

<b>Position</b>	<b>Parameter</b>	<b>Frequency</b>
<b>1</b>	Bur_120	38
	BWB_LT	2
	BWB_streching	50
	BWB_WB	2
	Fcm	2
	Nesting	1
	OF_center	1
	OF_distance	1
	Social_Int_active	2
	SP_percentage	1
<b>2</b>	Bur_120	17
	BWB_LT	2
	BWB_streching	28
	BWB_WB	13
	Fcm	4
	Nesting	11
	OF_center	1
	OF_distance	2
	Social_Int_active	14
	SP_percentage	8
<b>3</b>	Bur_120	12
	BWB_LT	1
	BWB_streching	15
	BWB_WB	26
	Fcm	7
	Nesting	11
	OF_center	3
	OF_distance	4
	Social_Int_active	16
	SP_percentage	5

**Table S3. Top 30 parameters after 100 PCA runs of the training set in the three adult epilepsy models.**