

Table. The effects of ethologically relevant stressors on the different stages of adult neurogenesis in several mammalian species

Stressor	Cell Proliferation		Cell Survival		Cell Differentiation		Reference
	Brain region	Species	Brain region	Species	Brain region	Species	
Conspecific							
Separation from peers							
Acute	--		--		--		
Subchronic	↑ DG	♂ California mouse	0 DG	Wistar rat	0 DG	California mouse	[70, 71, 72]
	0 DG	♀ California mouse			0 DG, SVZ	♀ prairie vole	
	0 AMY, Cing, CdPu, DG, HYP	♀ prairie vole					
	↑ SVZ	♀ prairie vole					
Chronic	0 AMY, VMH	♀ prairie vole	0 DG	♂ California mouse	↓ AMY	♀ prairie vole	[70, 71, 72, 73, 74]
	↓ DG, MPOA	♀ prairie vole	↓ DG	♀ California mouse	↔ DG	♀ prairie vole	
			↔ AMY, DG	♀ prairie vole	0 MOB	♀ prairie vole	
			0 Cing, CdPu, HYP, MOB	♀ prairie vole	0 DG	♂ Sprague-Dawley rat	
			↔ DG	♂ Sprague-Dawley rat			
			0 DG	♂ Wistar rat			
		↓ DG	♀ Wistar rat				
Separation from offspring							
Acute	--		--		--		
Intermittent	↓ DG	♀ rat	--		--		[82]
Confrontation via dominance							
Acute	--		--		--		
Subchronic	0 DG	♂ Sprague-Dawley rat	↑ DG	♂ baboon	--		[61, 91]
Chronic	↓ DG	♀ Mole-rat	↑ DG	♂ Sprague-Dawley rat	0 DG	♂ Sprague-Dawley rat	[61, 90, 92]
	↑ DG	♂ Sprague-Dawley rat					
Confrontation via social defeat							
Acute	0 DG	♂ mouse, rat	↓ DG	♂ rat	0 DG	♂ marmoset, tree shrew	[51, 100, 101, 102]
	↓ DG	♂ marmoset, tree shrew			↓ DG	♂ rat	
Subchronic	0 AMY	♂ mouse	↓ DG	♂ mouse, rat	↓ DG	♂ mouse	[103, 104, 105, 106]
	↓ DG	♂ mouse, rat			0 DG	♂ rat	

Chronic	↓ DG	♂ rat, tree shrew	↓ DG	♂ rat	0 DG, PFC	♂ rat	[107, 108, 109, 110, 111]
	↓ PFC	♂ rat	↓ PFC	♂ rat			
	0 SVZ, Mot	♂ rat	0 SVZ, Mot	♂ rat			
Nonconspecific							
Acute (short)	0 DG	♂ rat	↔ DG	♂ rat	0 DG	♂ rat	[115, 116, 117, 118]
Acute (long)	↓ DG	♂ rat					
	0 DG	♀ rat					

acute = one exposure not exceeding 24 hours, subchronic = exposure ranging from 2-10 days, chronic = exposure lasting longer than 10 days

AMY: amygdala; Cing.: cingulate cortex; CdPu: caudate putamen; DG: dentate gyrus of the hippocampus; HYP: hypothalamus; MOB: main olfactory bulb; MPOA: medial preoptic area

Mot: primary motor cortex; SVZ: subventricular zone; VMH: ventromedial hypothalamus

↑: increase; ↓: decrease; 0: no change; ↔: mixed findings; -: no data