

**Table S5**  
**Composite Probabilities for Functional Biopathways**  
**Showing the Most Robust Changes In the Hippocampus of SZs and BDs**

	<b>Stratum Oriens</b>			
	<b>CA3/2</b>		<b>CA1</b>	
	<b>SZs</b>	<b>BDs</b>	<b>SZs</b>	<b>BDs</b>
<b>Regulation of cell cycle</b>	8.27E-67	1.79E-81	1.43E-22	3.31E-92
<b>Neurogenesis</b>	1.42E-77	1.45E-109	4.22E-36	1.57E-117
<b>DNA damage response</b>	2.58E-38	9.76E-69	3.05E-23	1.41E-89
<b>Synaptic transmission</b>	2.74E-54	2.64E-87	6.39E-22	5.61E-91

The composite probability  $P_c$  was computed using p-values for individual genes ( $p \leq 0.05$ )

$$\text{Composite Probability, } P_c = \frac{[P_1 \times P_2 \times \dots \times P_i] \times N_p}{(n_r/n_t)} \alpha = 5 \times 10^{-10}$$