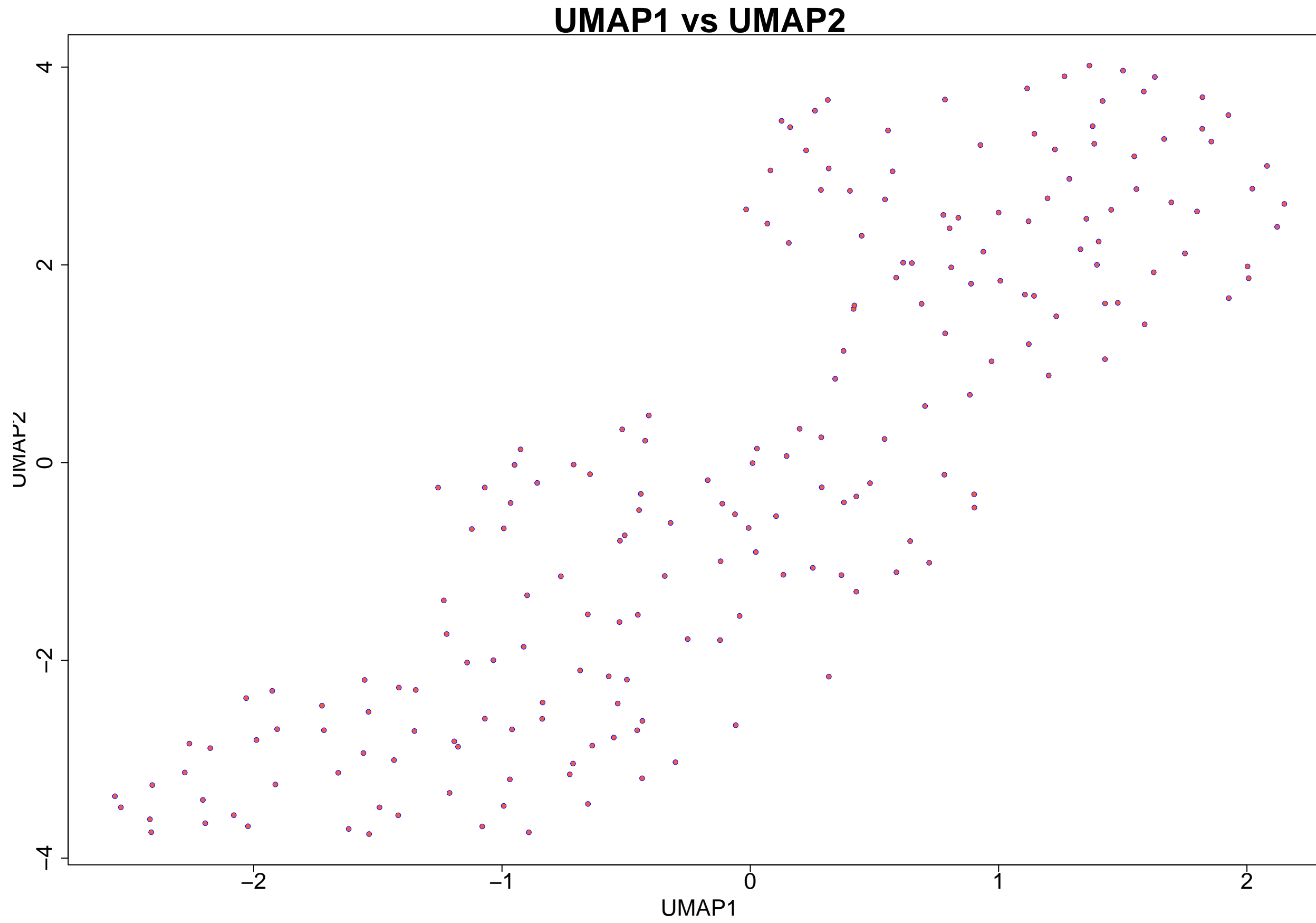


UMAP Trajectory plot

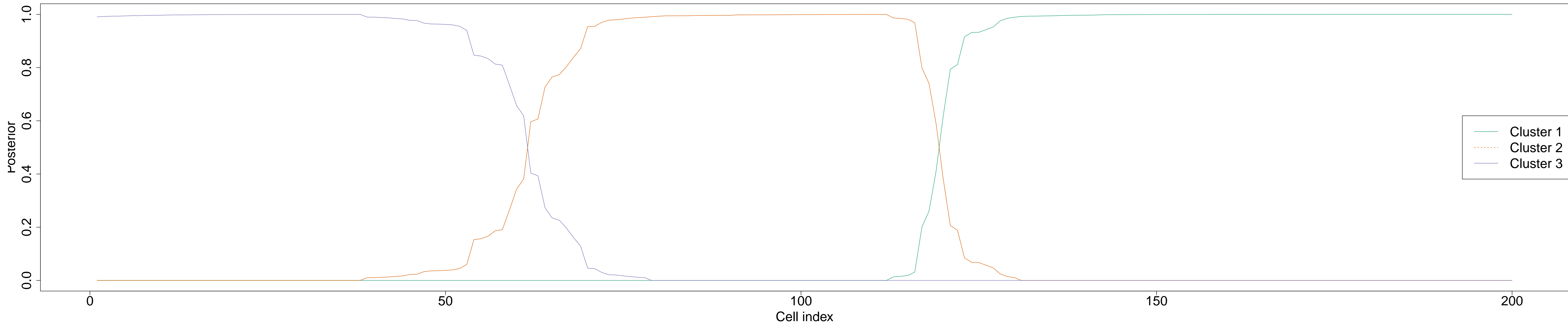


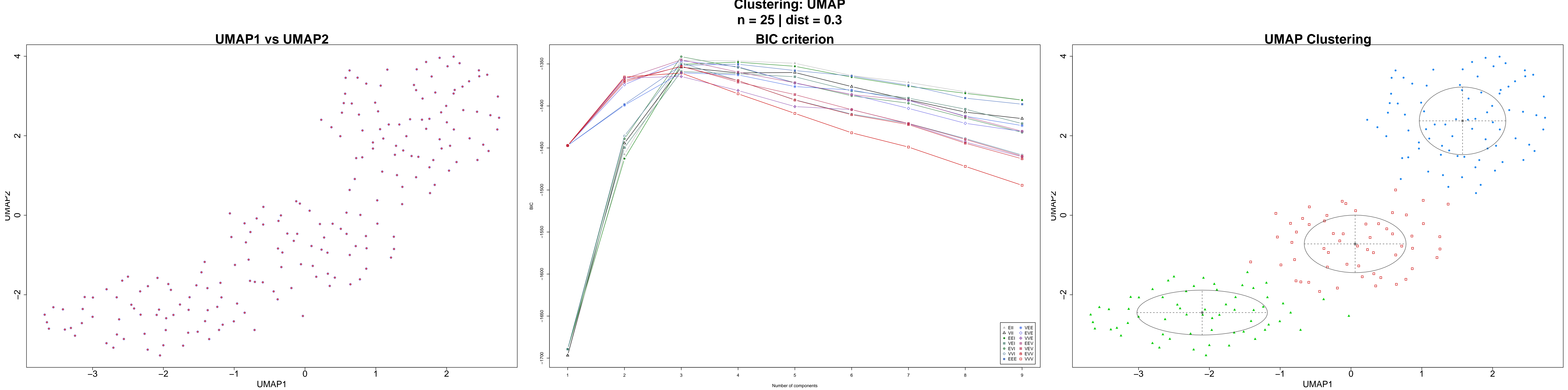


Clustering: UMAP  
n = 25 | dist = 0.2

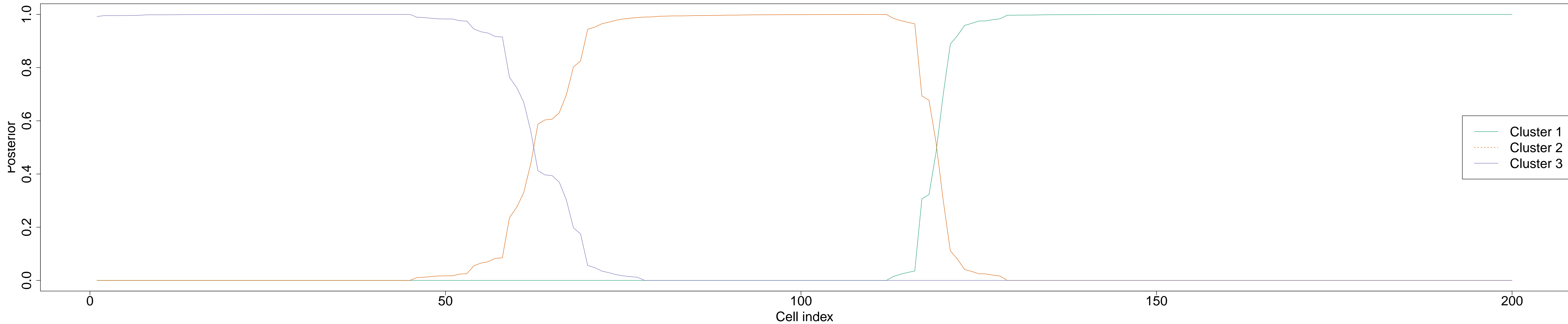


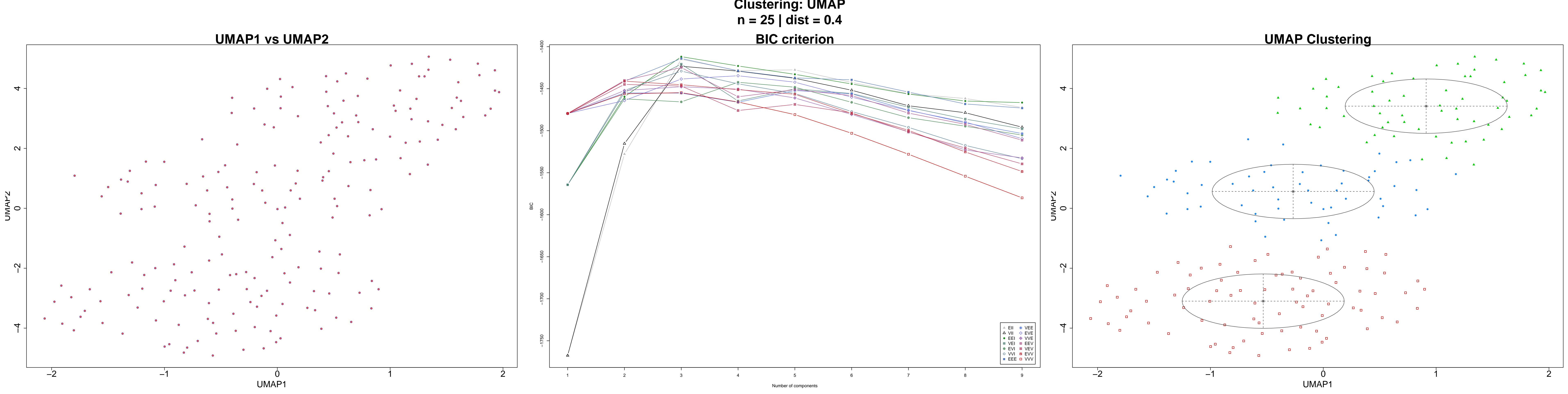
UMAP Trajectory plot



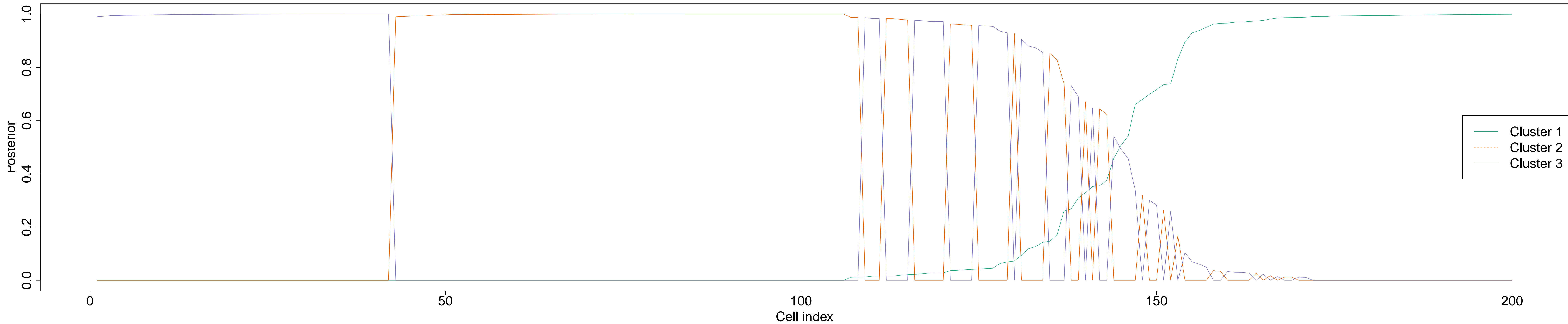


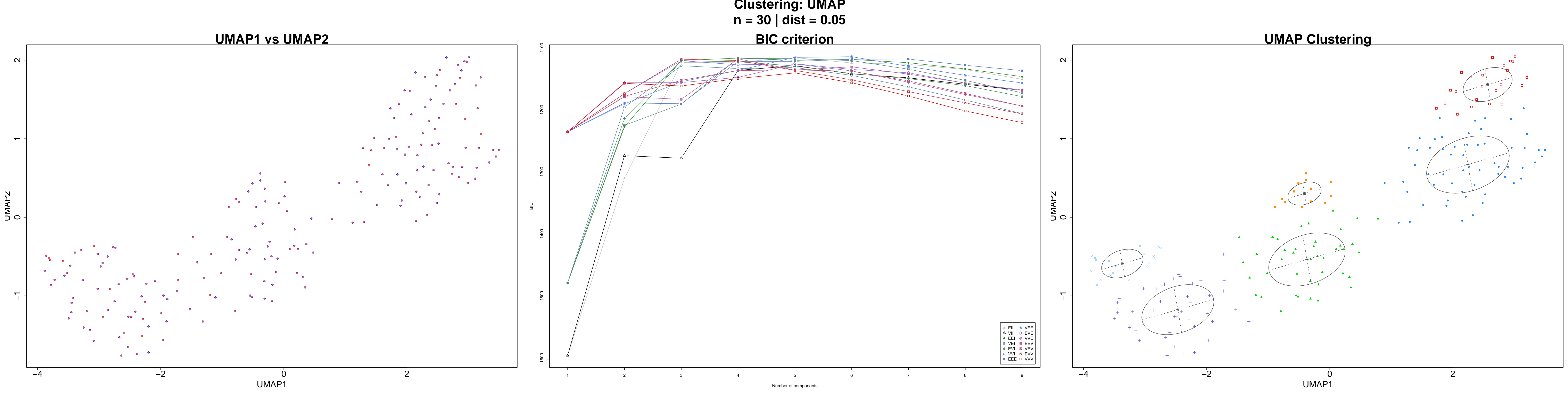
UMAP Trajectory plot



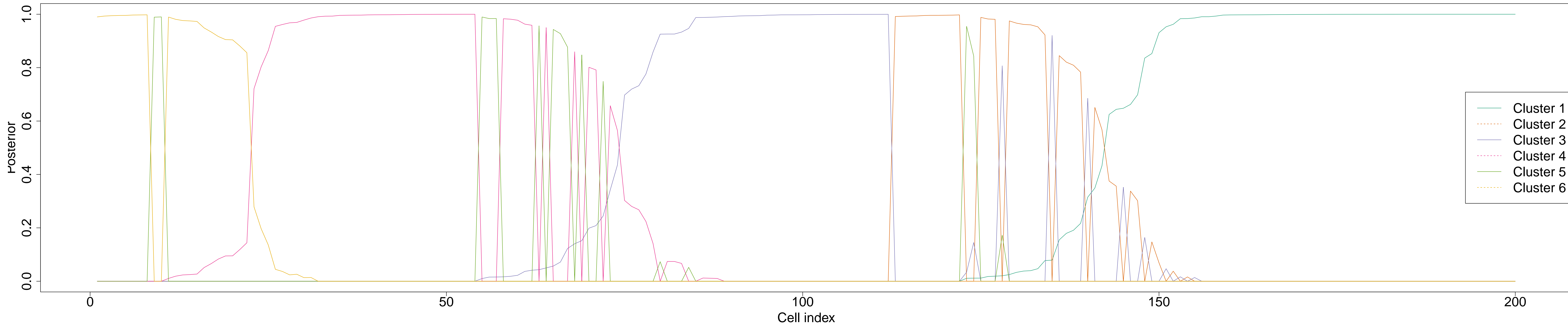


# UMAP Trajectory plot





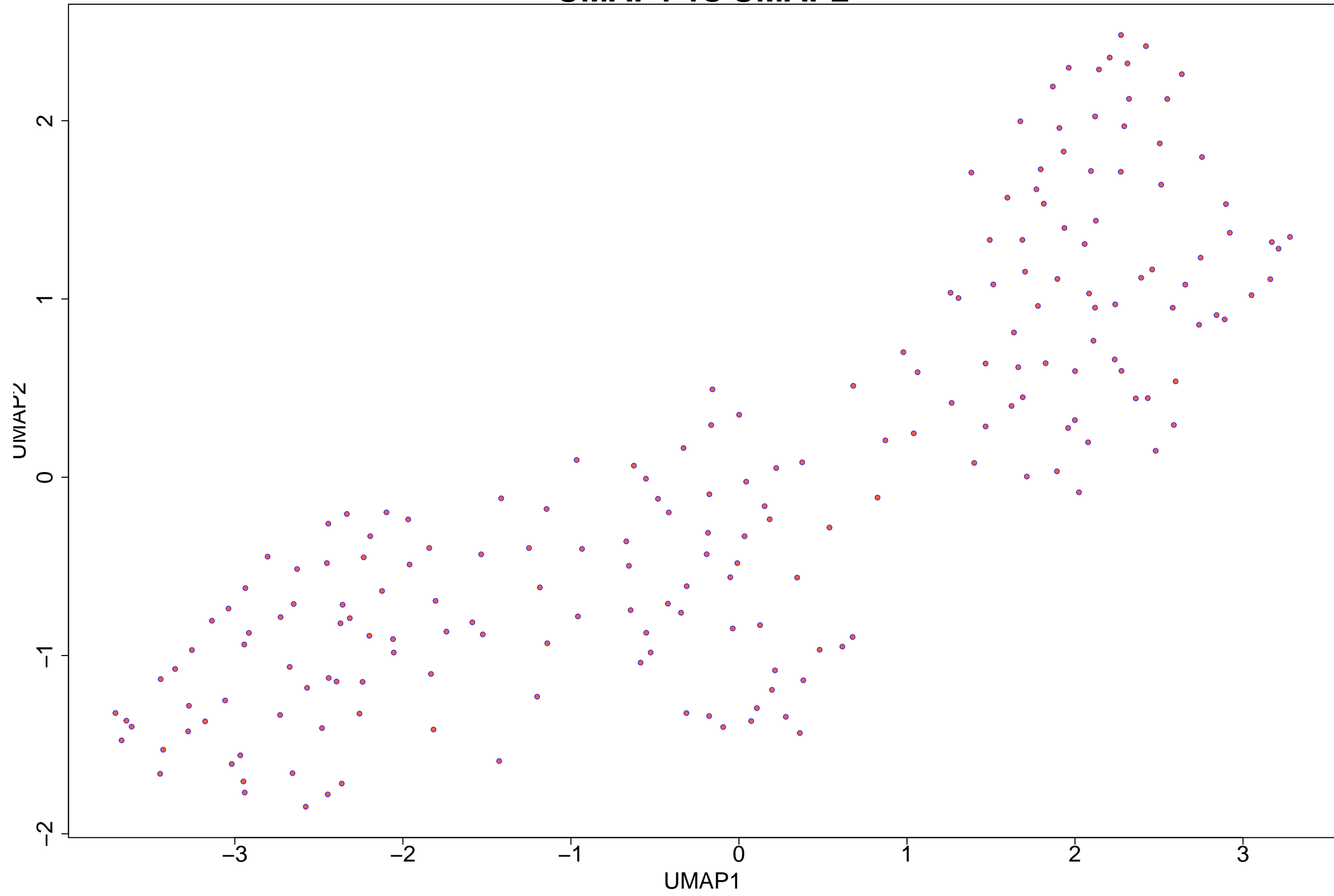
UMAP Trajectory plot



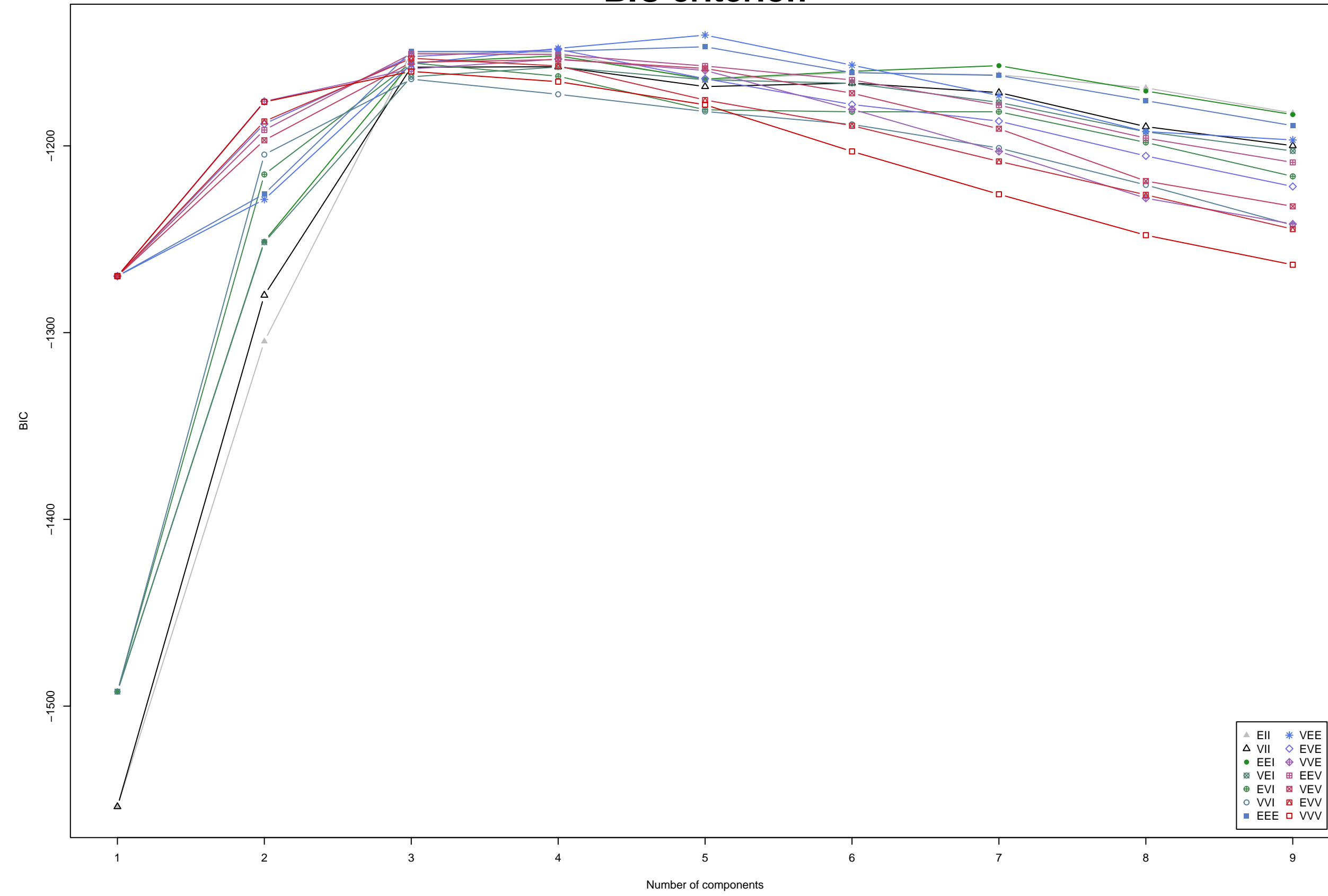


Clustering: UMAP  
n = 30 | dist = 0.1

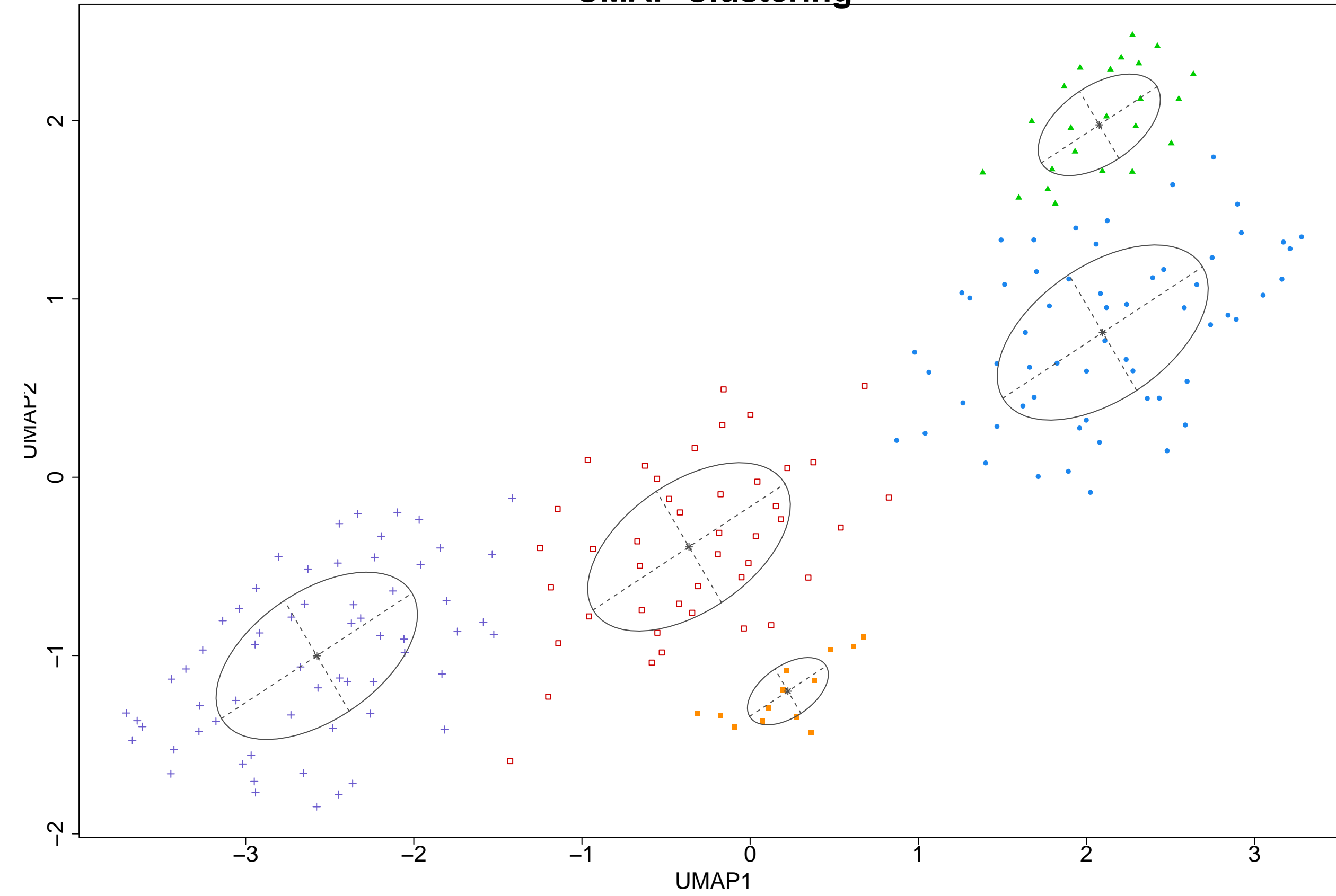
UMAP1 vs UMAP2



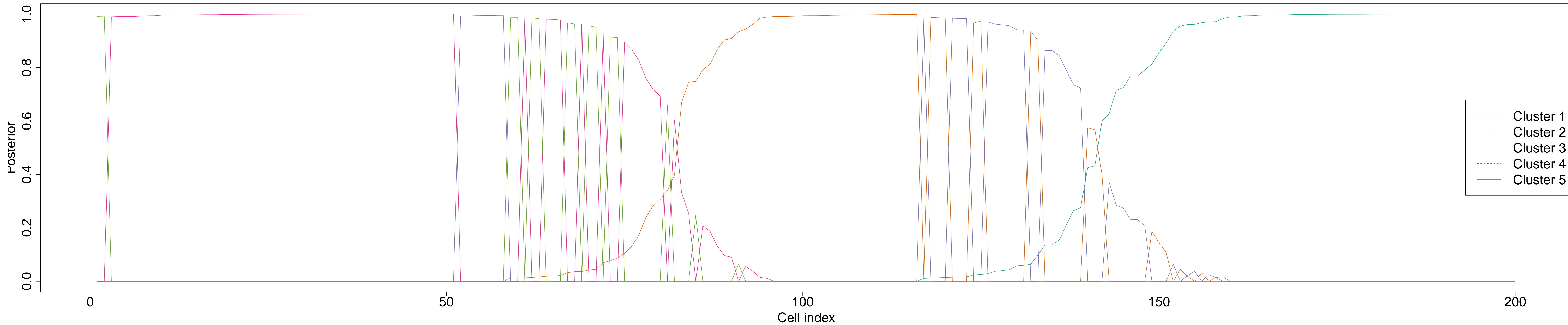
BIC criterion

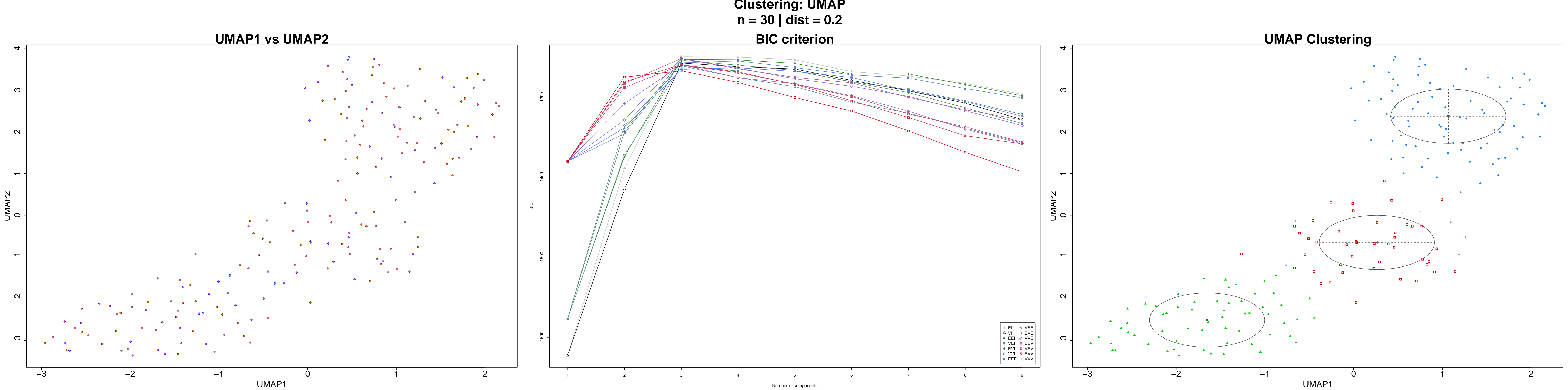


UMAP Clustering

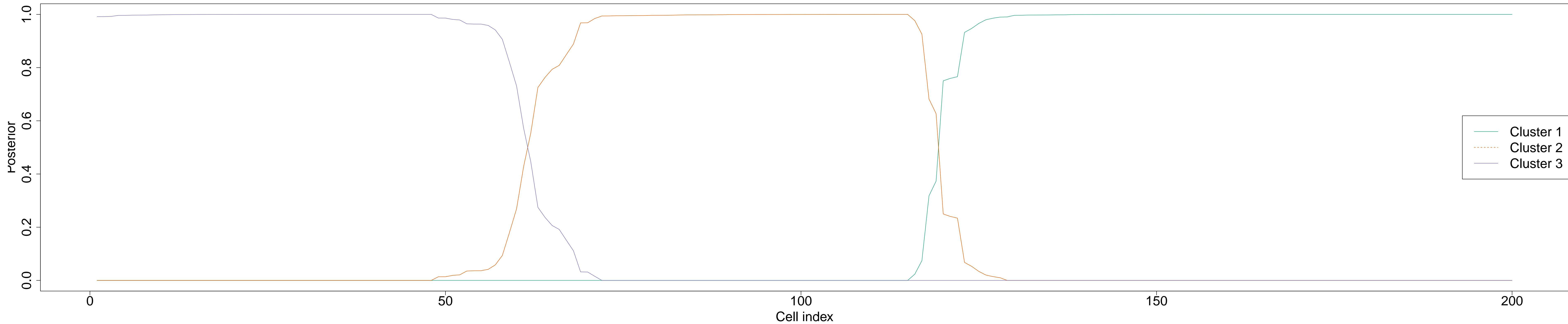


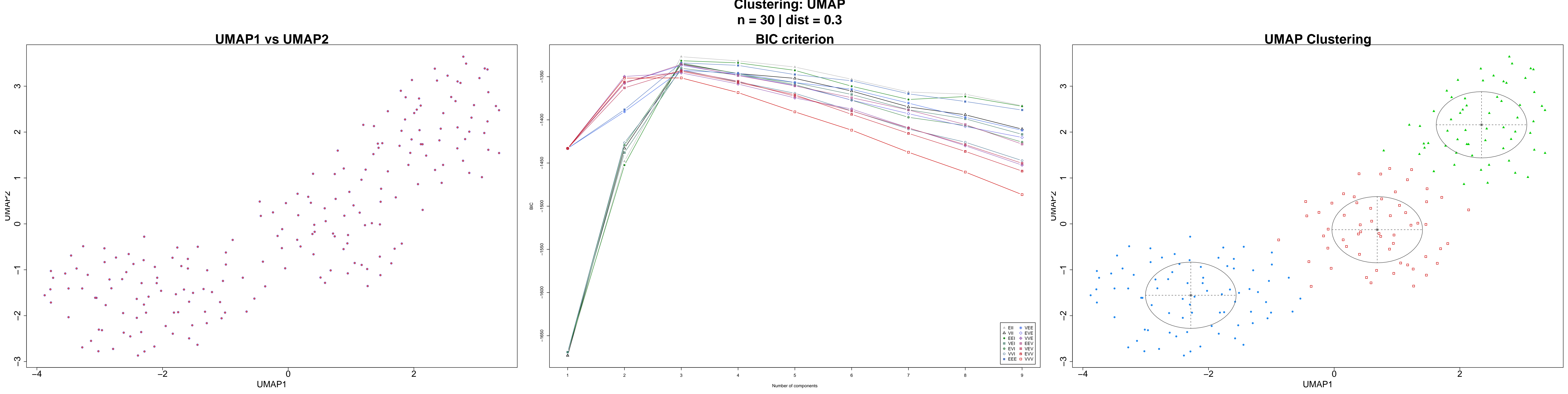
UMAP Trajectory plot



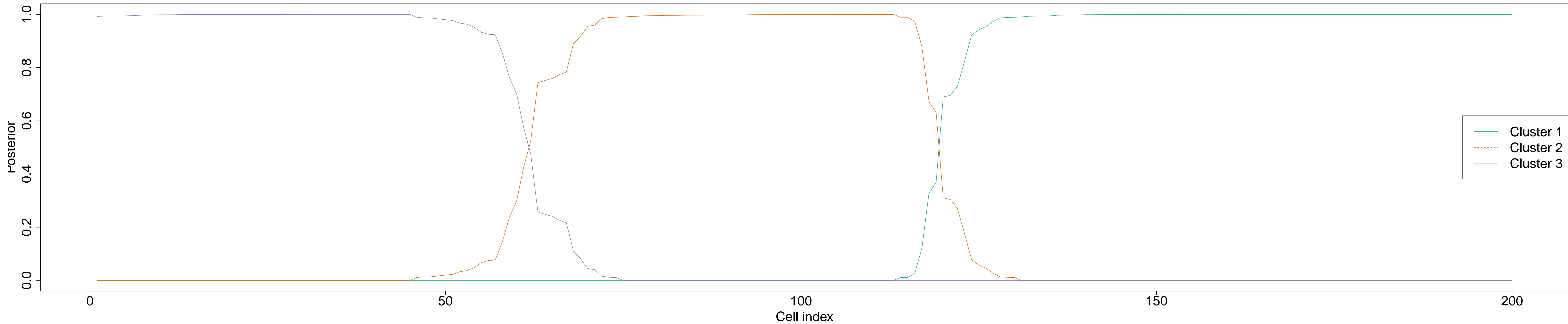


UMAP Trajectory plot

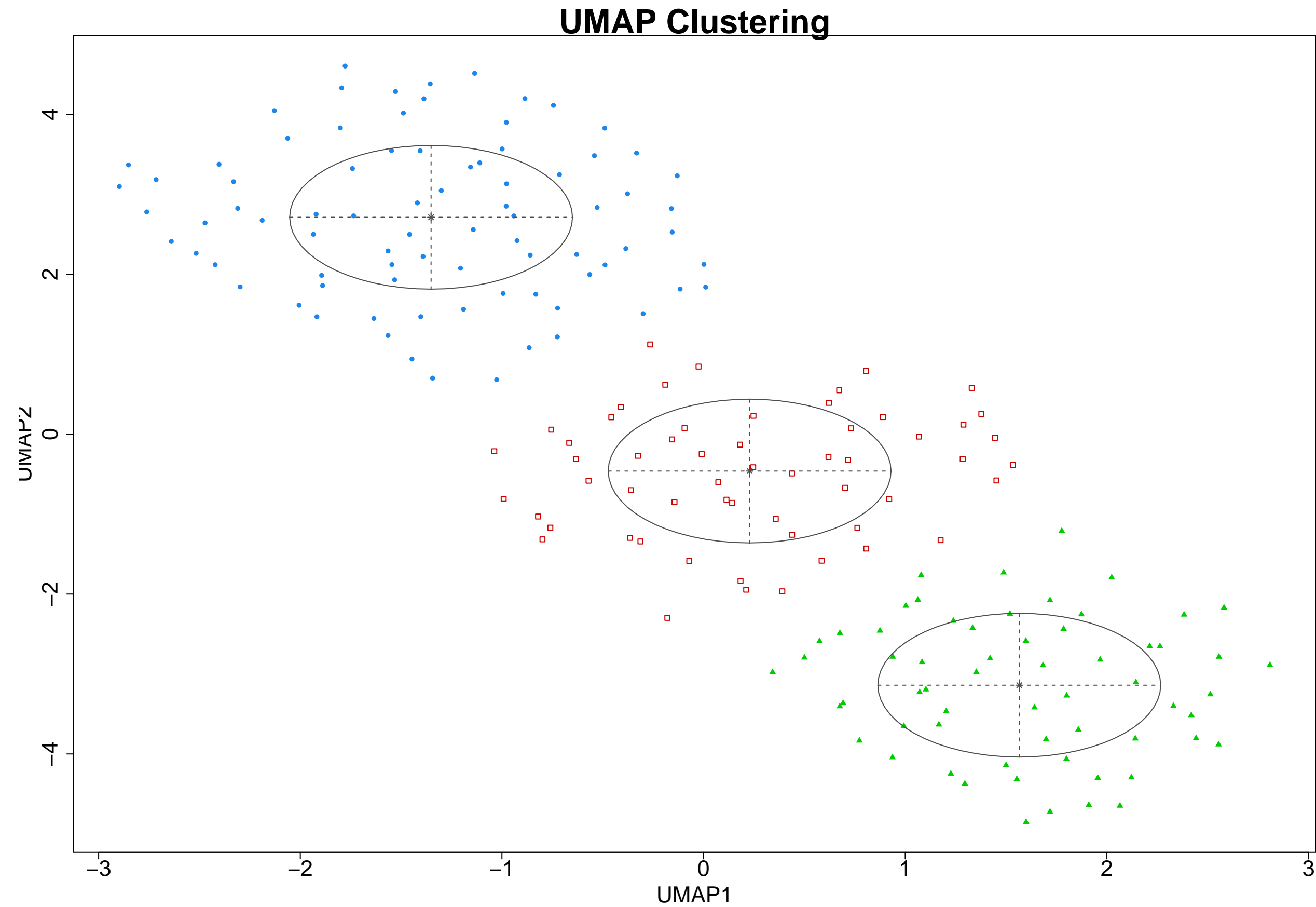
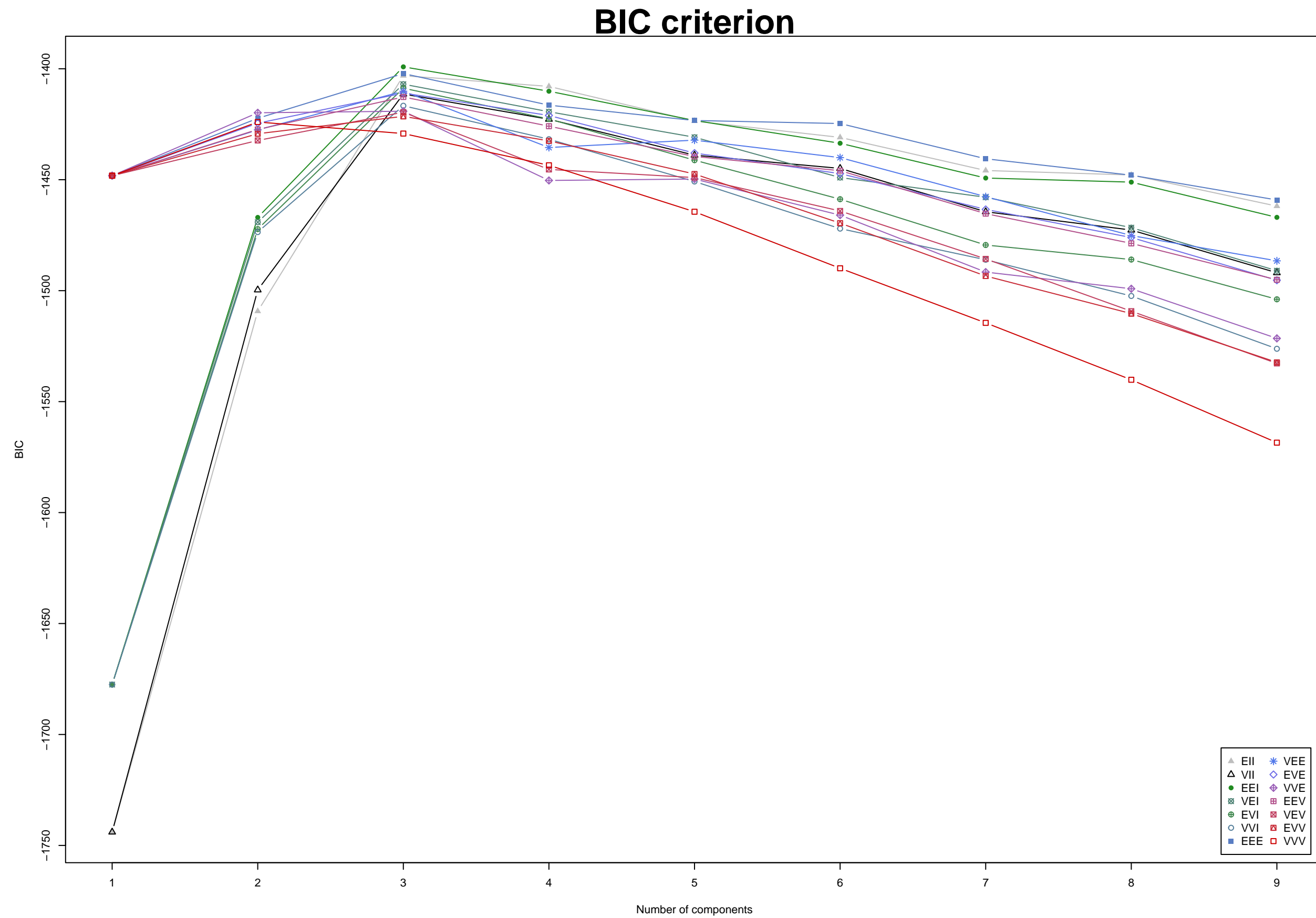
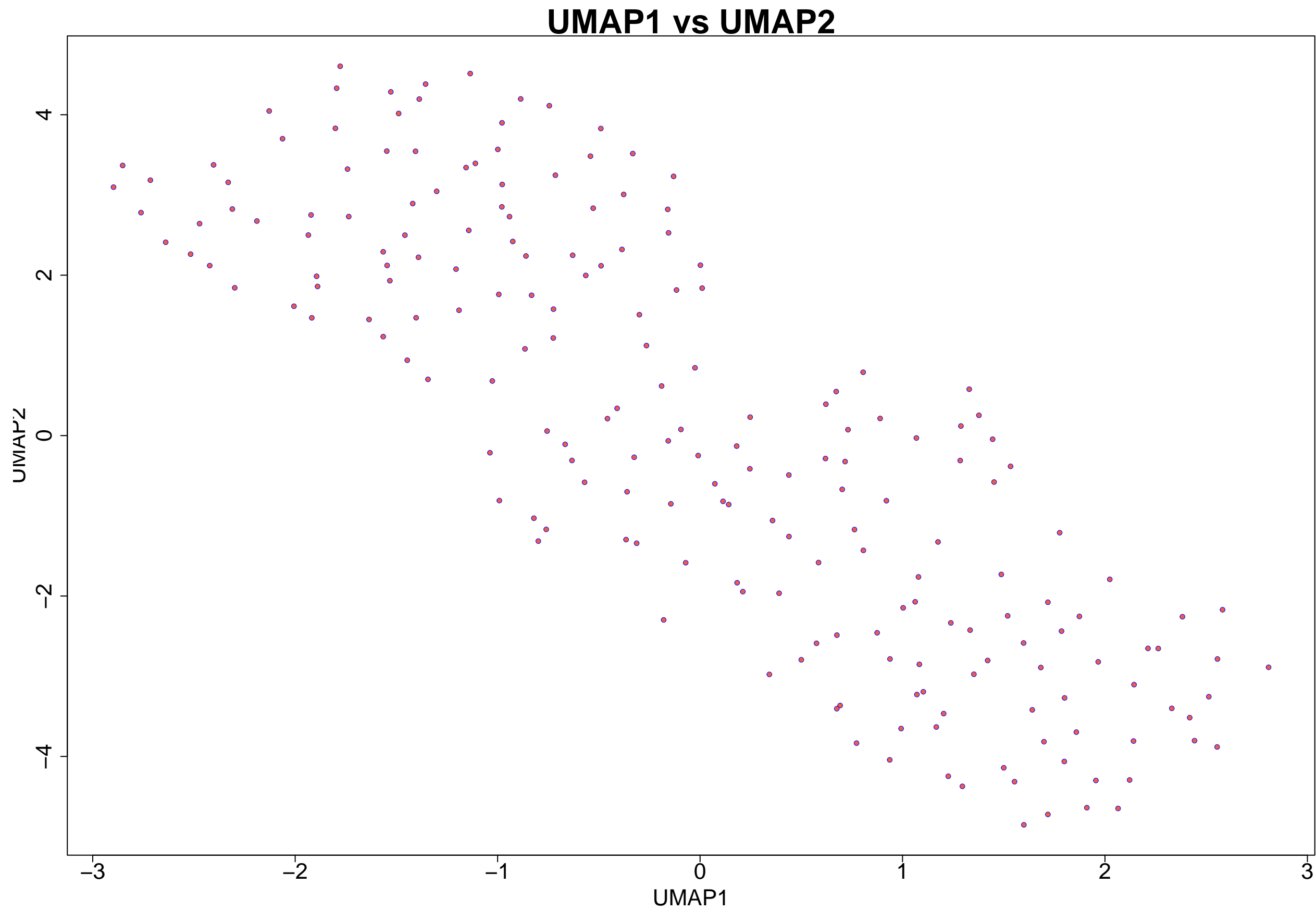




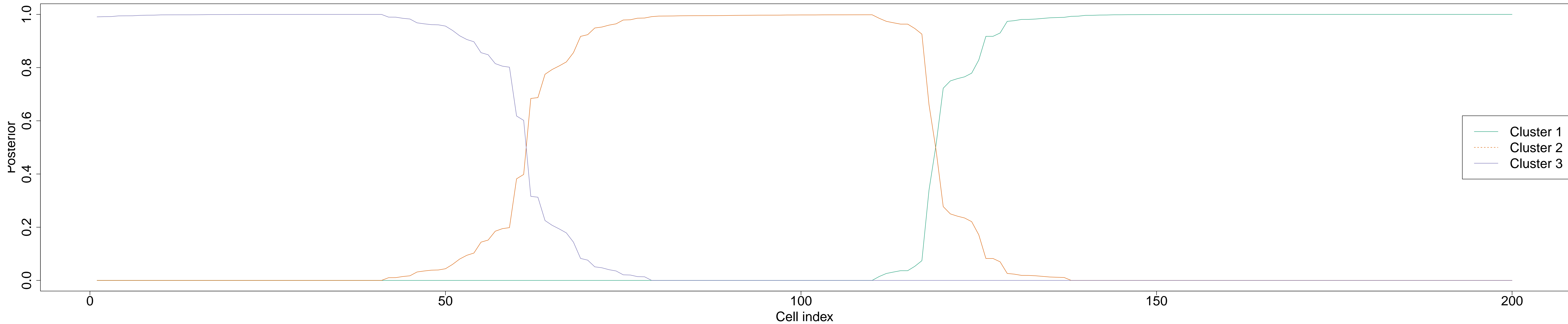
UMAP Trajectory plot



Clustering: UMAP  
n = 30 | dist = 0.4



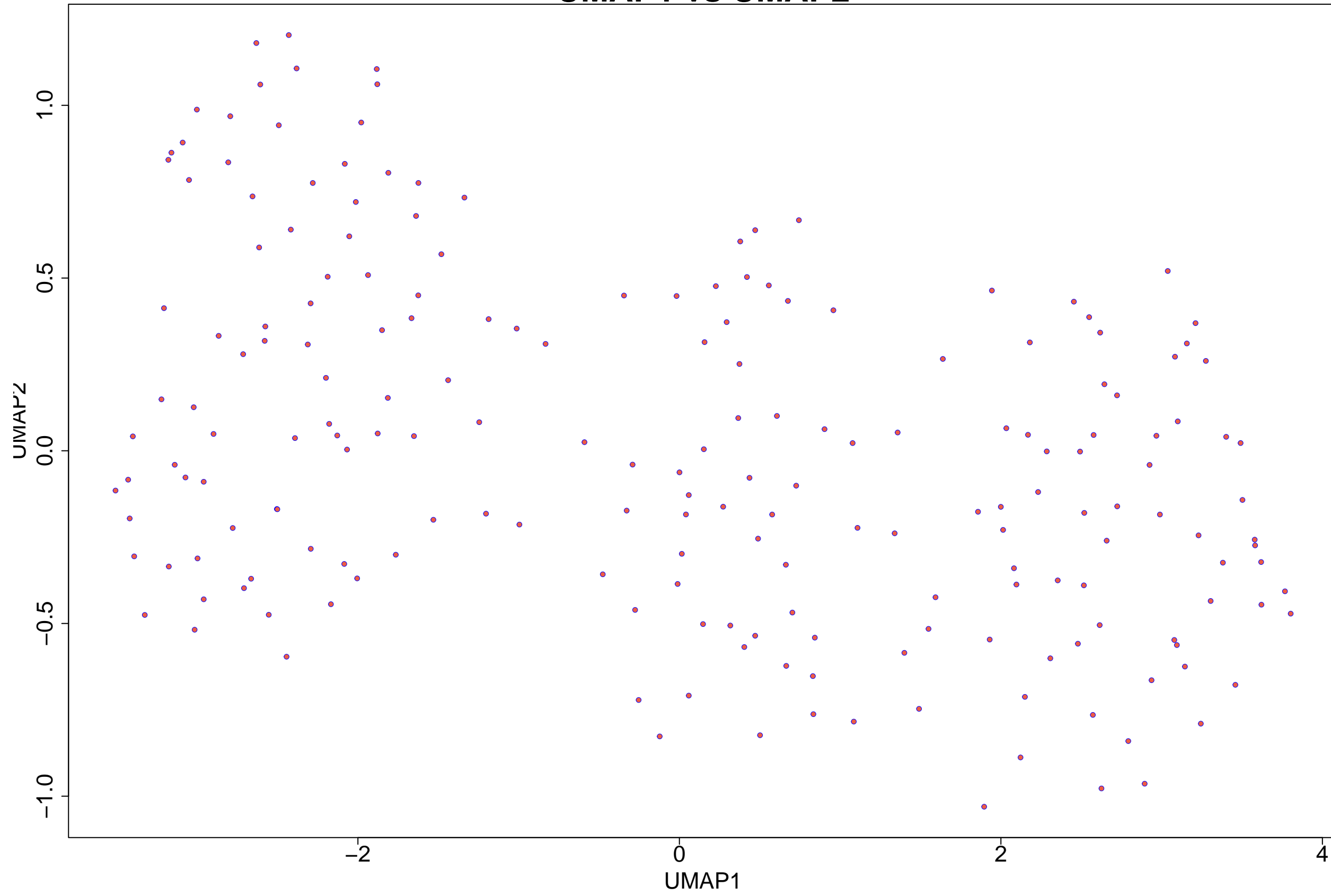
UMAP Trajectory plot



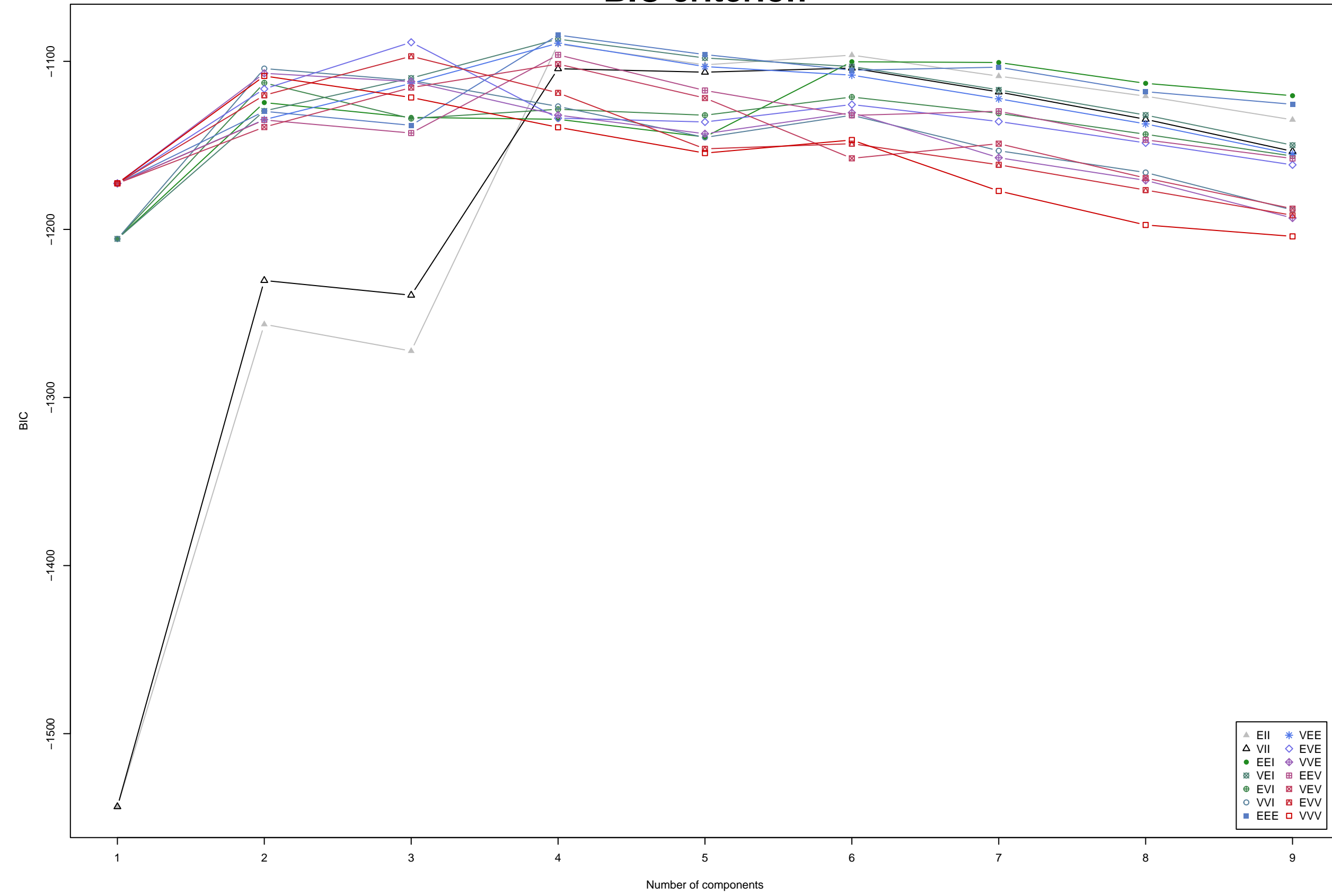


Clustering: UMAP  
n = 35 | dist = 0.05

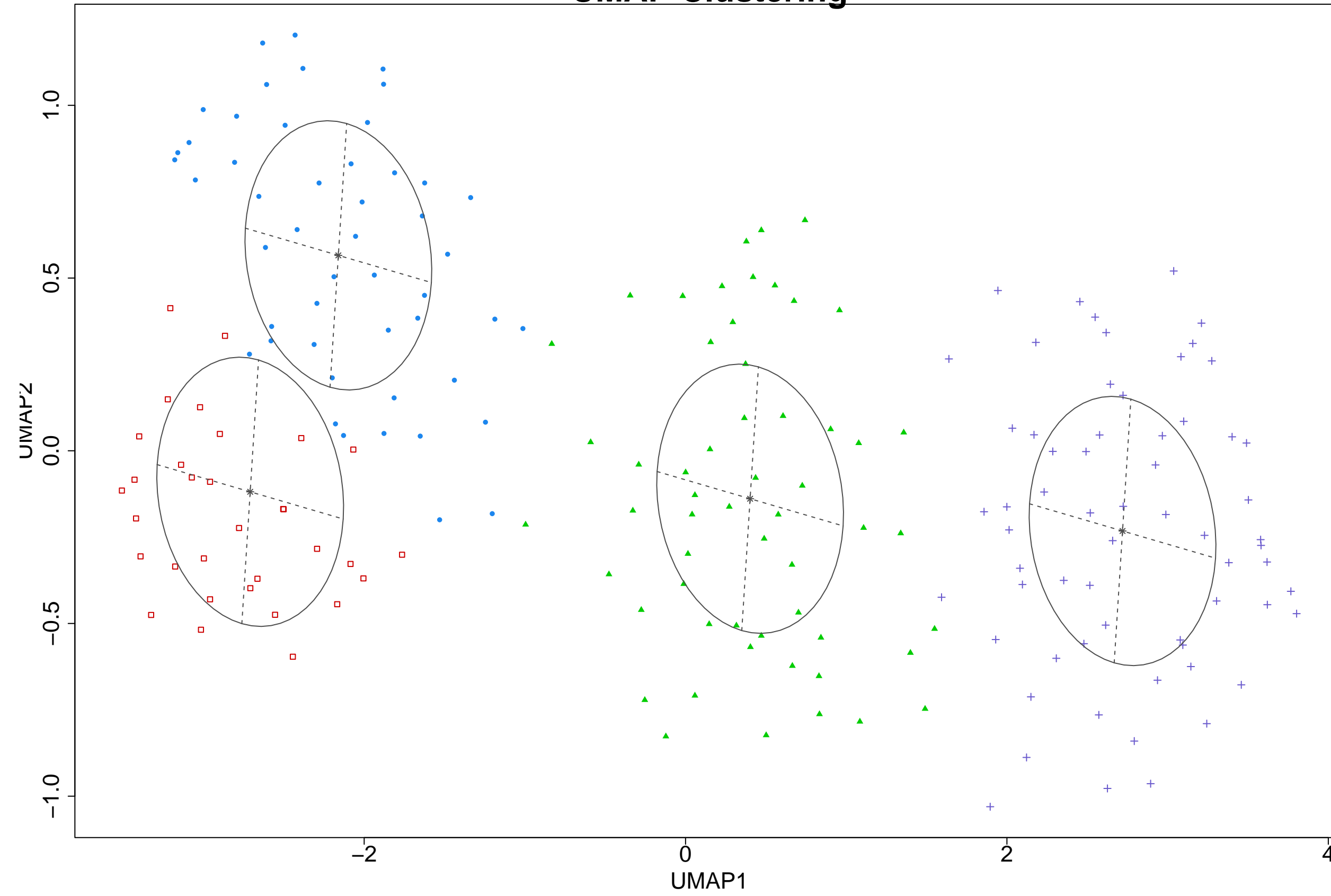
UMAP1 vs UMAP2



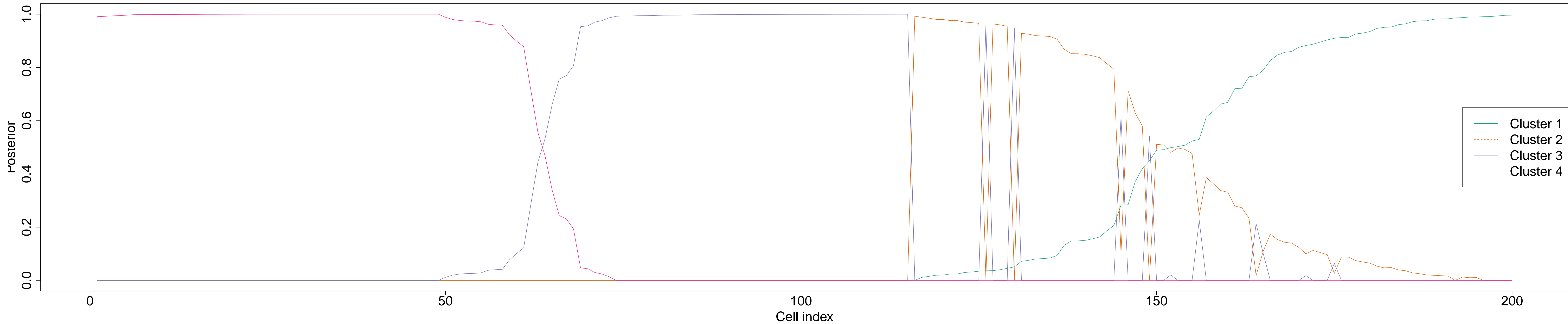
BIC criterion

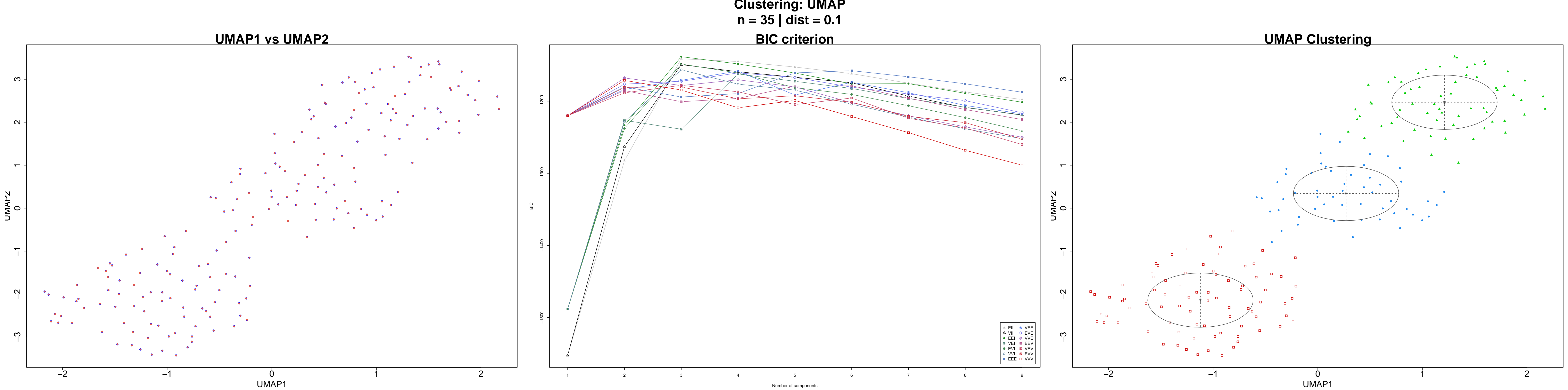


UMAP Clustering

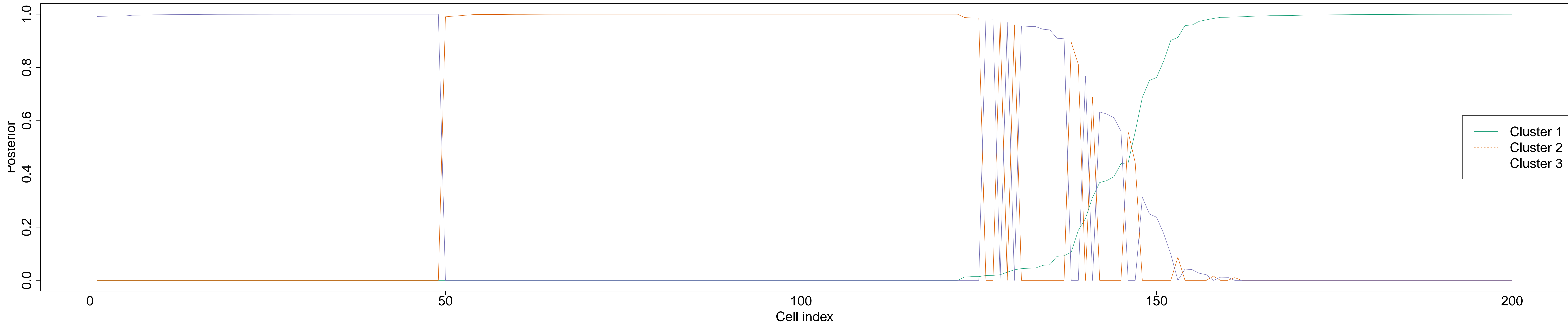


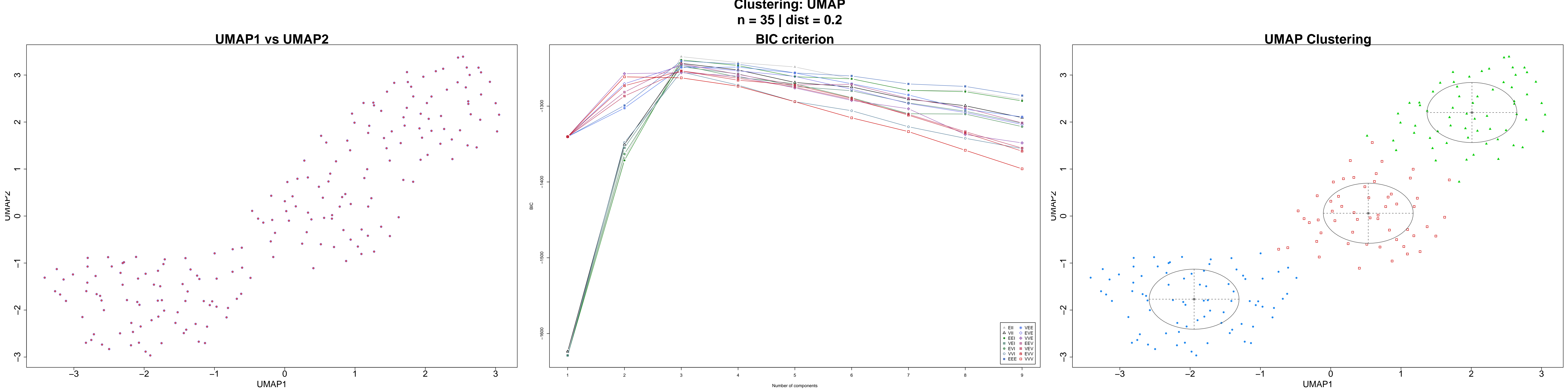
# UMAP Trajectory plot



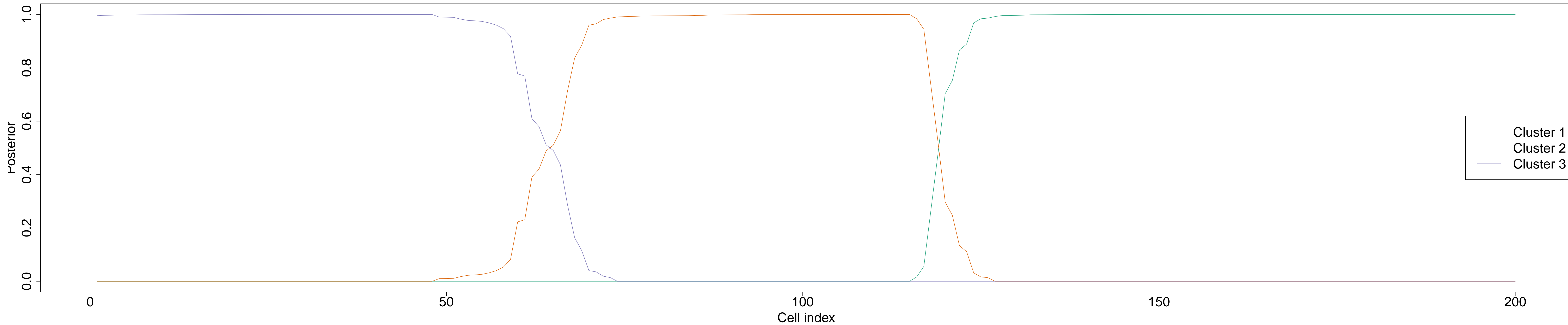


# UMAP Trajectory plot



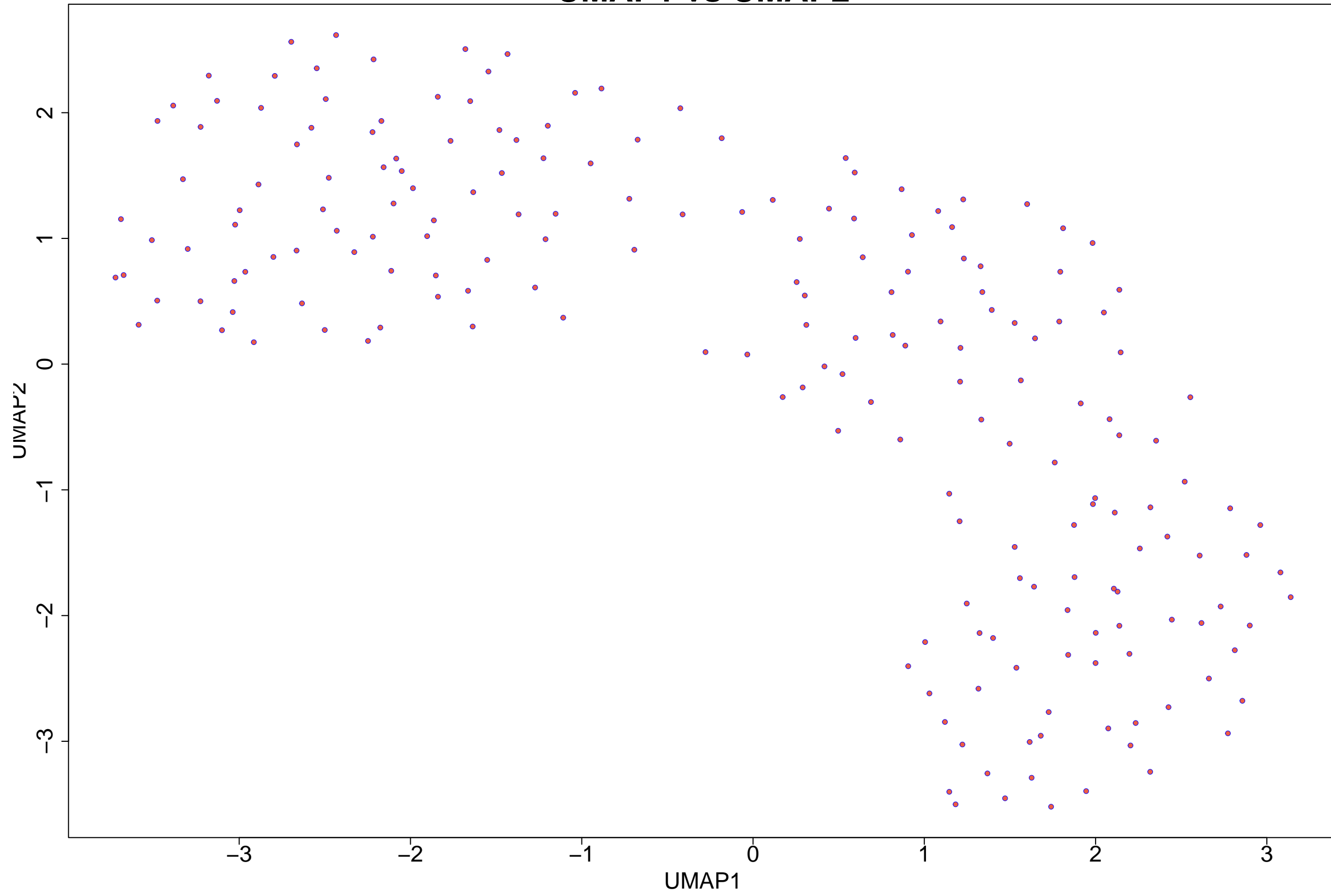


**UMAP Trajectory plot**

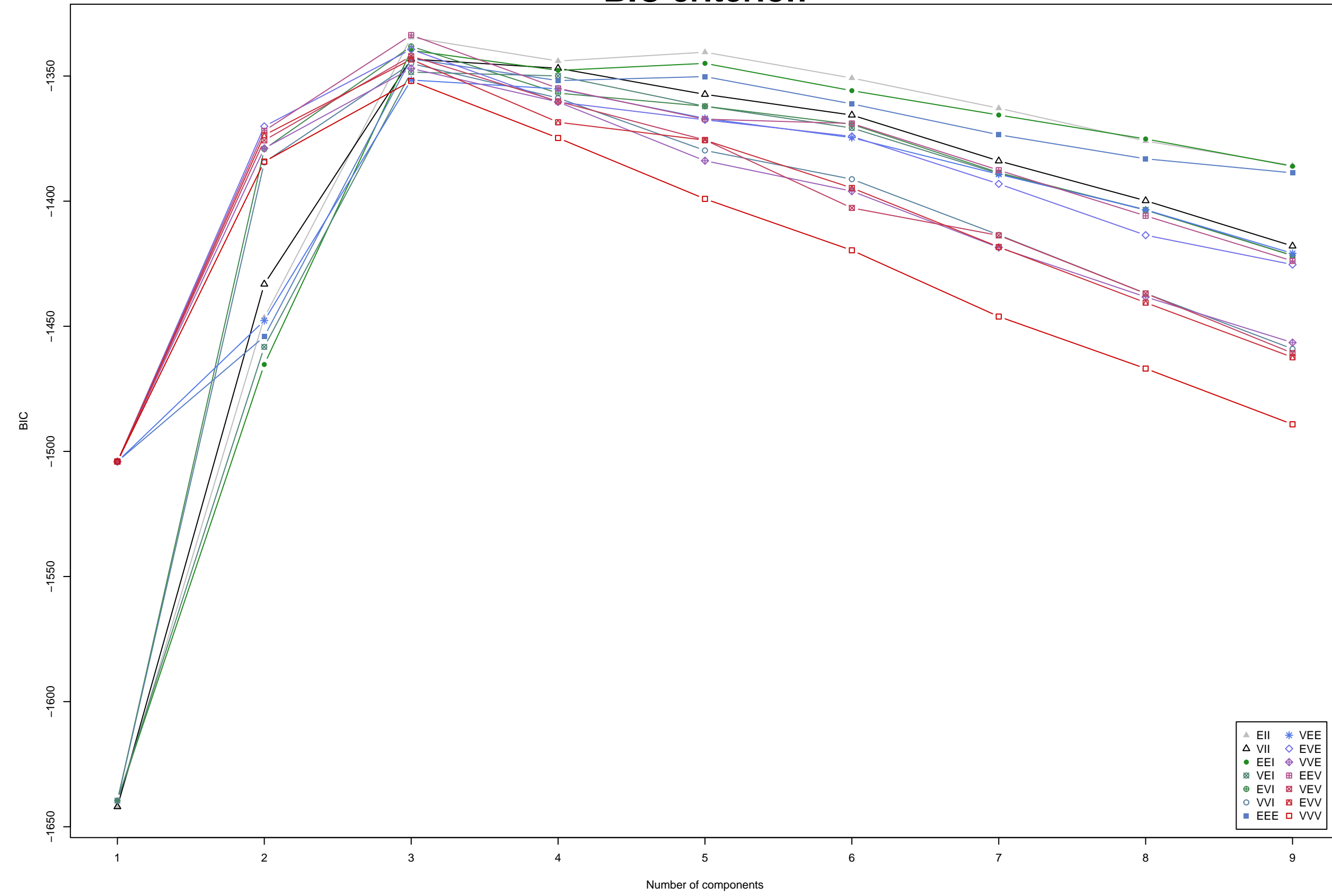


Clustering: UMAP  
n = 35 | dist = 0.3

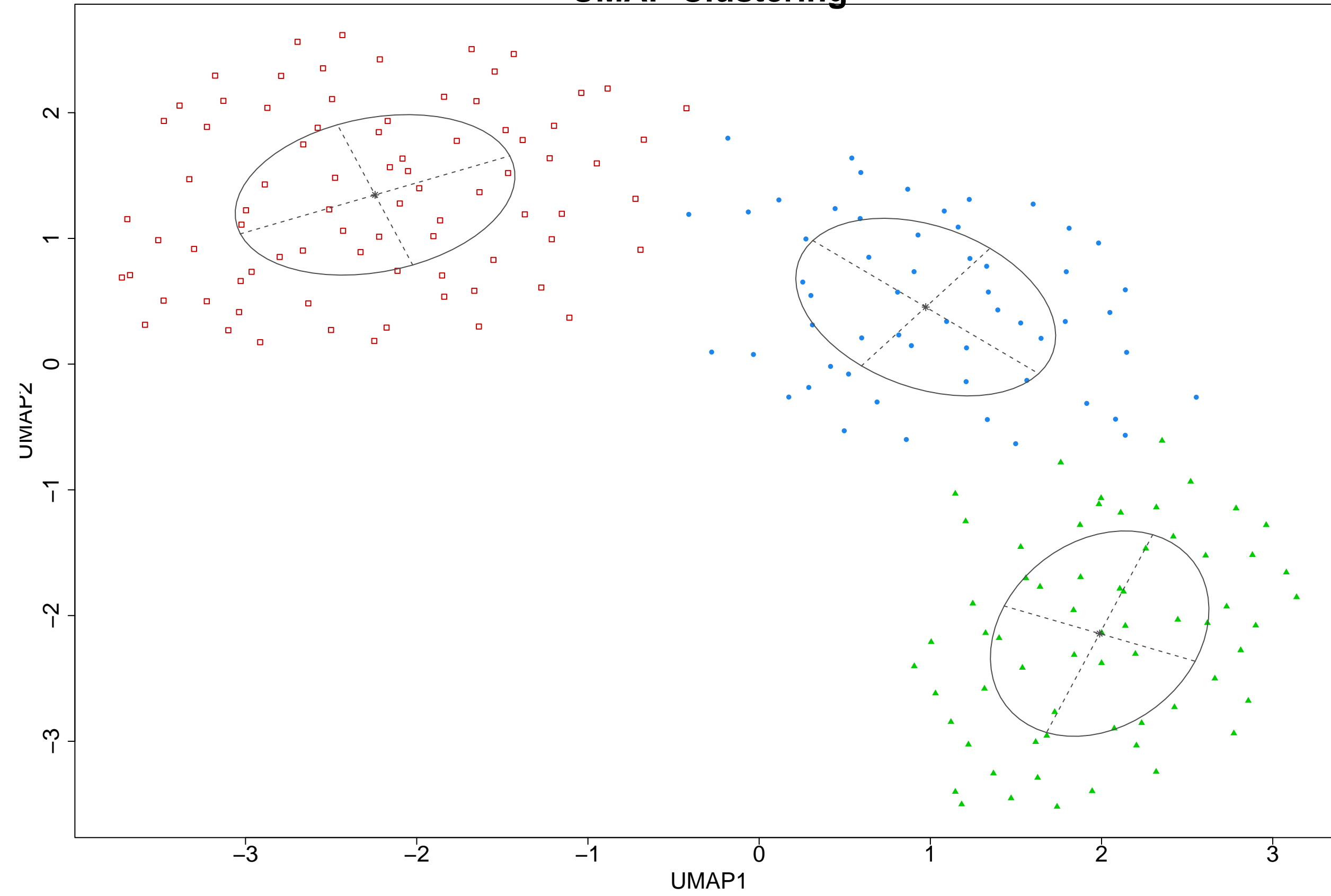
UMAP1 vs UMAP2



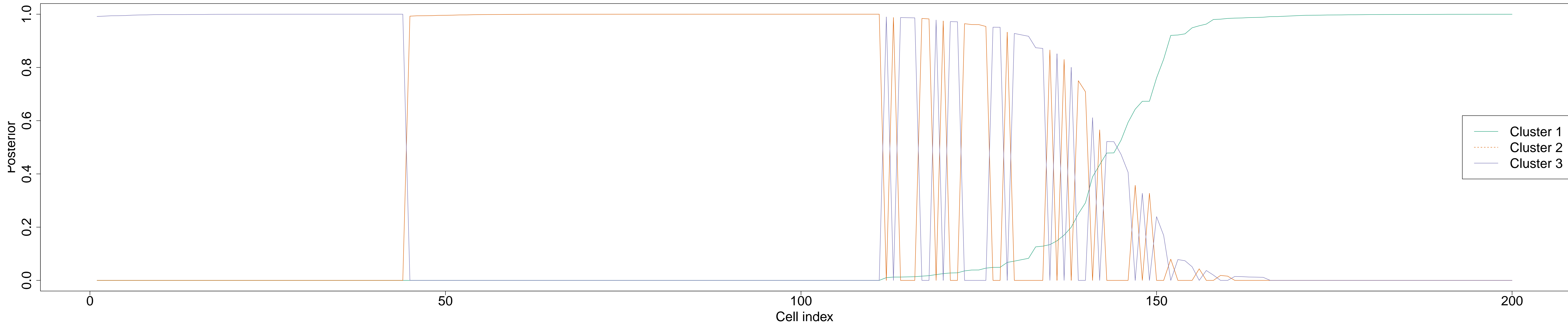
BIC criterion



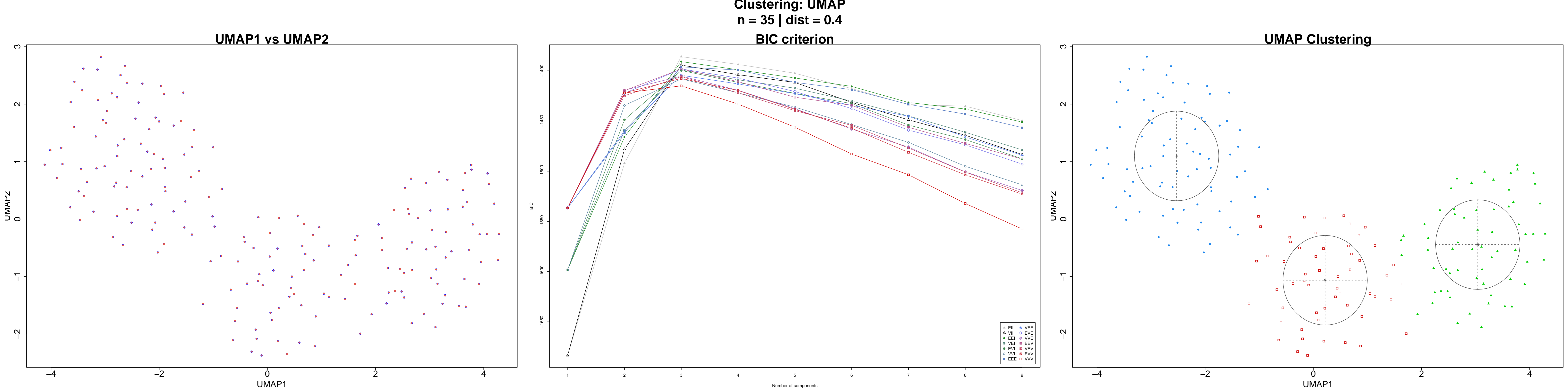
UMAP Clustering



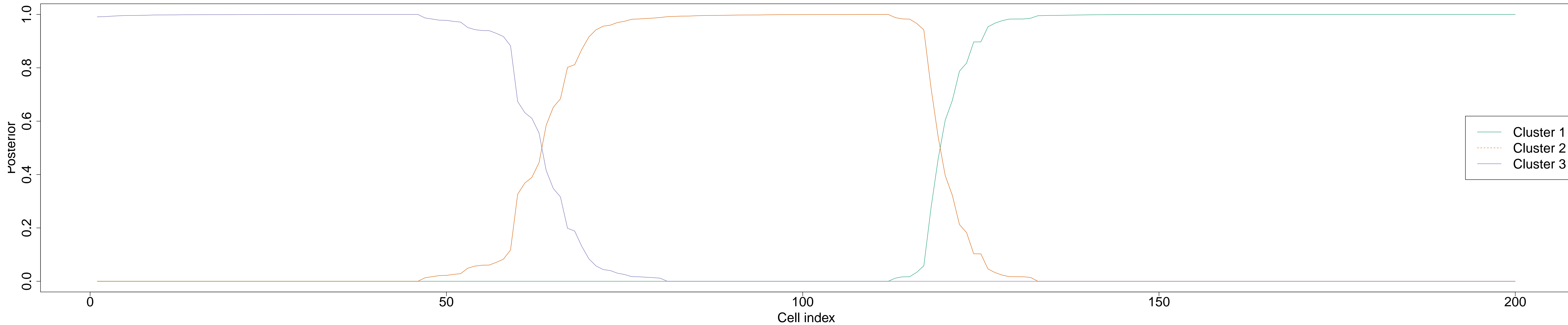
# UMAP Trajectory plot





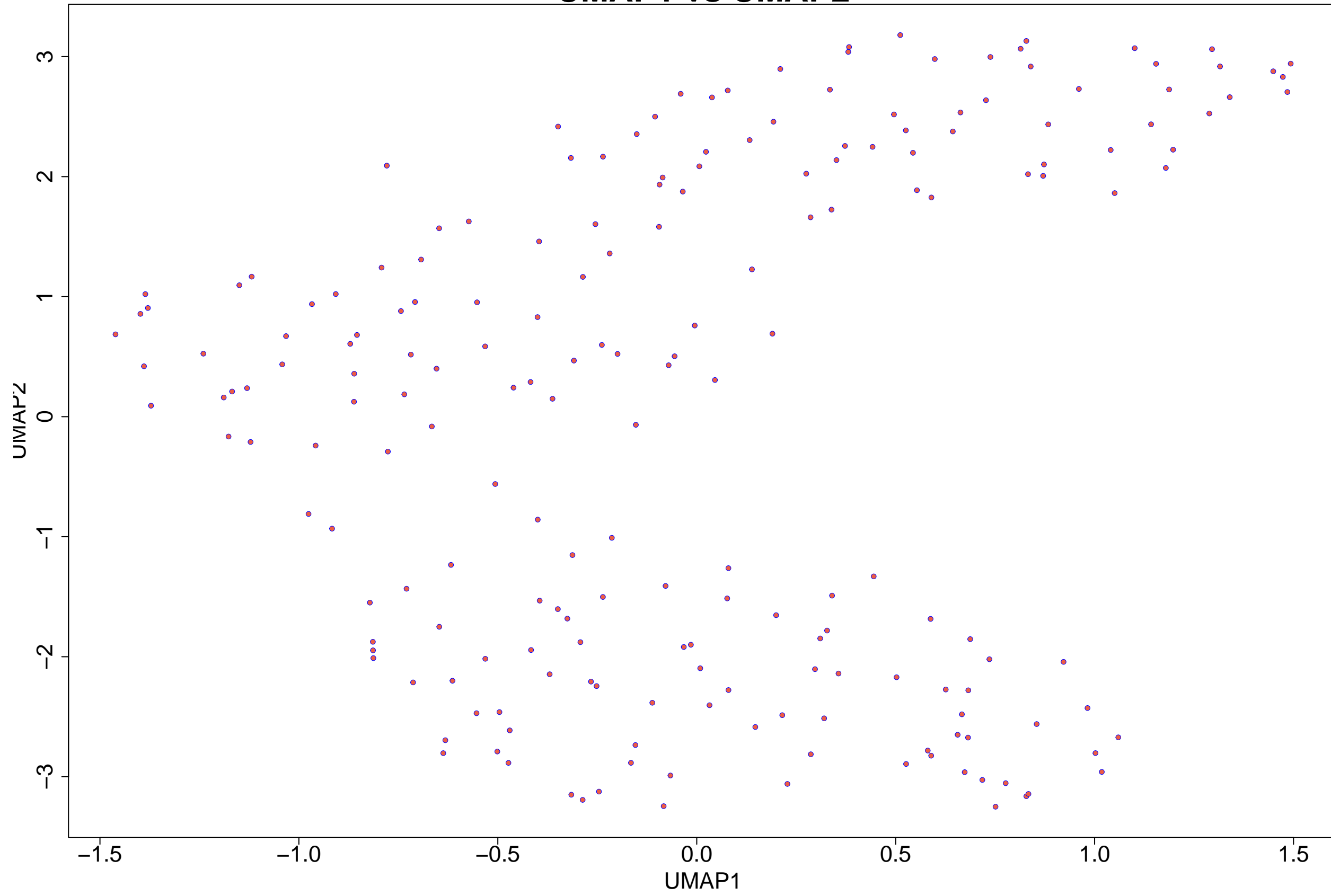


UMAP Trajectory plot

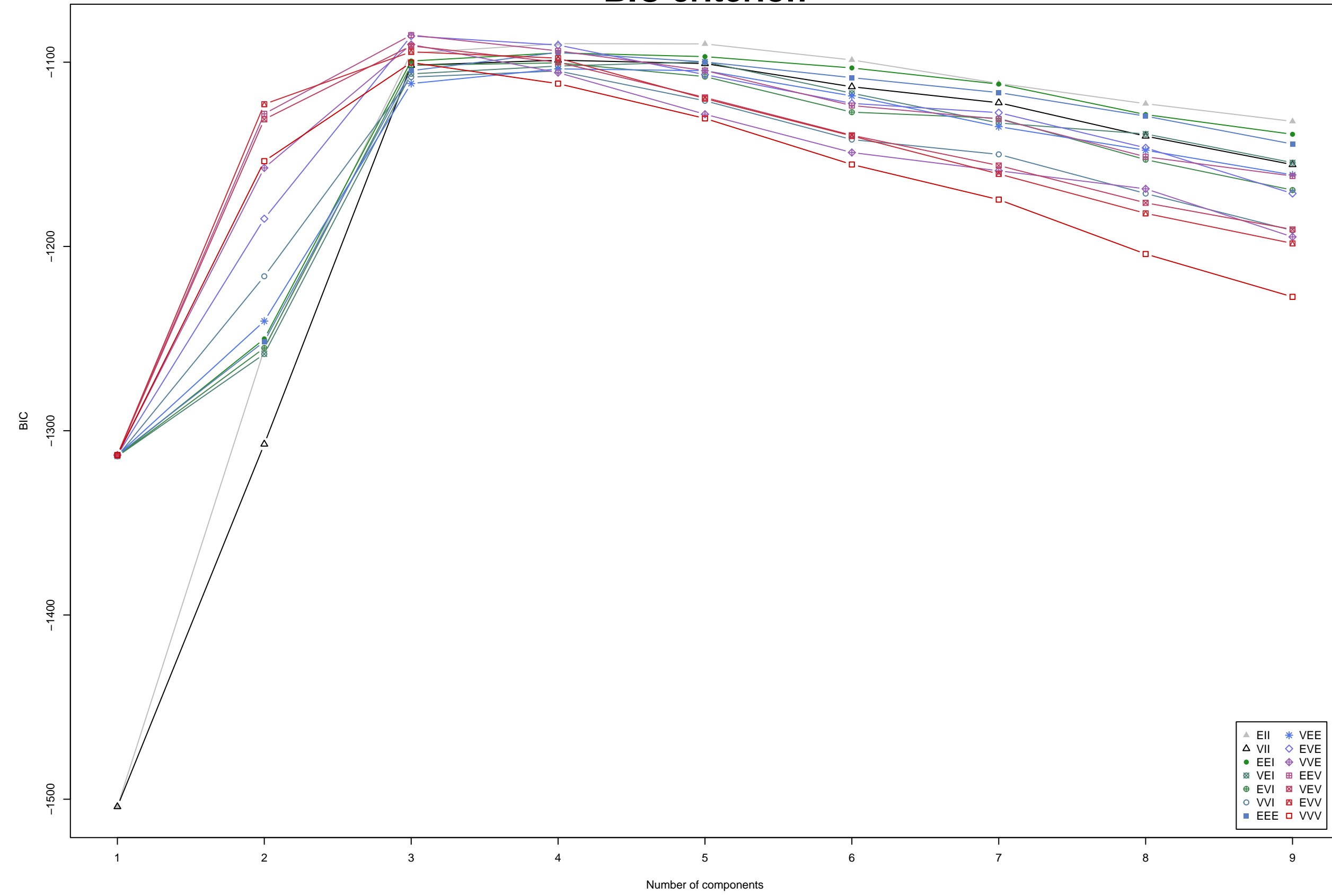


Clustering: UMAP  
n = 40 | dist = 0.05

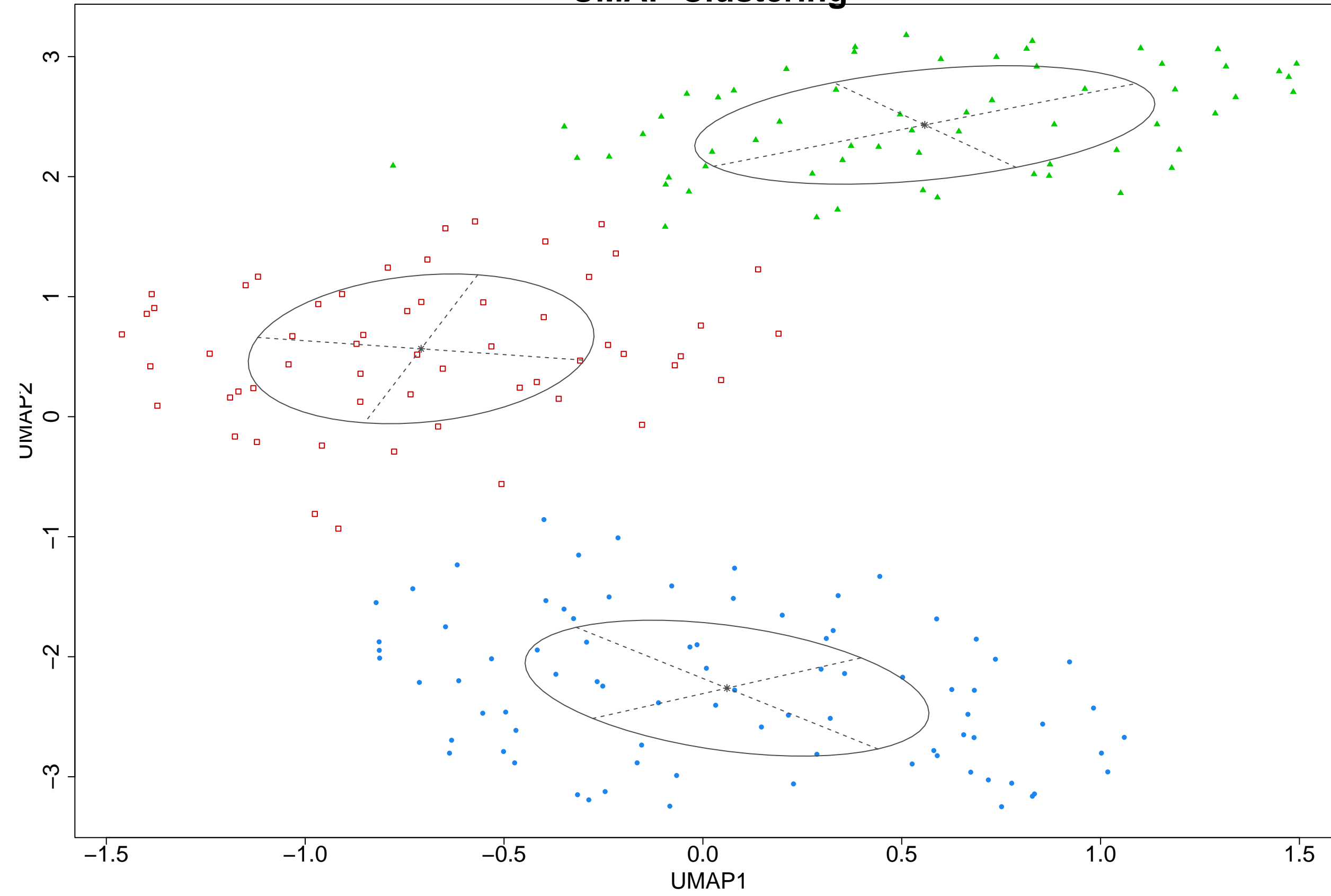
UMAP1 vs UMAP2



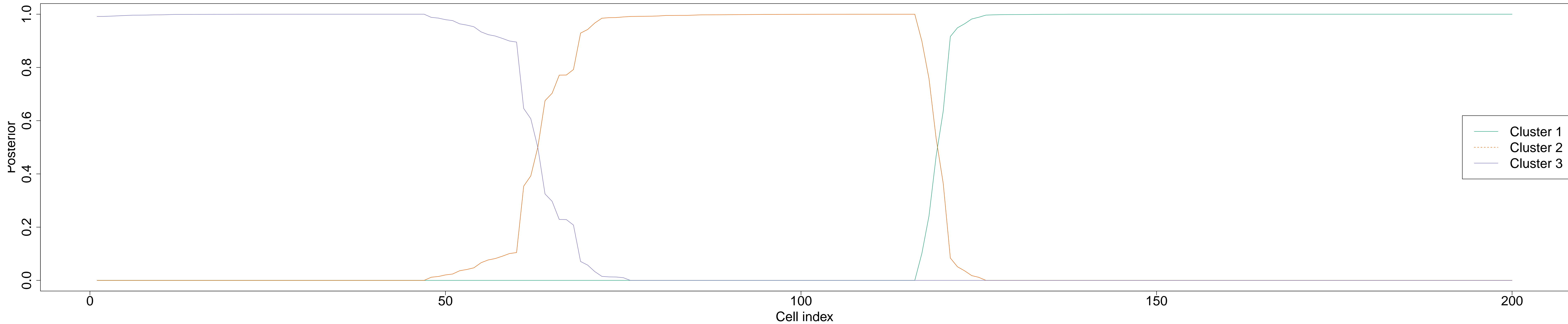
BIC criterion



UMAP Clustering

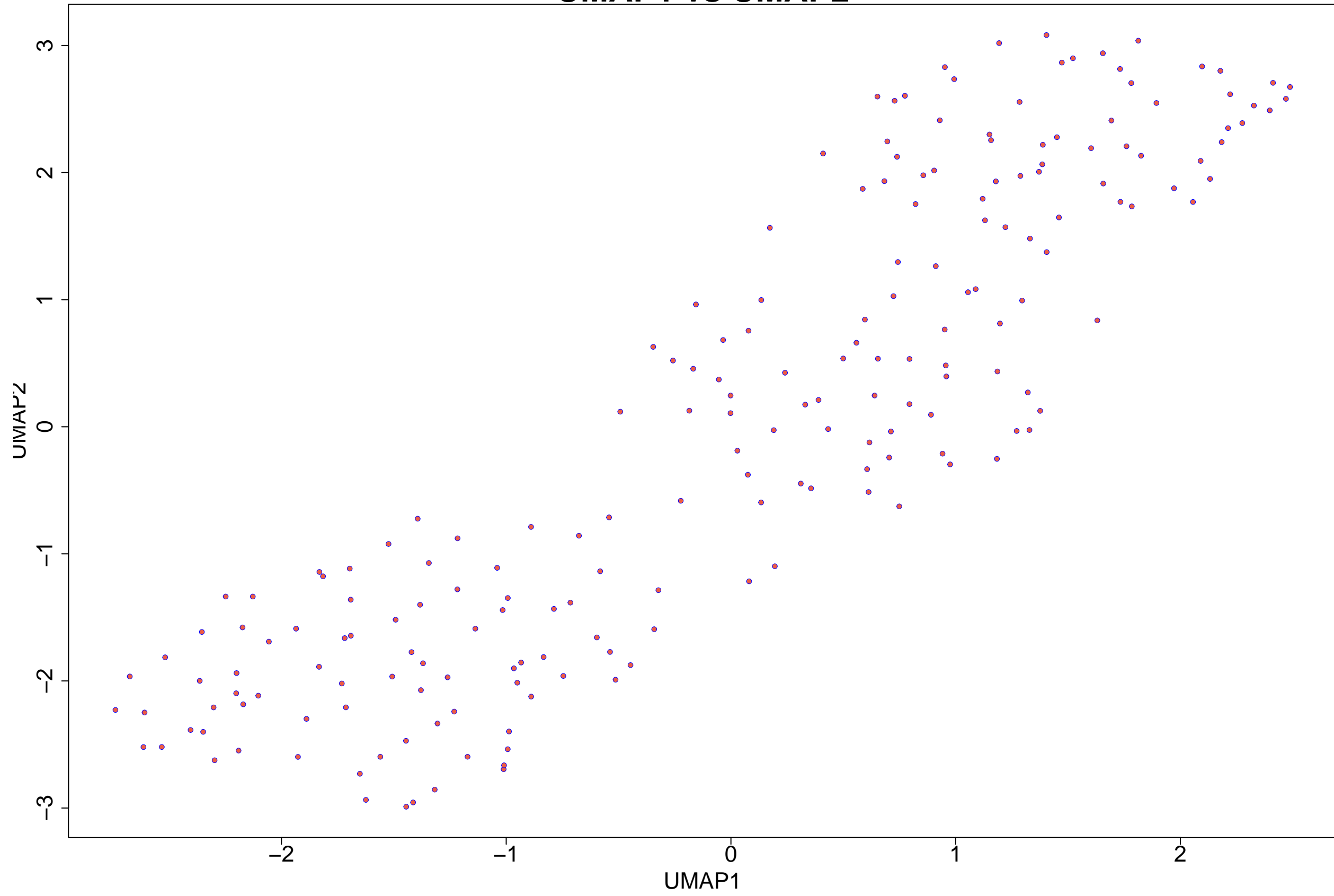


# UMAP Trajectory plot

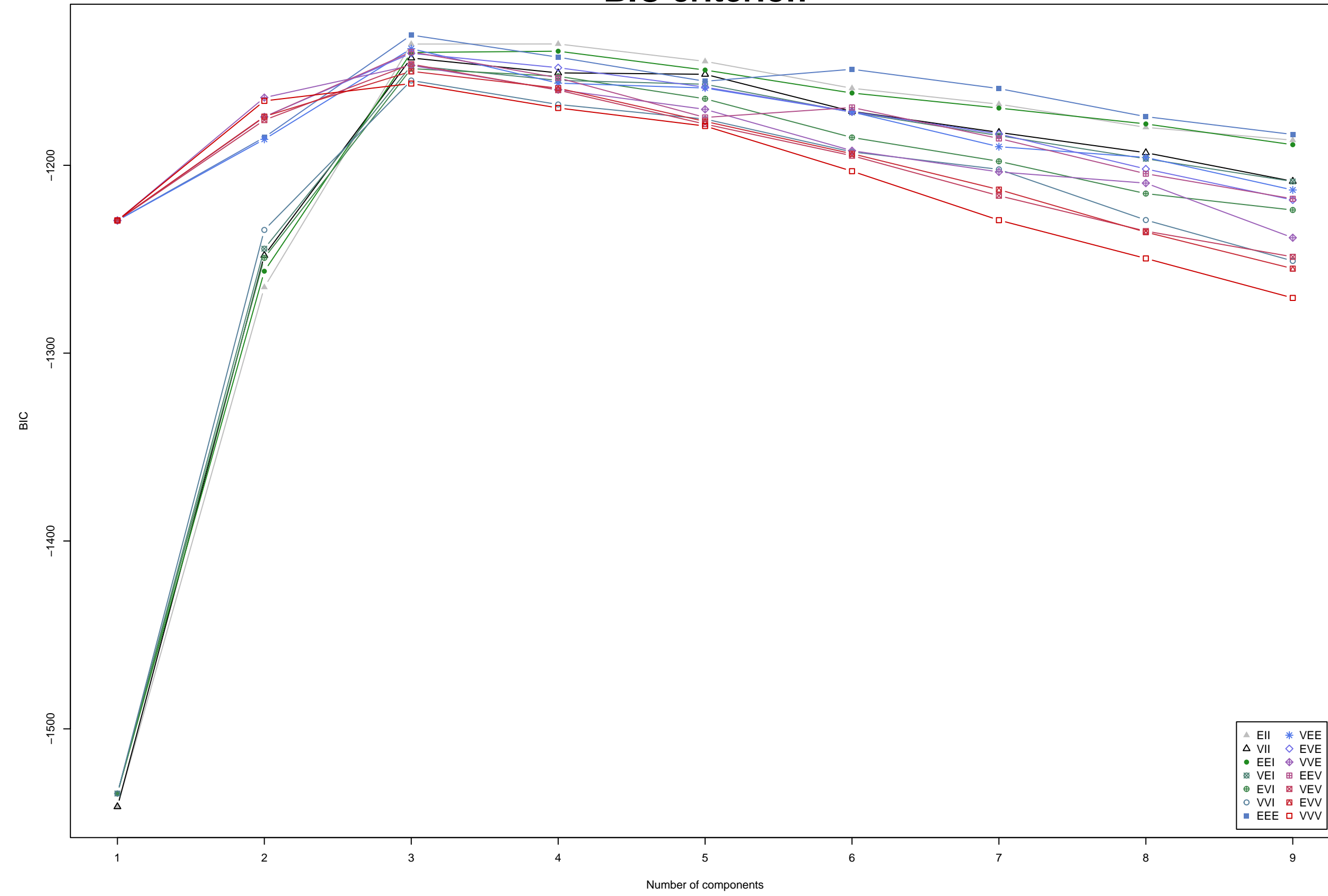


Clustering: UMAP  
n = 40 | dist = 0.1

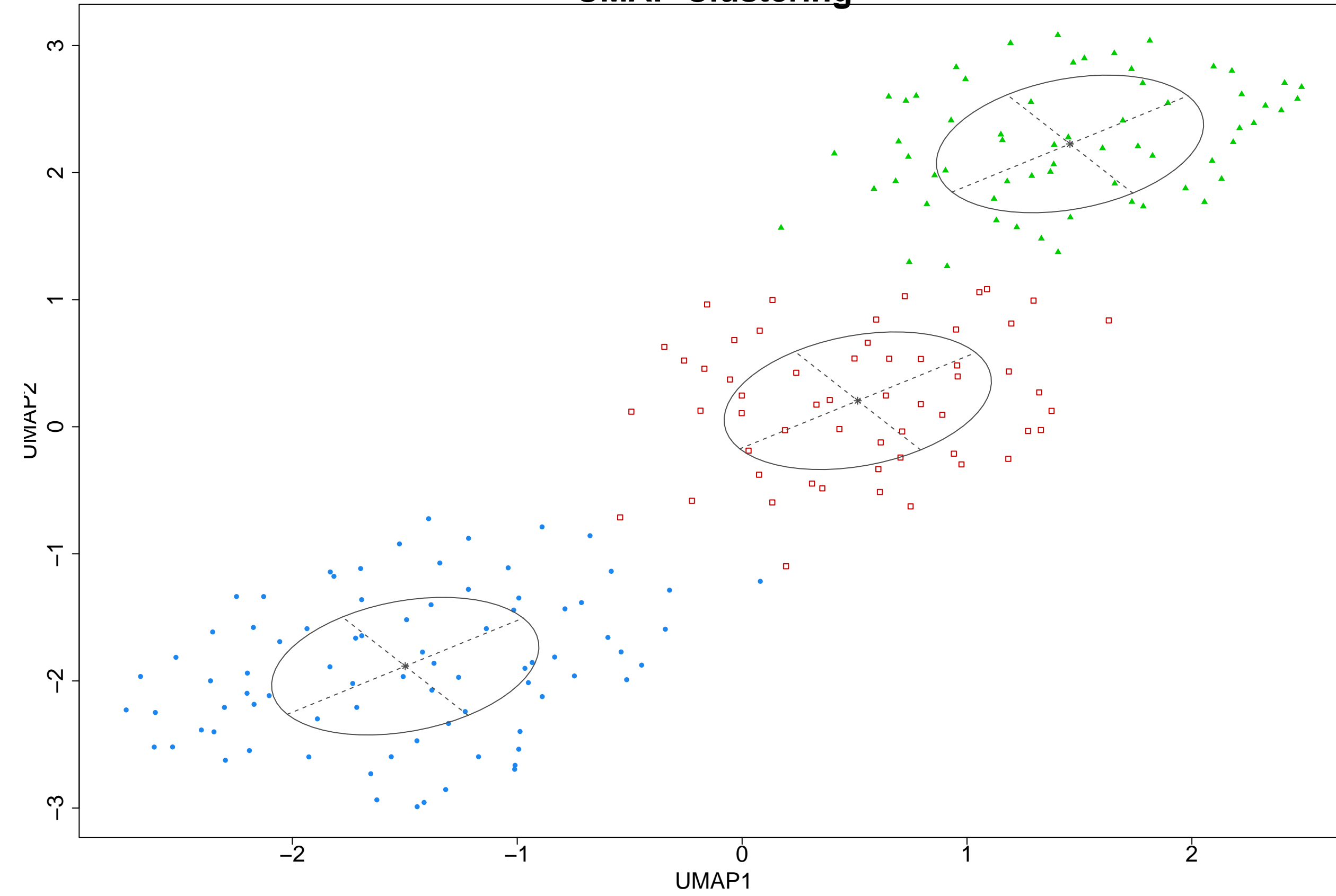
UMAP1 vs UMAP2



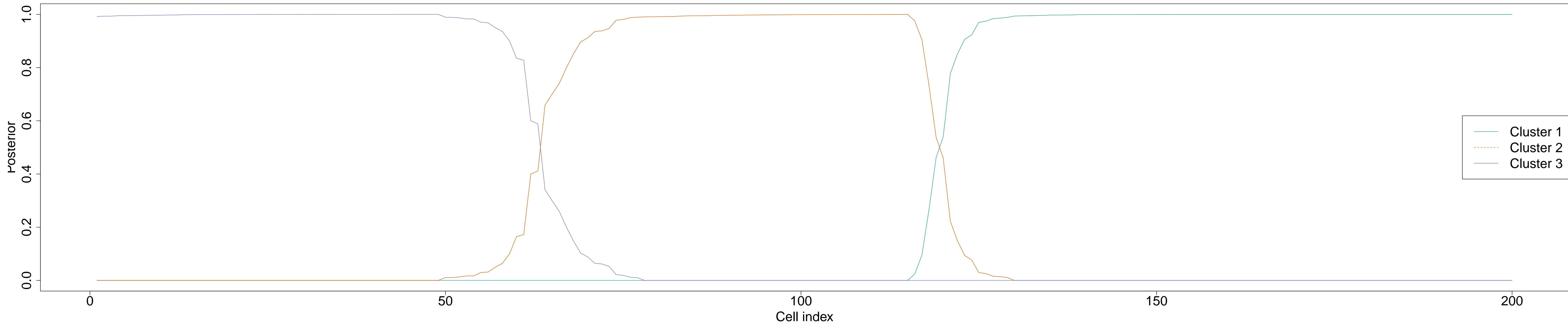
BIC criterion



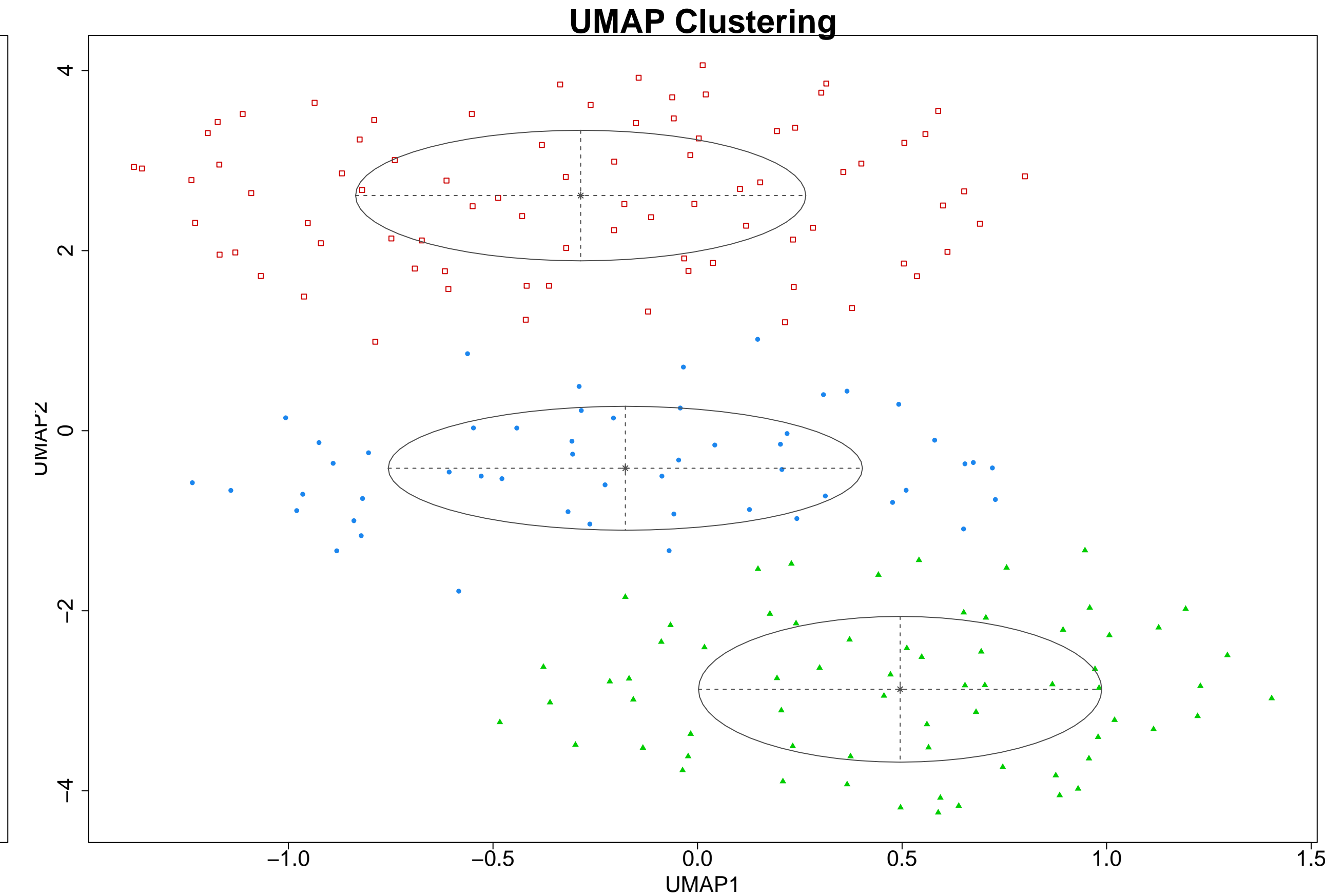
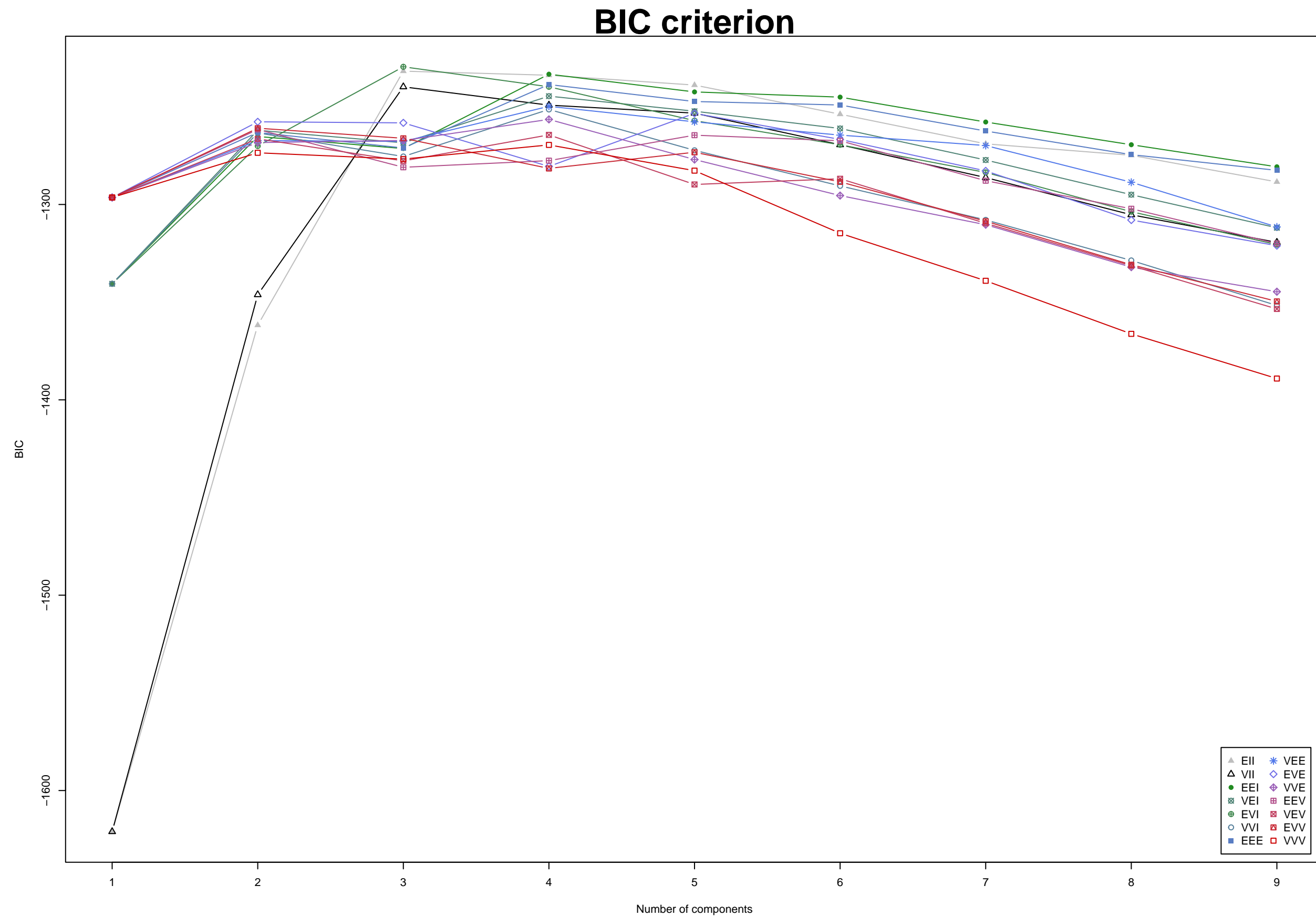
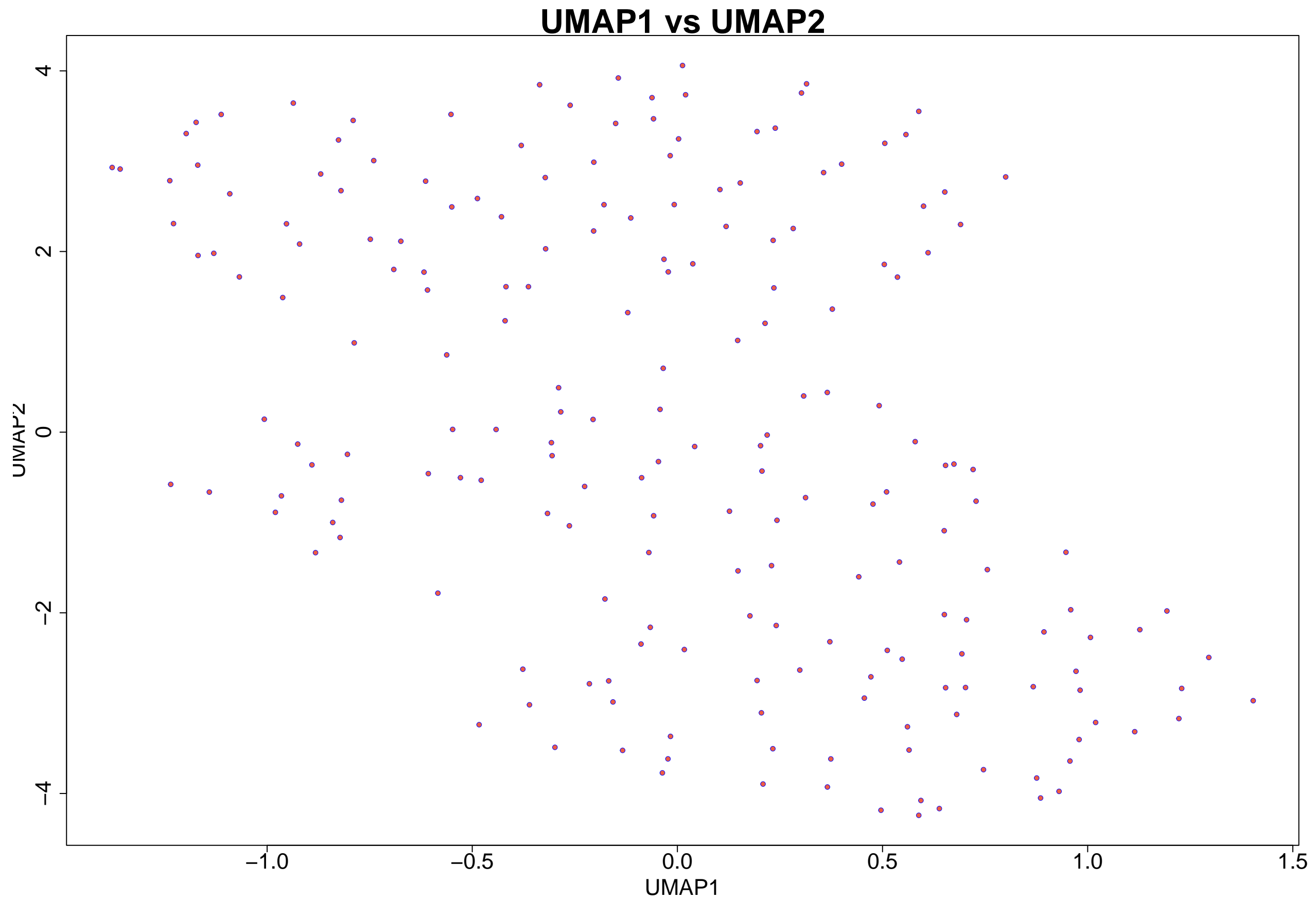
UMAP Clustering



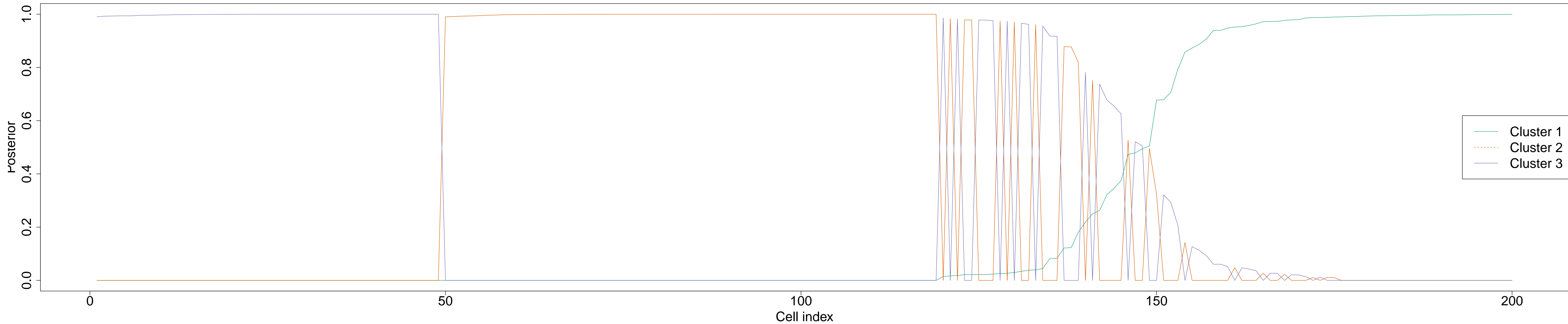
UMAP Trajectory plot



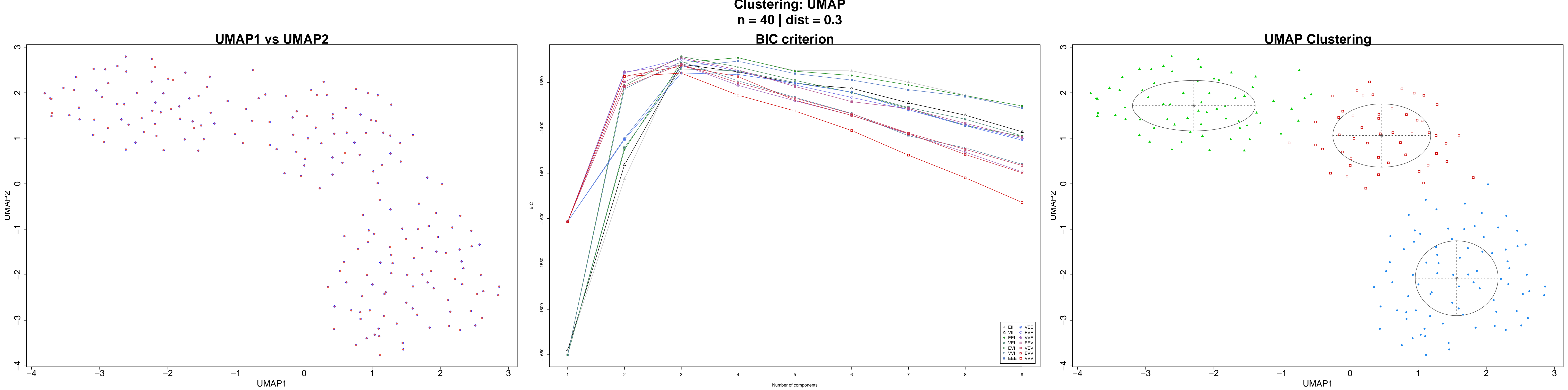
Clustering: UMAP  
n = 40 | dist = 0.2



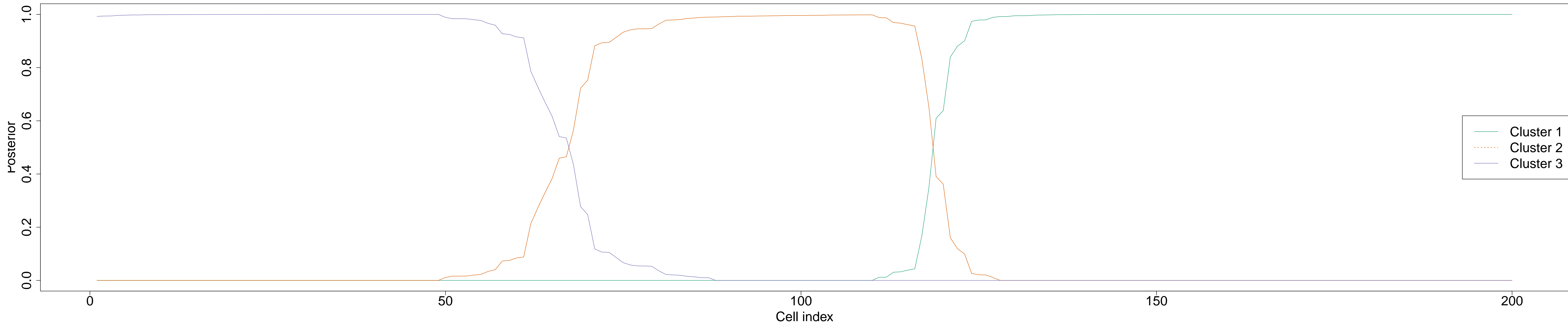
# UMAP Trajectory plot





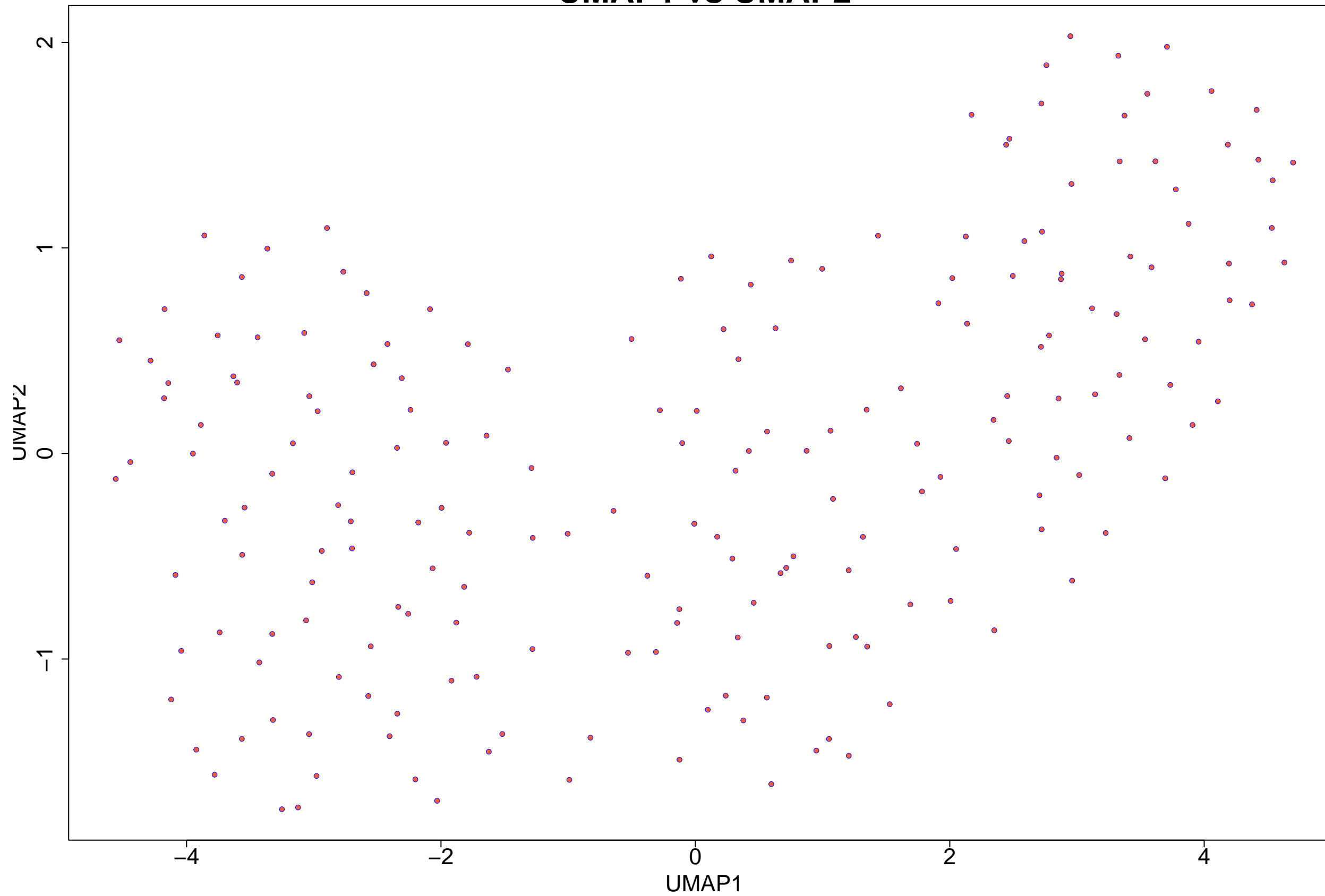


UMAP Trajectory plot

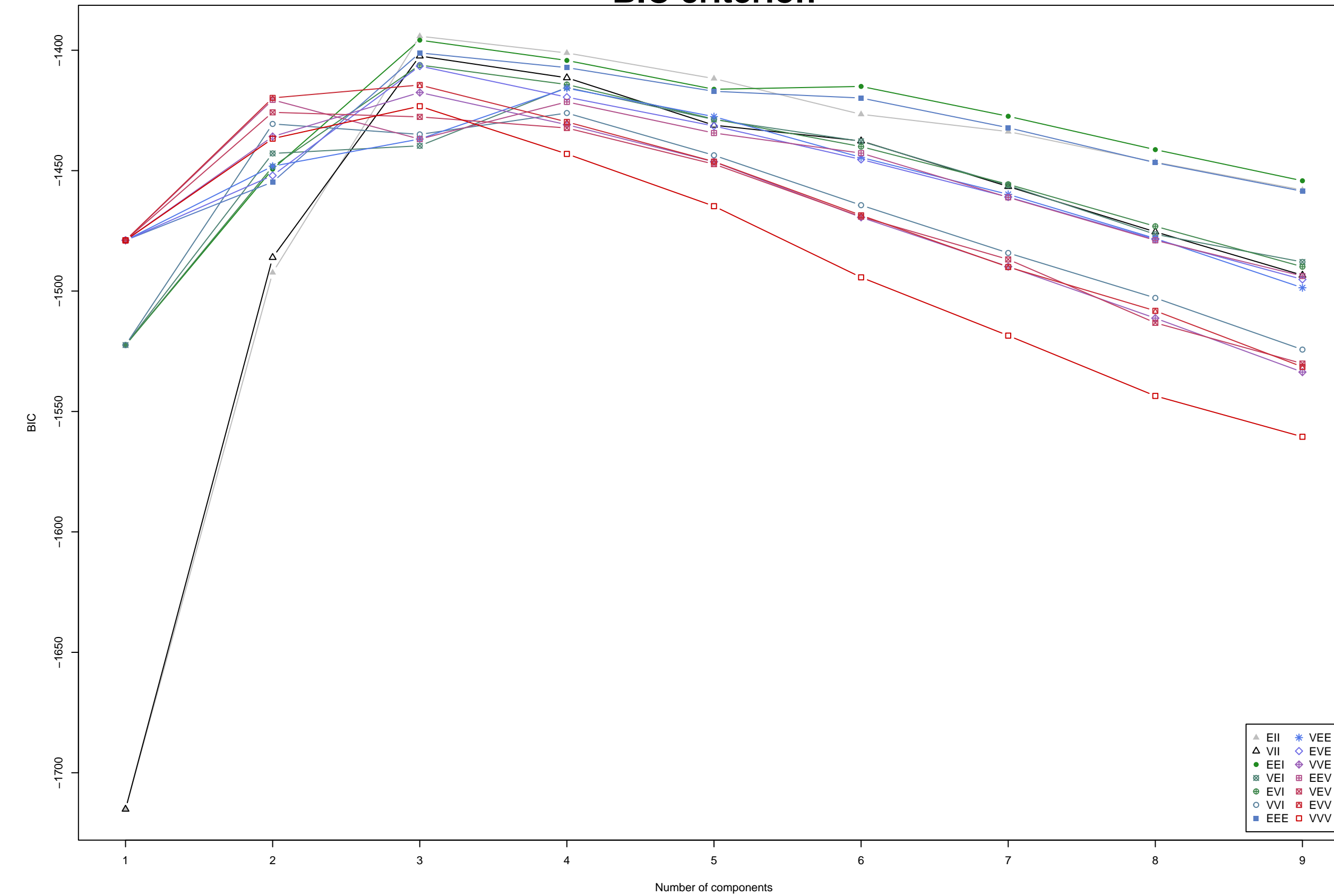


Clustering: UMAP  
n = 40 | dist = 0.4

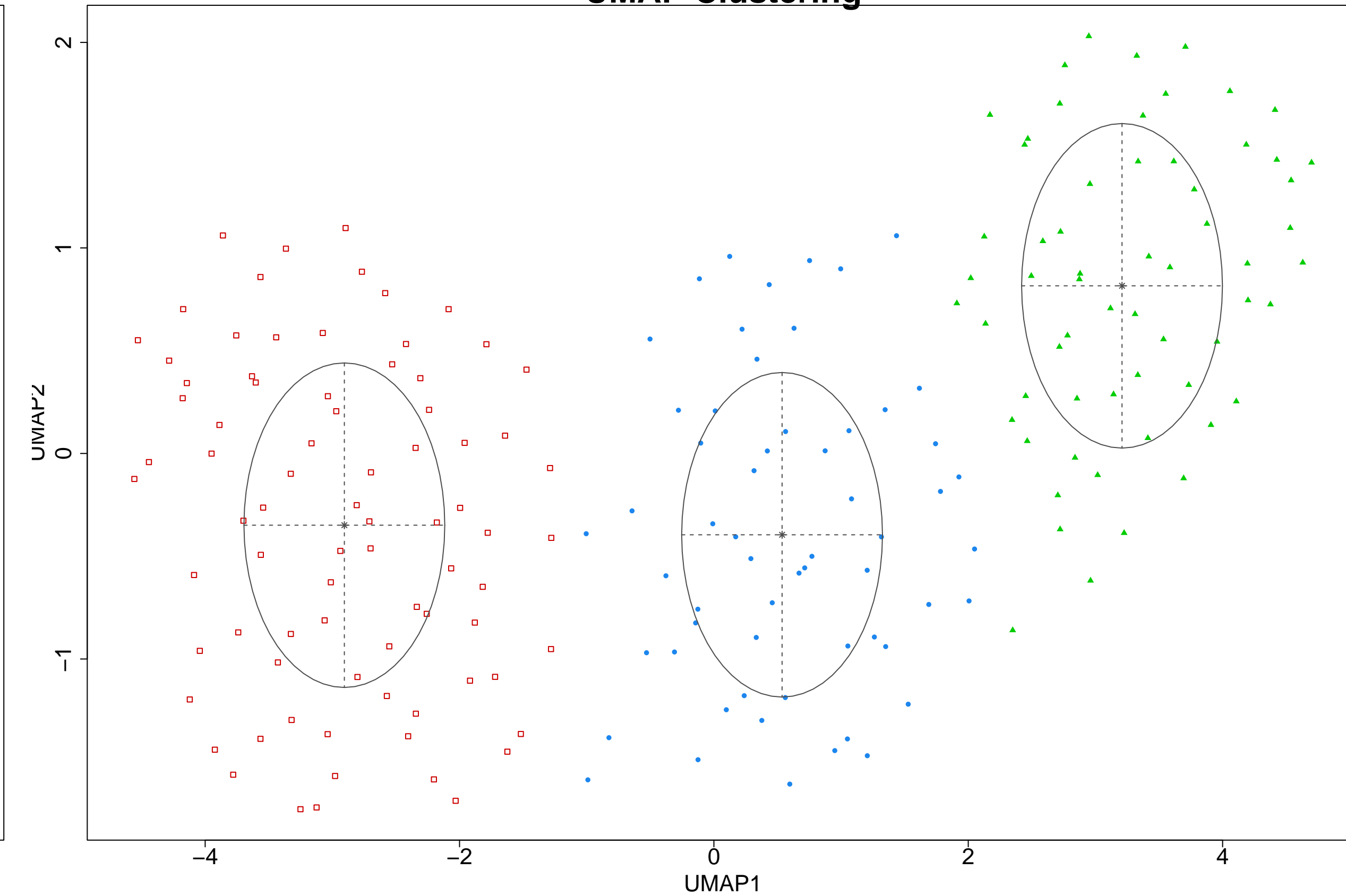
UMAP1 vs UMAP2



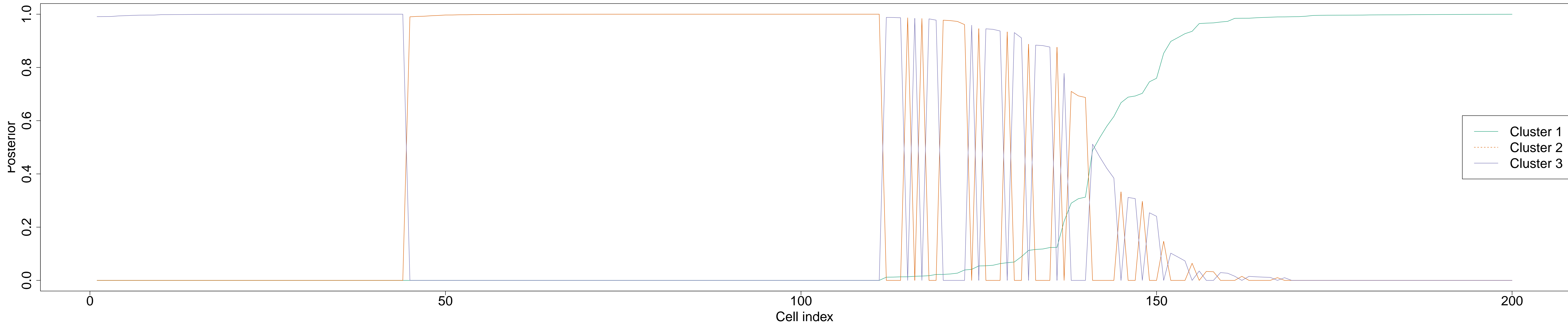
BIC criterion

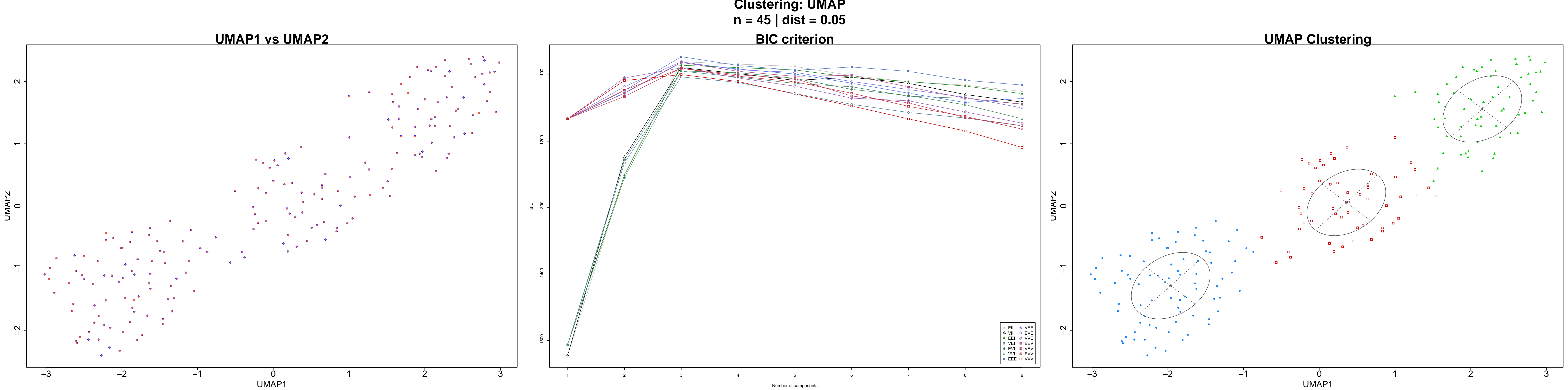


UMAP Clustering

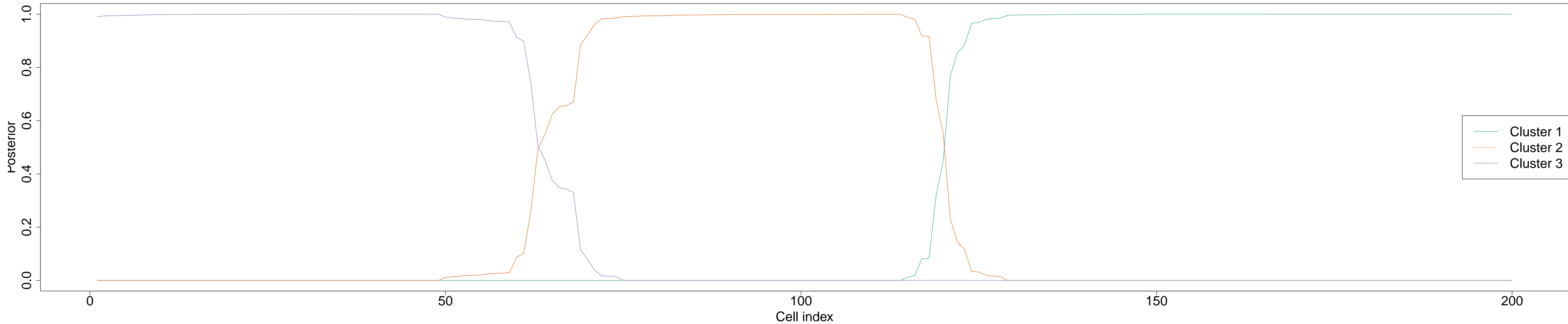


# UMAP Trajectory plot



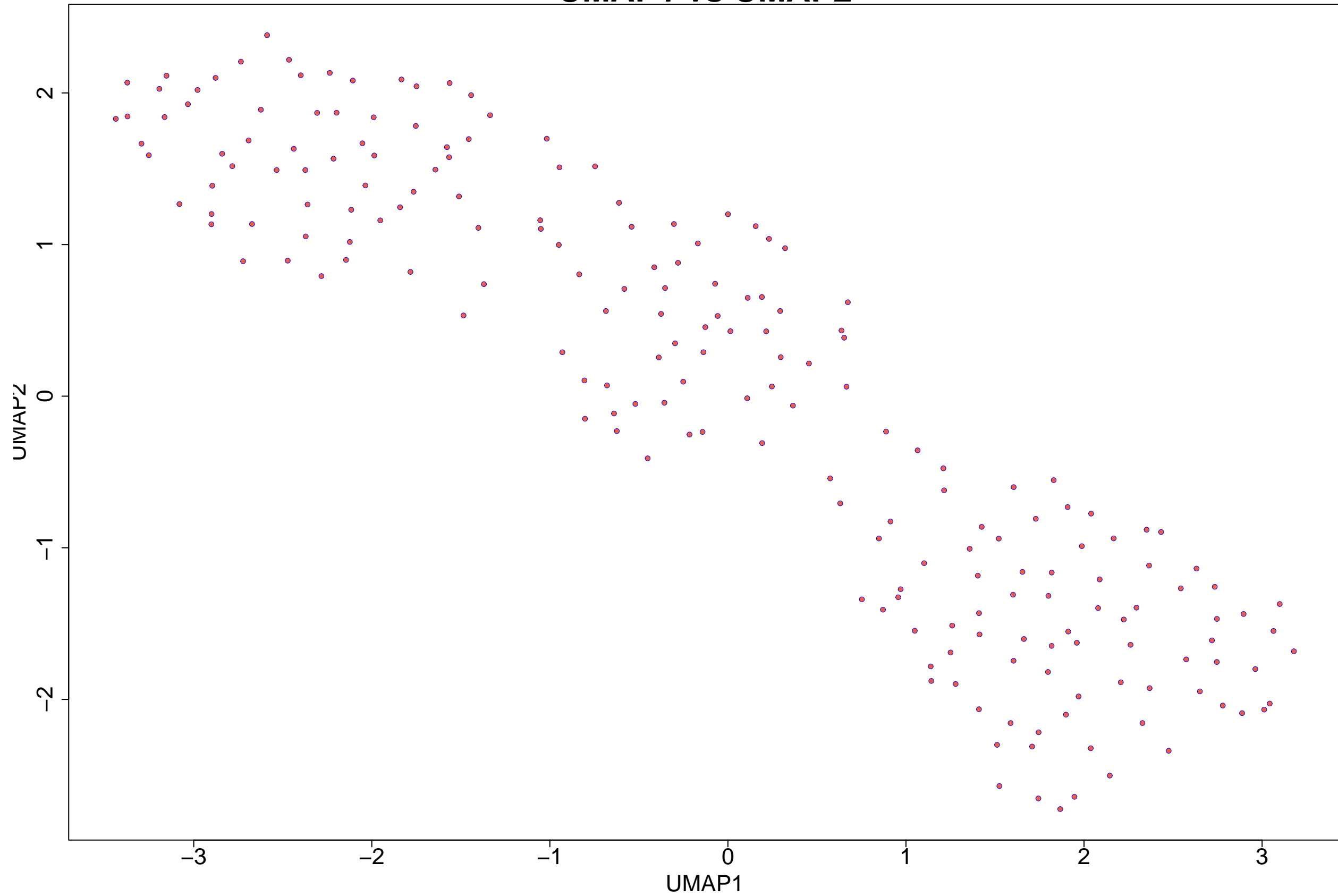


# UMAP Trajectory plot

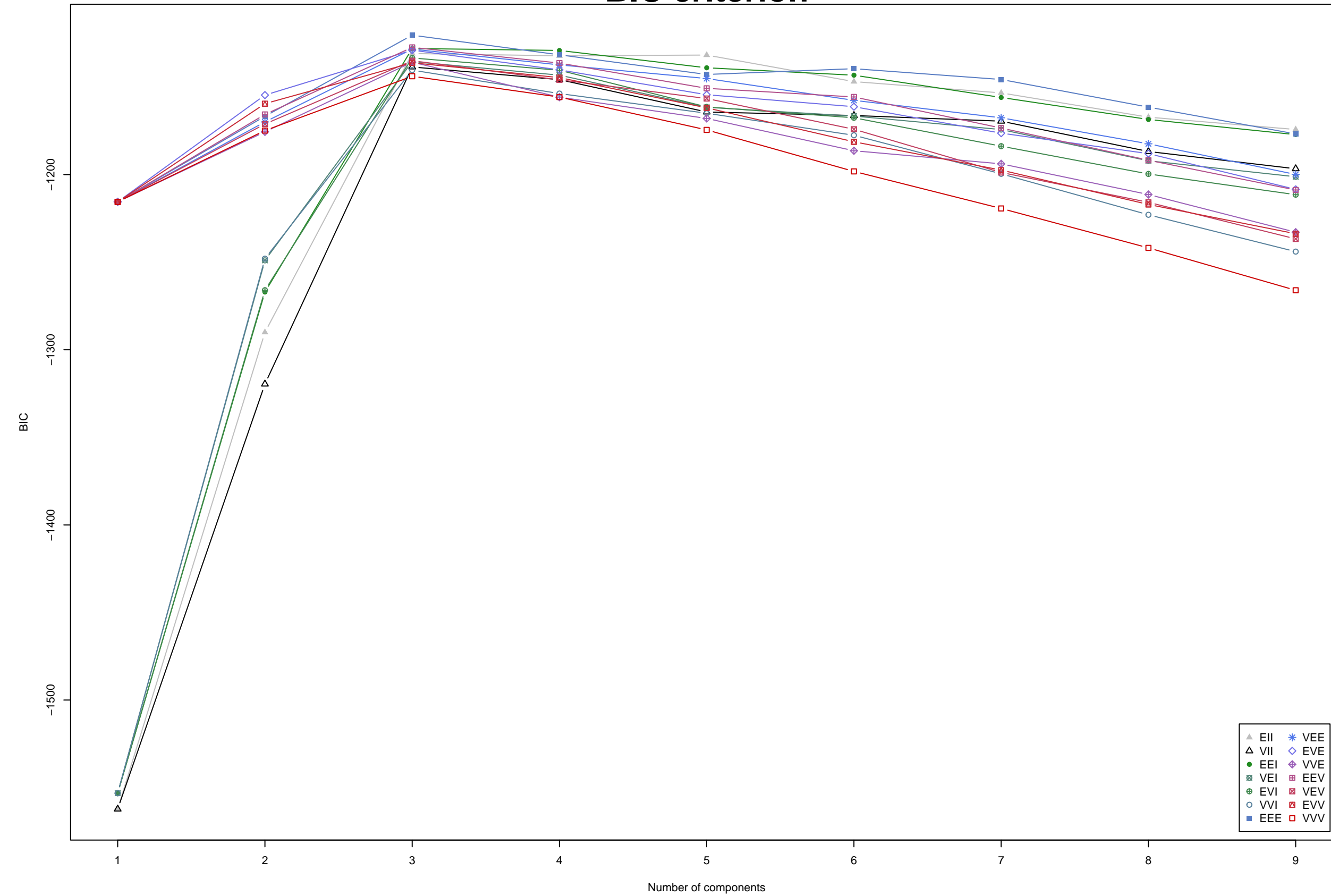


Clustering: UMAP  
n = 45 | dist = 0.1

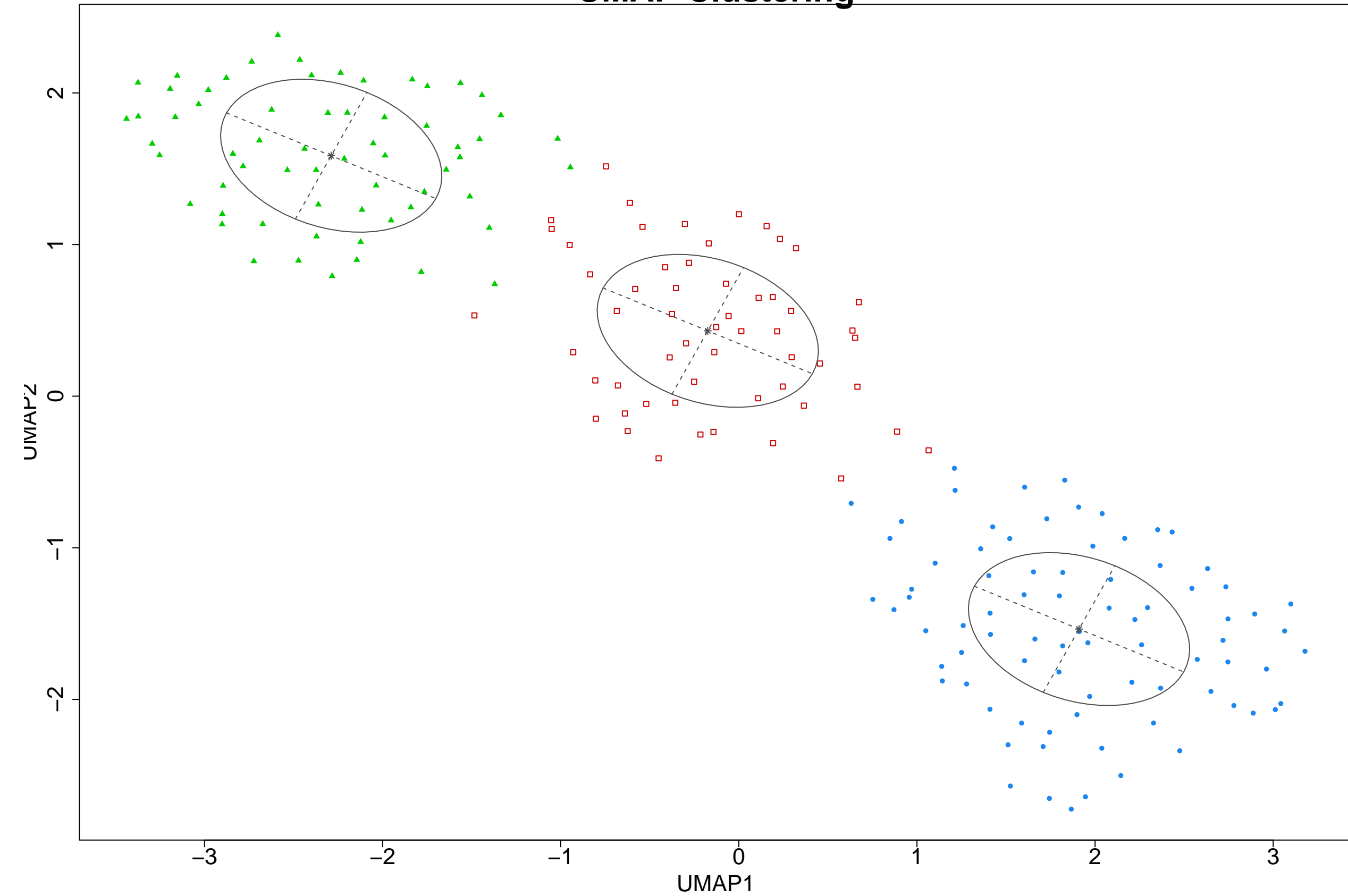
UMAP1 vs UMAP2



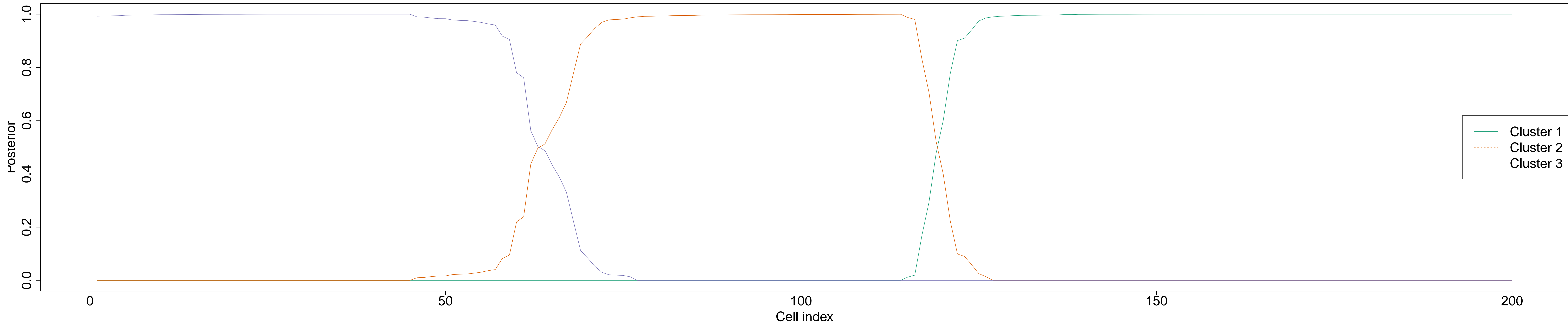
BIC criterion



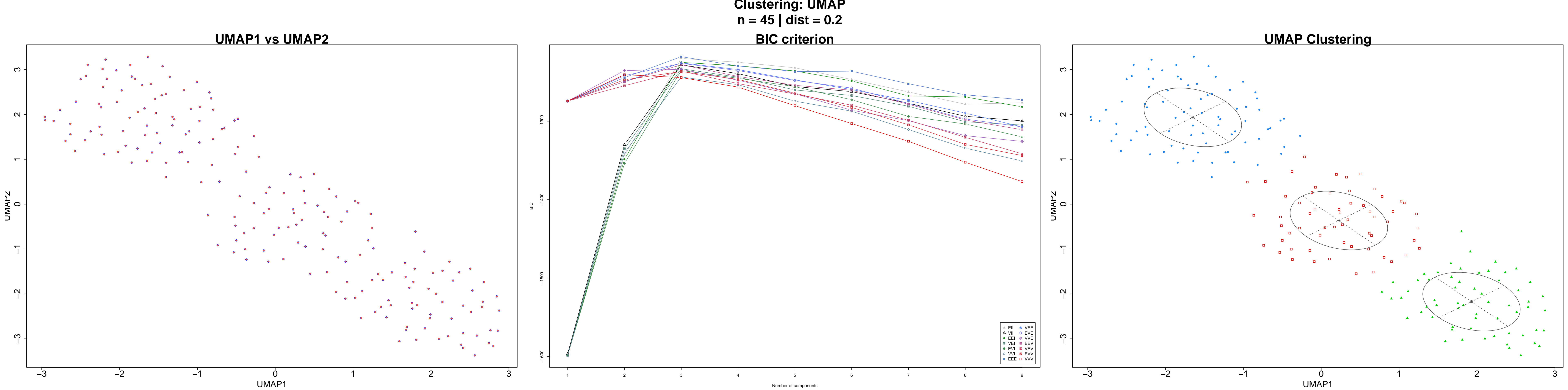
UMAP Clustering



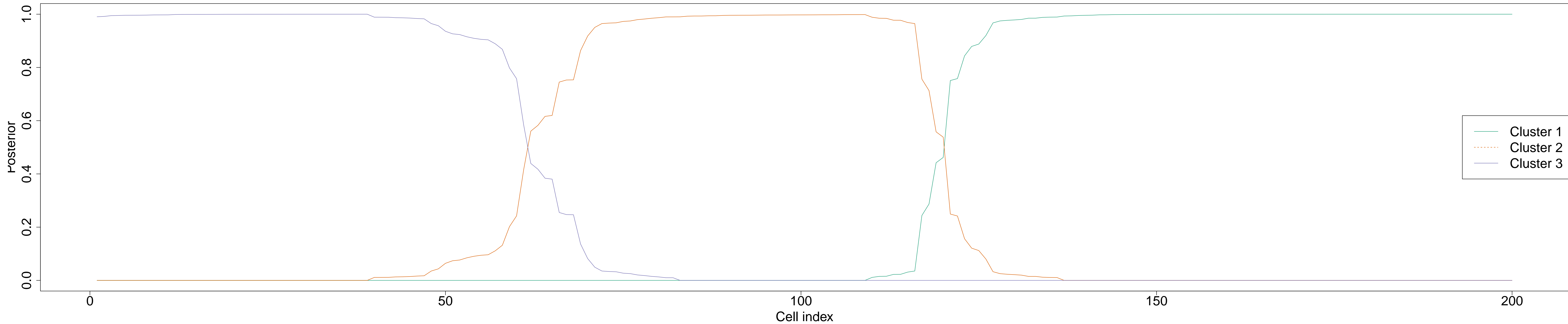
UMAP Trajectory plot

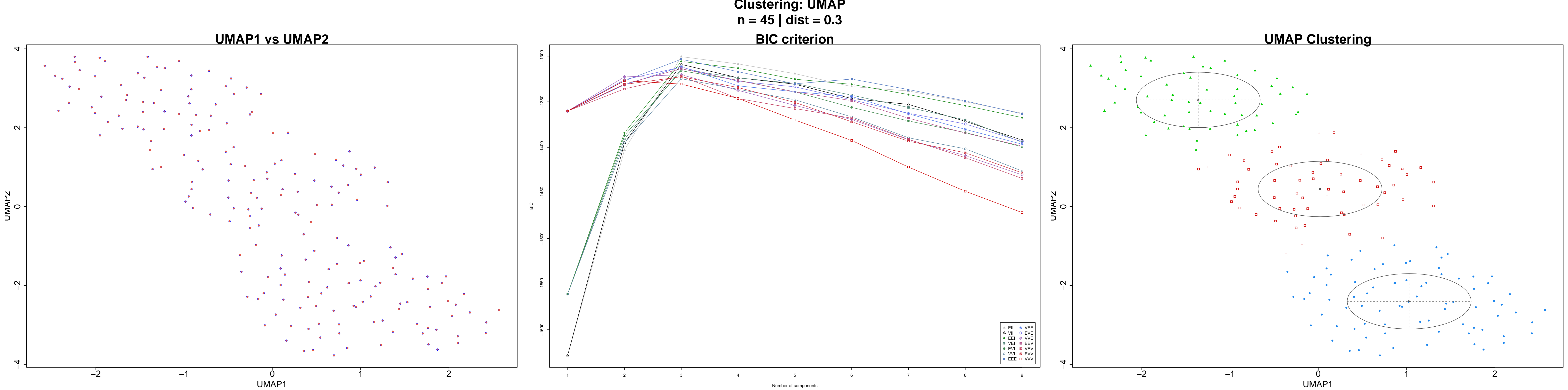




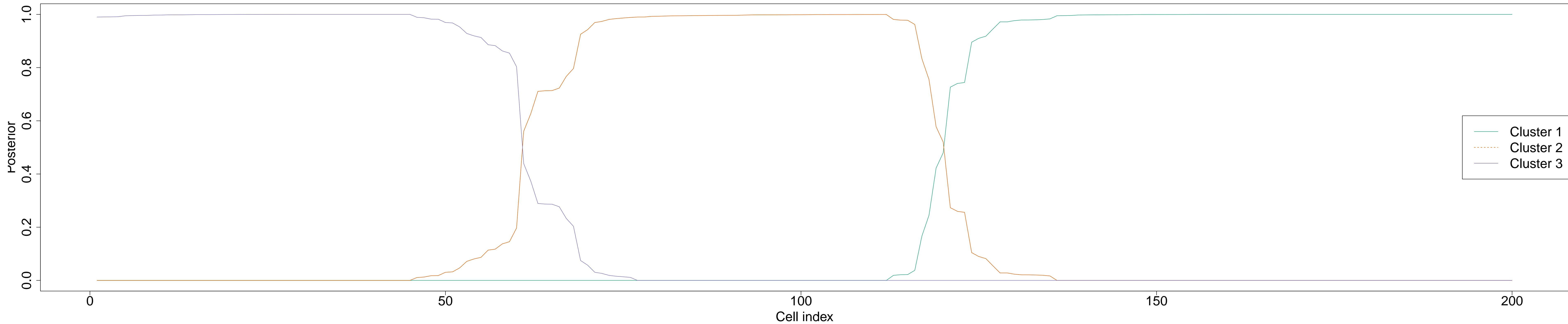


# UMAP Trajectory plot



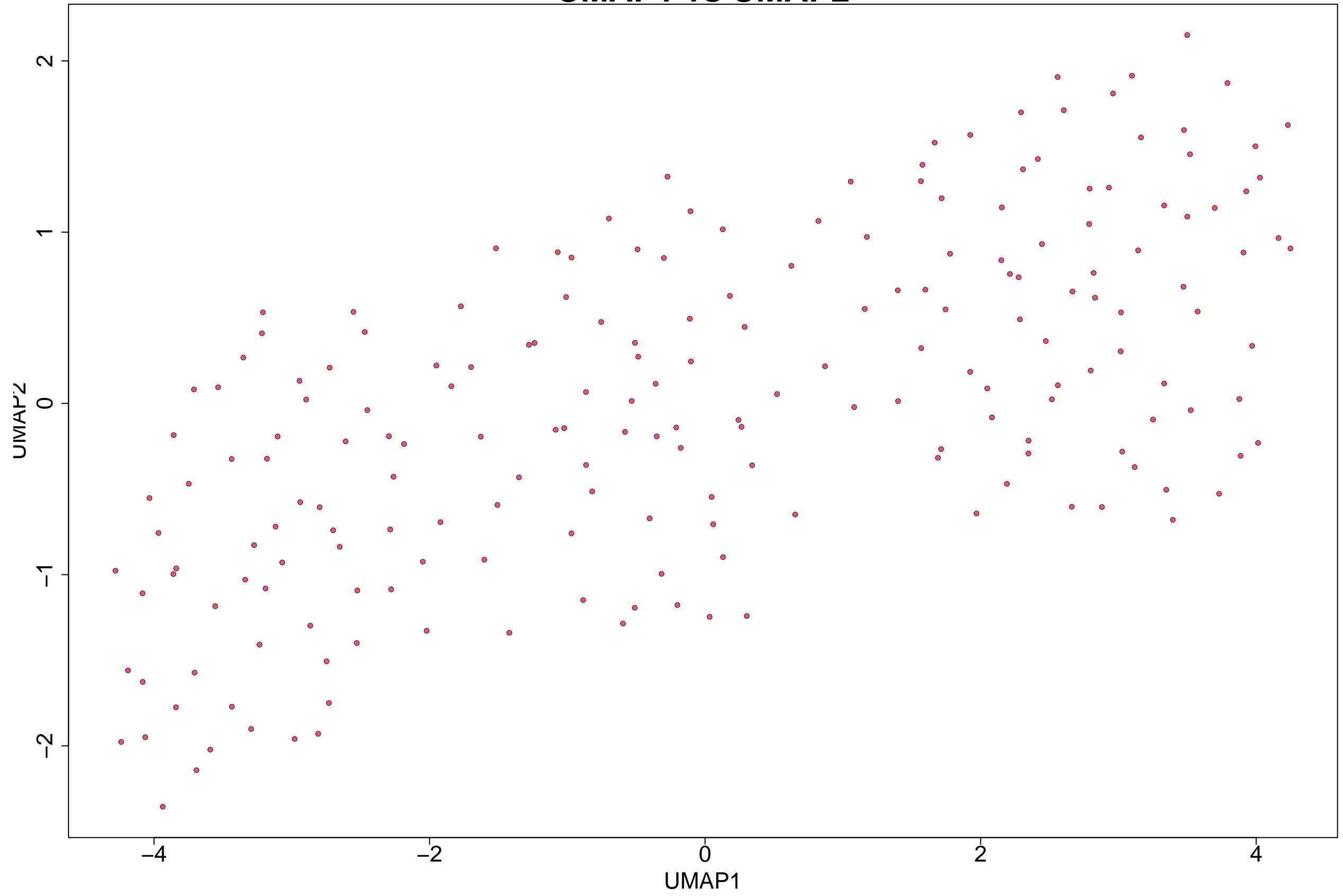


# UMAP Trajectory plot

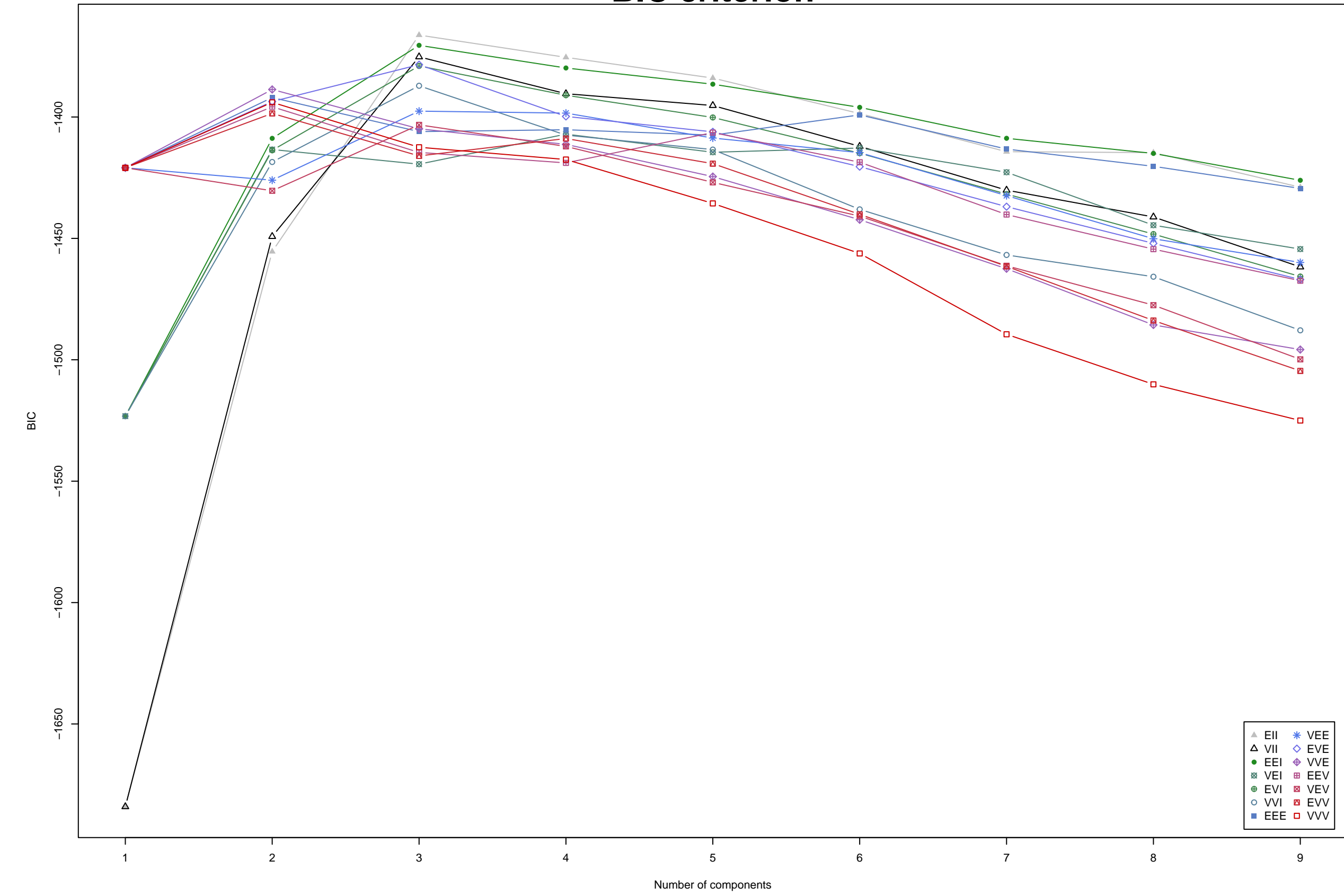


Clustering: UMAP  
n = 45 | dist = 0.4

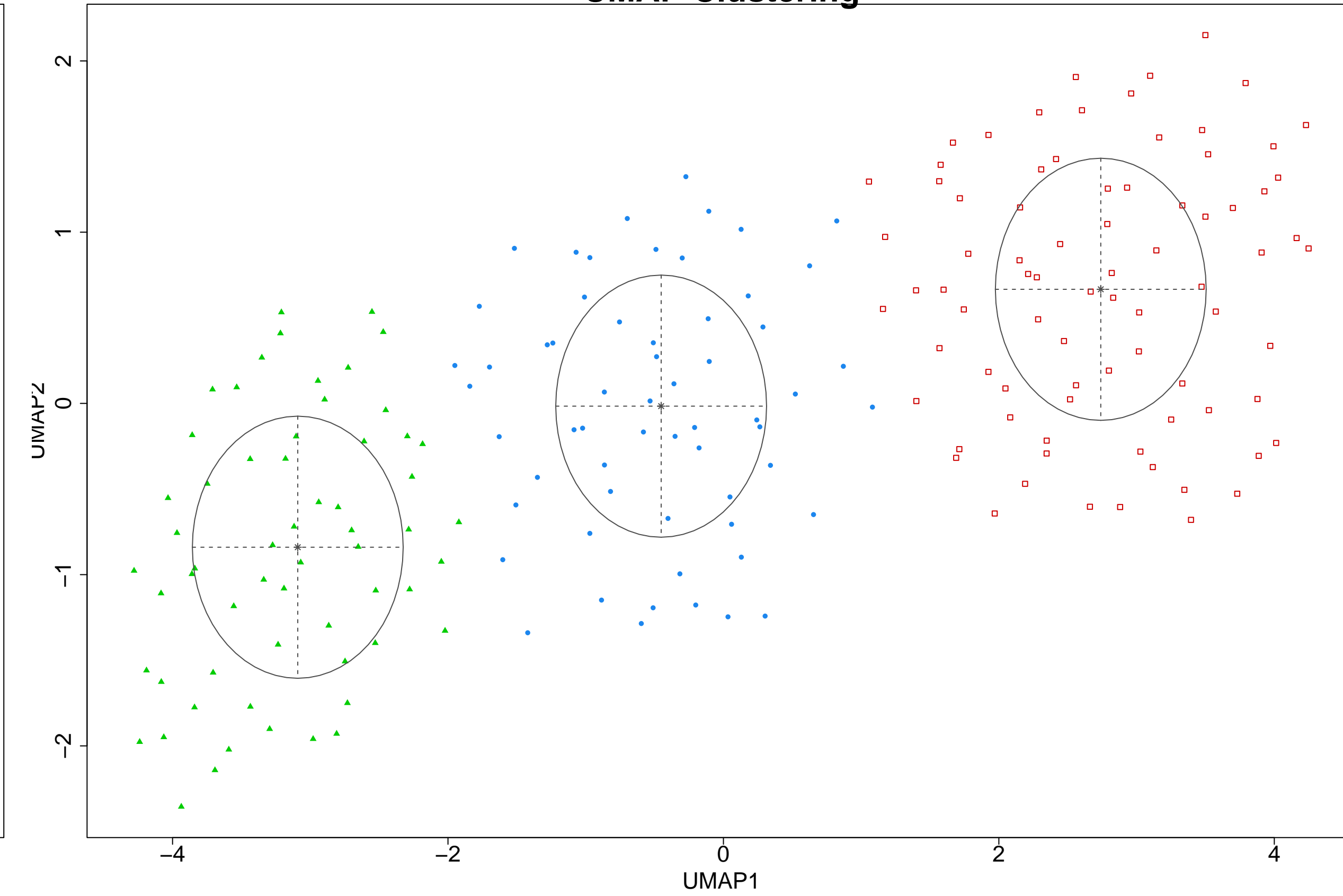
UMAP1 vs UMAP2



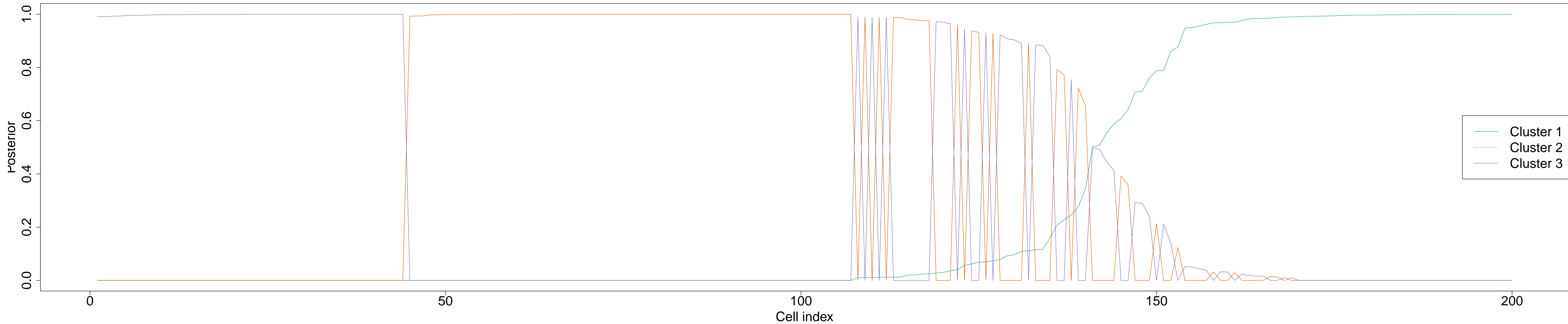
BIC criterion

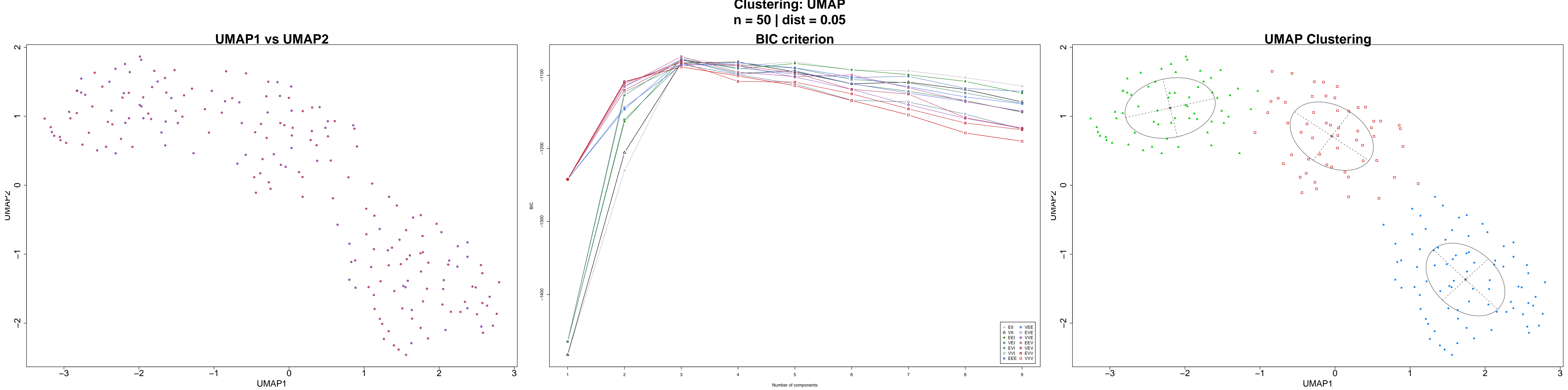


UMAP Clustering

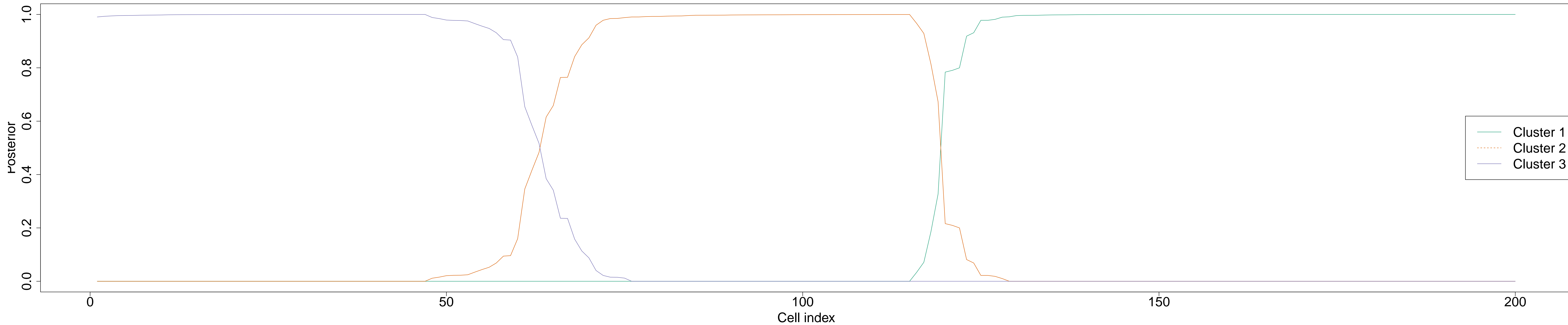


# UMAP Trajectory plot

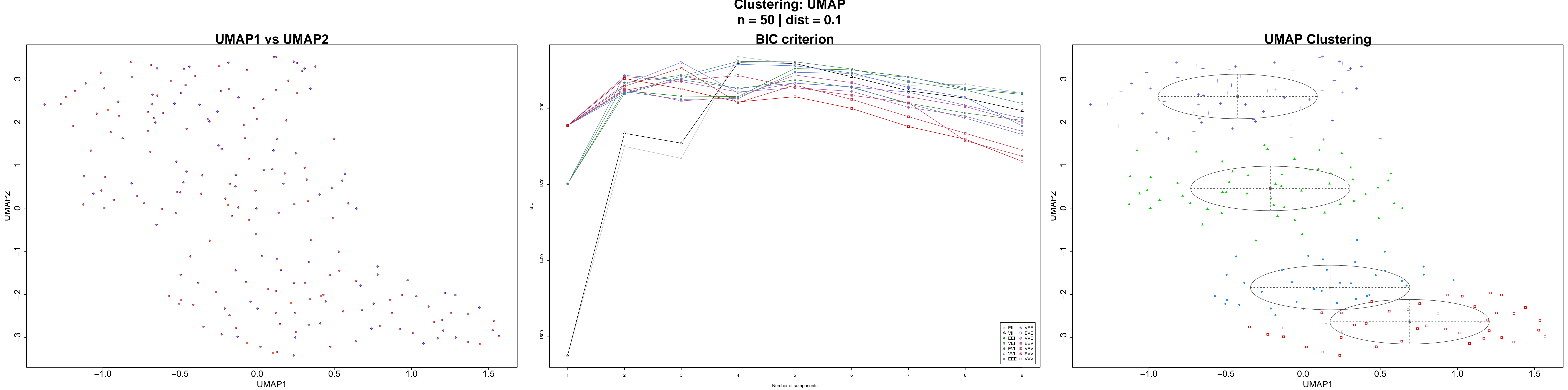




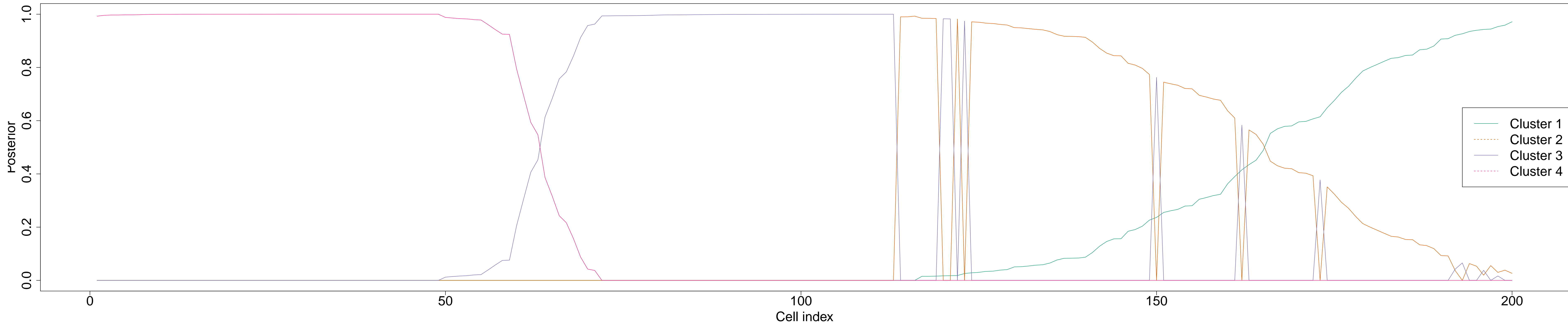
UMAP Trajectory plot

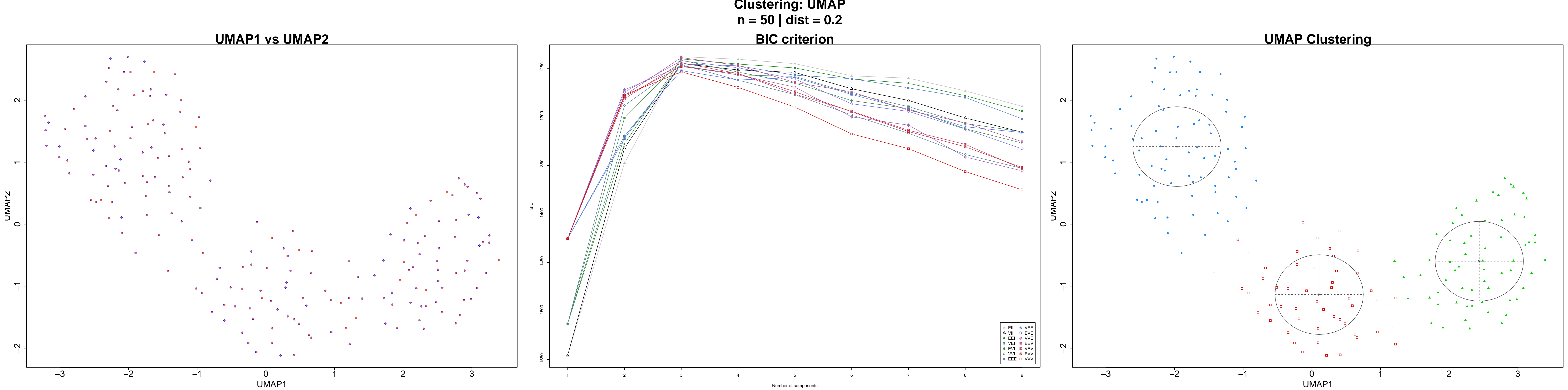




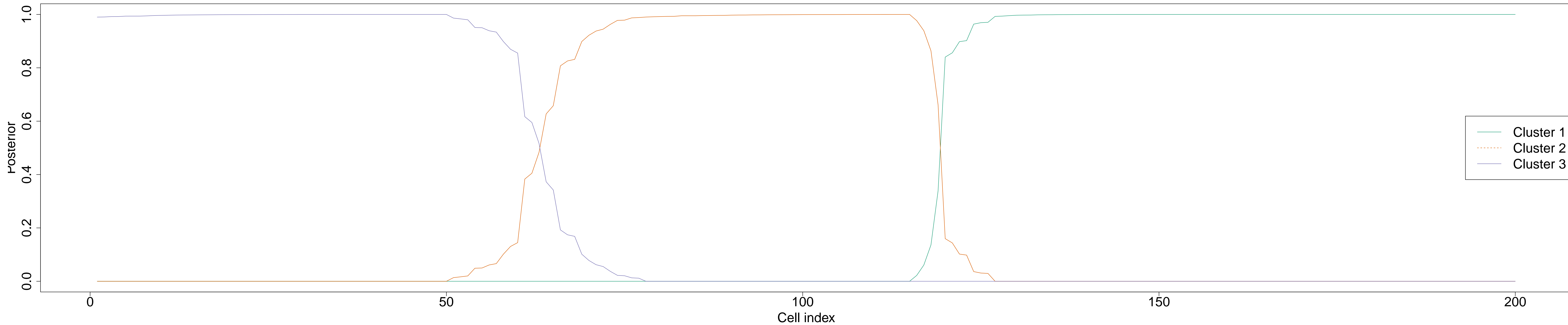


# UMAP Trajectory plot

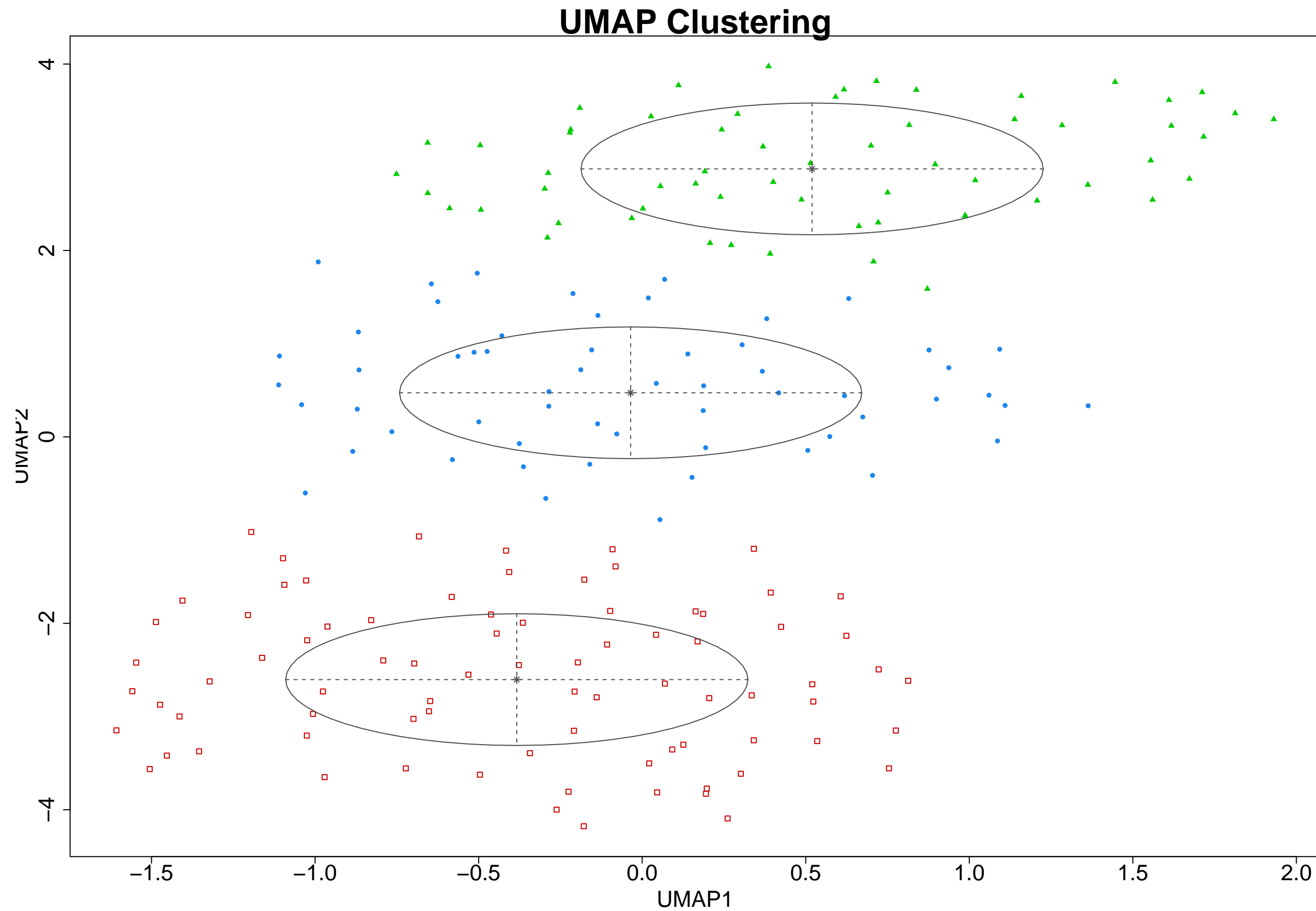
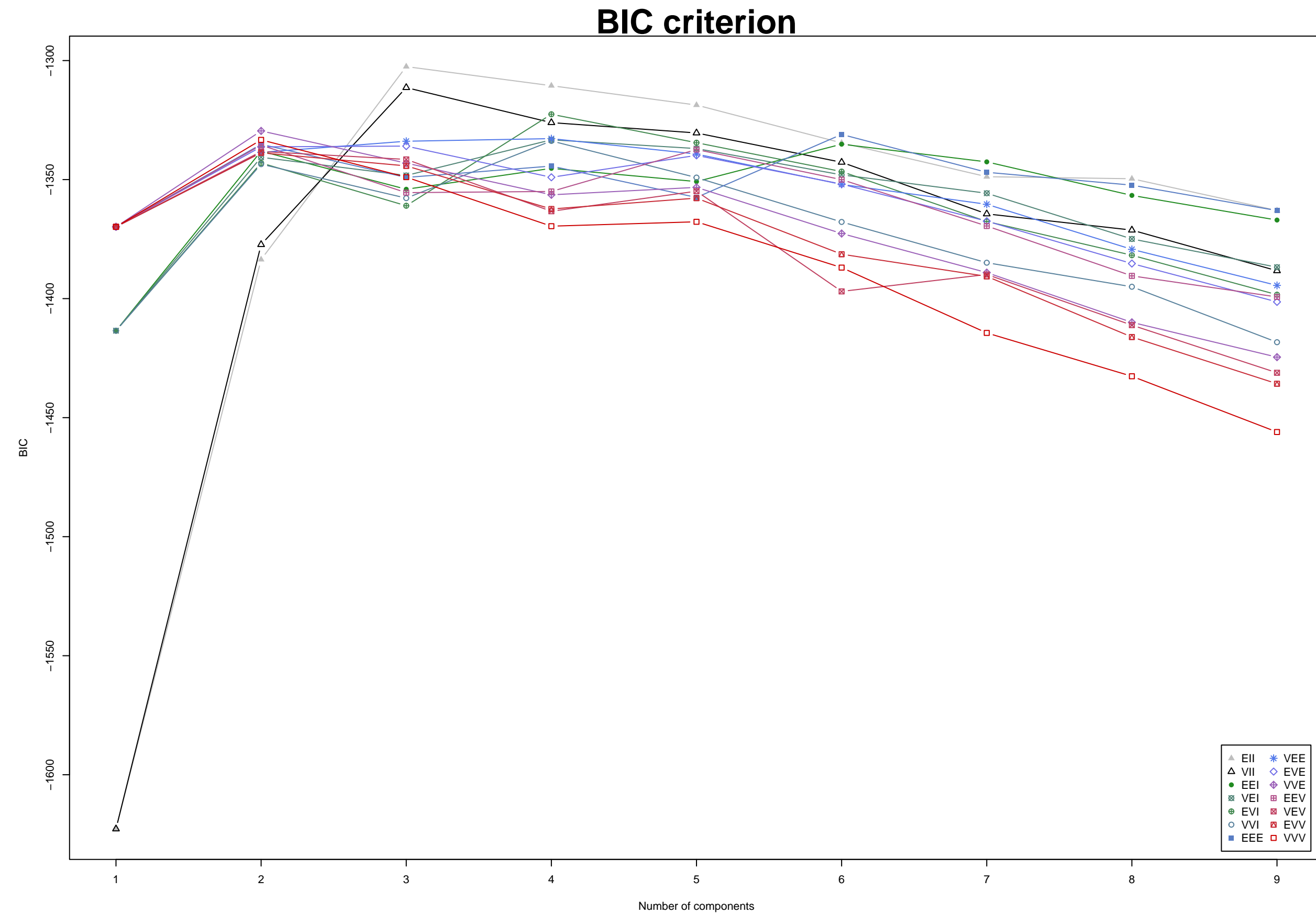
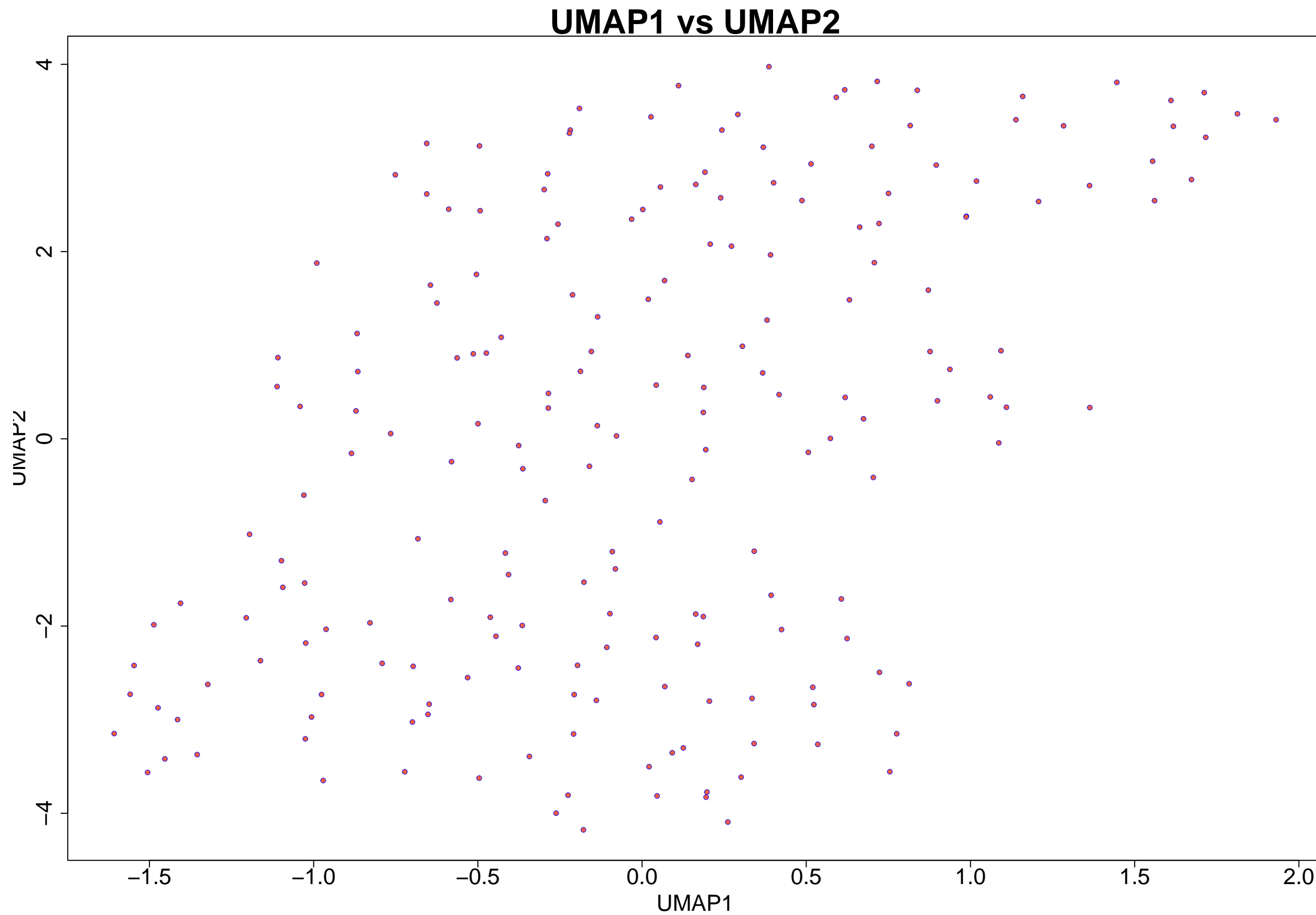




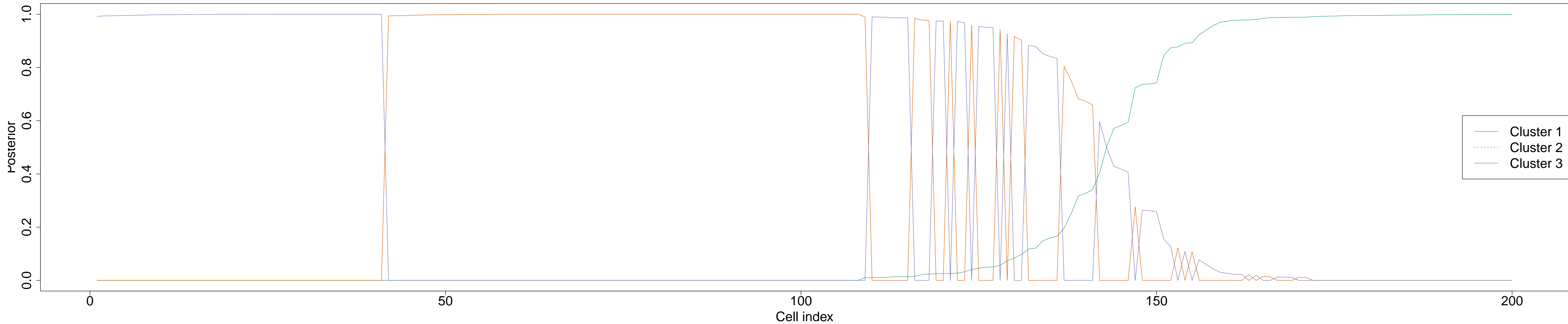
UMAP Trajectory plot



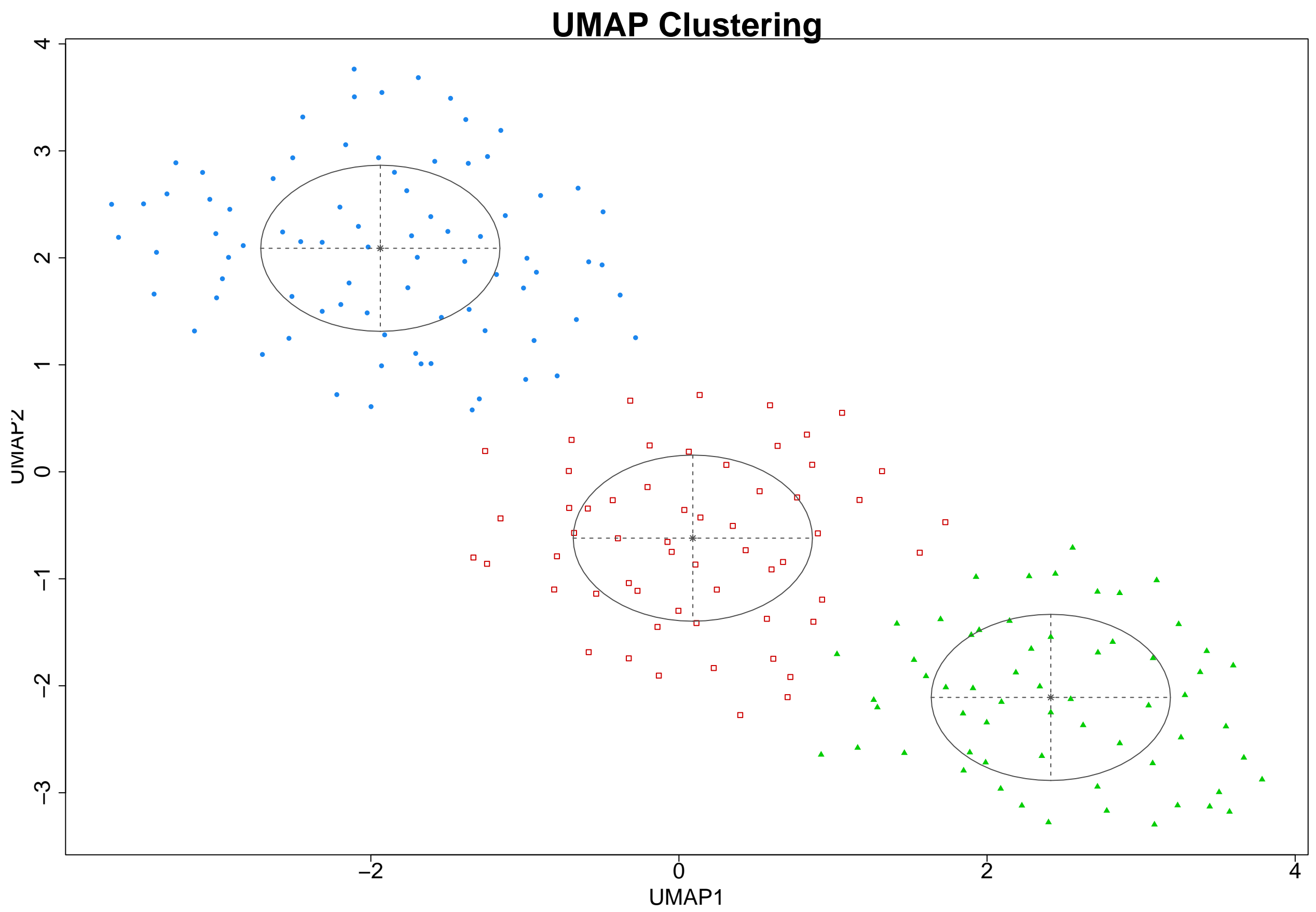
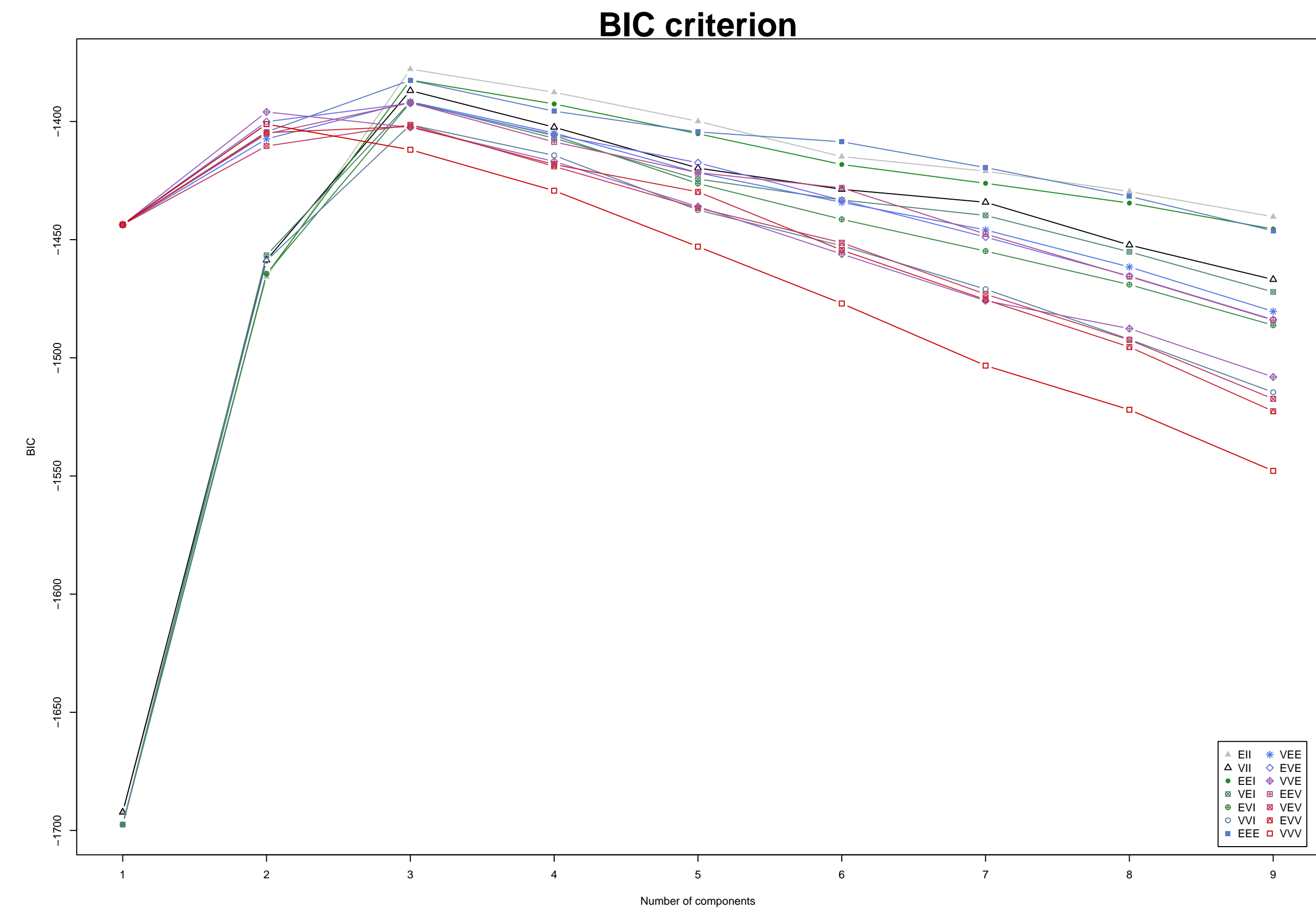
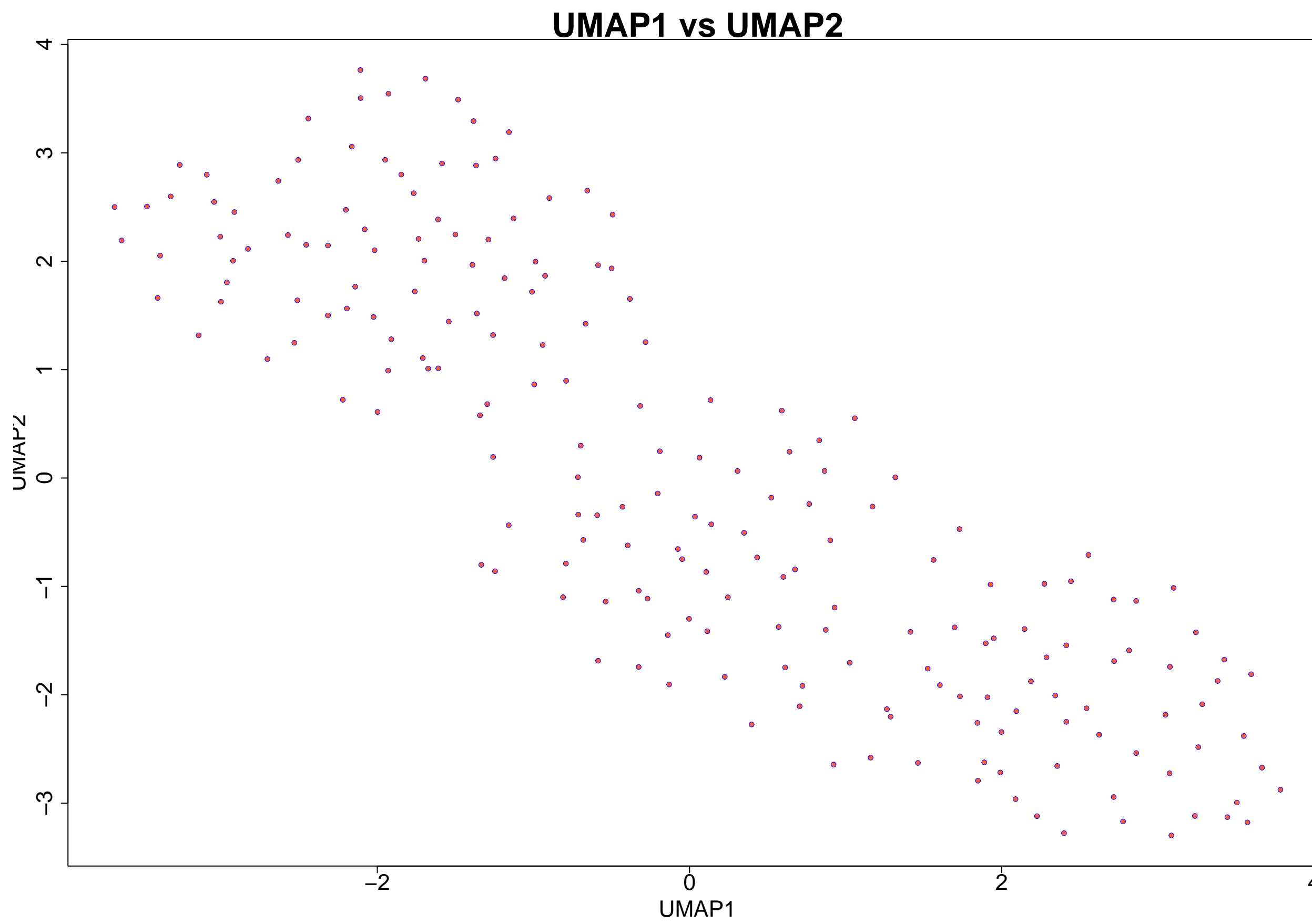
Clustering: UMAP  
n = 50 | dist = 0.3



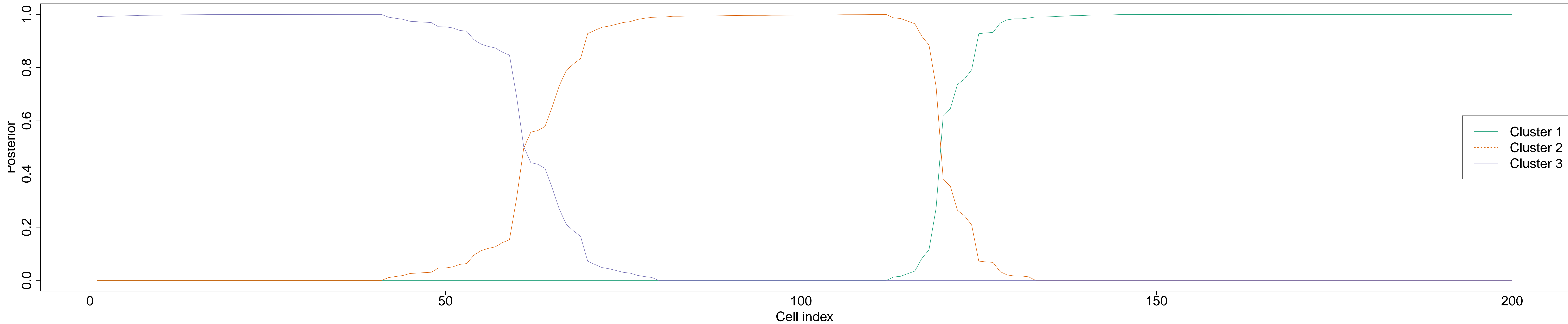
# UMAP Trajectory plot



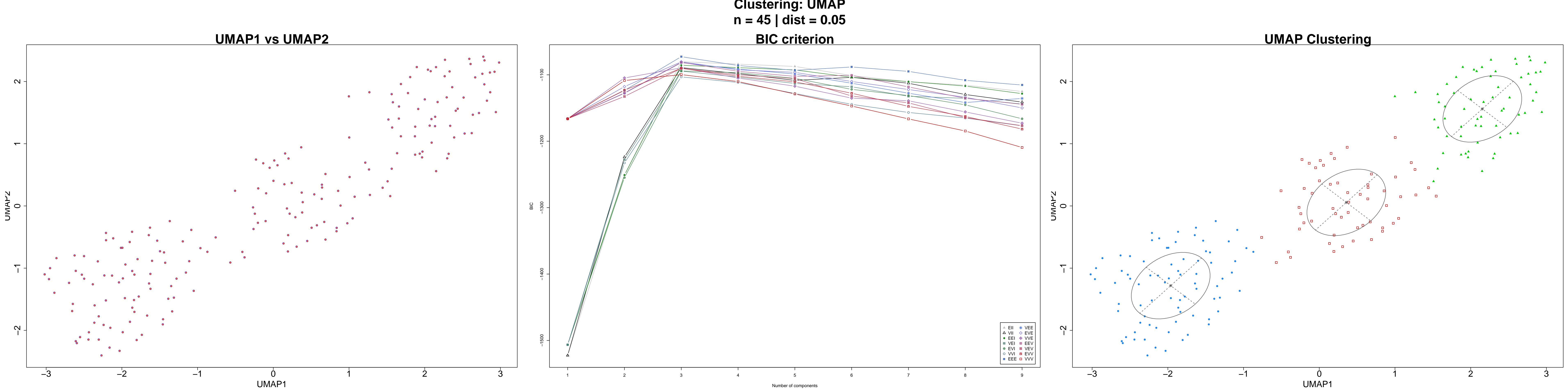
Clustering: UMAP  
n = 50 | dist = 0.4



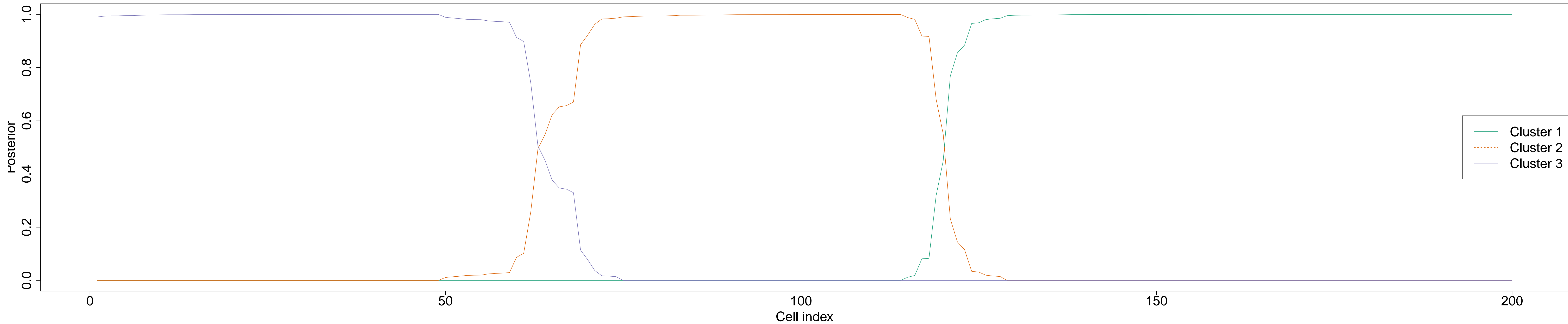
UMAP Trajectory plot

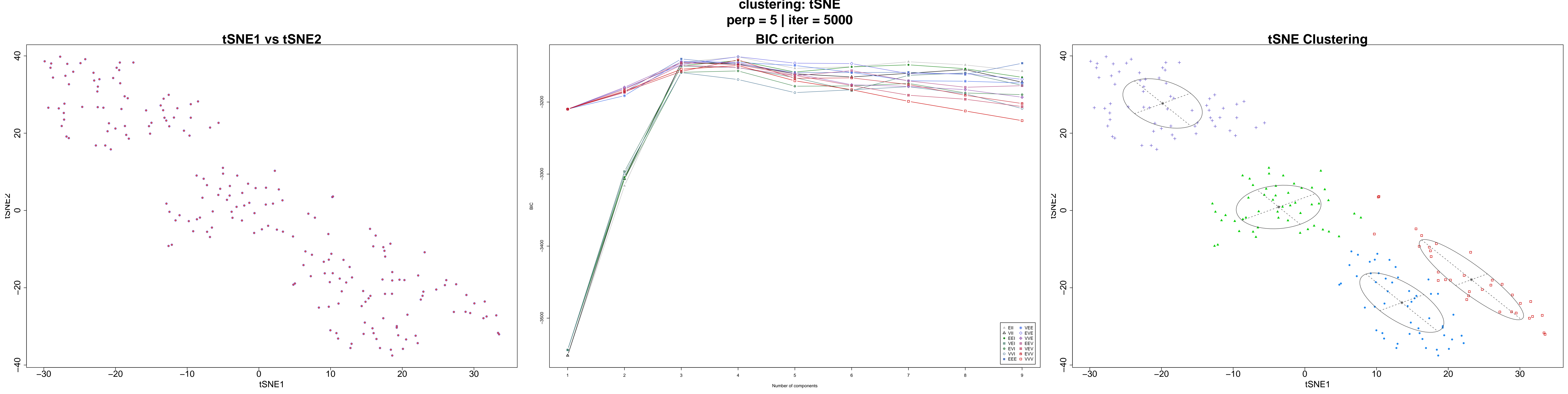




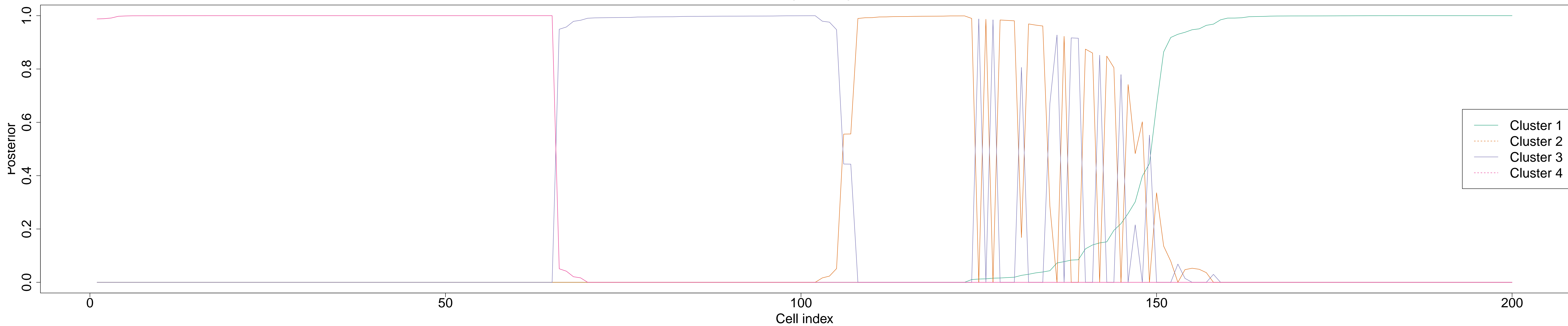


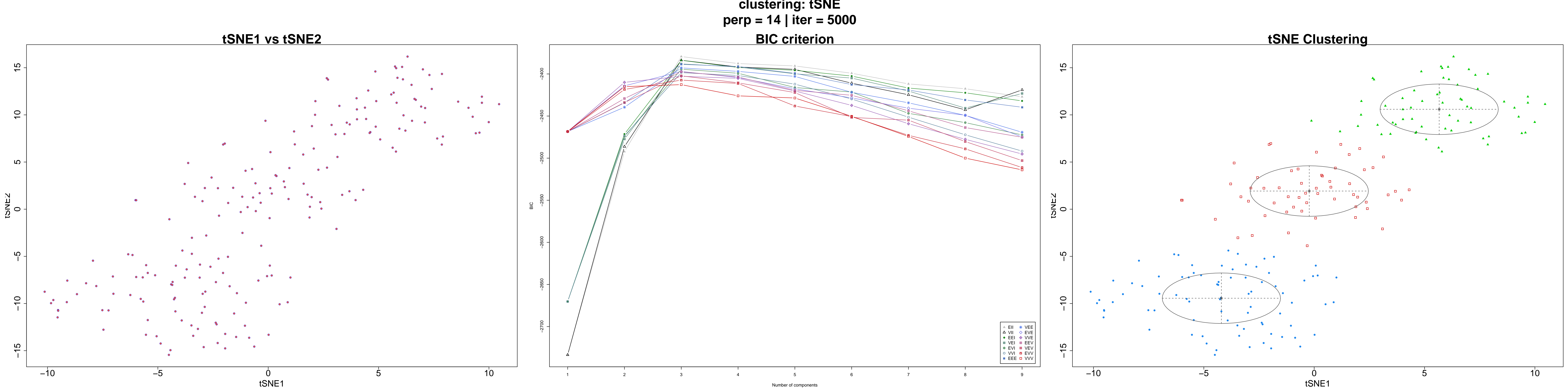
**UMAP Trajectory plot**



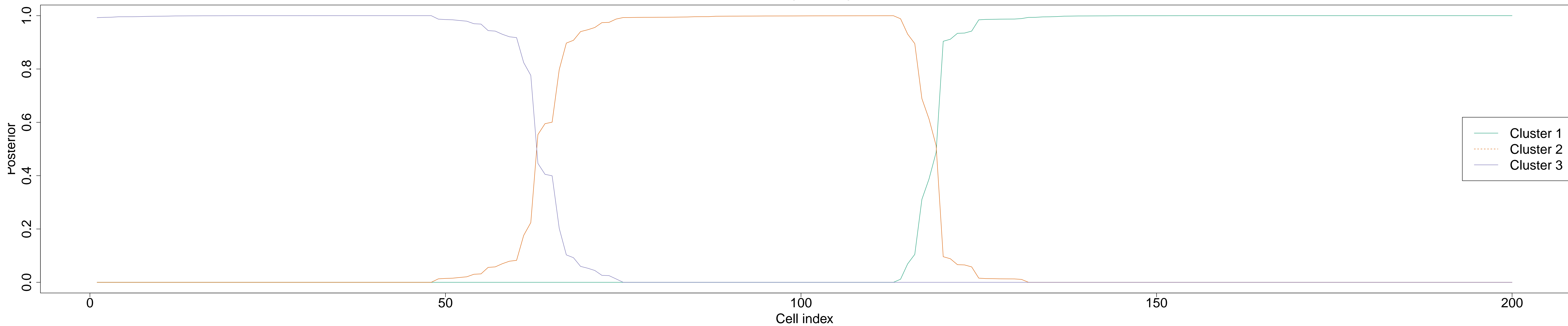


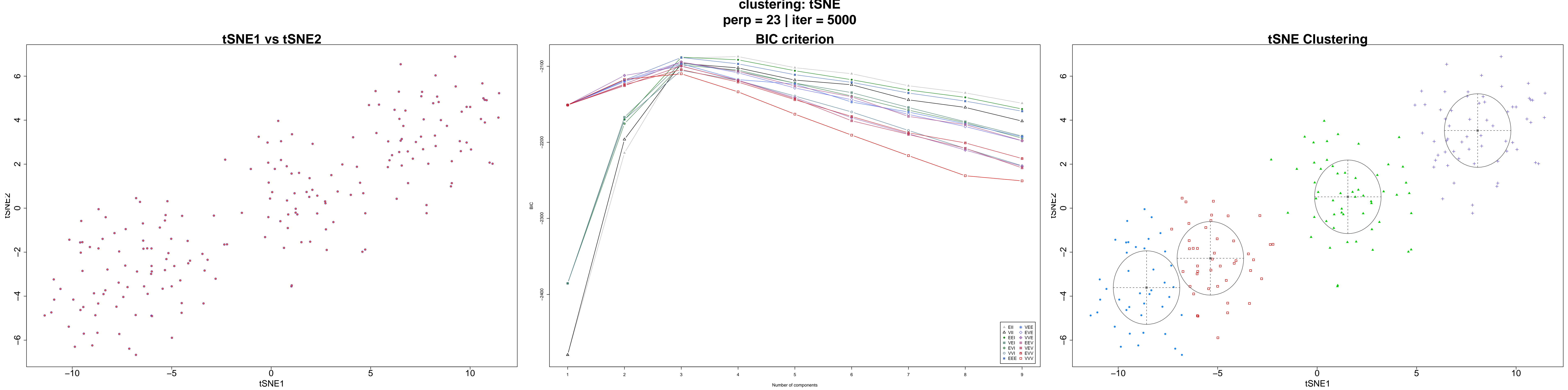
**tSNE Trajectory plot**



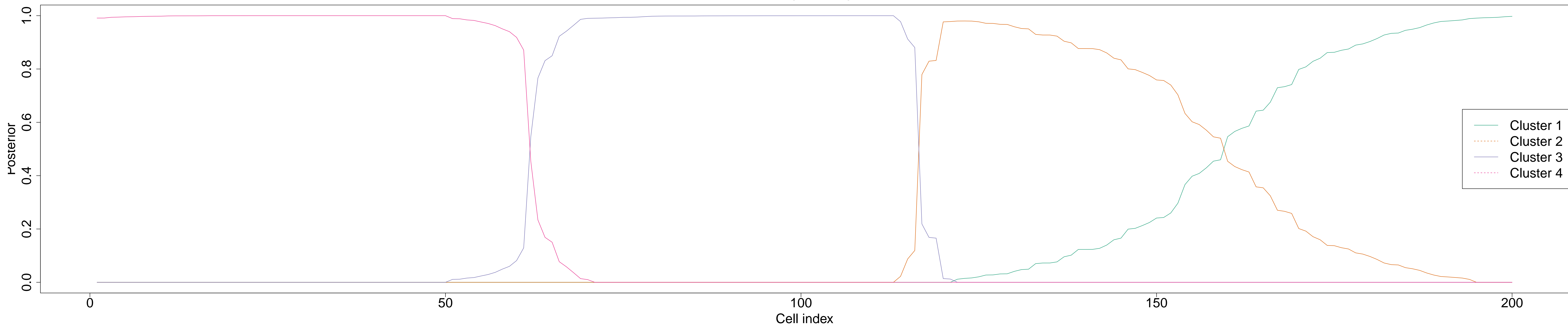


**tSNE Trajectory plot**

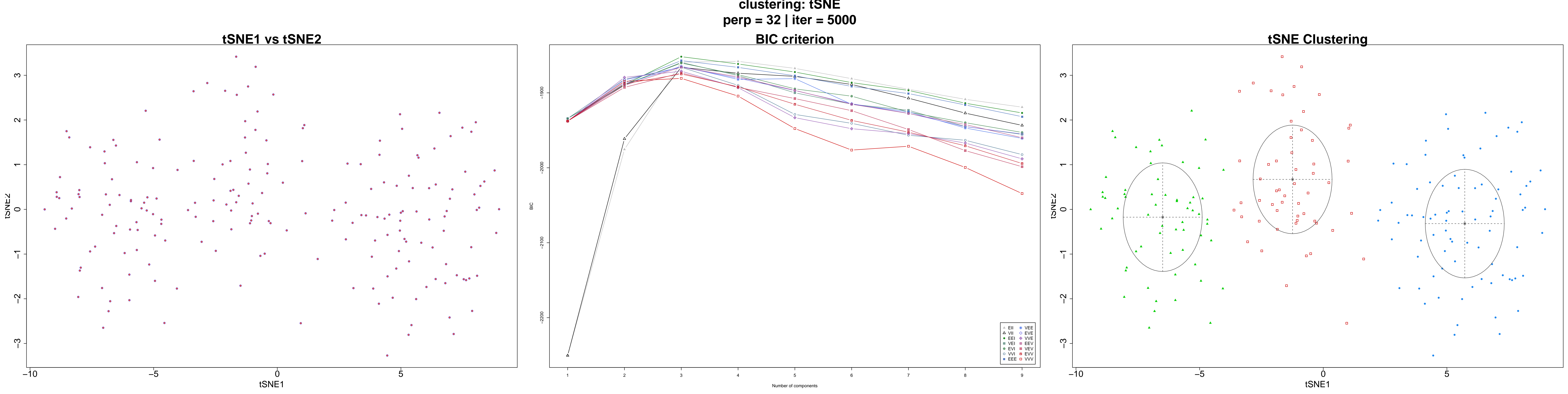




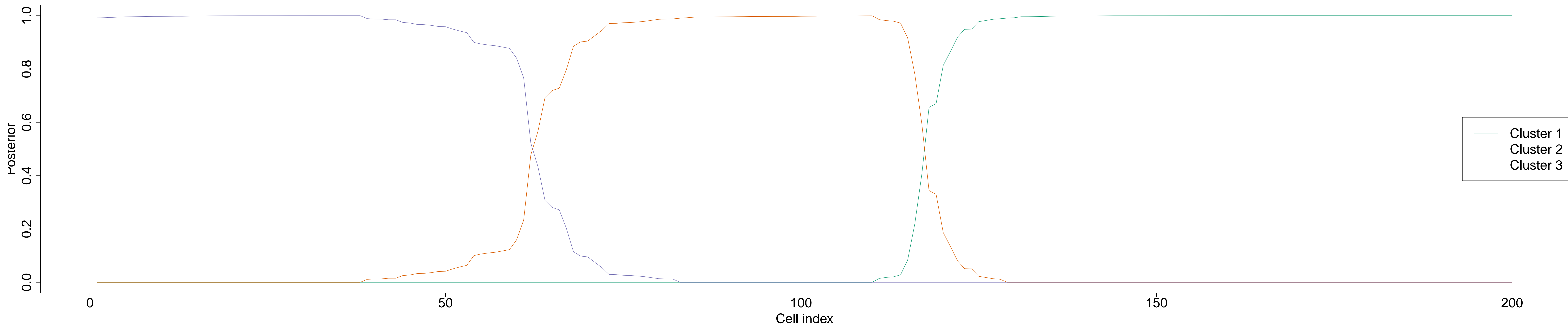
**tSNE Trajectory plot**

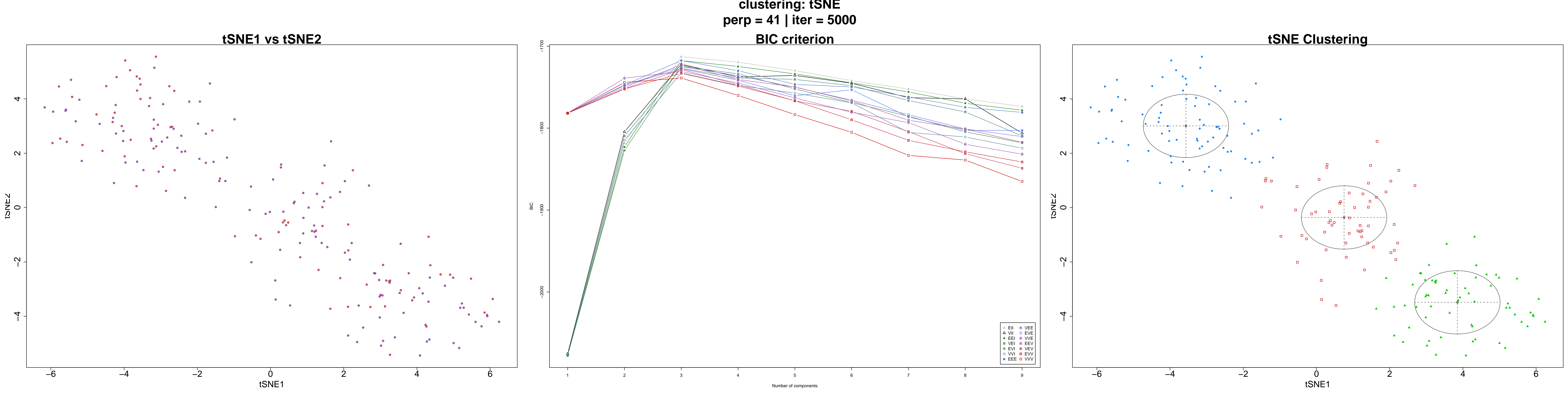




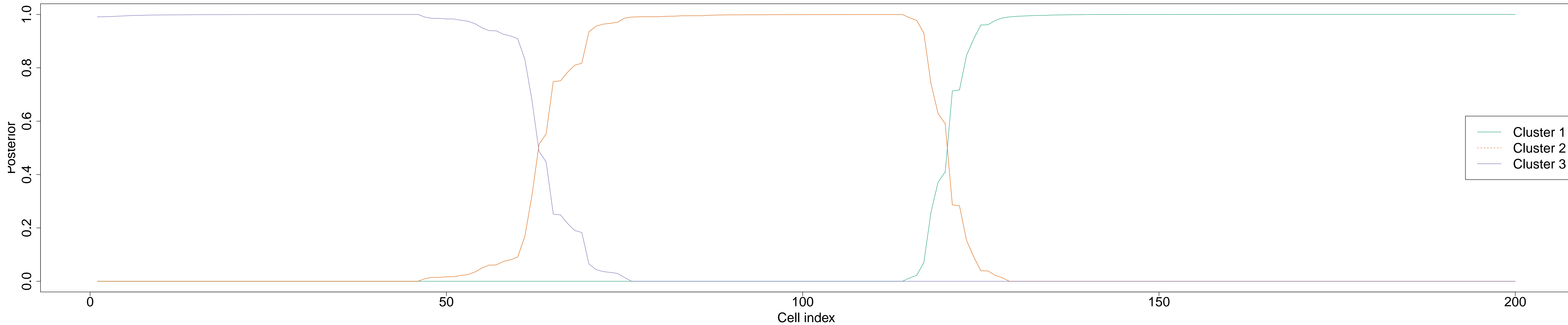


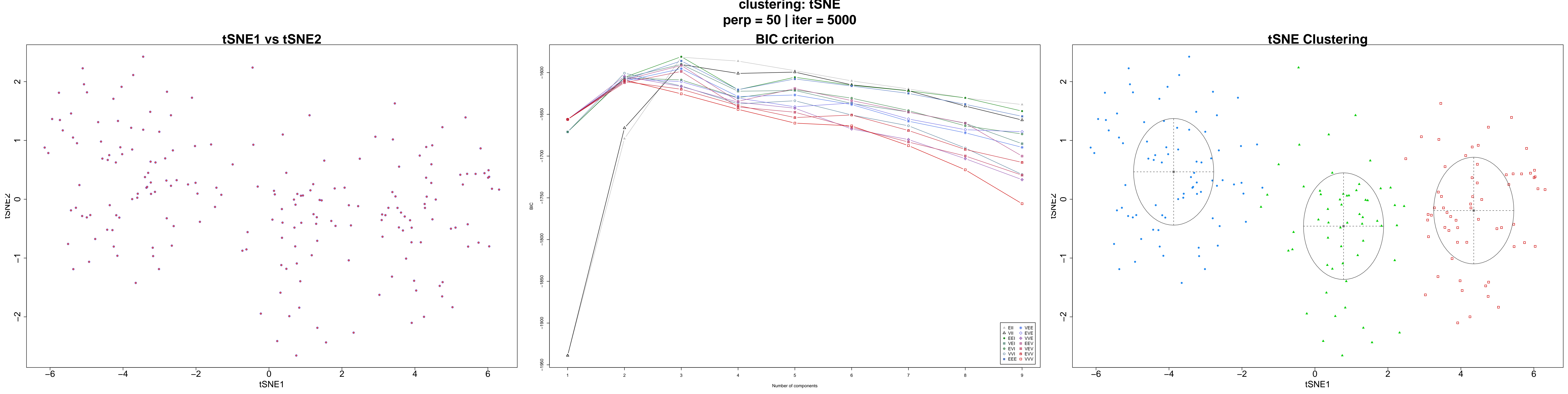
**tSNE Trajectory plot**



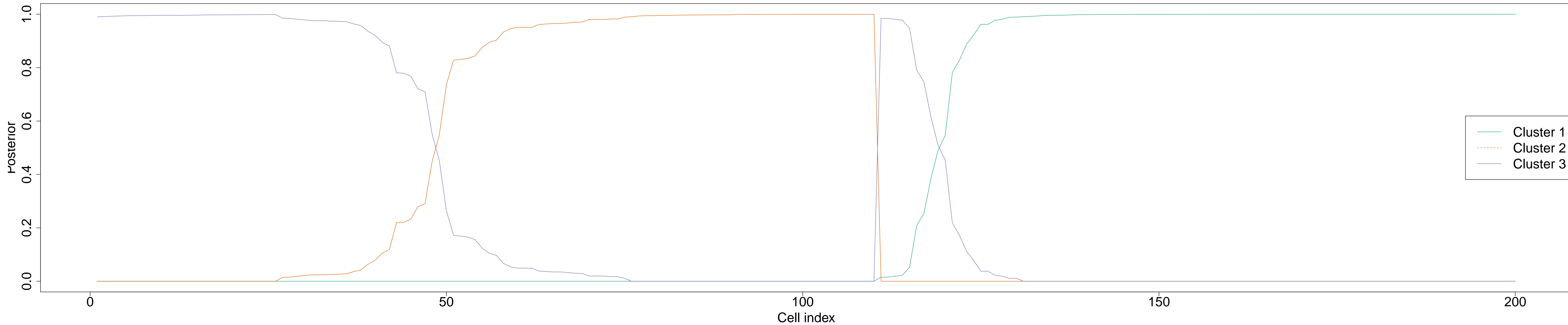


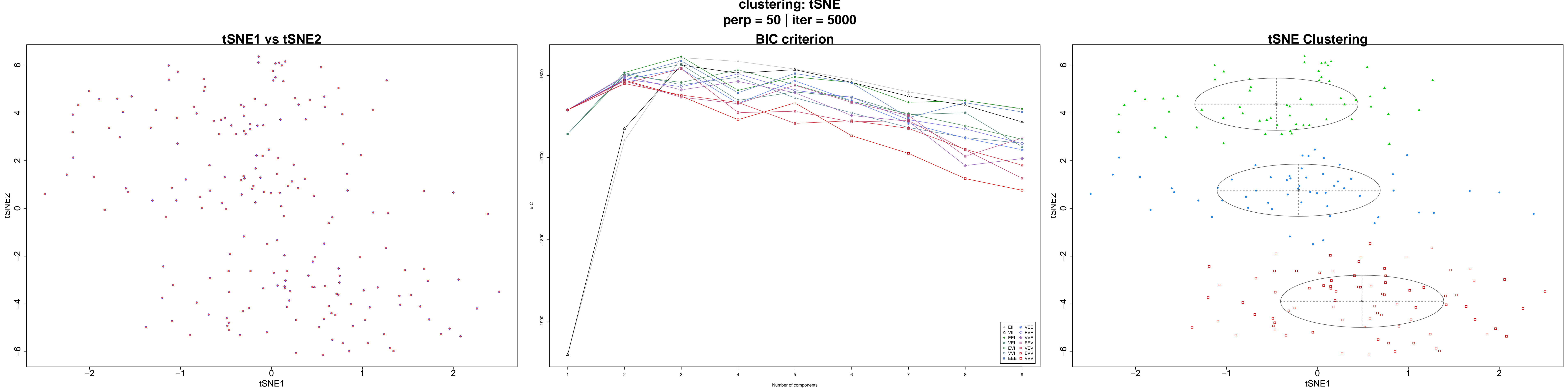
**tSNE Trajectory plot**





**tSNE Trajectory plot**





**tSNE Trajectory plot**

