Article Title: Gene Expression Changes in Spleens and Livers of Tumour-Bearing Mice Suggest Anti-Inflammatory Effects of Oil Palm Phenolics in Delaying Tumour Growth.

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SUPPLEMENTARY MATERIAL 5.

Real-time qRT-PCR validation.

(A) Genes used in real-time qRT-PCR validation experiments. These four target genes, *Sirt1* (spleen), *Tgfb1* (spleen), *Rxra* (liver) and *Tiam1* (liver), were selected based on their functional significance, their statistical significance, their presence as single splice transcripts in microarrays and their availability as Taqman assays designed across splice junctions. The three most stable out of four housekeeping genes tested (*Rasa1*, *Sema4a*, *Tpst2* and *18S rRNA*), as determined by the geNorm software, were used to normalise the gene expression data of the target genes.

(B) Correlation of gene expression fold changes between microarray and real-time qRT-PCR data. Validation of the microarray data via real-time qRT-PCR shows that correlation of fold changes obtained by these two gene expression profiling techniques was high with an R^2 = 0.9444.

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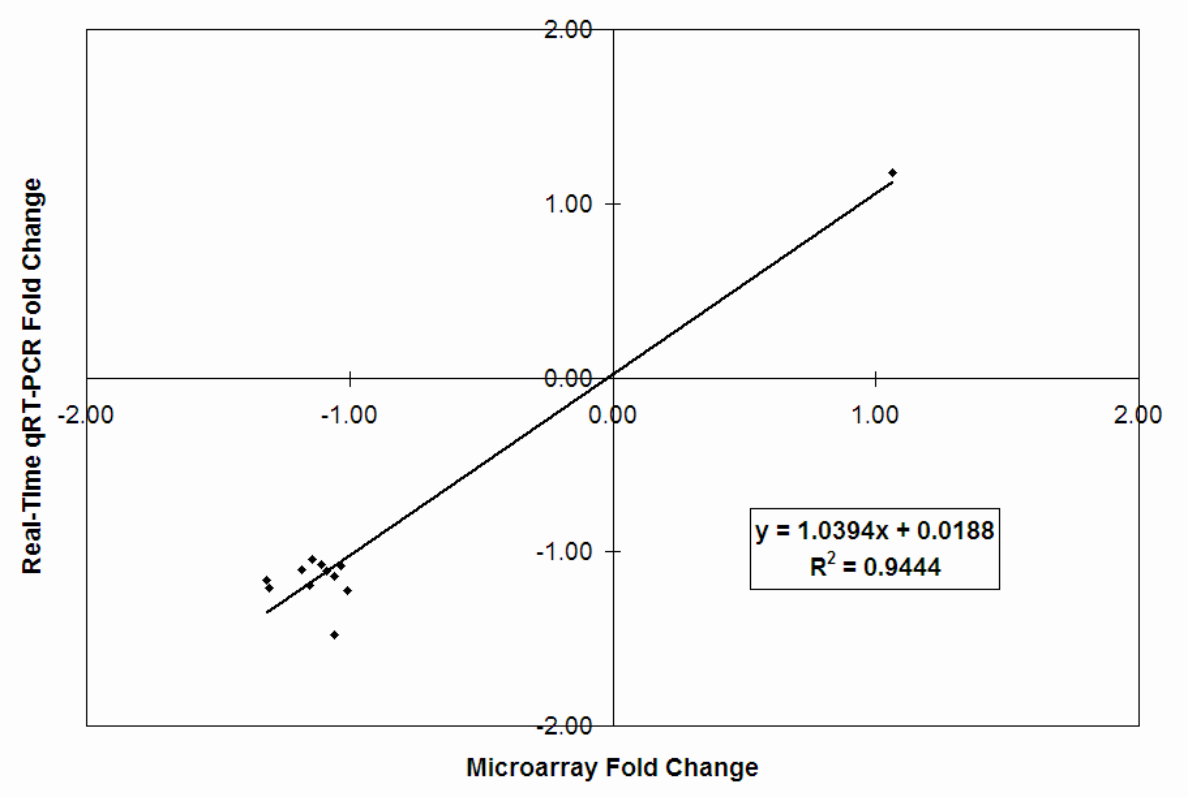
Sample	Symbol	Definition	Assay ID
Spleen	*Sirt1*	*Mus musculus* sirtuin 1 (silent mating type information regulation 2 homologue) 1 (*Saccharomyces cerevisiae*)	Mm00490758_m1
Spleen	*Tgfb1*	*Mus musculus* transforming growth factor beta 1	Mm00441724_m1
Liver	*Rxra*	*Mus musculus* retinoid X receptor alpha	Mm00441182_m1
Liver	*Tiam1*	*Mus musculus* T-cell lymphoma invasion and metastasis 1	Mm00437071_m1
All	*Rasa1*	*Mus musculus* RAS p21 protein activator 1	Mm00520858_m1
All	*Sema4a*	*Mus musculus* sema domain immunoglobulin domain (Ig) transmembrane domain (TM) and short cytoplasmic domain (semaphorin) 4A	Mm00443140_m1
All	*Tpst2*	*Mus musculus* protein-tyrosine sulphotransferase 2	Mm00493809_m1
All	*18S rRNA*	Eukaryotic 18S rRNA endogenous control	4352930E

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