

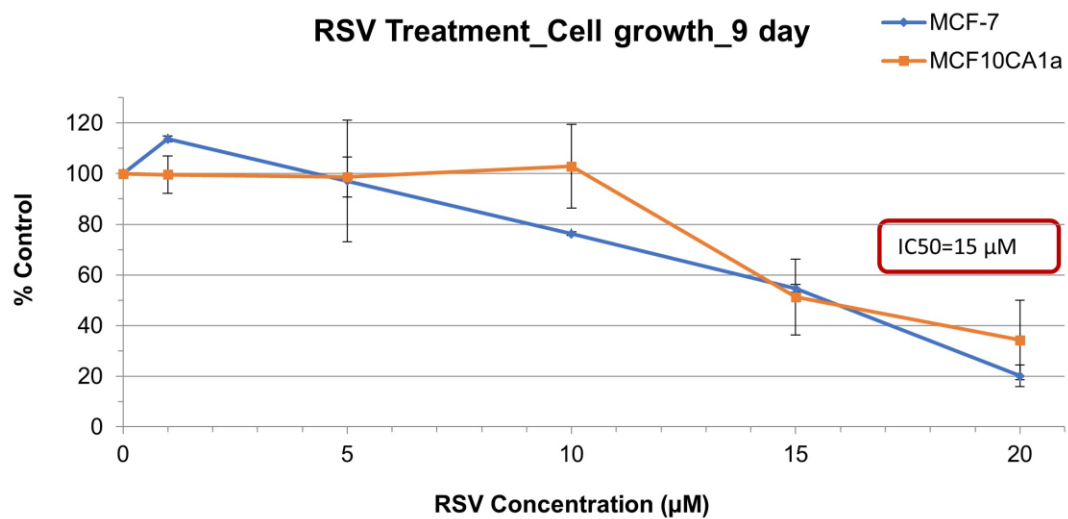
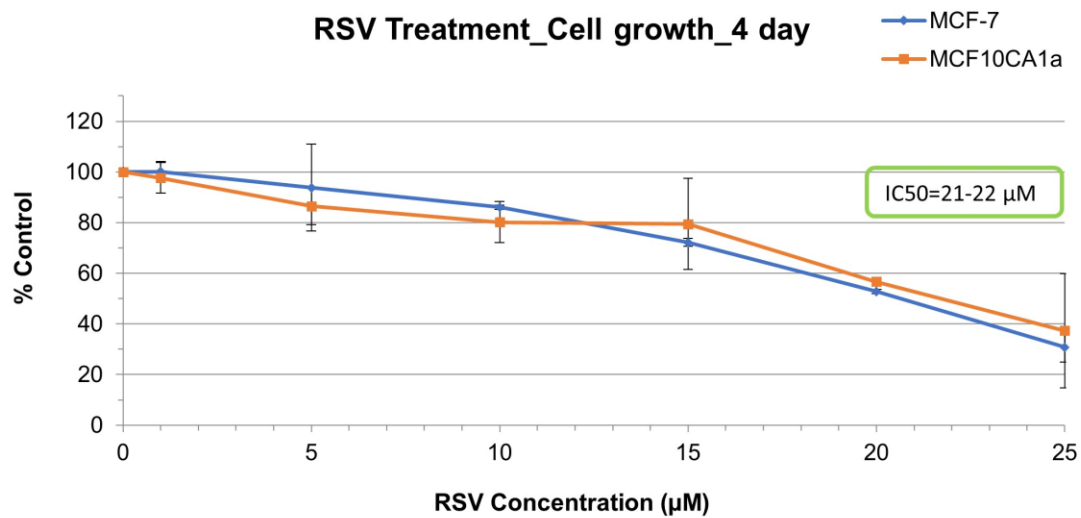
## **Supplementary Data**

### **Supplementary Figure S1: Resveratrol (RSV) exerts a dose-dependent effect on growth of**

**breast cancer cells.** Resveratrol (RSV) exerts a dose-dependent effect on growth of breast cancer cells. Effect on cell growth after 4- and 9-day treatments with RSV at 1–25  $\mu$ M concentrations in MCF10CA1a (data adapted from Ref 16) and MCF-7 breast cancer cells, as measured with a trypan blue exclusion test. Cell number is expressed as a percentage of control (cells treated with vehicle-ethanol). IC<sub>50</sub>, which refers to a non-cytotoxic dose causing a 50% decrease in cell growth and less than 10% cell mortality, was determined to be between 21–22 $\mu$ M at day 4 and 15 $\mu$ M at day 9 in both cell lines. All results represent mean  $\pm$  SD of three independent experiments.

# "Epigenetic effects of resveratrol on oncogenic signaling in breast cancer"

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**Supplementary Table S1.** Pyrosequencing, qRT-PCR and quantitative ChIP (qChIP) primer sequences for the selected gene targets.

<b>Supplementary Table S1.</b> Primer sequences used in qRT-PCR, pyrosequencing and qChIP.		
<b>Gene</b>	<b>Primer sequences</b>	<b>Annealing temperature [°C]</b>
<b>qRT-PCR</b>		
GLI2	FW 5'-GGTACCATTACGAGCCTCATTG-3' RV 5'-AAAGCCGGATCAAGGAGATG-3'	59
WNT4	FW 5'-CCTTCGTGTACGCCATCTCT-3' RV 5'-TCAGAGCATCCTGACCACTG-3'	59
BCL2	FW 5'-CAGAAGTCTGGGAATCGATCTG-3' RV 5'-AATCTTCAGCACTCTCCAGTTATAG-3'	59
EpCAM	FW 5'-CCAGAACAATGATGGGCTTTATG-3' RV 5'-CAGTGTCTTGTCTGTTCTTCT-3'	59
CCND1	FW 5'-AAATGTGTGCAGAAGGAGGTC-3' RV 5'-AGCGGTCCAGGTAGTTCAT-3'	59
CYR61	FW 5'-GGCAGACCCTGTGAATATAACT-3' RV 5'-ACGGCGCCATCAATACAT-3'	59
<b>Pyrosequencing</b>		
GLI2	FW 5'-AGGAGGTATTGGGGAAGTTAT-3' RVBio 5'-CATTCCCCTAATCATCTATAAATTACAATC-3' Seq 5'-GTATTGGGGAAGTTATAGT-3'	53.5
WNT4	FW 5'- GAAGGGATTGTGTTTTAGTTATTTAGT-3' RVBio 5'- CCAACCCACCATACATACTCCAACCTCA-3' Seq1 5'- ATGTTTTTATTTTTTTAAGAATTGT-3' Seq2 5'- AGAGAGTTATGGAATTAAGATTTA-3'	49
<b>qChIP</b>		
GLI2	FW 5'-TTCTAGCATGCAAGCCTGTG-3' RV 5'-GGACTTGCTGGAGCACAC-3'  FW 5'-CGTGTGCTCCAGCAAGT-3' RV 5'-TAGTCAGTGAATGCAGAGTGAAA-3'  FW 5'-TGCAGCTGCTTCACCATAAA-3' RV 5'-ATGTGACCTCAGGCCCTTAT-3'  FW 5'-CTGAGAAGGGTGGTTCTGTAG-3' RV 5'-GGTCAGGATTCAAGGCAAGT-3'	59

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	FW 5'-CCCTCTGTGTCCTCCTTCTTA-3' RV 5'-AAAGCCGGATCAAGGAGATG-3'	
	FW 5'-CACGCTCTCCATGATCTCTG-3' RV 5'-GCTGAGGAGTTGACAGTGTTAG-3'	
WNT4	FW 5'-CCTCGCCTGAATGGATGTT-3' RV 5'-CTCCAGAAAGAGAGTCCACAAC-3'	59
	FW 5'-TGGCTTCAGAGCTTGTGTT-3' RV 5'-GCCTGTCTGGTCTTCCATAAA-3'	
	FW 5'-GAGGAGTTGCCCTTCCTTATG-3' RV 5'-GGGTTACGTAGAAGCTGTTGT-3'	
	FW 5'-TGGTTGGCAATTACCTCTGT-3' RV 5'-GCACAGAGAAGGTGATTGTTTC-3'	
	FW 5'-AGACAGAGTCTTCTCCGAGTTA-3' RV 5'-TGGTTCAGGCCTGGAATAC-3'	