

Cre-line (Session)	Stimuli	Accuracy of Supervised Classifier			
		GMM	SVM	ANN	Bayes
Slc17a7-IRES2 (Session A)	Natural Movie 1	58.0 (± 1.28)	65.4 (± 0.49)	65.0 (± 0.577)	57.10 (± 0.98)
	Natural Movie 3	68.6 (± 1.44)	71.0 (± 0.26)	71.4 (± 0.13)	66.9 (± 0.82)
	Resting State	55.9 (± 1.13)	61.2 (± 0.85)	59.9 (± 1.08)	44.6 (± 1.68)
Slc17a7-IRES2 (Session C2)	Natural Movie 2	59.0 (± 1.01)	63.0 (± 0.33)	62.8 (± 0.50)	55.7 (± 0.59)
Rorb-IRES2 (Session A)	Natural Movie 1	42.2 (± 1.44)	45.2 (± 0.68)	44.9 (± 0.78)	42.0 (± 0.47)
	Natural Movie 3	48.5 (± 1.77)	53.0 (± 0.30)	53.4 (± 0.57)	48.7 (± 0.84)
	Resting State	65.3 (± 1.62)	67.8 (± 1.05)	68.4 (± 1.64)	63.5 (± 1.80)
Rorb-IRES2 (Session C2)	Natural Movie 2	46.8 (± 0.59)	48.3 (± 0.78)	47.6 (± 0.57)	44.6 (± 1.31)
Cux2-CreERT2 (Session A)	Natural Movie 1	37.5 (± 1.16)	43.0 (± 0.68)	43.5 (± 0.70)	39.3 (± 0.72)
	Natural Movie 3	39.0 (± 0.82)	47.7 (± 1.27)	50.1 (± 0.93)	38.7 (± 1.09)
	Resting State	45.8 (± 1.15)	48.6 (± 0.98)	47.3 (± 1.005)	39.2 (± 0.69)
Cux2-CreERT2 (Session C2)	Natural Movie 2	45.6 (± 1.47)	46.9 (± 1.66)	46.4 (± 1.70)	44.9 (± 1.30)
Rbp4 (Session A)	Natural Movie 1	34.6 (± 2.20)	34.6 (± 1.88)	34.5 (± 2.17)	33.1 (± 2.00)
	Natural Movie 3	38.1 (± 2.50)	39.7 (± 2.23)	38.2 (± 2.31)	35.9 (± 2.27)
	Resting State	35.6 (± 1.79)	41.0 (± 2.73)	39.9 (± 2.92)	33.7 (± 2.75)
Rbp4 (Session C2)	Natural Movie 2	34.0 (± 1.64)	34.2 (± 1.09)	32.5 (± 1.51)	31.4 (± 0.81)