Supplementary Data Table 1 | Parameter values of the multiple-exponential equation (5) used to simulate the time course of synaptic conductances.

		ratio to AMPA direct	n	τr (ms)	d1 (%)	τd1 (ms)	d2 (%)	τd2 (ms)	d3 (%)	τd3 (ms)
AMPA direct	**G1**		1.94	0.13	89.38	0.27	9.57	1	1.05	0.1
	G2		1.94	0.13	89.38	0.32	9.57	1.5	1.05	0.2
	G3		1.94	0.13	89.38	0.32	9.57	1.73	1.05	10
	G4		1.94	0.13	89.38	0.32	9.57	1.73	1.05	10
	G5		1.94	0.16	89.38	0.32	9.57	1.73	1.05	20
AMPA Spillover	**G1**	0.34	1.74	0.3	68	0.4	70	1	30	10
	G2	0.34	1.74	0.38	68	0.7	50	3	30	20
	G3	0.34	1.74	0.38	80	0.7	55	5	30	20
	G4	0.34	1.74	0.38	80	0.7	55	5	30	20
	G5	0.34	1.74	0.38	80	0.7	55	6	40	30.86
NMDA	**G1**	0.1	1	1.14	61.41	8.1	35.88	37		
	G2	0.1	1	1.14	61.41	8.1	35.88	37		
	G3	0.1	1	1.14	61.41	8.1	35.88	37		
	G4	0.1	1	1.14	61.41	8.1	35.88	37		
	G5	0.1	1	1.14	61.41	8.1	35.88	37		

Supplementary Data Table 2 | Parameter values used to simulate the short-term plasticity of synaptic conductances.

		D	τD (ms)	F	Fmax	τF (ms)
AMPA direct	**G1**	0.4	50			
	G2	0.7	50			
	G3	0.75	50			
	G4	0.85	50			
	G5	0.75	50	2.2	2.2	30
AMPA Spillover	**G1**	0.6	50			
	G2	0.7	50			
	G3	0.85	50			
	G4	0.95	50			
	G5	0.95	50			
NMDA	**G1**	0.6	70			
	G2	0.85	70			
	G3	0.9	70	1.7	3.5	3.5
	G4	0.9	70	2	4.5	30
	G5	0.9	70	2.5	5	30