

**Table S2.** Correlation analysis of PPAR $\beta/\delta$ , VEGF and Cox-2 expression in human lung cancer microarray datasets

Lung Cancer Dataset	Number of samples	Gene	Pearson R	Pearson p-value
Rohrbeck	47	VEGFA	0.59	1.3E-05
		Cox-2	0.50	3.7E-04
Garber	73	VEGFA	0.44	1.1E-04
		Cox-2	nc	ns
Hou	156	VEGFA	0.26	0.001
		Cox-2	0.25	0.001
DirectorsChallenge	443	VEGFA	0.25	8.7E-08
		Cox-2	nc	ns

Genome-wide transcriptome datasets from four independent studies (PMID: 18992152, 11707590, 20421987, 18641660) including human lung cancer and normal lung samples were downloaded and normalized gene expression values for PPAR $\beta/\delta$ , VEGF and Cox-2 were used for correlation analysis. Pearson correlation coefficient and corresponding p-values of VEGFA and COX-2 expression with respect to PPAR $\beta/\delta$  were calculated for the samples in each dataset. *nc*, no correlation. *ns*, non significant.