

# Resveratrol Alleviates the Early Challenges of Implant-Based Drug Delivery in a Human Glial Cell Model

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**Table S1:** PEG400 does not have a significant effect on HMC3 and SVGA. HMC3:

Mean +/- SD	Control	+ PEG	p < 0.05?	OGD	OGD + PEG	p < 0.05?
ROS FACS (MFI)	1843 +/- 161.9	1502	ns	6719 +/- 1284	5648 +/- 537.6	ns
Cytokines qPCR ( $\Delta\Delta\text{ct}$ )	IL1 $\beta$ : 1 IL6: 1	IL1 $\beta$ : 1,232 +/- 0.8887 IL6: 1.213 +/- 0.6929	IL1 $\beta$ : ns IL6: ns	IL1 $\beta$ : 3,240 +/- 1.159 IL6: 2.099 +/- 1.007	IL1 $\beta$ : 2,738 +/- 1.760 IL6: 2.105 +/- 1.591	IL1 $\beta$ : ns IL6: ns
Cytokines ELISA (pg/mg)	IL1 $\beta$ : 9,551 +/- 3.258 IL6: 68.01 +/-	IL1 $\beta$ : 9,095 +/- 1.336 IL6: 68.51 +/- 10.72	IL1 $\beta$ : ns IL6: ns	IL1 $\beta$ : 85,49 +/- 5.778 IL6: 330.4 +/- 38.84	IL1 $\beta$ : 71,23 +/- 20.32 IL6: 340.3 +/- 21.05	IL1 $\beta$ : ns IL6: ns

	4.028					
Caspases3 /7 activity (RLU)	26703 +/- 5847	26896 +/- 5642	ns	27693 +/- 4394	24060 +/- 4483	ns
Proliferatio n (n-fold)	14,44 +/- 4,457	11,75 +/- 3,566	ns	6,303 +/- 1,516	5,475 +/- 2,422	ns
HIF-1α ELISA (pg/mg)	537,9 +/- 94,95	560,5 +/- 72,98	ns	453,1 +/- 160,2	333,3 +/- 109,9	ns

SVGA:

Mean +/- SD	Control	+ PEG	p < 0.05?	OGD	OGD + PEG	p < 0.05?
ROS FACS (MFI)	2329 +/- 232.2	2011	ns	8066 +/- 1071	8343 +/- 2587	ns
Galectin-3 qPCR (ΔΔct)	1,000	0,9872 +/- 0.3951	ns	1,727 +/- 0.4713	1,853 +/- 0.4840	ns
Galectin-3 ICC (FI/	163004 +/-	181920 +/- 36675	ns	303700 +/- 51657	231984 +/- 75044	ns

count)	42915					
Caspases3 /7 activity (RLU)	15401 +/- 2217	13403 +/- 1841	ns	33587 +/- 10591	30019 +/- 4497	ns
Proliferatio n (n-fold)	8,559 +/- 0,9907	11,59 +/- 3,497	ns	6,503 +/- 1,055	7,722 +/- 2,316	ns
HIF-1α ELISA (pg/mg)	406,6 +/- 31.07	383,6 +/- 155	ns	1095 +/- 207.5	734,9 +/- 155.6	ns
HIF-1α ICC (FI/ count)	237881 +/- 119885	166139 +/- 144429	ns	637951 +/- 189280	656002 +/- 211290	ns

**Figure S1:** Secondary antibody controls for immunocytochemistry shown in Figures 3 and 5. The primary antibodies were omitted during the staining procedure.

Representative images from n = 3 independent cell cultures (scale bar: 50  $\mu$ m)

