

**Figure S1:**

		<b><i>W</i></b>	<b><i>p-value</i></b>
<b>Figure 1</b>	A. miR-138-5p expression	0.95	0.4677
	B. Casp3 expression	0.93	0.3075
	C. pro-CASP-3 expression	0.85	0.101
<b>Figure 3</b>	B. pro-CASP-3 expression after LGA stimulation	0.91	0.391
	C. cleaved-CASP-3 expression after LGA stimulation	0.93	0.707
<b>Figure 4</b>	B. Caspase activity	0.89	0.109
	C. Neuronal density	0.84	0.001 ***
<b>Figure 5</b>	B. Neuronal survival	0.72	0.943
	C. Neuronal death	0.98	0.987
	D. Neuronal density	0.8	0.00028 ***
<b>Figure 6</b>	Diferences between treatments at 1 d	0.82	0.111
	Diferences between the two maturation times	0.82	0.015 **

**Figure S1.** Normality analysis of the studied data. The table show the *W* and *p*-value of the statistical analyzes of normality performed on the data of the exposed results. \*\* and \*\*\* denote significant differences ( $p < 0.01$  and  $p < 0.001$ , respectively) and, therefore, absence of normality.

**Figure S2:****A**

miR-138-5p	1 d	4 d	7 d	14 d	18 d
mean $\Delta$ Ct	2.71 $\pm$ 0.80	2.07 $\pm$ 0.77	1.00 $\pm$ 0.68	0.66 $\pm$ 0.80	0.75 $\pm$ 0.80
$2^{-\Delta\Delta$ Ct	1.00	0.64	0.31	0.24	0.26
(95% CI)		(0.20 ; 2.02)	(0.10 ; 0.97)	(0.08 ; 0.76)	(0.08 ; 0.81)

  

ANOVA	df	F value	p-value	Tukey test p-value	4 d - 1 d	n.s.
exp	2	88.70	p < 0.001		p-value	7 d - 1 d
days	4	63.29	p < 0.001	14 d - 1 d		p < 0.001
					18 d - 1 d	p < 0.001

**B**

Casp3	1 d	4 d	7 d	14 d	18 d
mean $\Delta$ Ct	14.28 $\pm$ 1.47	15.01 $\pm$ 1.64	14.88 $\pm$ 1.60	16.38 $\pm$ 1.33	16.87 $\pm$ 1.59
$2^{-\Delta\Delta$ Ct	1.00	1.66	1.51	4.29	6.02
(95% CI)		(0.15 ; 18.11)	(0.14 ; 16.47)	(0.39 ; 46.85)	(0.55 ; 65.71)

  

ANOVA	df	F value	p-value	Tukey test p-value	4 d - 1 d	n.s.
exp	2	36.42	p < 0.05		p-value	7 d - 1 d
days	4	6.86	p < 0.001	14 d - 1 d		p = 0.05
					18 d - 1 d	p < 0.05

**C**

miR-138-5p	1 day		14 days	
	Ctr	LGA	Ctr	LGA
mean $\Delta$ Ct	2.57 $\pm$ 0.67	2.81 $\pm$ 0.81	1.87 $\pm$ 0.29	1.85 $\pm$ 0.11
$2^{-\Delta\Delta$ Ct	1.00	0.84	1.00	1.02
(95% CI)	(0.39 ; 2.58)	(0.31 ; 2.70)	(0.55 ; 1,82)	(0.37 ; 2.81)

**Figure S2.** Quantification and analysis tables for the RT-qPCR analysis of Figures 1 and 6. (A) and (B) Tables show the microRNA and mRNA expression of miR-138-5p and Casp3 as the mean  $\Delta$ Ct and the fold change  $2^{-\Delta\Delta$ Ct (values and limits in folds of the 95% CI) of four independent experiments per time. Statistical analysis was carried out through two-way ANOVA and Tukey post-hoc tests. (C) The table shows the expression of miR-138-5p as the mean  $\Delta$ Ct and the fold change  $2^{-\Delta\Delta$ Ct (values and limits in folds of the 95% CI) of three independent experiments per time.