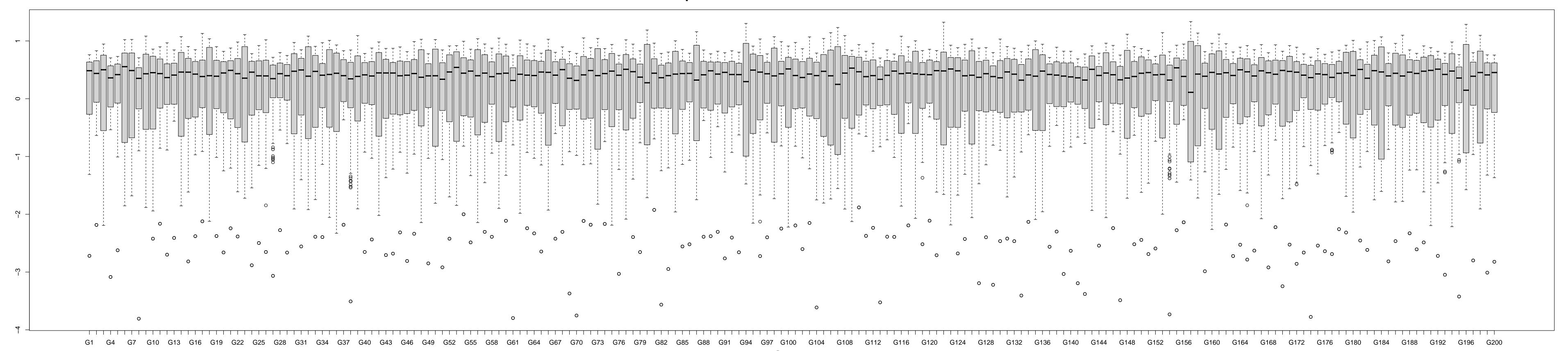
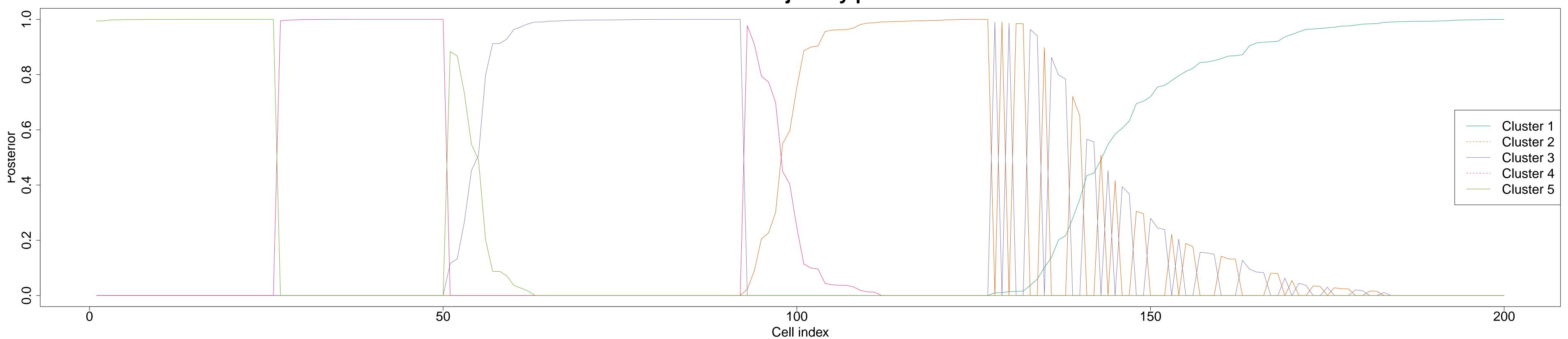
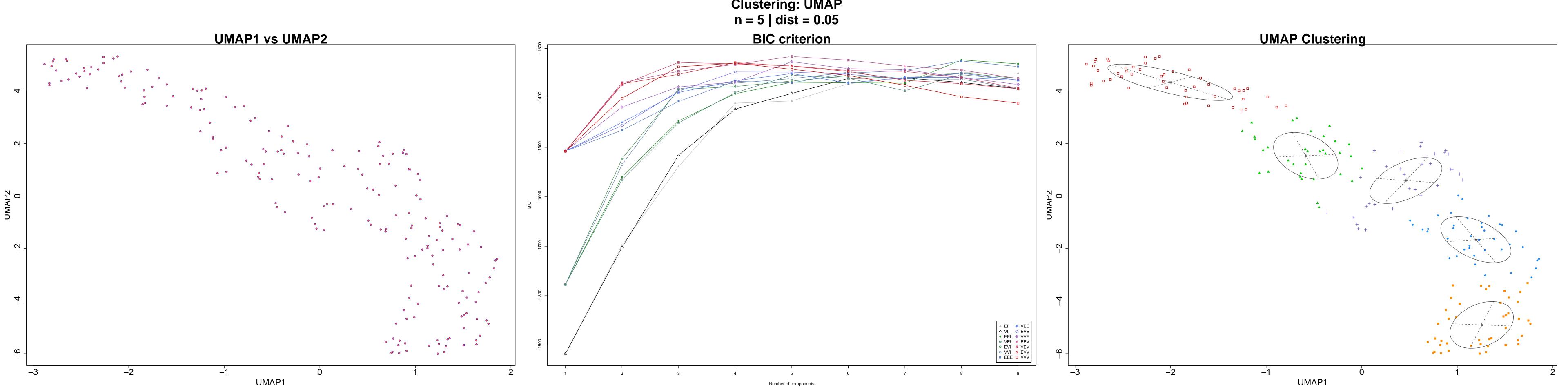
Barplot of Centered and Scaled Dataset 1

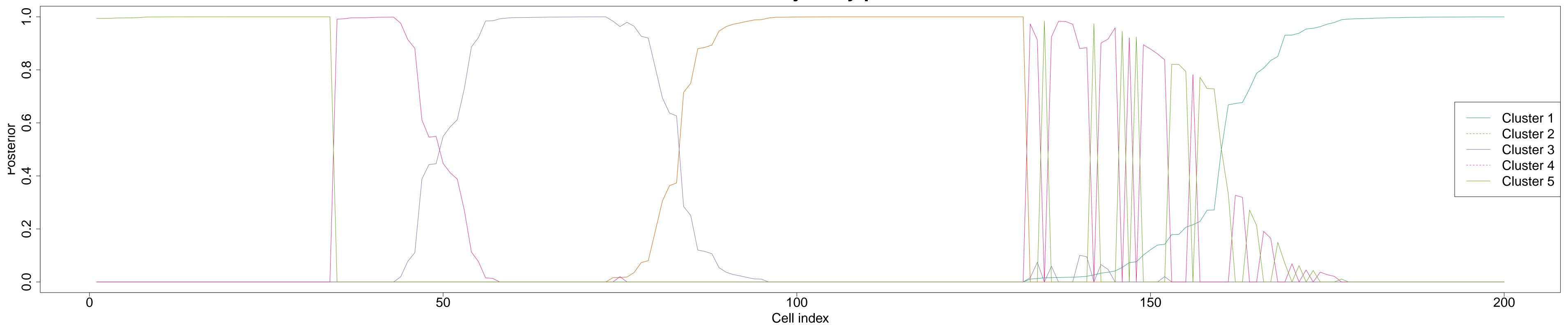


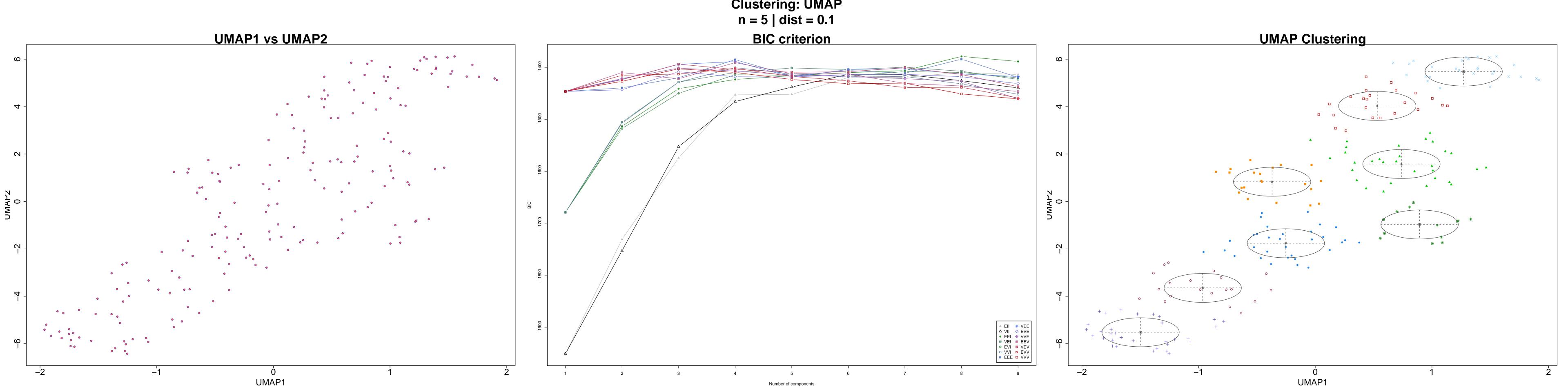
OPTIMAL NUMBER OF PRINCIPAL COMPONENTS = 2 Explained by PCsExplained by chance PRINCIPAL COMPONENTS

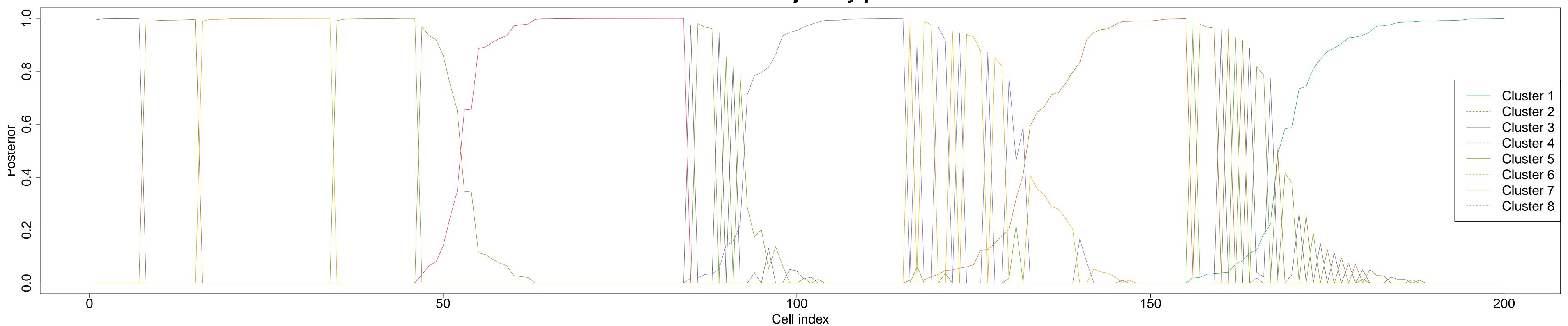


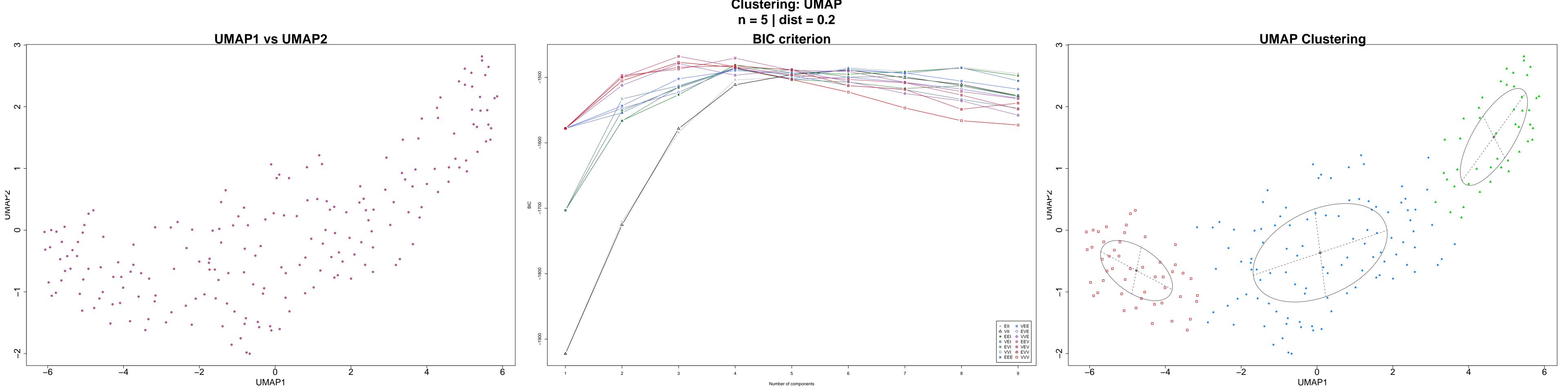


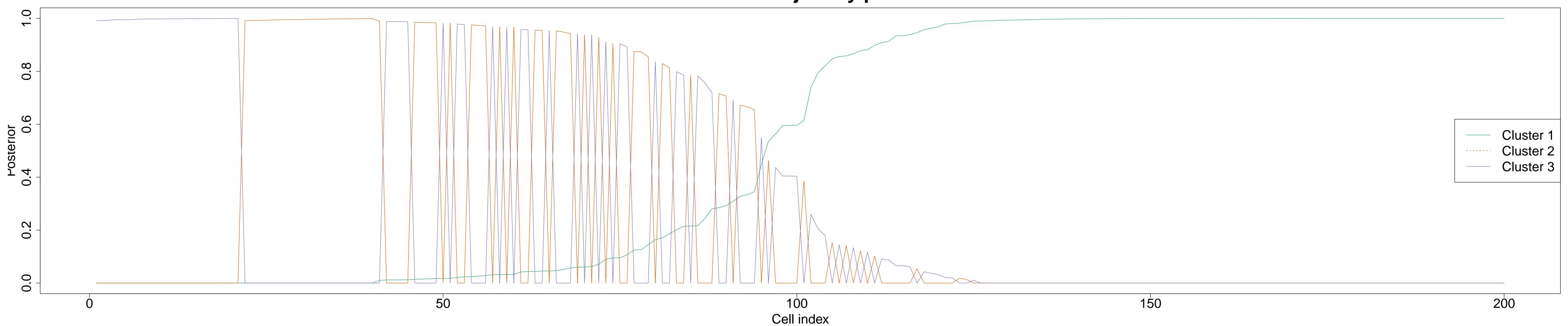




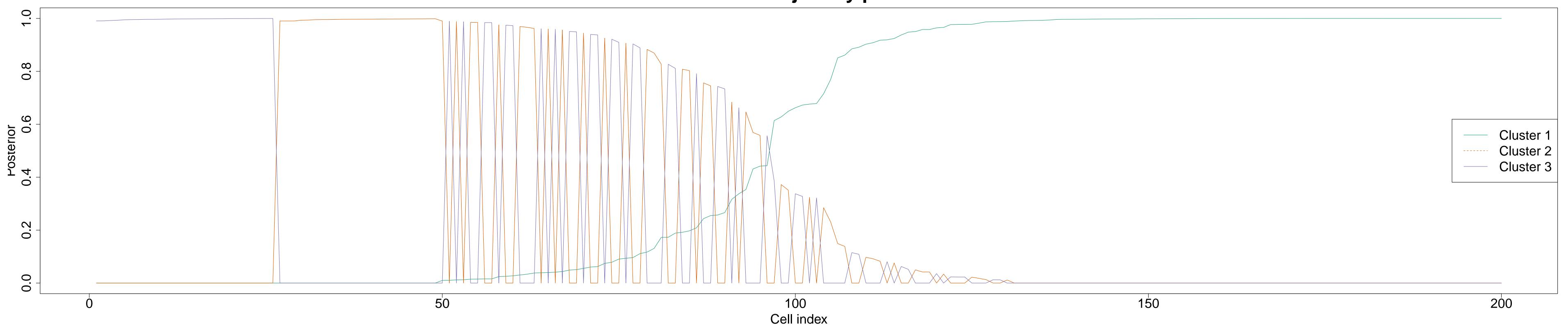


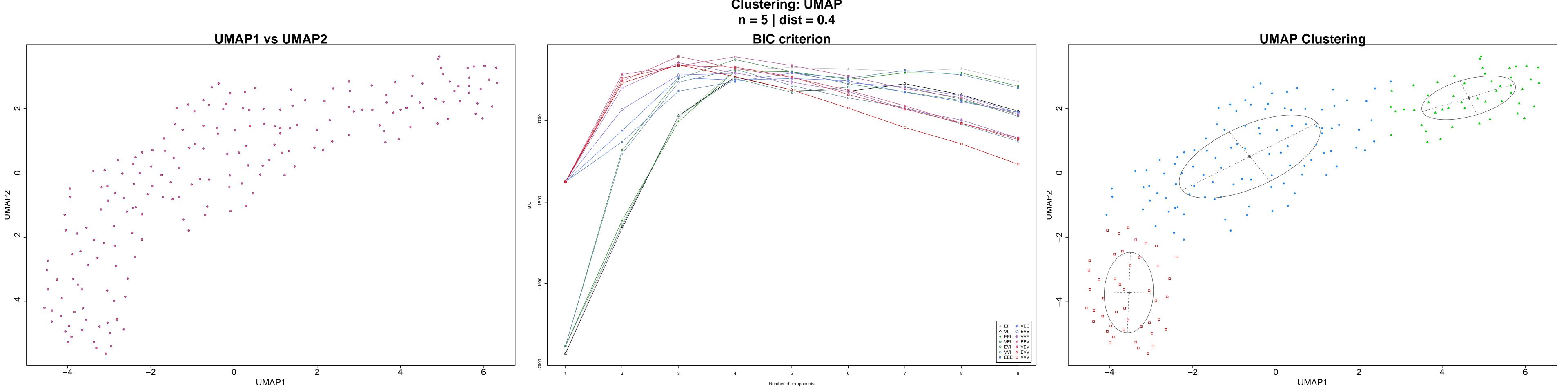


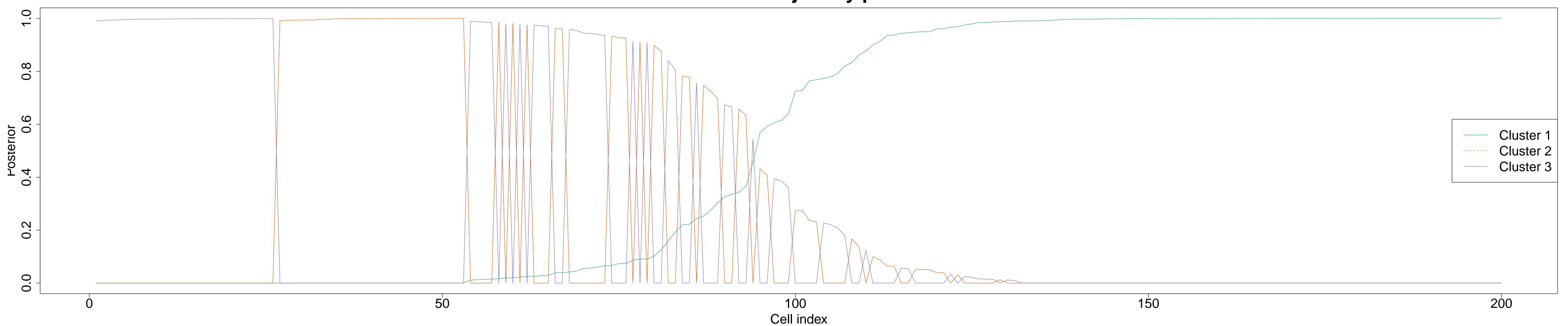




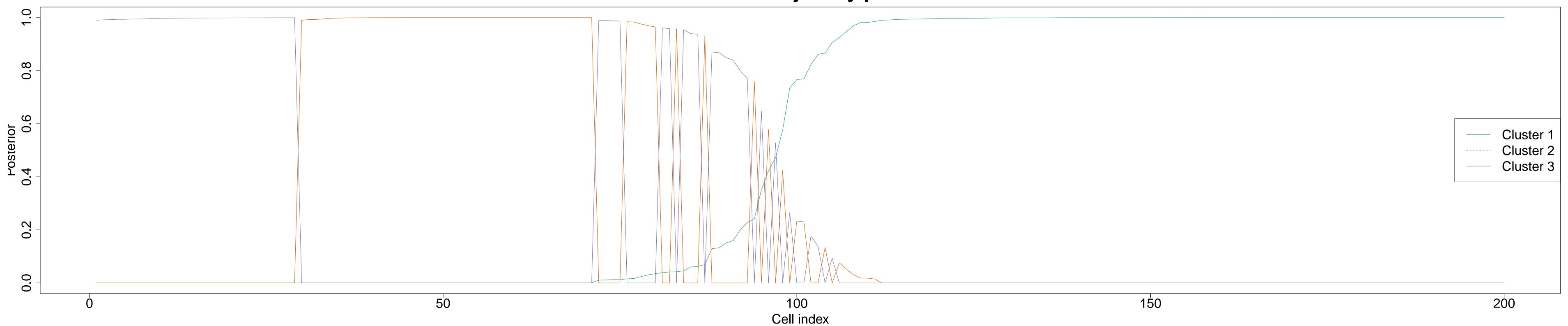
Clustering: UMAP n = 5 | dist = 0.3 UMAP1 vs UMAP2 **BIC** criterion **UMAP Clustering** UMAP1

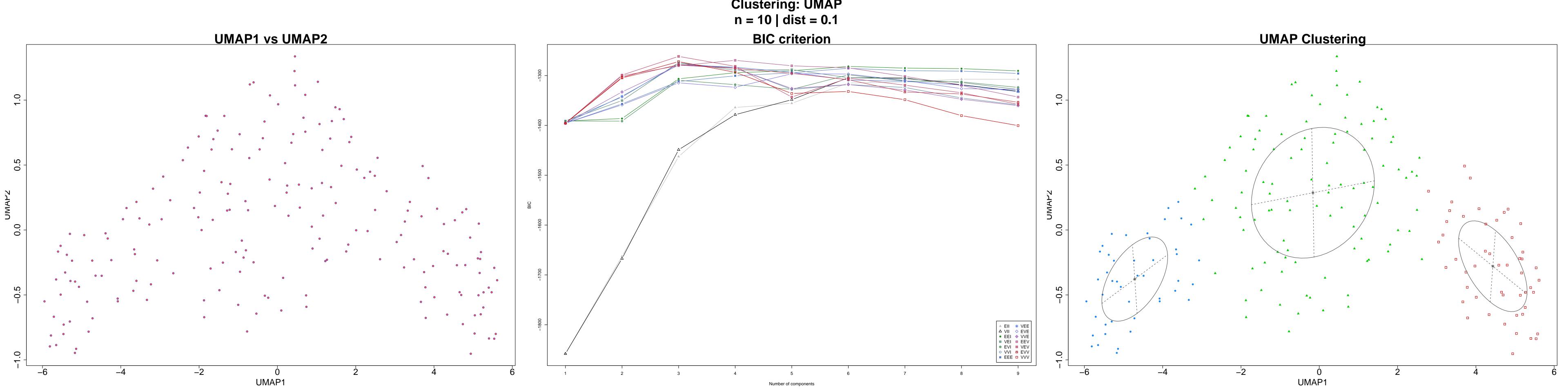




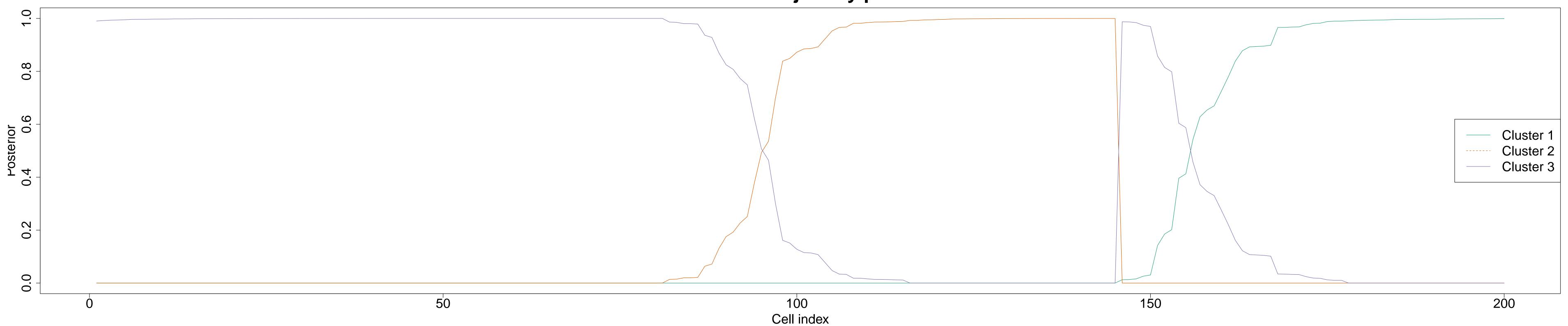


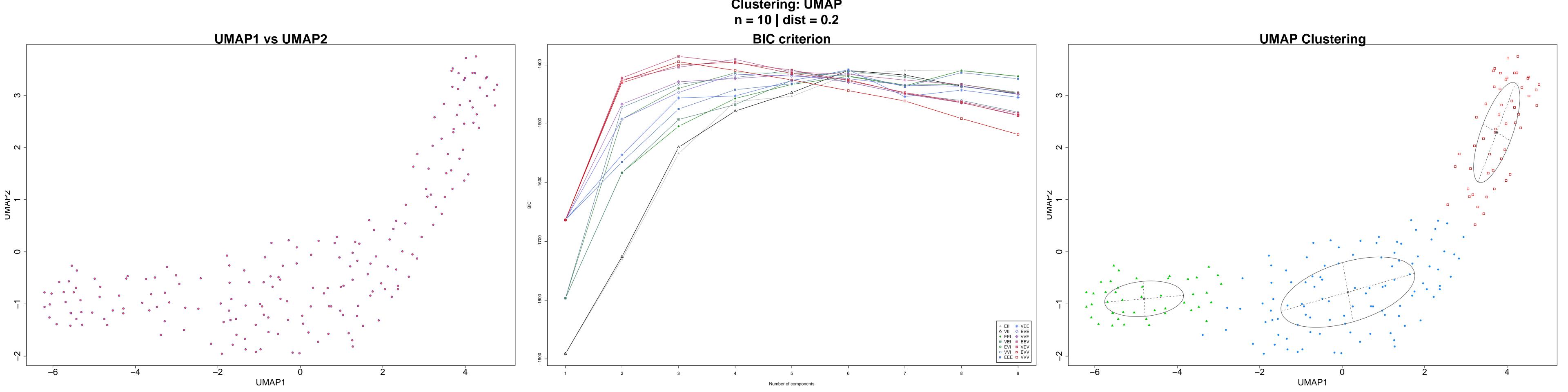
Clustering: UMAP n = 10 | dist = 0.05 **BIC** criterion UMAP1 vs UMAP2 **UMAP Clustering** 0.0 UMAP1 0.5

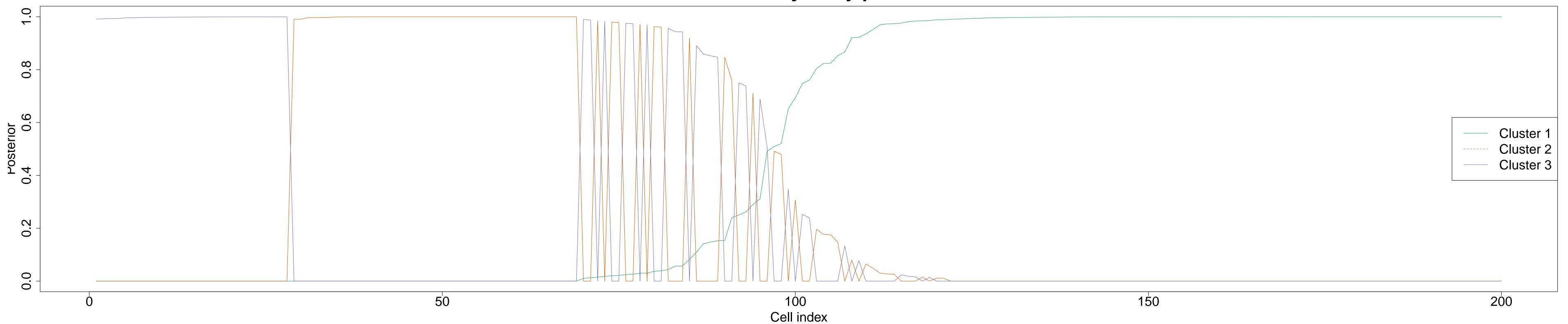


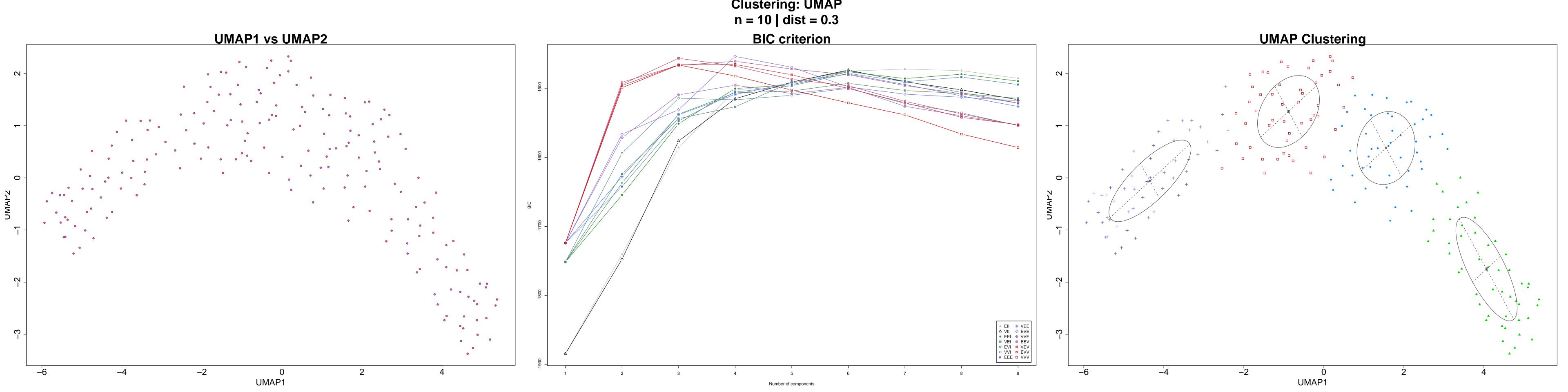


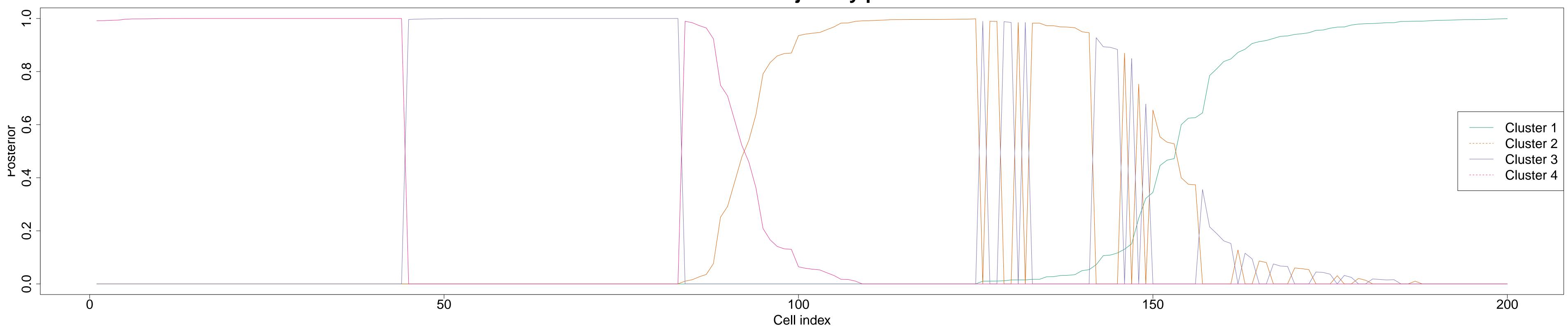




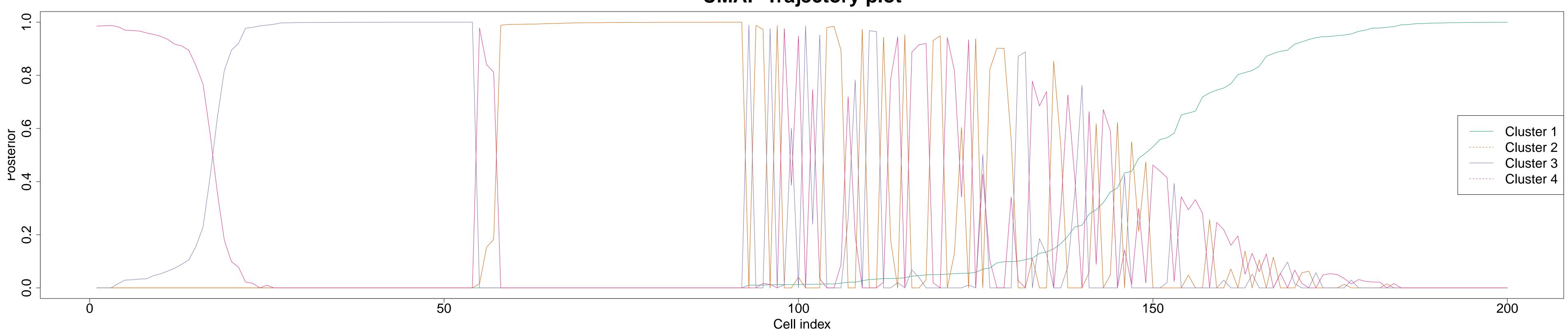


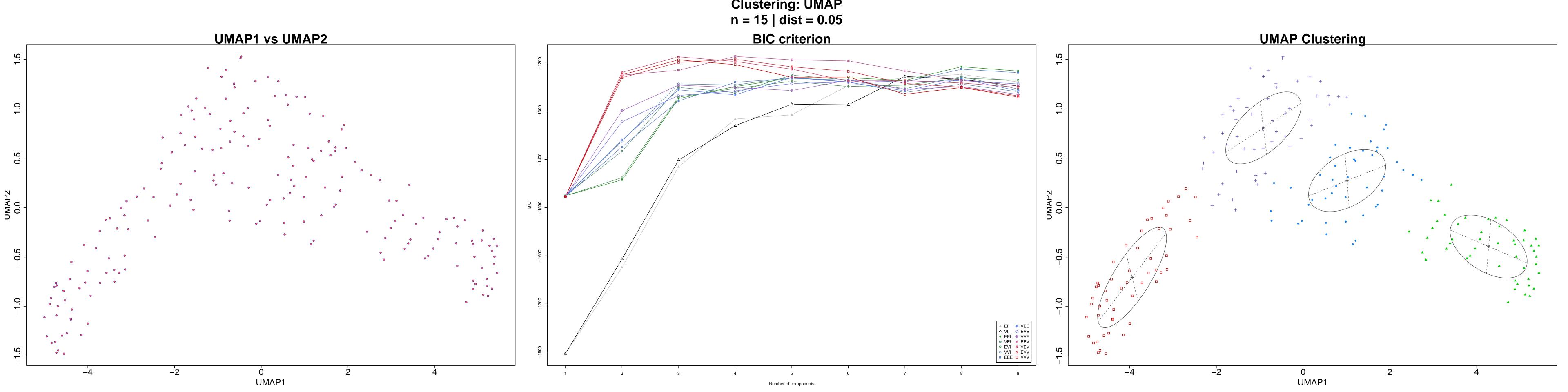


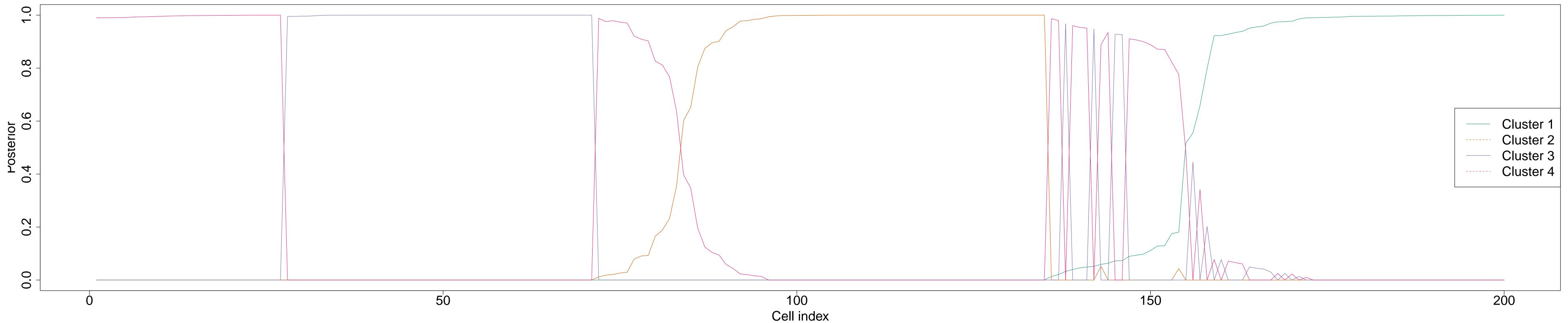


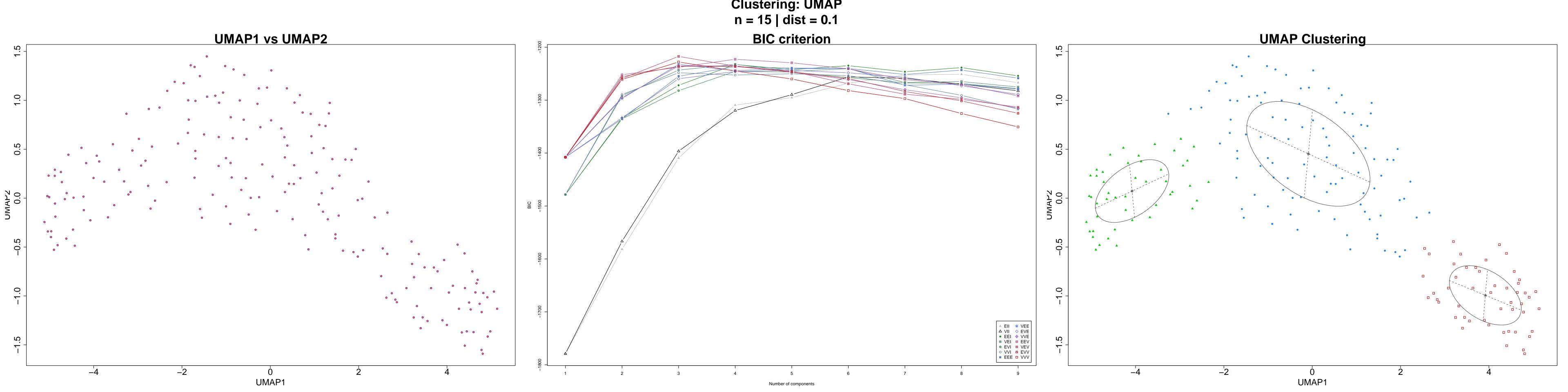


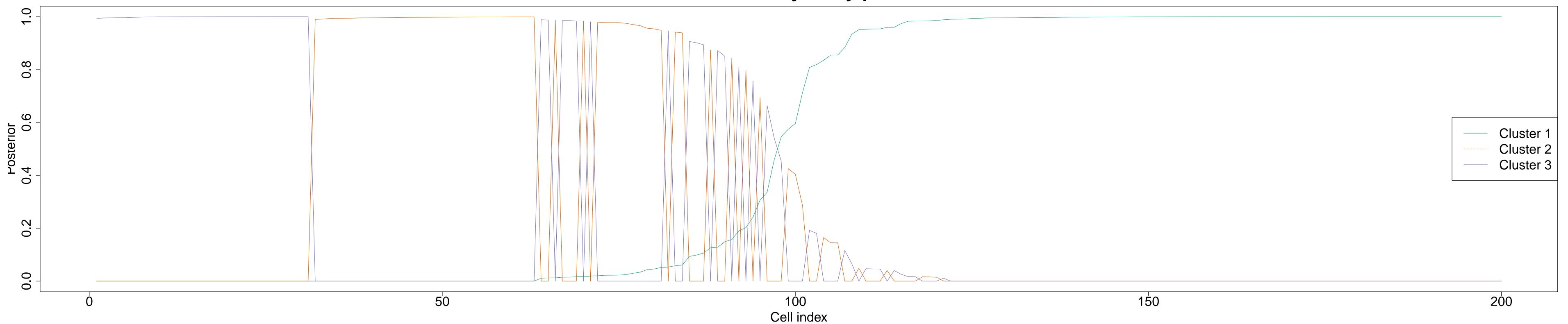
Clustering: UMAP n = 10 | dist = 0.4 UMAP1 vs UMAP2 **BIC** criterion **UMAP Clustering**

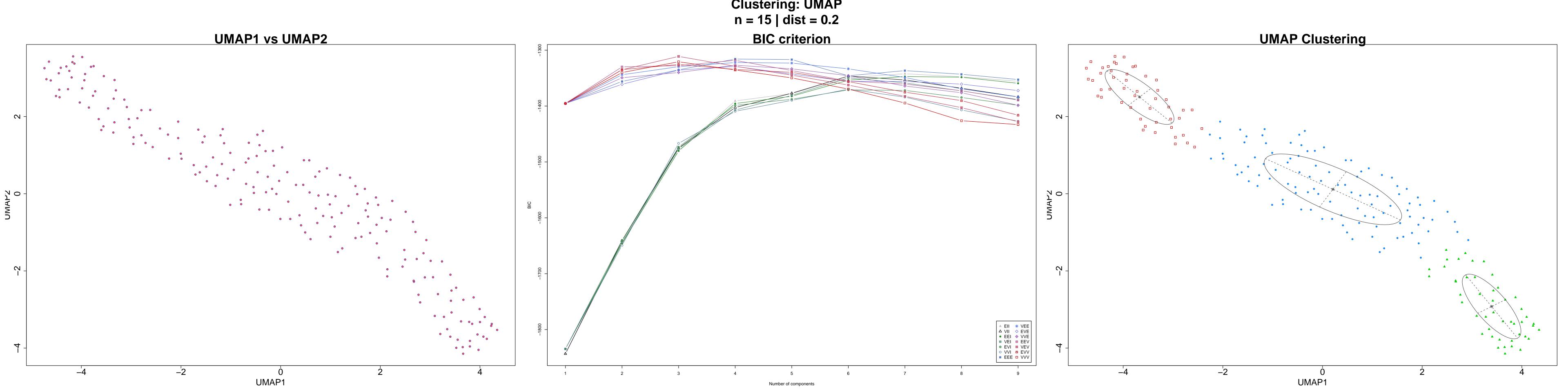


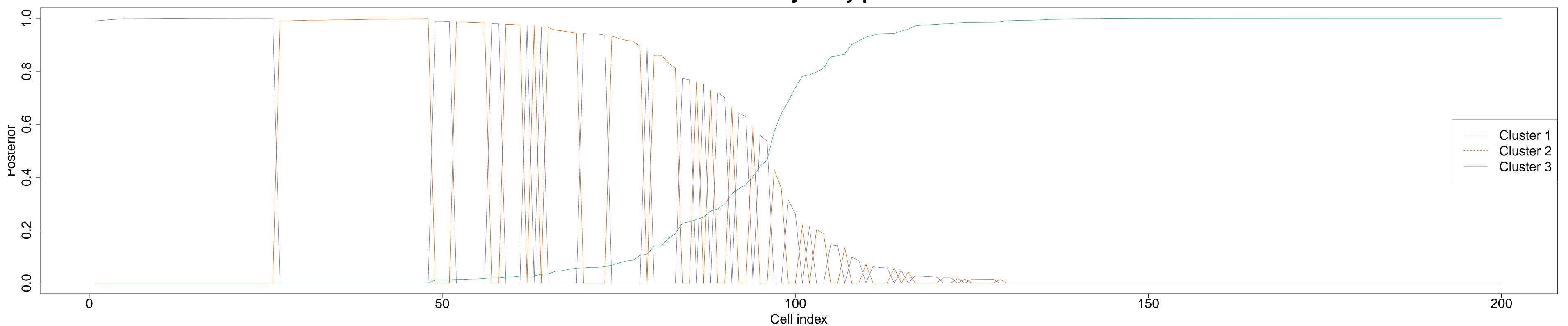


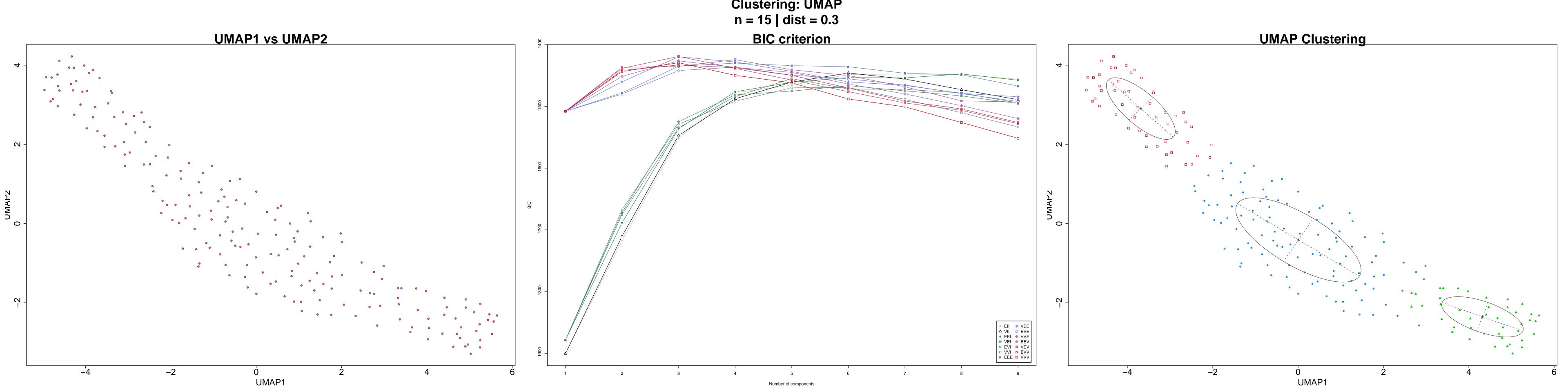


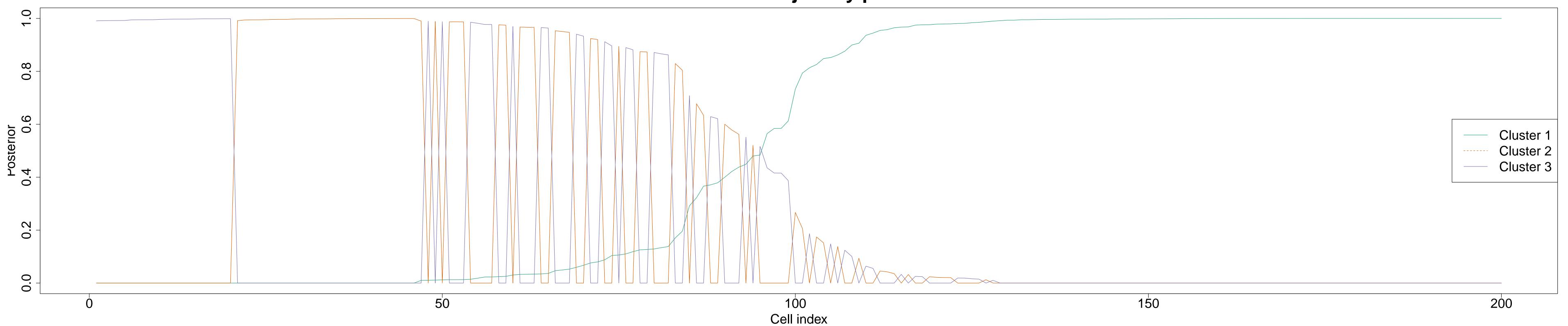


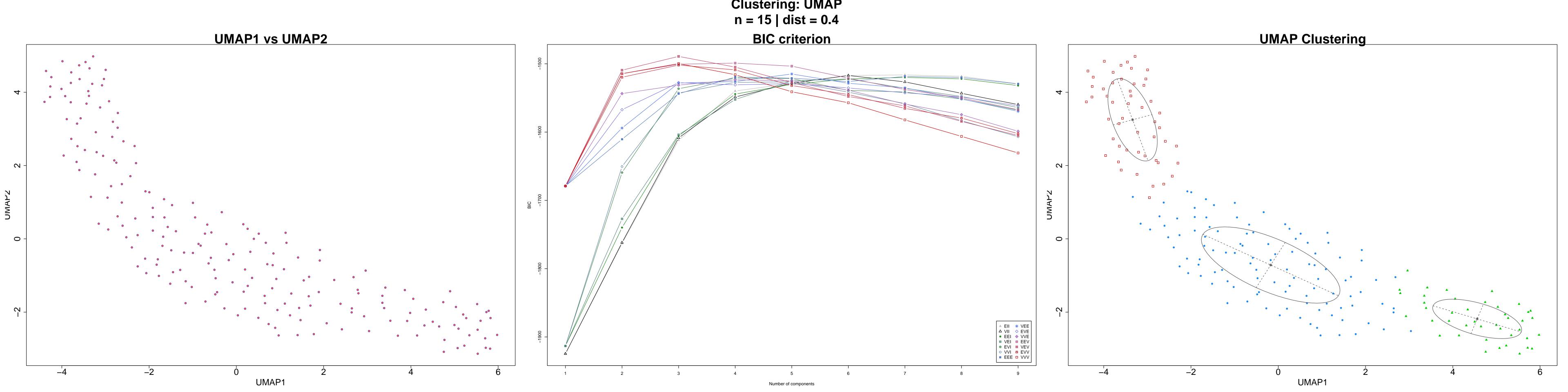


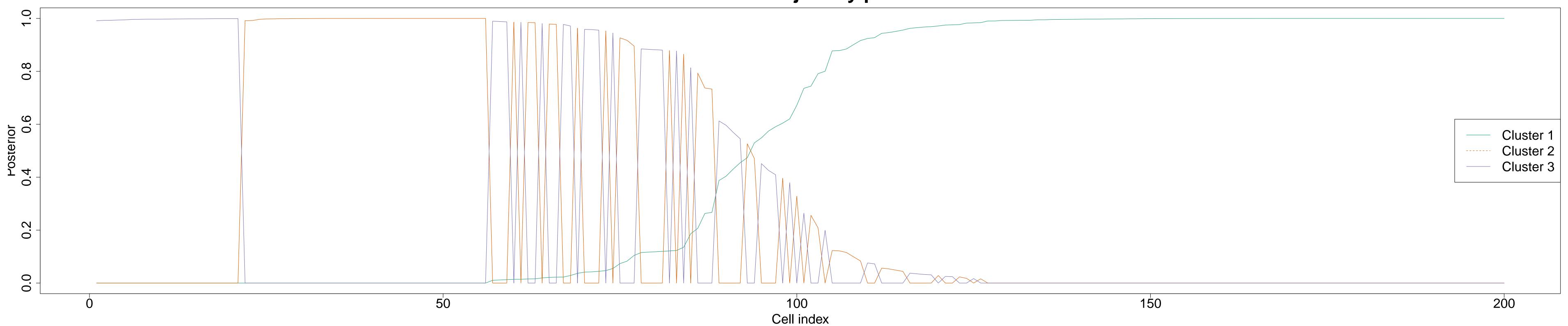




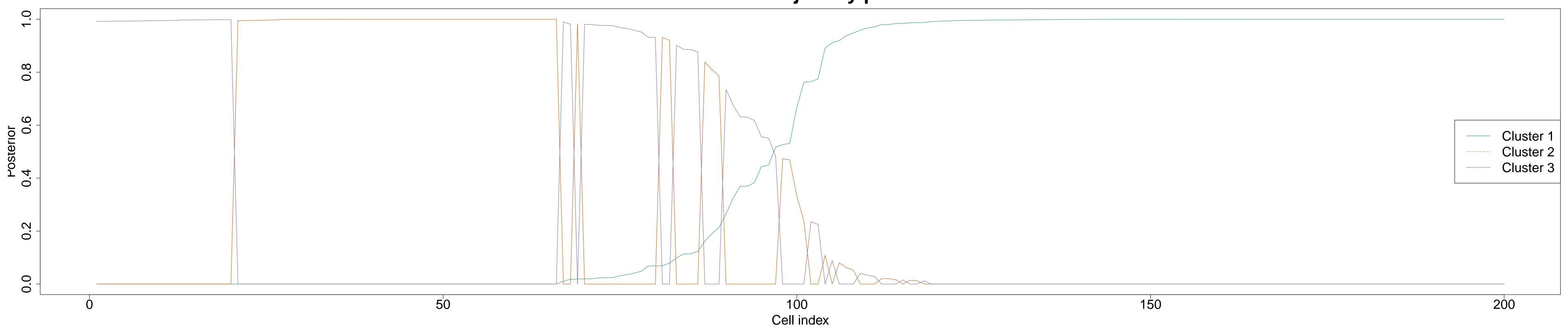


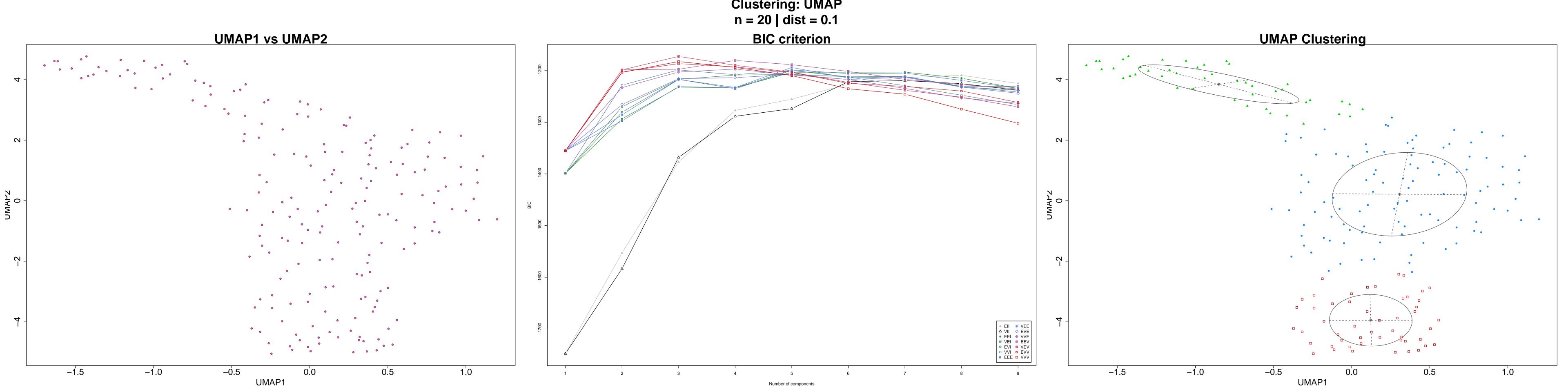


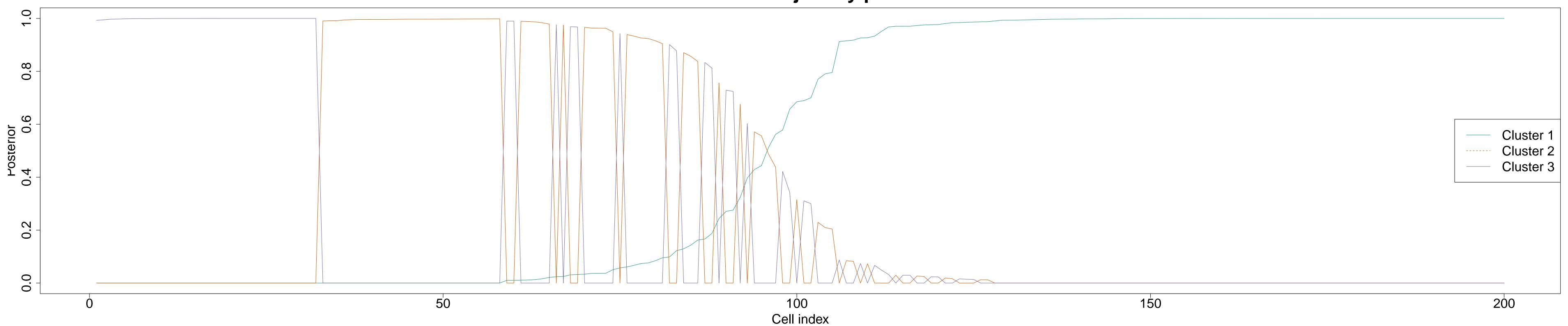


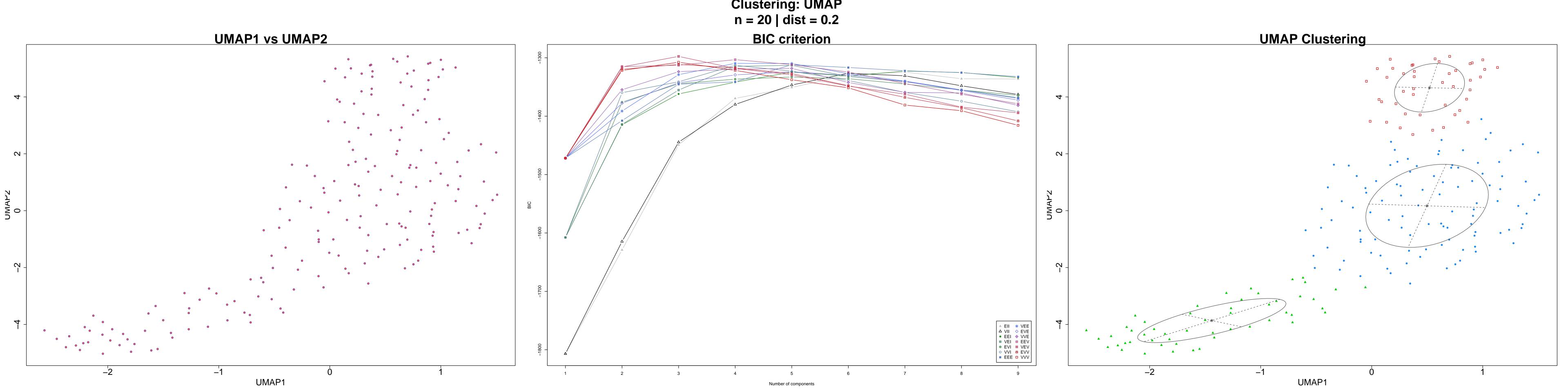


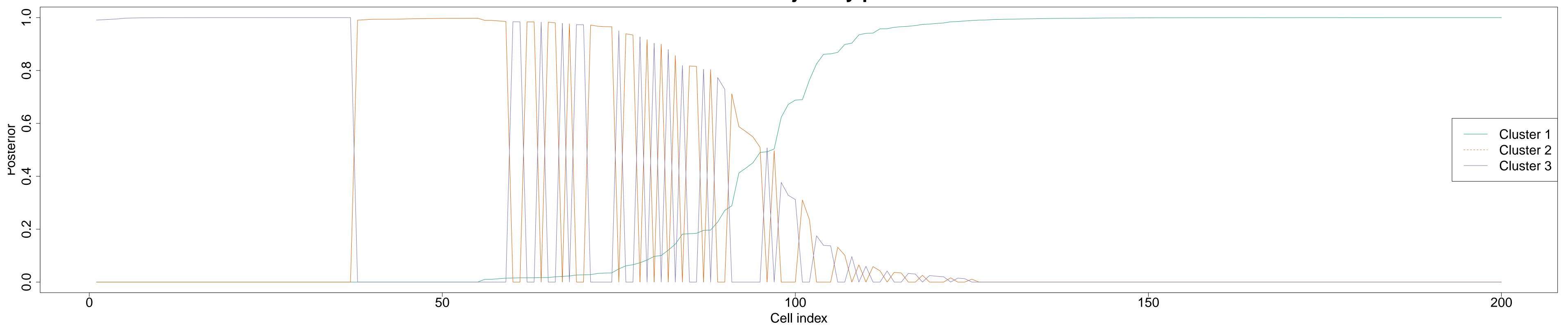
Clustering: UMAP n = 20 | dist = 0.05 UMAP1 vs UMAP2 **BIC** criterion **UMAP Clustering** 0.5





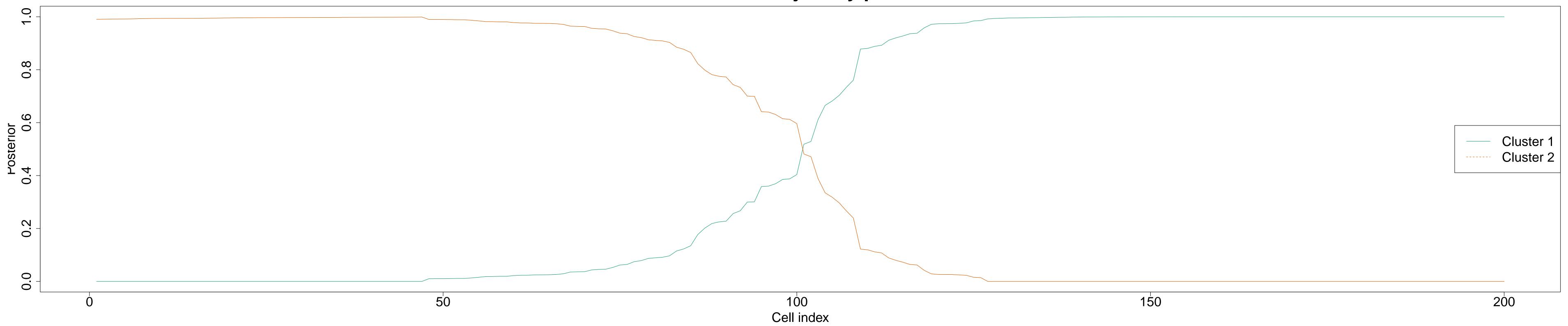


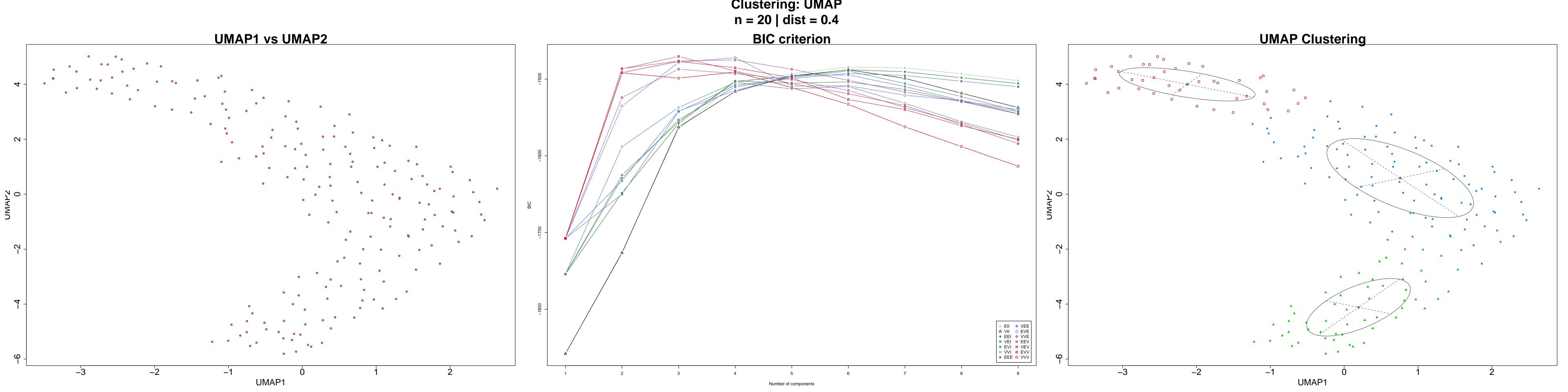


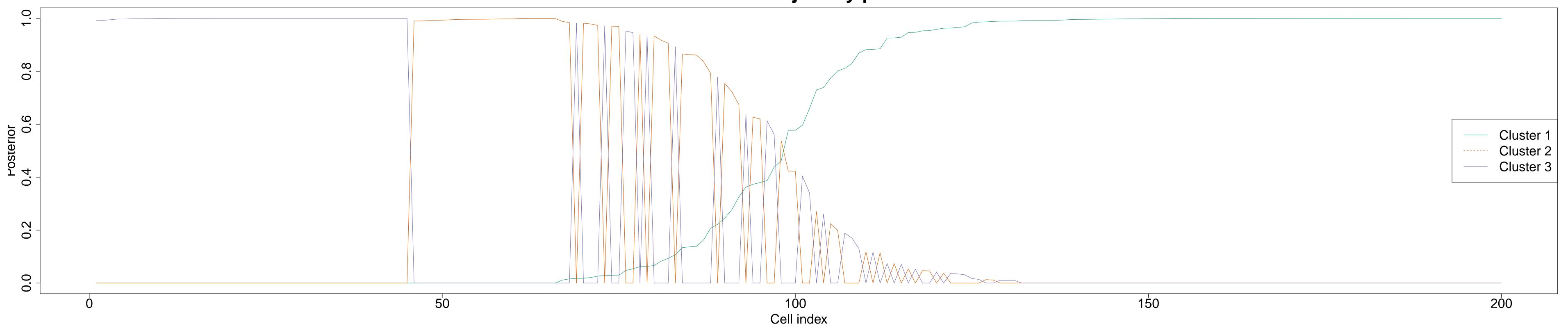


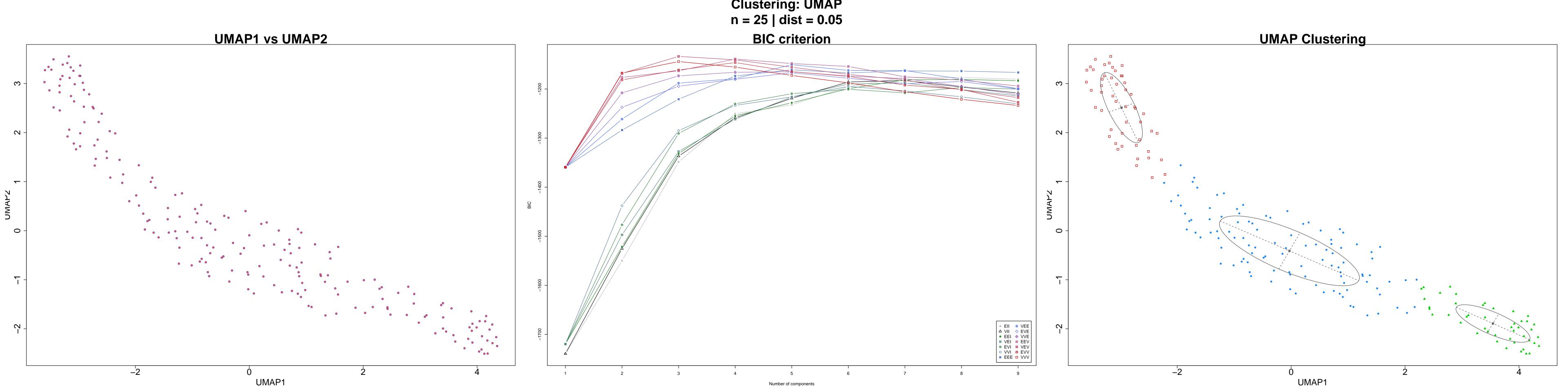
Clustering: UMAP n = 20 | dist = 0.3 UMAP1 vs UMAP2 **BIC** criterion **UMAP Clustering**

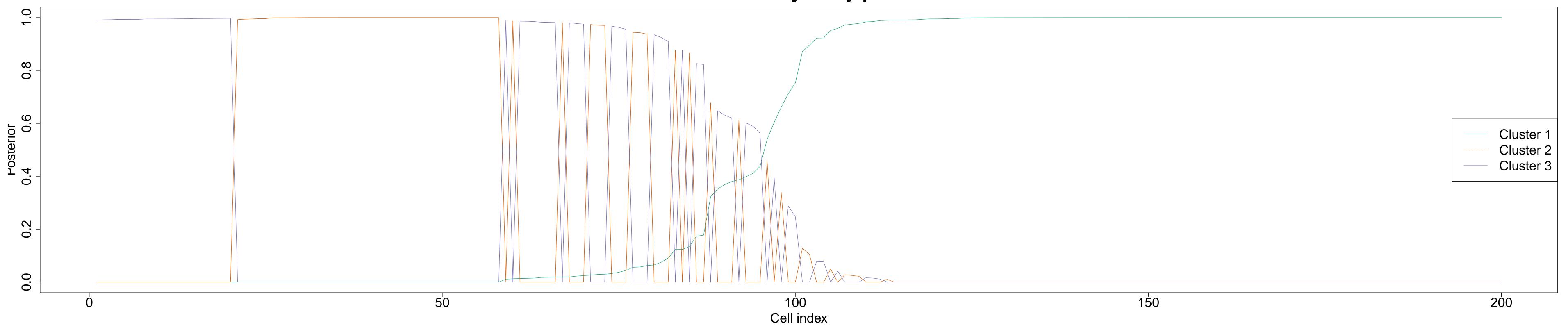


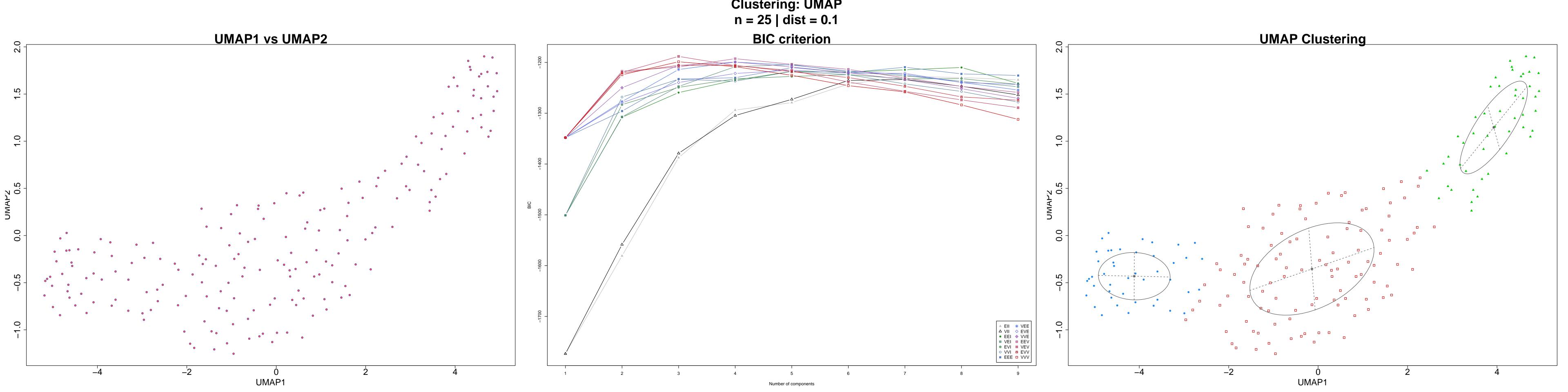


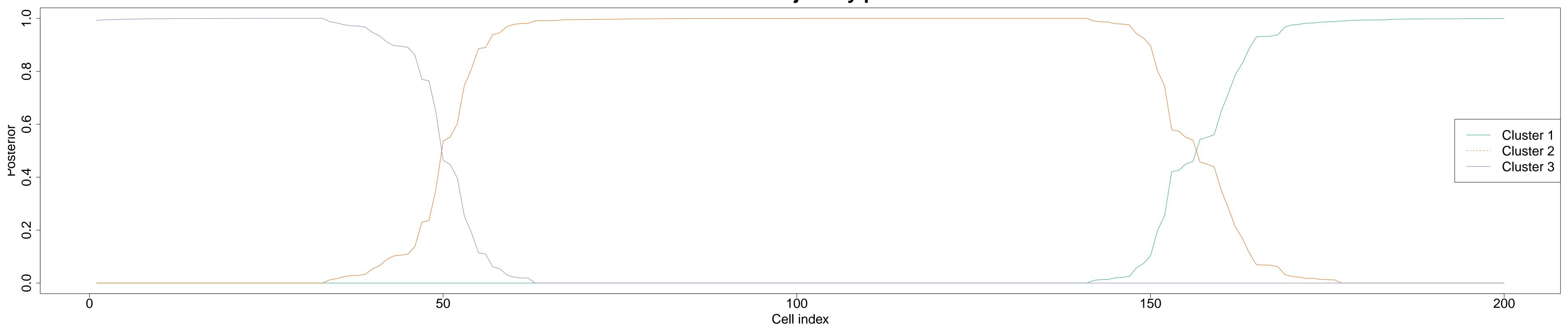


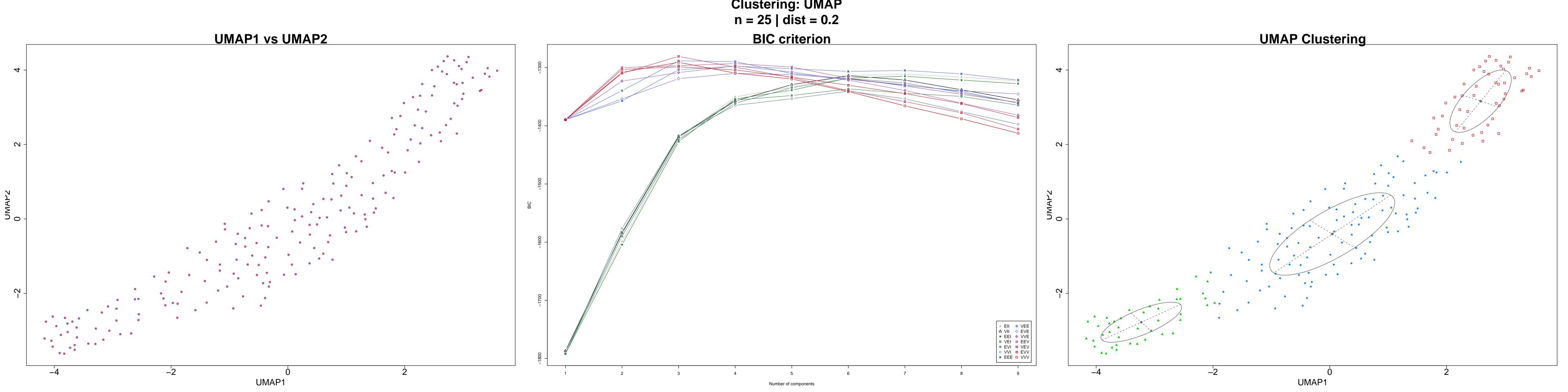


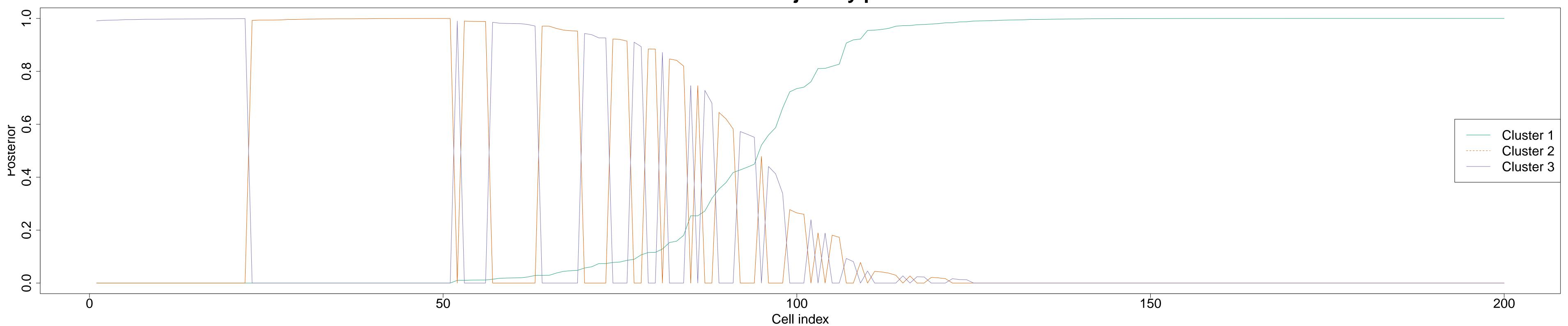


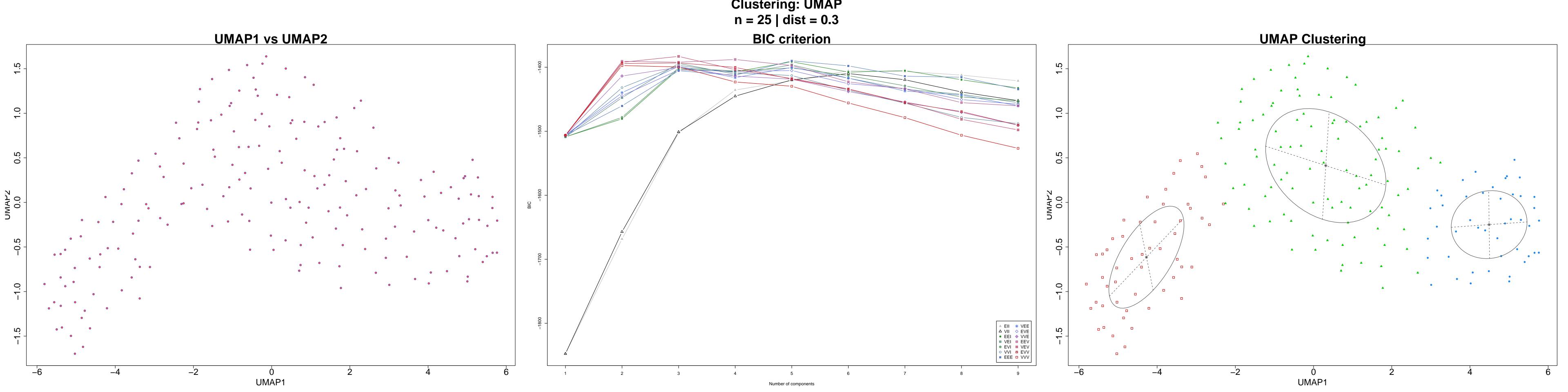




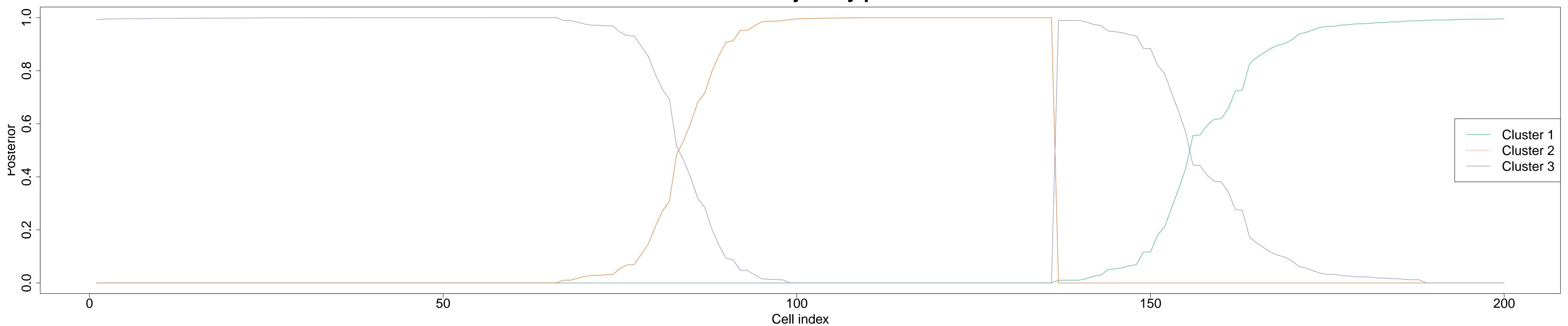




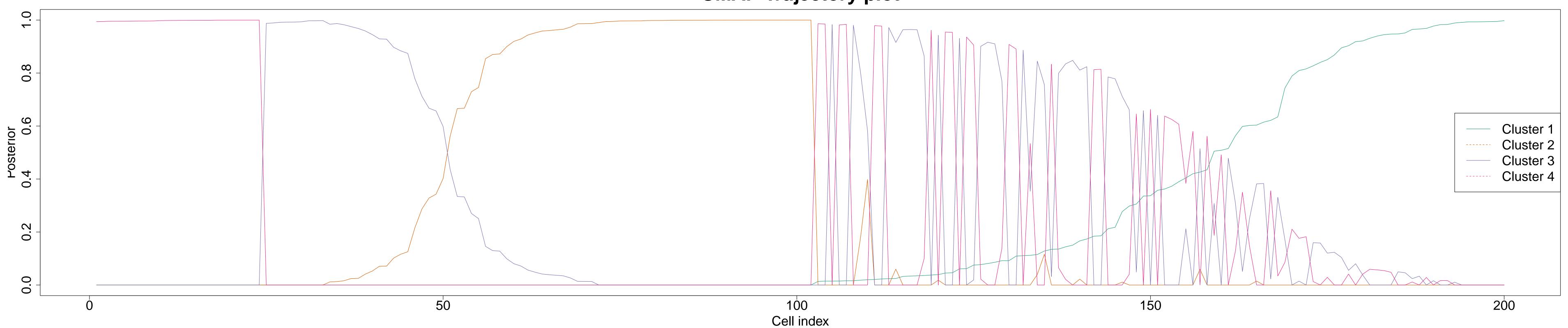


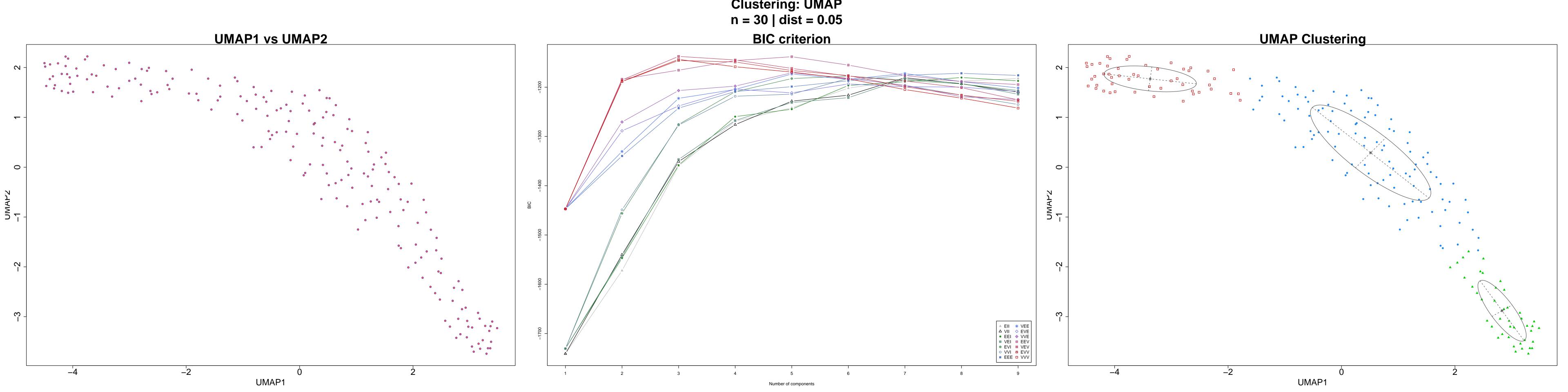


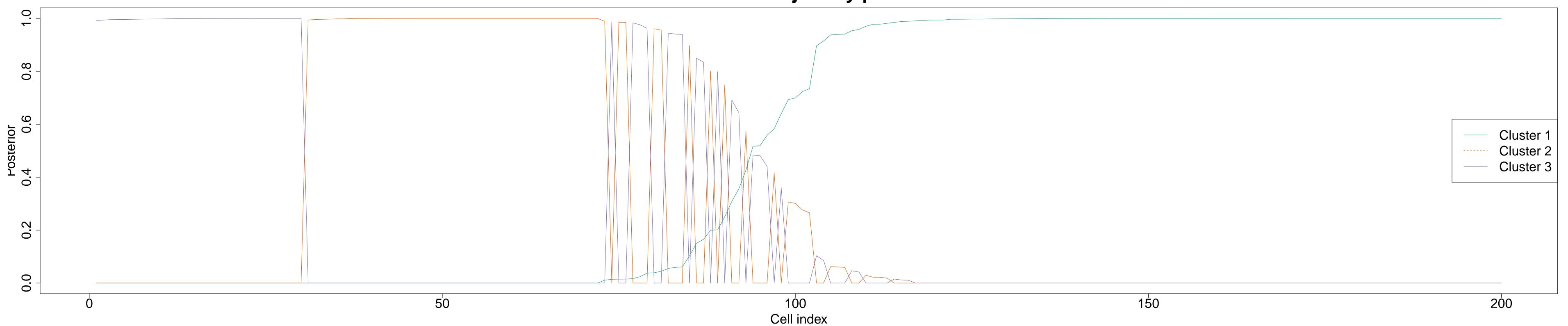


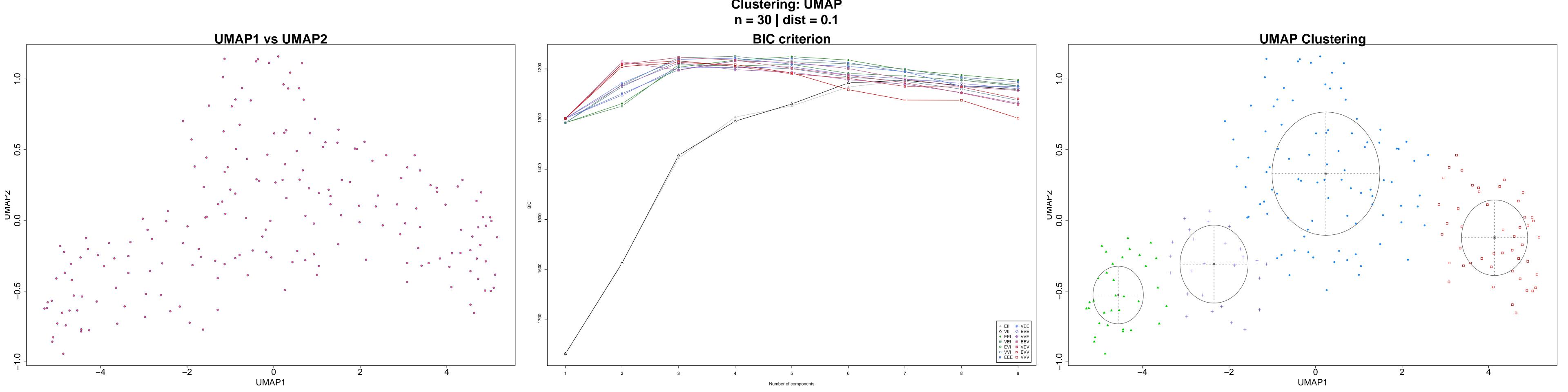


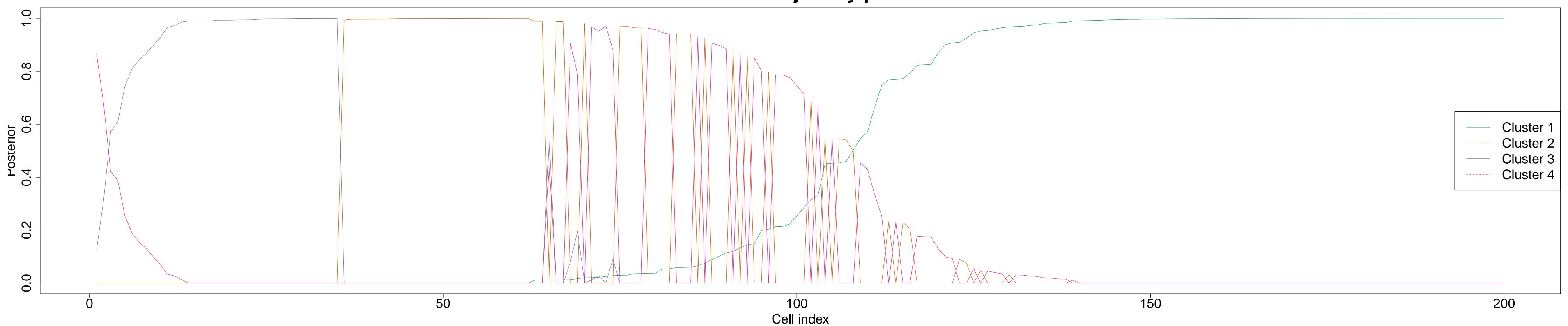
Clustering: UMAP n = 25 | dist = 0.4 UMAP1 vs UMAP2 **BIC** criterion **UMAP Clustering**

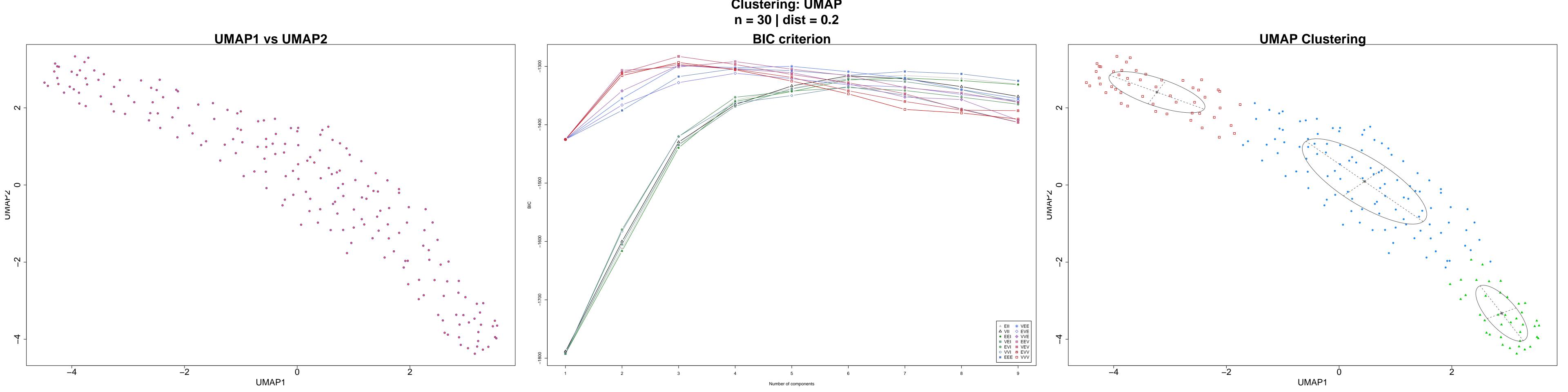


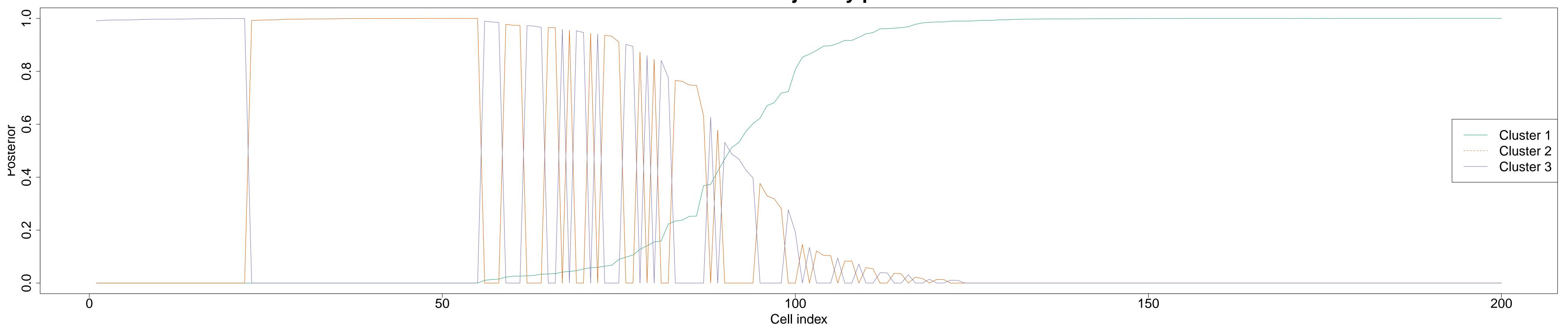


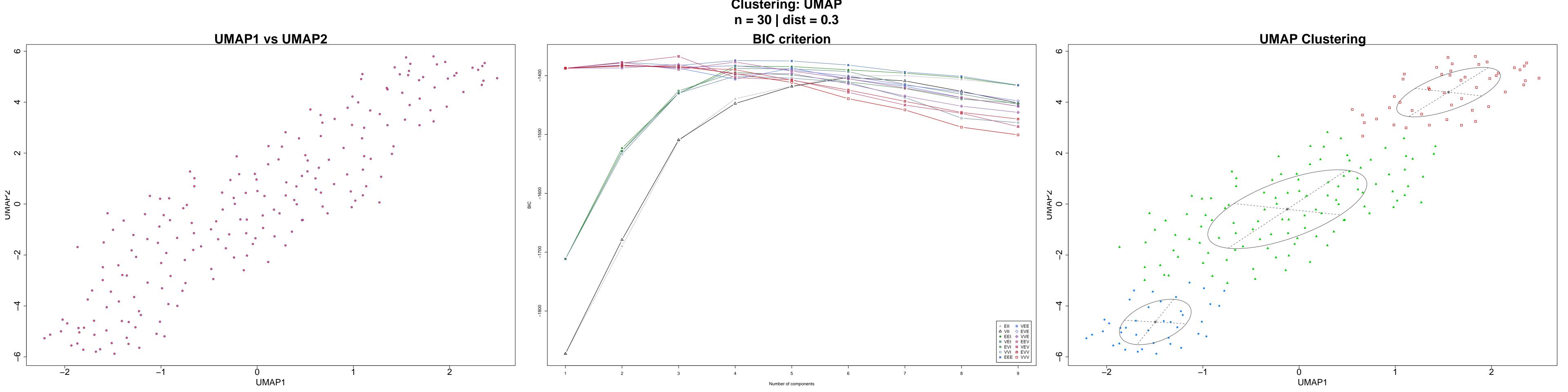


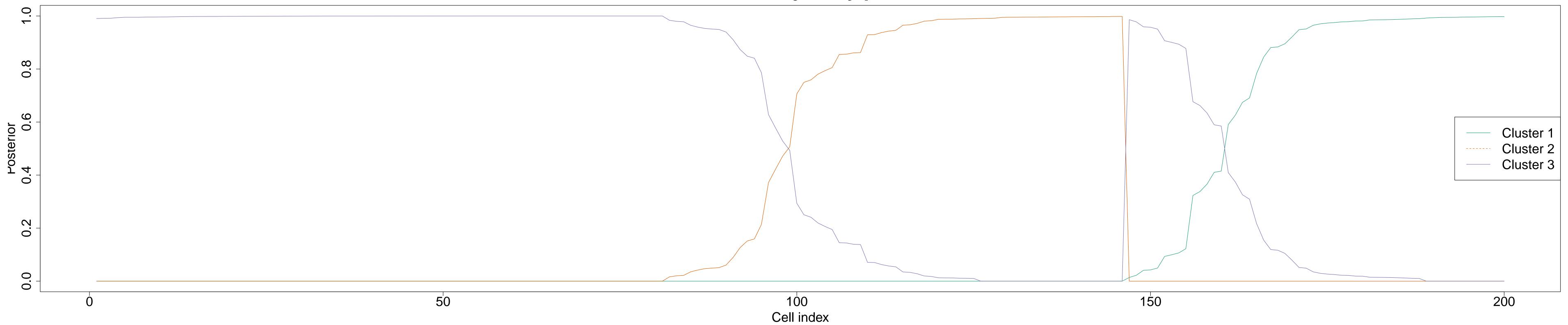




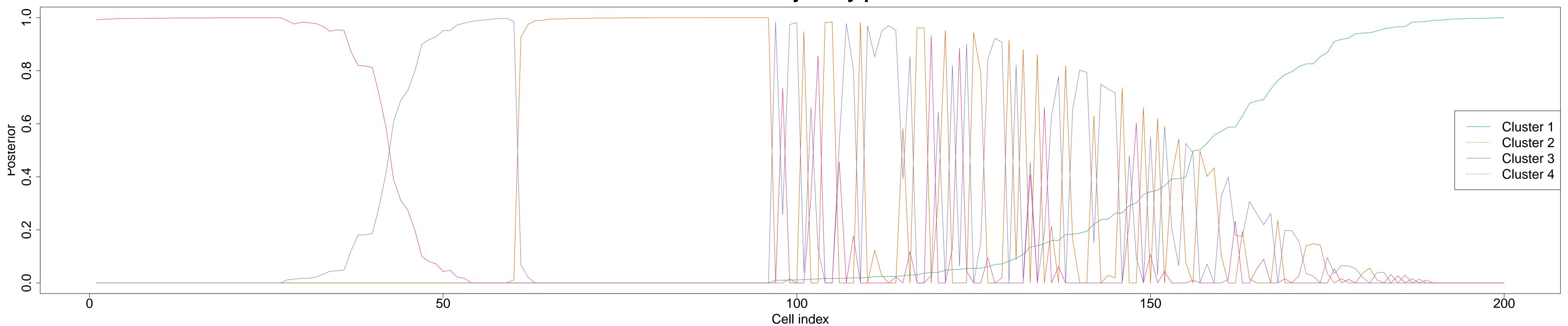


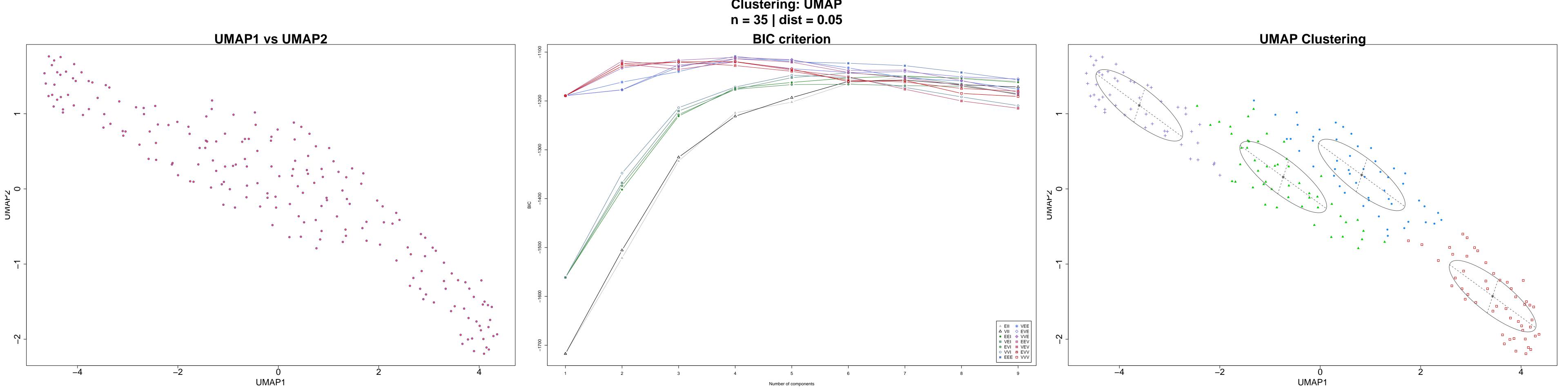


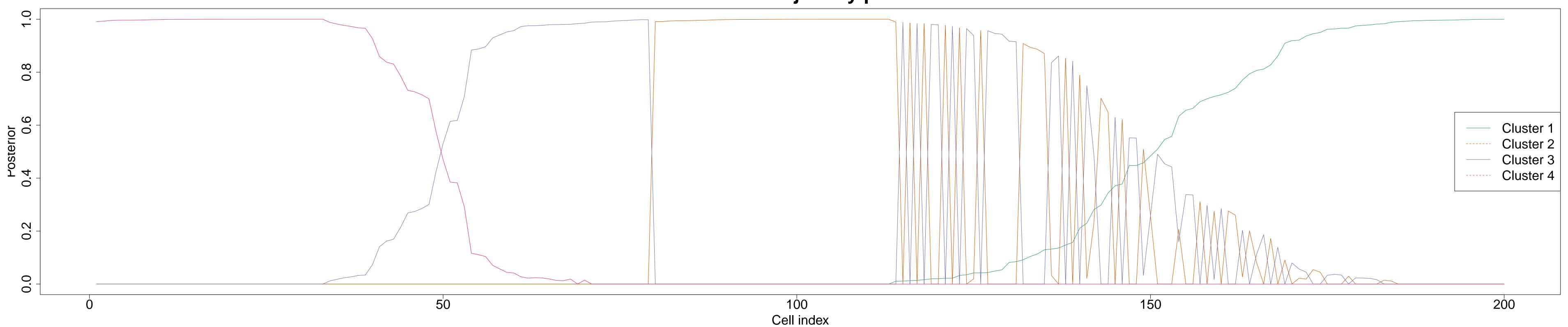




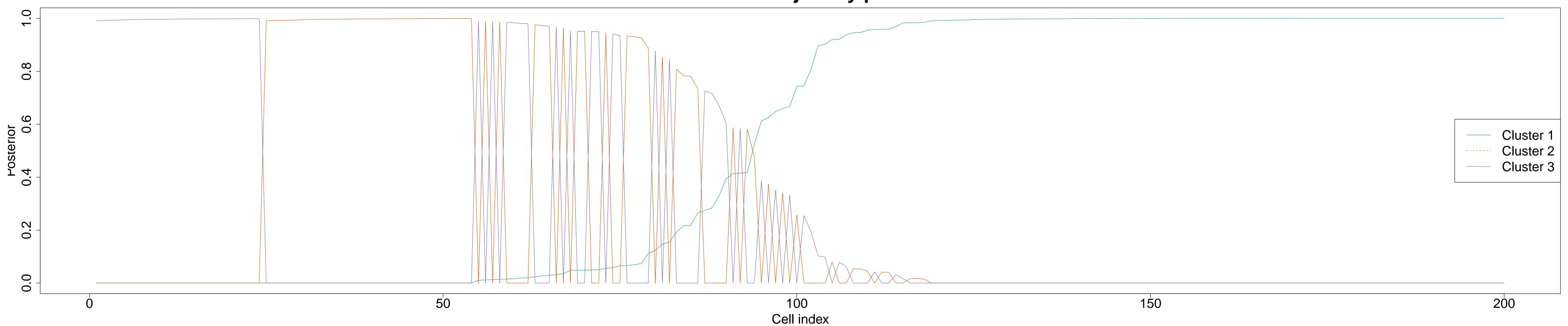
Clustering: UMAP n = 30 | dist = 0.4 UMAP1 vs UMAP2 **BIC** criterion **UMAP Clustering** ▲ EII * VEE
Δ VII ◇ EVE
• EEI ◆ VVE
※ VEI # EEV
• EVI ※ VEV
○ VVI № EVV
■ EEE □ VVV 0.5 0.5 0.0 UMAP1

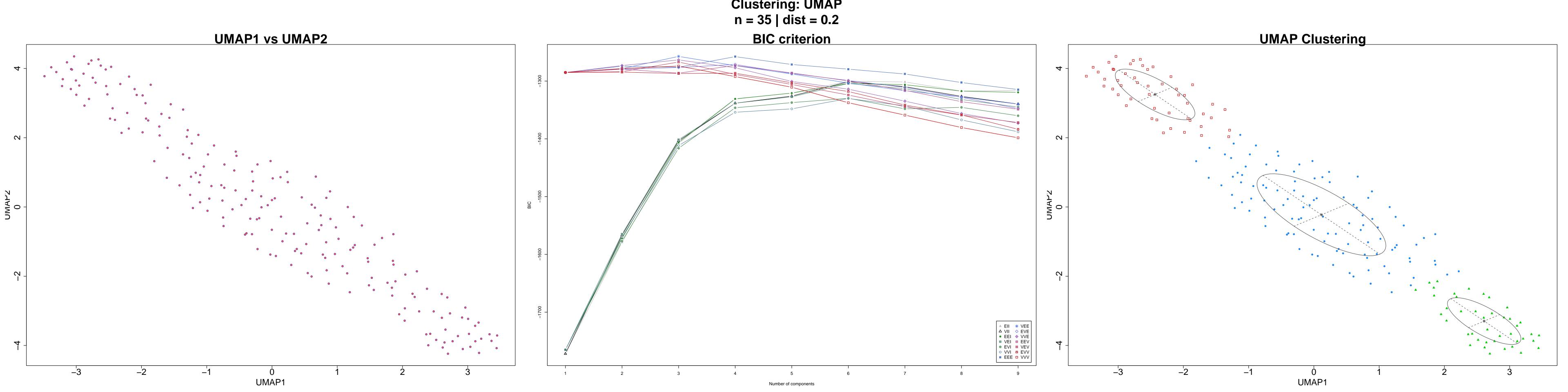


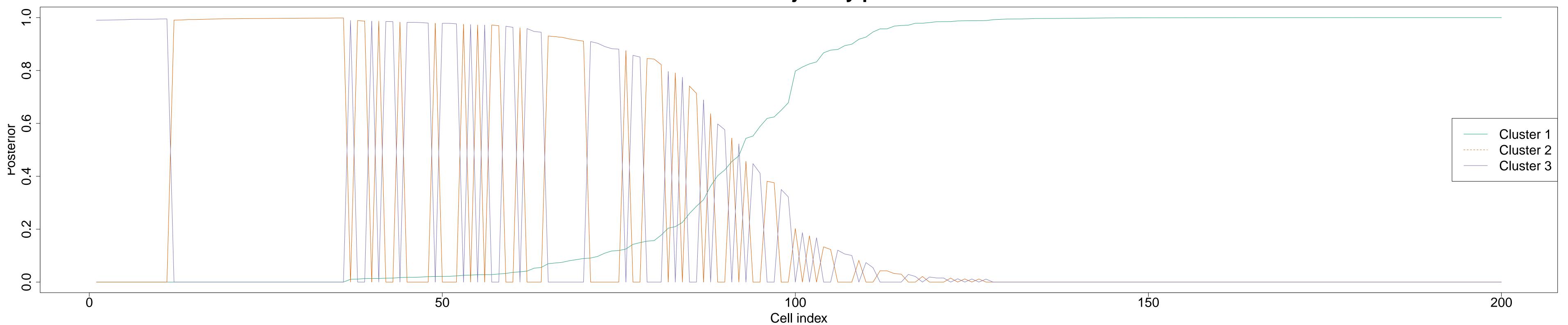


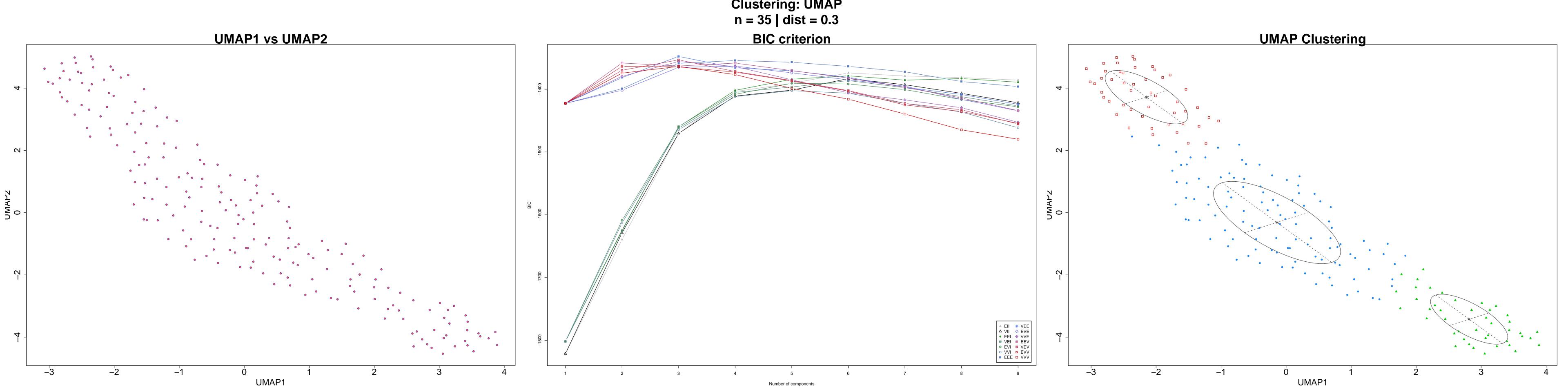


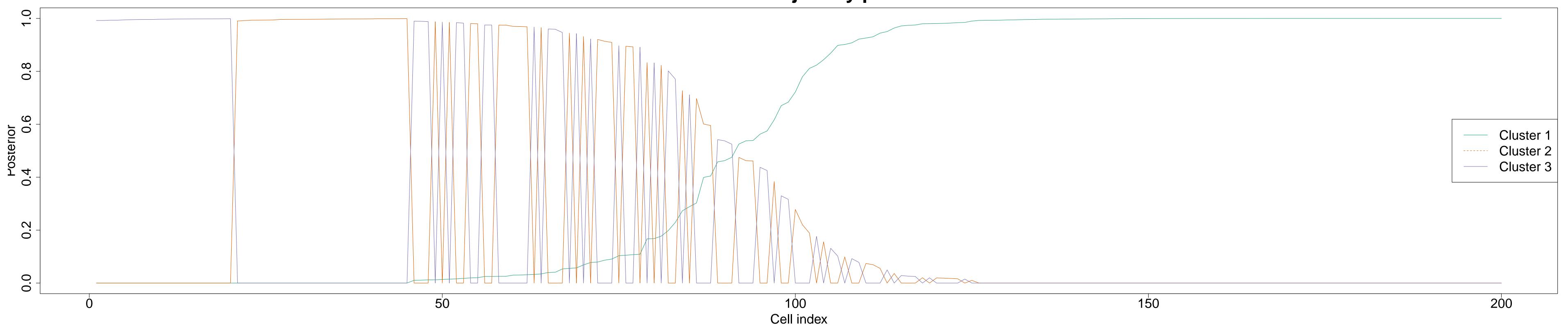
Clustering: UMAP n = 35 | dist = 0.1 **BIC** criterion UMAP1 vs UMAP2 **UMAP Clustering** 0.0 UMAP1

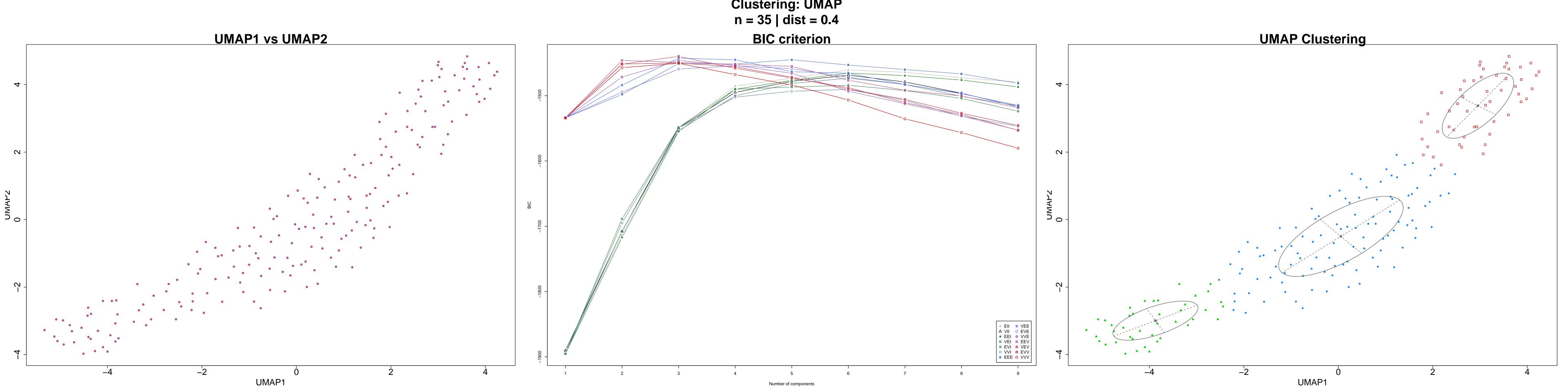


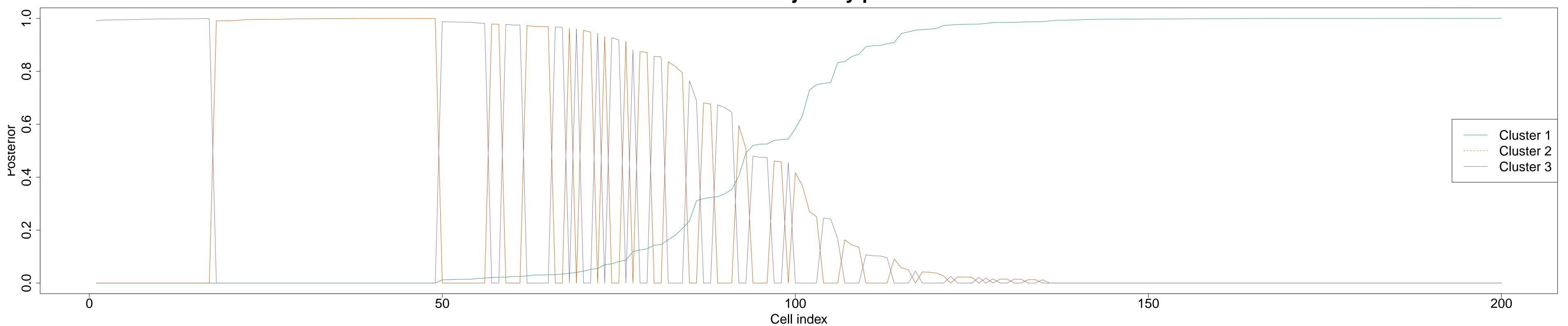




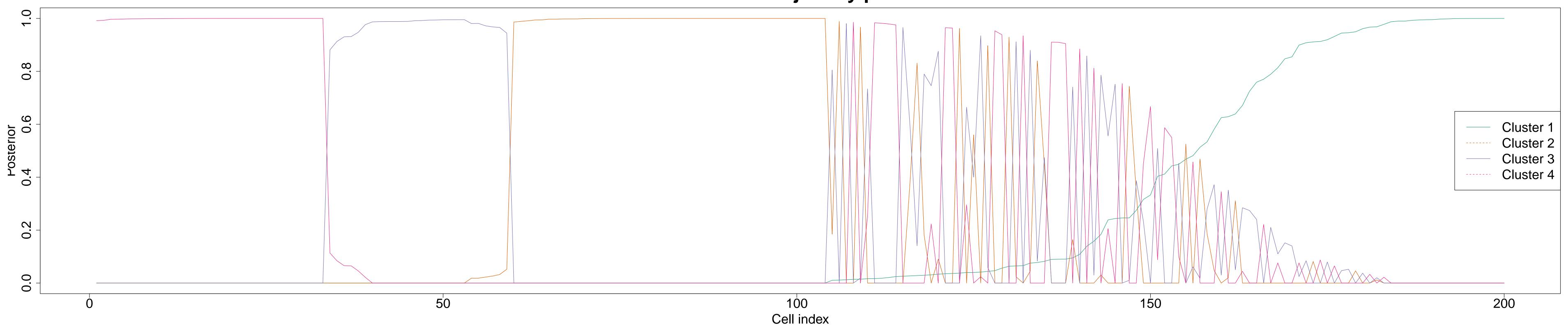


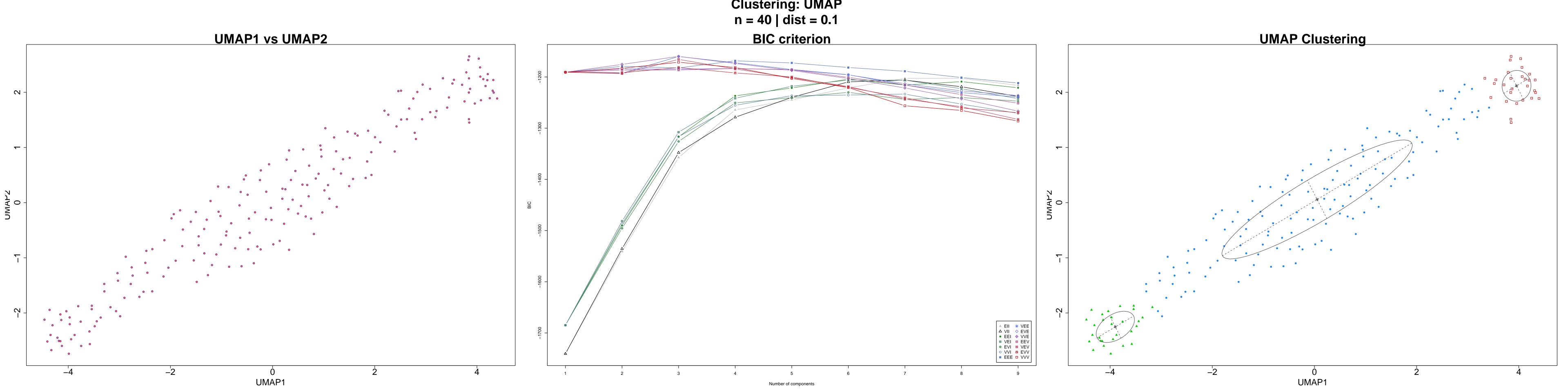


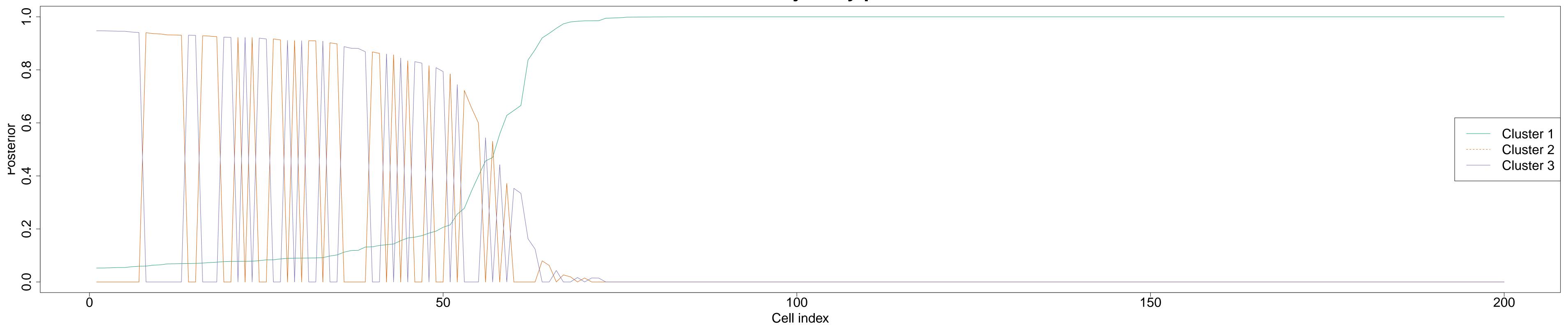




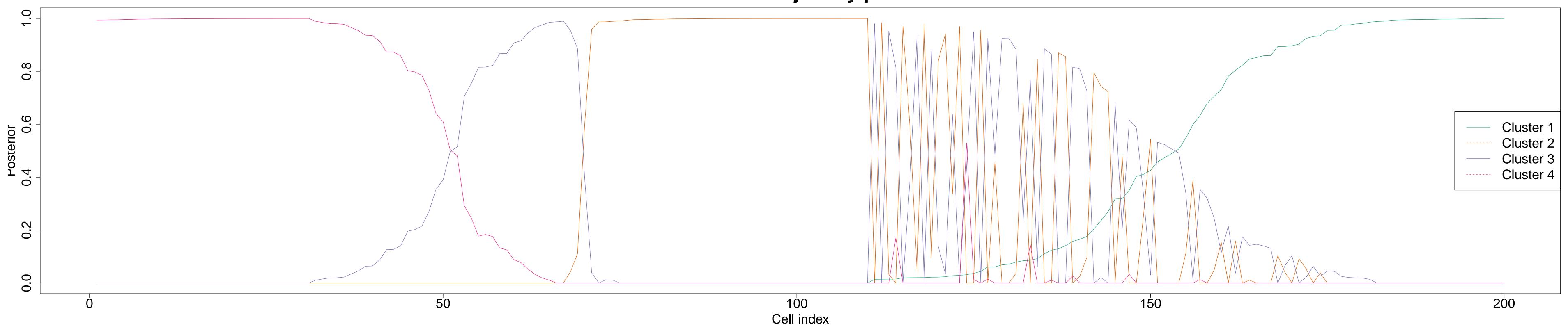
Clustering: UMAP n = 40 | dist = 0.05 UMAP1 vs UMAP2 **BIC** criterion **UMAP Clustering** 1.0 0.5

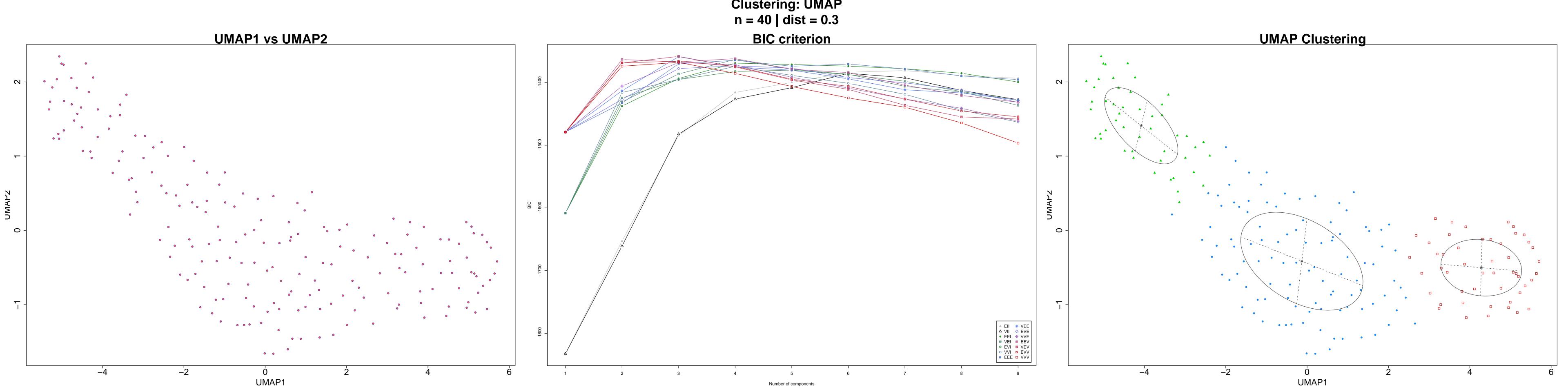


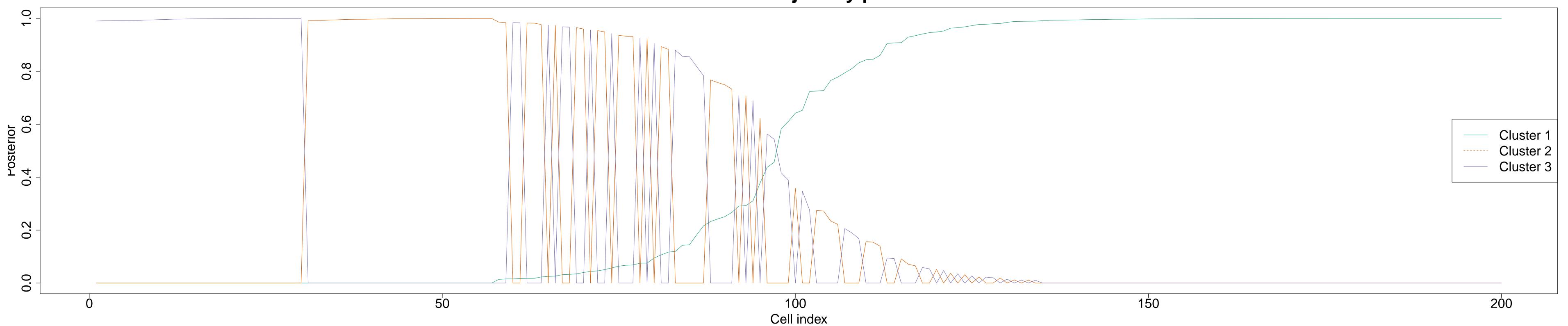


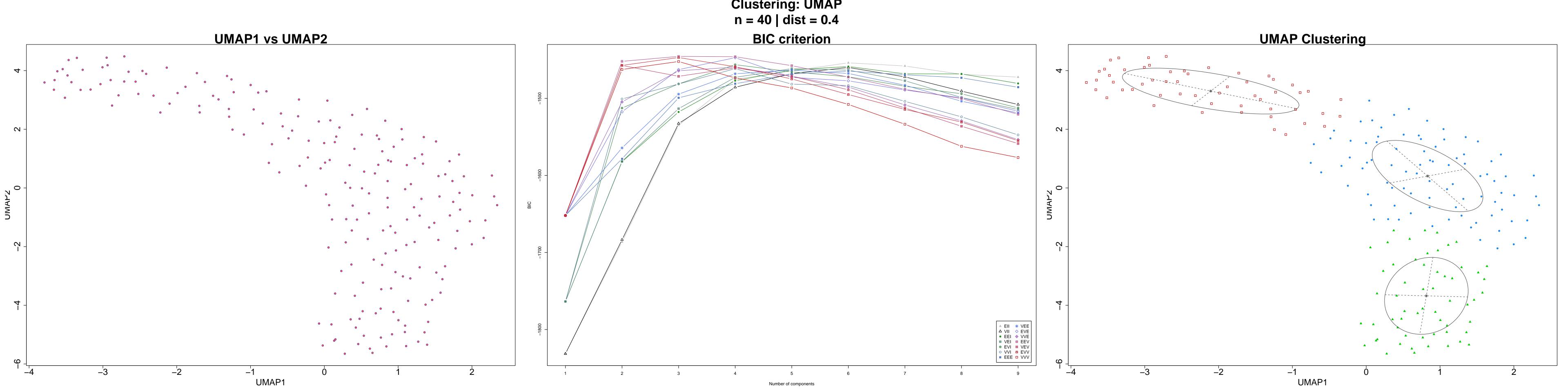


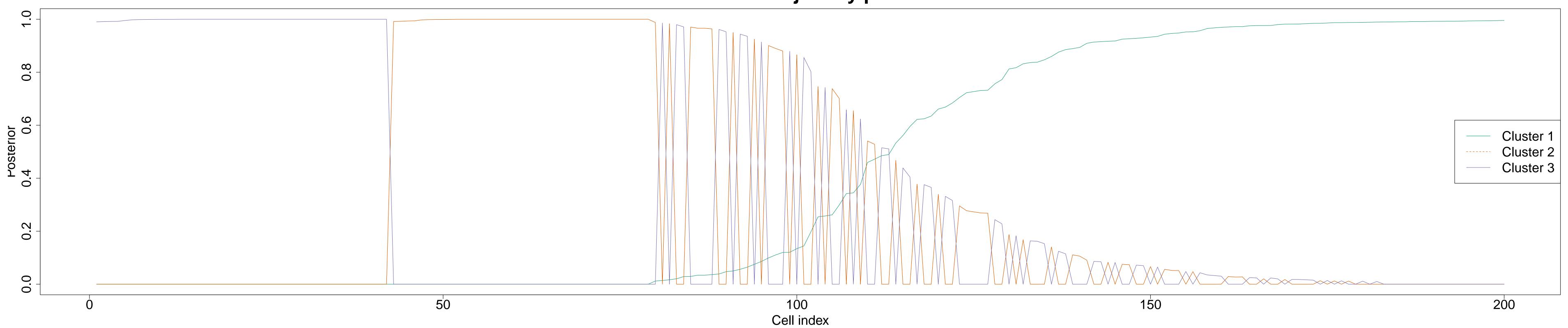
Clustering: UMAP n = 40 | dist = 0.2 **BIC** criterion UMAP1 vs UMAP2 **UMAP Clustering** ▲ EII * VEE
Δ VII ◇ EVE
• EEI • VVE
⊠ VEI ⊞ EEV
• EVI ⊠ VEV
□ VVI □ EVV
■ EEE □ VVV 0.0 UMAP1

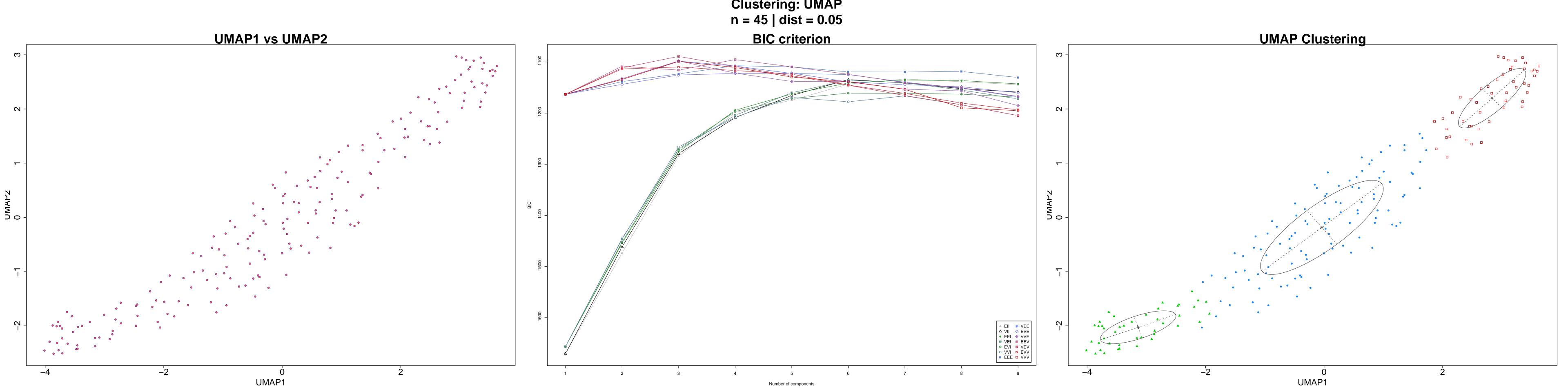


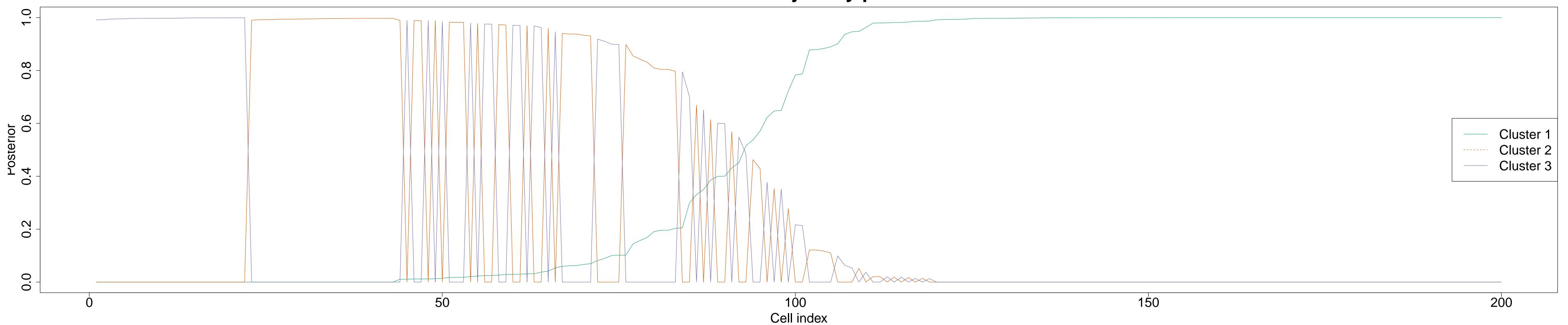




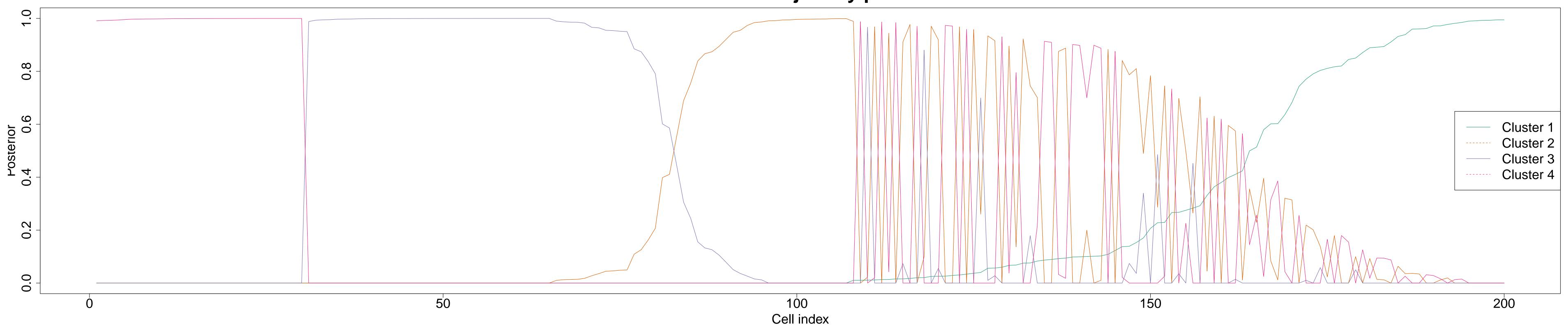


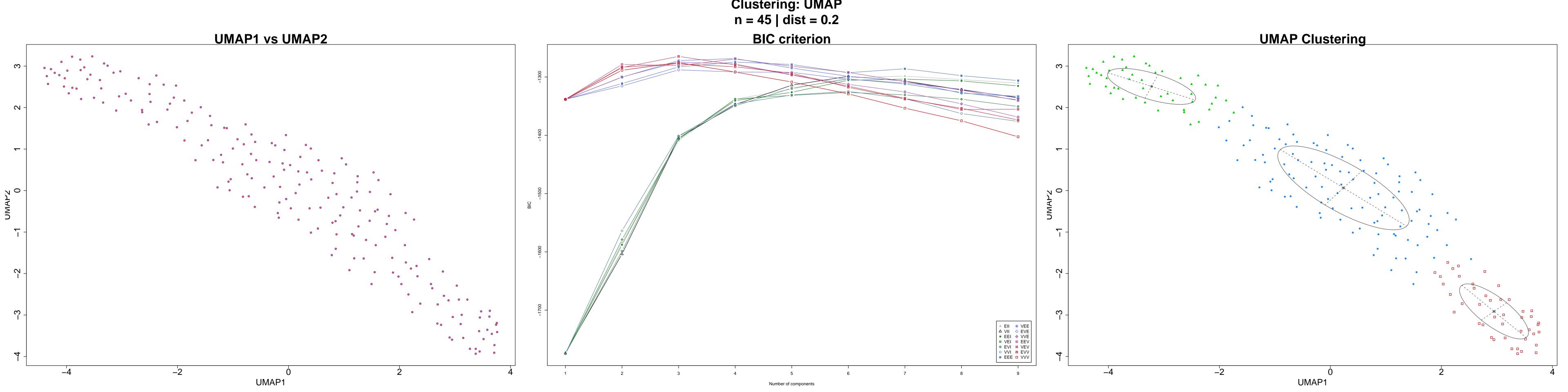


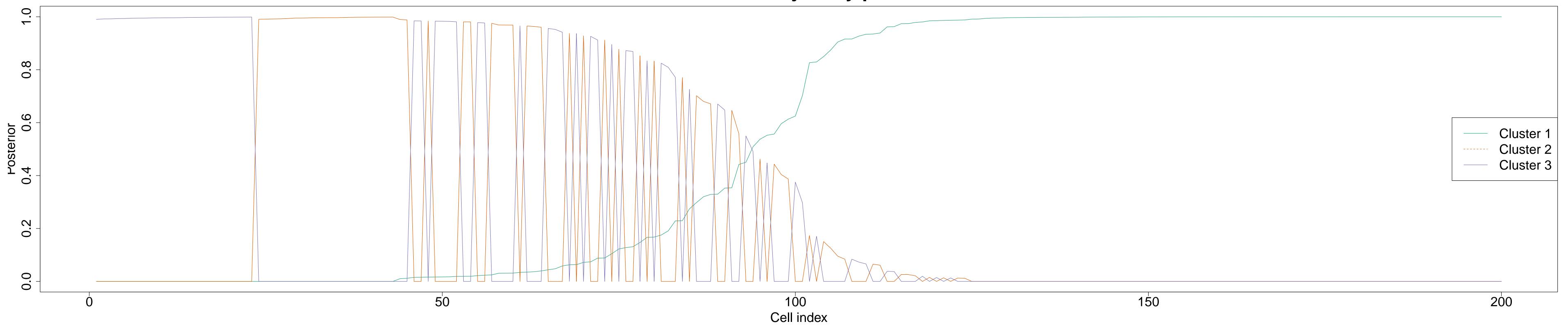


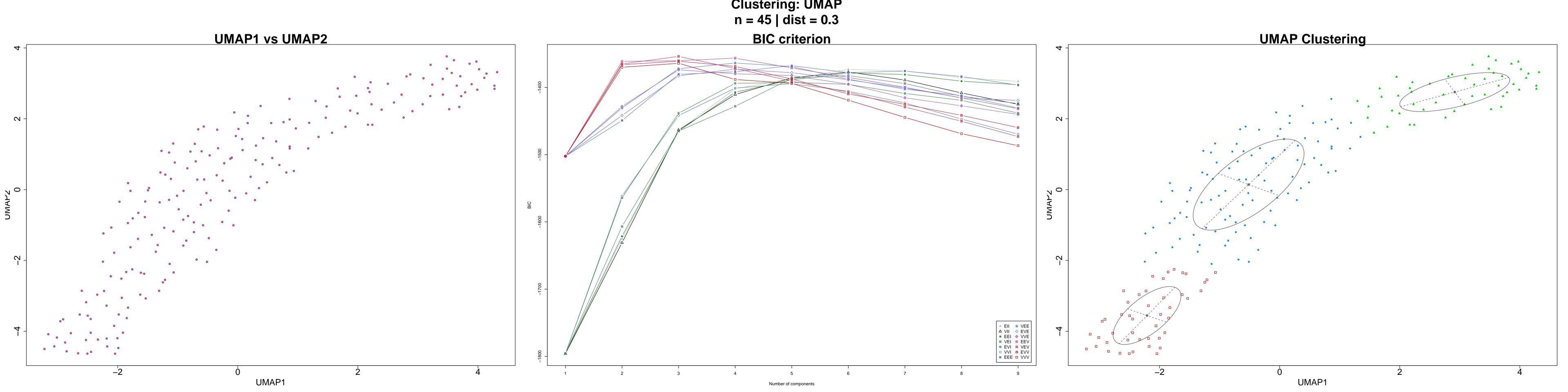


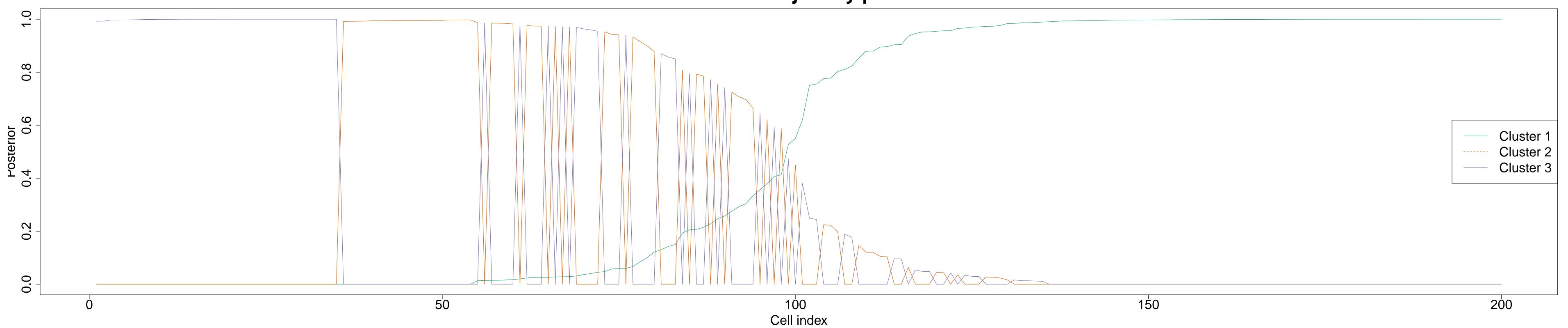
Clustering: UMAP n = 45 | dist = 0.1 UMAP1 vs UMAP2 **BIC** criterion **UMAP Clustering** -0.5 0.0 UMAP1



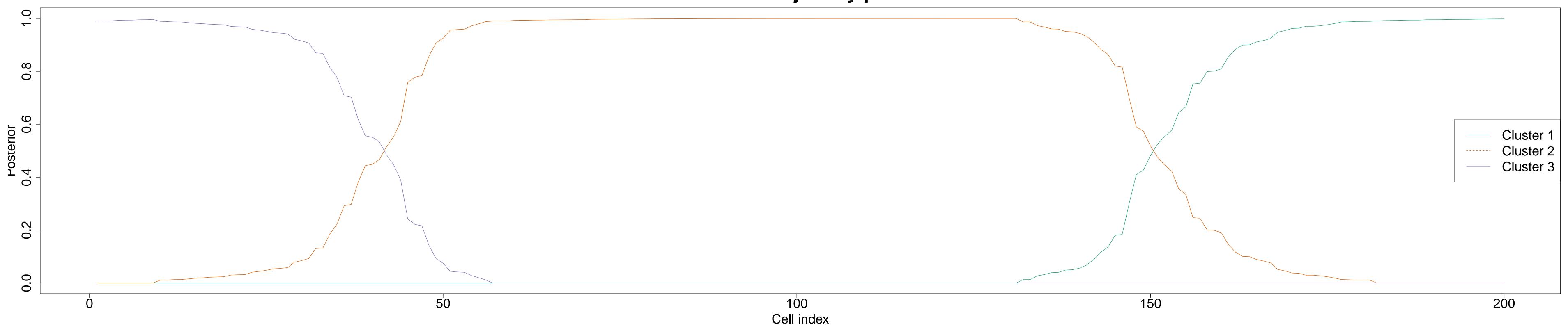


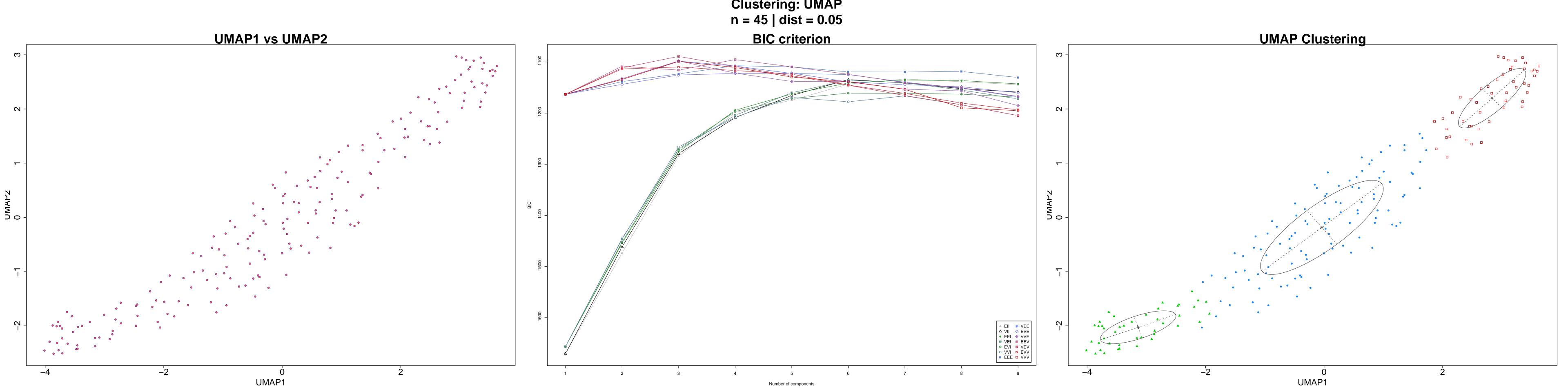


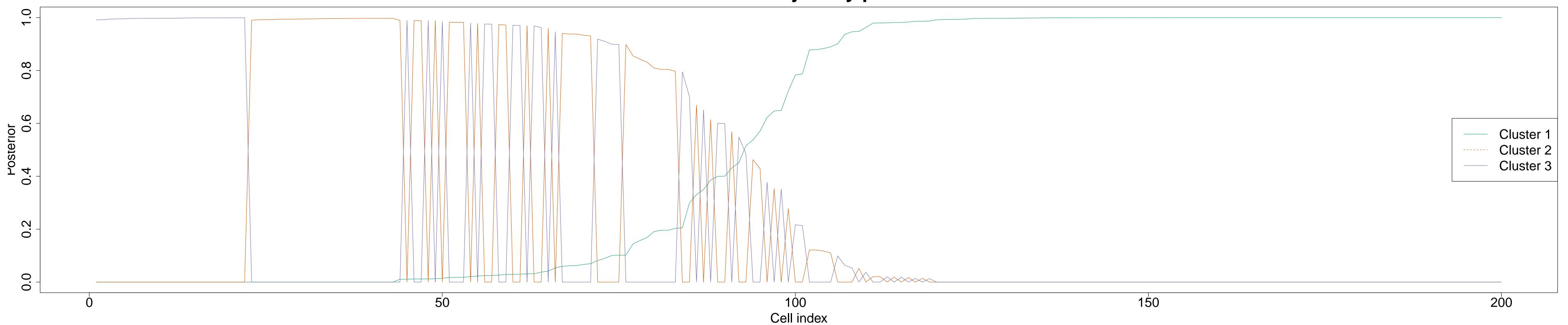


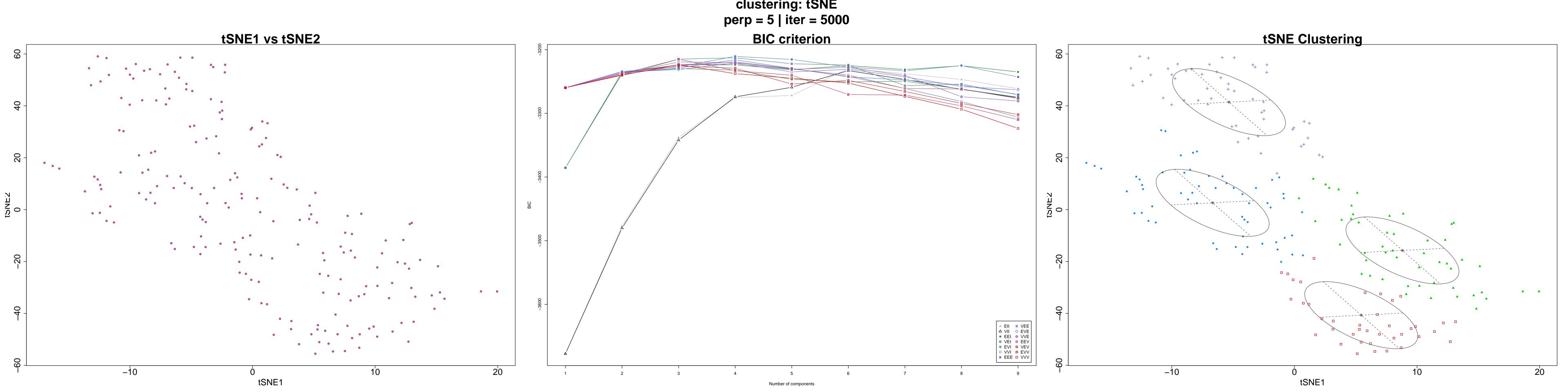


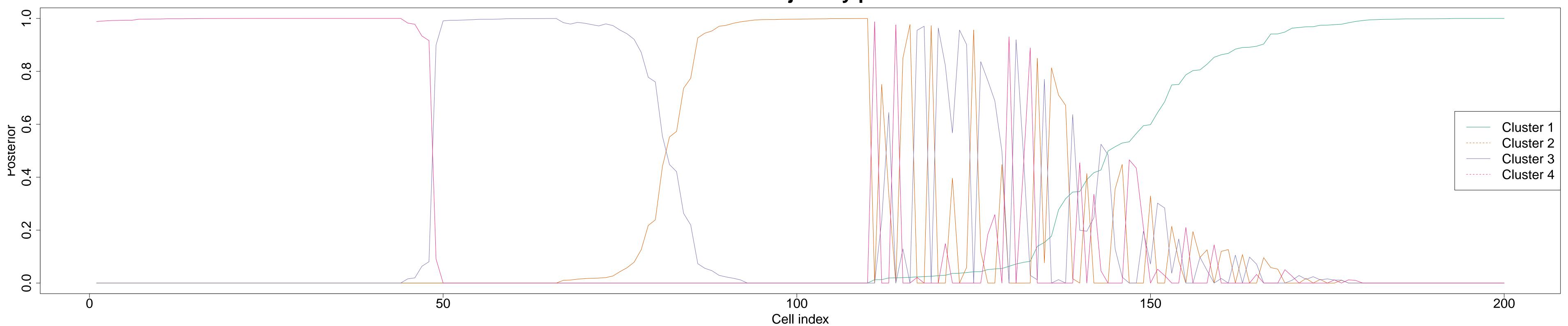
Clustering: UMAP n = 45 | dist = 0.4 UMAP1 vs UMAP2 **BIC** criterion **UMAP Clustering** ▲ EII * VEE
Δ VII ◇ EVE
• EEI ♦ VVE
⊠ VEI # EEV
• EVI ☑ VEV
○ VVI ☑ EVV
■ EEE □ VVV



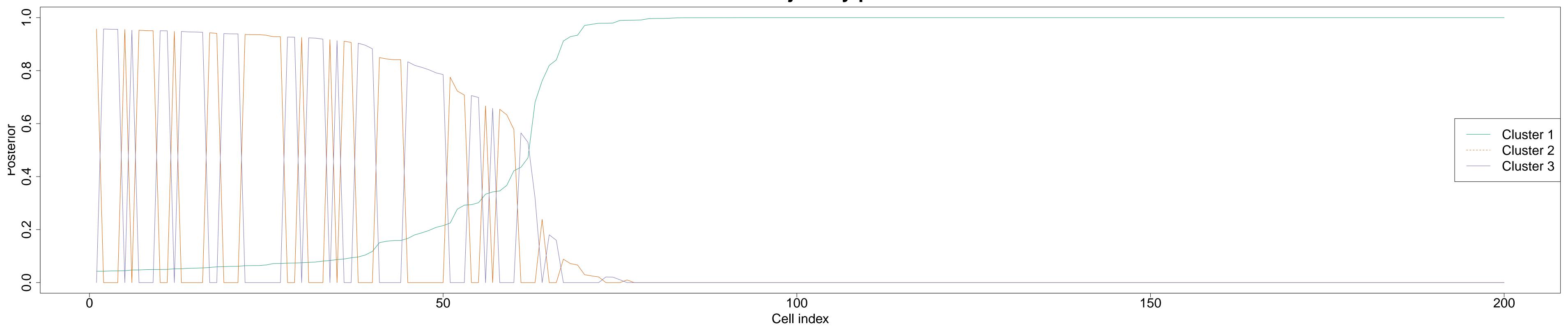




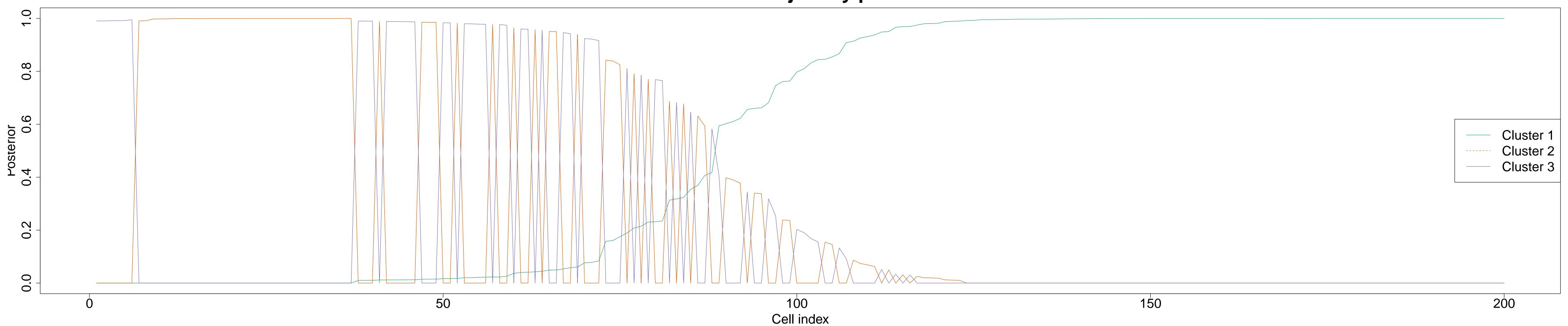


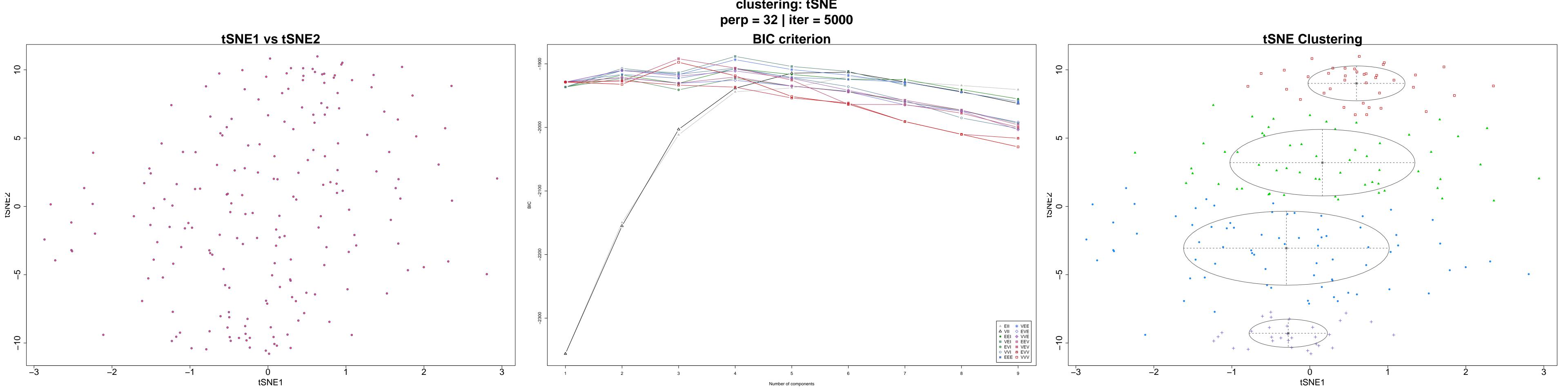


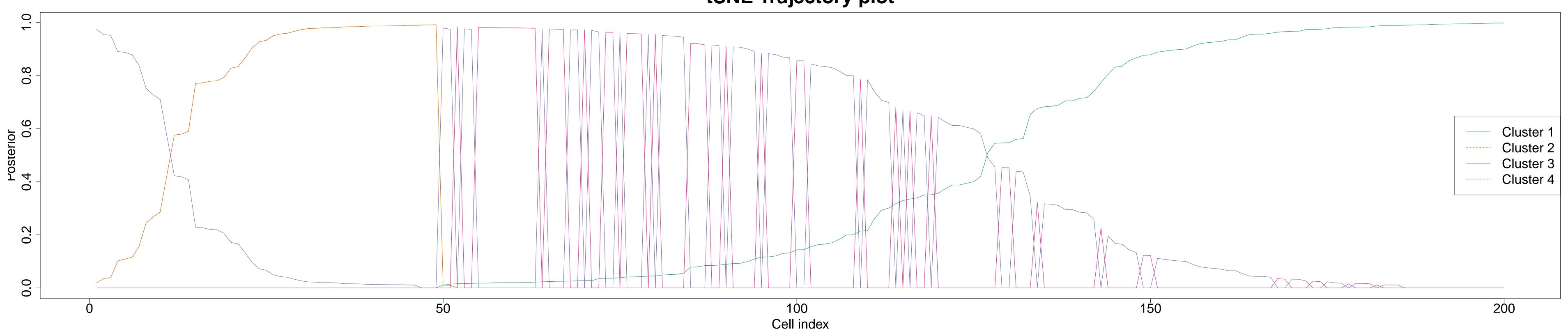
clustering: tSNE perp = 14 | iter = 5000 tSNE Clustering tSNE1 vs tSNE2 **BIC** criterion



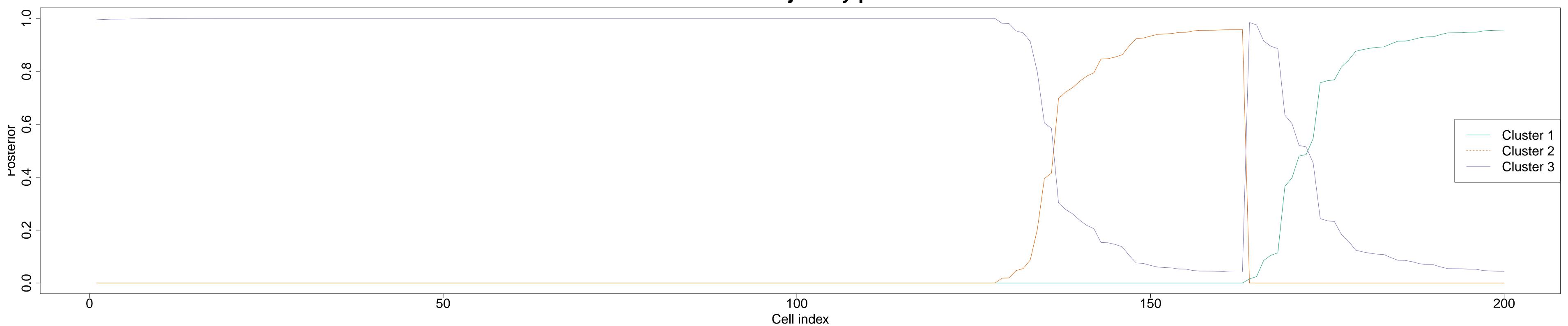
clustering: tSNE perp = 23 | iter = 5000 tSNE1 vs tSNE2 **BIC** criterion tSNE Clustering



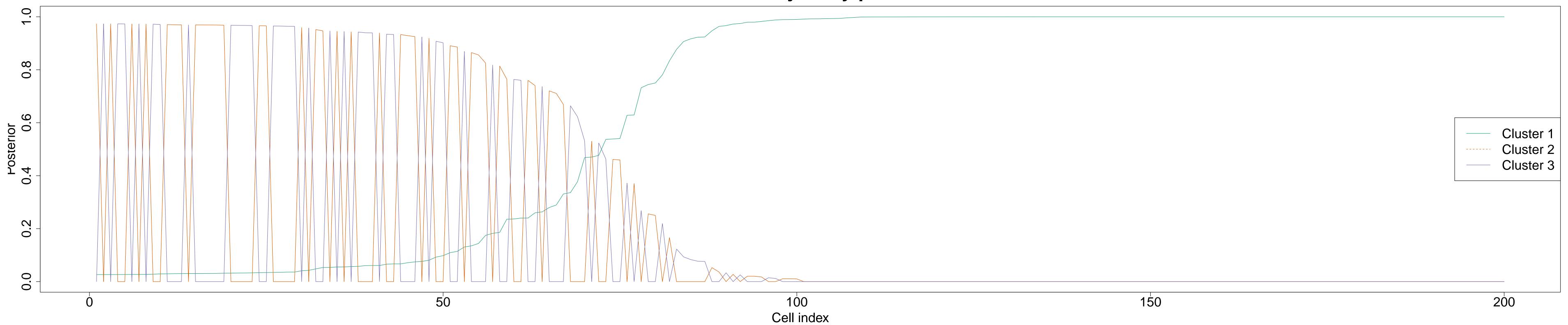




clustering: tSNE perp = 41 | iter = 5000 tSNE Clustering tSNE1 vs tSNE2 **BIC** criterion



clustering: tSNE perp = 50 | iter = 5000 tSNE1 vs tSNE2 **BIC** criterion tSNE Clustering



clustering: tSNE perp = 50 | iter = 5000 tSNE Clustering tSNE1 vs tSNE2 **BIC** criterion

