

Gla-rich protein is involved in the cross-talk between calcification and inflammation in osteoarthritis

Cellular and Molecular Life Sciences

Sofia Cavaco, Carla S. B. Viegas, Marta S. Rafael, Acácio Ramos, Joana Magalhães, Francisco Blanco, Cees Vermeer, Dina C. Simes ‡

‡Corresponding author:

Dina C. Simes, Centre of Marine Sciences (CCMAR), University of Algarve, Campus de Gambelas, 8005-139 Faro, Portugal

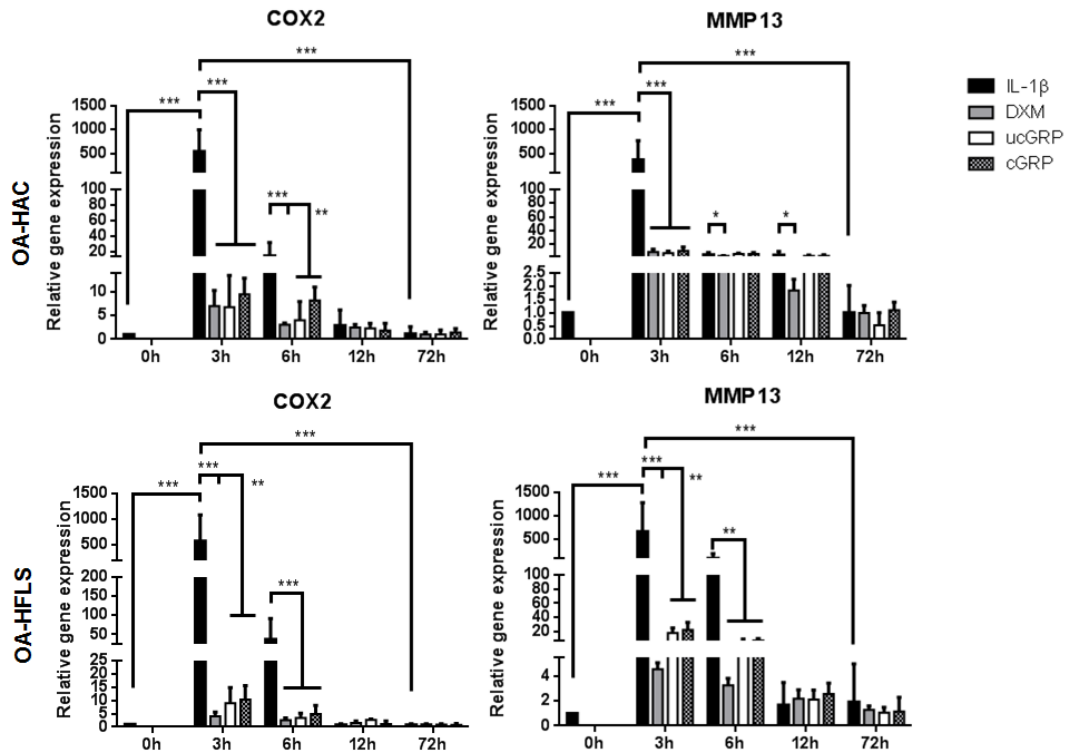
Tel: +351 289 800100 Fax: +351 289 800069 E-mail: dsimes@ualg.pt

Online Resource 1

Table 1 Gene-specific primers used in this study

Gene	Primer name	Sequence (5' to 3')
18S	18S_F	GGAGTATGGTTGCAAAGCTGA
	18S_R	ATCTGTCAATCCTGTCCGTGT
OC	OC_F	CAGCGAGGTAGTGAAGAGACCCAGG
	OC_R	AGGGCAAGGGGAAGAGGAAAGAAGG
COMP	COMP_F	CTGCCTTCAATGGCGTGGACTTCG
	COMP_R	GGAAGGGGTTTCGCTGCCAATAC
Col2a1	Col2a1_F	CCTCGTGGGTCCCAGGGGTGAA
	Col2a1_R	TGAAGACCTGGAGGGCCCTGTGCG
Col10a1	Col10a1_F	AGCTGCCAAGGCACCATCTCCA
	Col10a1_R	AGTGGGCCTTTTATGCCTGTGGGC
MMP13	MMP13_F	AACCGTATTGTTTCGCGTCATGCCAG
	MMP13_R	GATAGCTCTTCTTCCCCTACCCCGC
Vimentin	Vimentin_F	TGCGTCTCTGGCACGTCTTGACCT
	Vimentin_R	AGGGCGTCATTGTTCCGGTTGGCA
CD68	CD68_F	ACAGGACAACCACCACAGGCACCA
	CD68_R	GTGGCAGTGCTGTTGCTTGTGGGA
GRP-F1	GRPF1_F	GTCCCCCAAGTCCCGAGATGAGG
	GRPF1_R	CCTCCACGAAGTTCTCAAATTCATTCC
MGP	MGP_F	TGGAGGCTGGCACCTGATTTTG
	MGP_R	AAAAGGGGTGCAGCCAGACAAG
GGCX	GGCX_F	TTACACAGAGTCGGCGATGGAAGGAT
	GGCX_R	TACTGGATGTCAGGTCTGCGAAA
VKORC1	VKORC1_F	AGGGCAAGGCTAAGAGGCACTGAG
	VKORC1_R	CTGGGCAATGGAAAGAGCTTTGGAGAC
Osx	Osx_F	CAAGGTGTATGGCAAGGCTTCGCA
	Osx_R	TGCTGGCGAGGCAGAAGGTCGGGGCGT
OPN	OPN_F	ACGGACCTGCCAGCAACCGAAGT
	OPN_R	TACTGGATGTCAGGTCTGCGAAA
COX2	COX2_F	TGGTCTGGTGCTGGTCTGATGATGT
	COX2_R	GCCTGCTTGTCTGGAACAACCTGCTCA

Online Resource 2



Online Resource 1 Effect of GRP in OA-derived chondrocytes and synoviocytes under inflammatory conditions, and comparison with dexamethasone (DXM). Gene expression of COX2 and MMP13 in OA-HAC and OA-HFLS cells pre-treated with 500 ng/mL of ucGRP or cGRP or 2 μ M DXM followed by IL-1 β stimulation (5 ng/mL) during 72 h. Cells without the pre-treatment were also analysed (IL-1 β). Control corresponds to cells left untreated. Values are relative to the reference sample (0 h). Data is representative of three independent experiments. Two-way Anova and multiple comparisons were achieved with the Tukey's test. Statistical significance was defined as $P \leq 0.05$ (*), $P \leq 0.005$ (**) and $P \leq 0.0005$ (***)