

Supplementary Table 1: Summary of memory deficits and emotional alterations in BACE1 knockout mice.

Type of Deficit	Tasks	Onset of the Deficit	Variables with significant differences
Spatial Reference Memory	Classic Version of the Morris Water maze (A-D)	16-18 mo	Time in Annulus 40 (in %) around the platform location (Probe trials, see D)
Spatial Working Memory	Radial Water maze (E-F)	3 mo	Number of Errors to find the Platform in an allocentric version of the task (see Variable Start position, F)
	Spontaneous Alternation in Y maze (G)	3 mo	Percent of spontaneous alternations (see G)
Emotional Deficits (Low anxiety)	Open Field (H,I)	3 mo	Preference to the Central part of the Open Field (% of distance, see H; and number of visits to the Center, see I)
	Plus Maze (J)	3 mo	Percent of visits to open arms of the Plus maze (J)