

**Supplementary Table 1. Results of goodness-of-fit statistics for the better model fit**

Class	Classes 1/2/3/4/5 (%)	AIC	BIC	SABIC	Entropy	LL	ICL
2	48.1/51.9/-/-	15,396.4	15,447.6	15,403.2	0.001	-7,684.2	15,153.9
3	38.7/3.5/57.8/-/-	15,294.6	15,360.4	15,303.4	0.857	-7,629.3	14,824.6
4	35.9/3.8/5.6/54.7/-	15,271.5	15,352.0	15,282.2	0.846	-7,613.7	14,821.9
5	32.8/4.2/4.2/55.4/3.5	15,251.4	15,346.5	15,264.1	0.866	-7,599.7	14,819.6
Selection criteria	-	The lower the better	The lower the better	The lower the better	The closer to one the better	The higher the better	The lower the better

The goodness-of-fit statistics can be assessed to choose the optimal number of groups.

AIC, Akaike information criterion; BIC, Bayesian information criterion; ICL, integrated completed likelihood; LL, log-likelihood; SABIC, sample-sized-adjusted BIC.