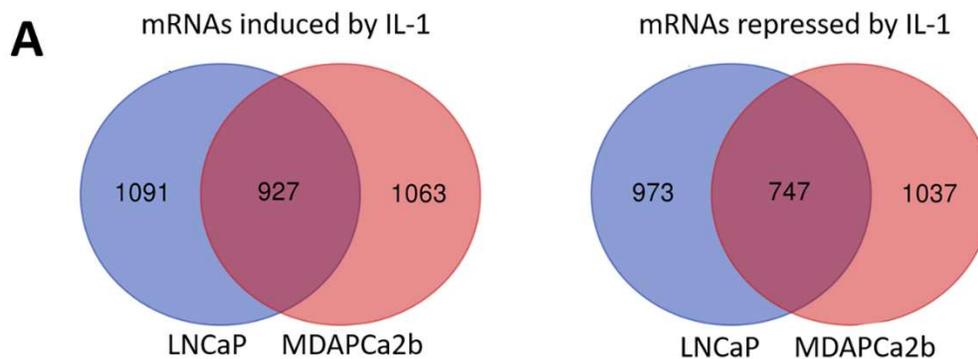


Supplementary Figures

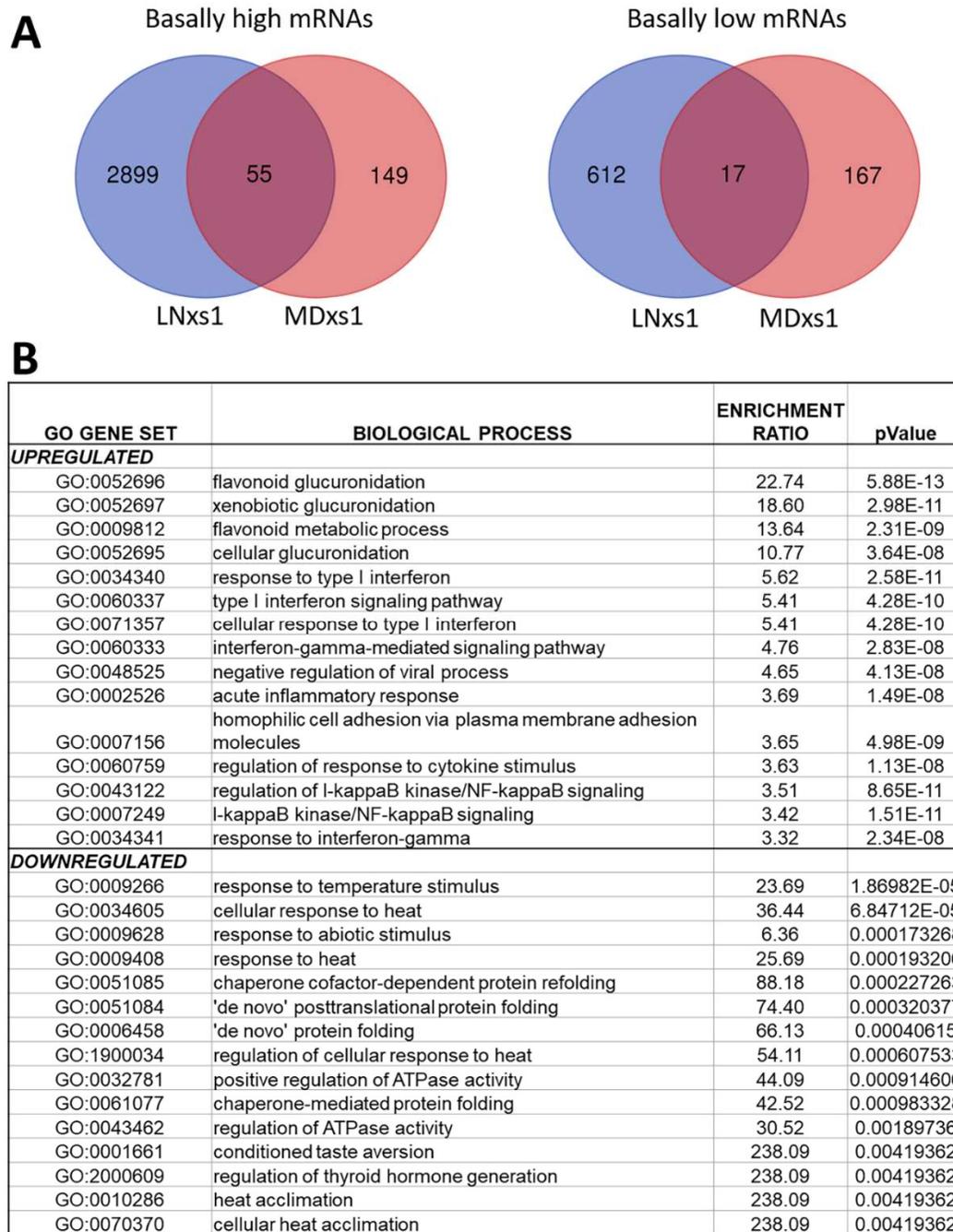


B

GO GENE SET	BIOLOGICAL PROCESS	ENRICHMENT RATIO	pValue
UPREGULATED			
GO:0034097	response to cytokine	2.38	0
GO:0006952	defense response	2.19	0
GO:0019221	cytokine-mediated signaling pathway	2.68	2.22E-16
GO:0071345	cellular response to cytokine stimulus	2.31	6.66E-16
GO:0006955	immune response	1.88	6.66E-16
GO:0045087	innate immune response	2.45	2.66E-15
GO:0051707	response to other organism	2.26	3.15E-13
GO:0043207	response to external biotic stimulus	2.25	3.58E-13
GO:0052696	flavonoid glucuronidation	22.74	5.88E-13
GO:0009607	response to biotic stimulus	2.21	7.43E-13
GO:1902531	regulation of intracellular signal transduction	1.78	2.11E-12
GO:0006954	inflammatory response	2.35	5.76E-12
GO:0043062	extracellular structure organization	2.90	7.28E-12
GO:0007249	I-kappaB kinase/NF-kappaB signaling	3.42	1.51E-11
GO:0030198	extracellular matrix organization	3.01	2.10E-11
DOWNREGULATED			
GO:0042273	ribosomal large subunit biogenesis	11.74	0
GO:0070972	protein localization to endoplasmic reticulum	11.70	0
GO:0002181	cytoplasmic translation	9.31	0
GO:0006612	protein targeting to membrane	8.57	0
GO:0006402	mRNA catabolic process	6.37	0
GO:0006401	RNA catabolic process	6.24	0
GO:0042254	ribosome biogenesis	6.04	0
GO:0090150	establishment of protein localization to membrane	5.65	0
GO:0016072	rRNA metabolic process	5.50	0
GO:0006412	translation	5.28	0
GO:0006260	DNA replication	5.26	0
GO:0043043	peptide biosynthetic process	5.13	0
GO:0022613	ribonucleoprotein complex biogenesis	4.96	0
GO:0007059	chromosome segregation	4.96	0
GO:0022618	ribonucleoprotein complex assembly	4.91	0

Supplementary Figure 1: Conserved biological processes induced by IL-1 in both LNCaP and MDA-PCa-2b cell lines. (A) Venn diagram shows overlap in the number of mRNAs induced (left Venn) or repressed (right Venn) by IL-1b in LNCaP cells and by IL-1a and IL-1b in MDA-PCa-2b cells. Venn diagram gene lists are in Supplementary Table 1, Tab 3. The Venn diagram was created using <http://bioinformatics.psb.ugent.be/webtools/Venn/>. (B) The table lists Gene Ontology (GO) Biological Processes as determined by Over Representation Analysis using

WebGestalt functional enrichment analysis web tool. Listed are the top 15 biological processes upregulated or downregulated by IL-1 treatment in both LNCaP and MDA-PCa-2b cells. A more complete list is in Supplementary Table 1, Tab 4 (upregulated biological processes) and Tab 5 (downregulated biological processes).



Supplementary Figure 2: Conserved upregulated or downregulated biological processes in both LNCaP and MDA-PCa-2b chronic IL-1 sublines. (A) Venn diagram shows overlap in the number of mRNAs basally high (left Venn) or basally low (right Venn) in LNas1, LNbs1, MDA-as1, and MDA-bs1 chronic IL-1 sublines (LNxs1 (LNas1,

LNbs1), MDxs1 (MDA-as1, MDA-bs1)). Venn diagram gene lists are in Supplementary Table 1, Tab 12. The Venn diagram was created using <http://bioinformatics.psb.ugent.be/webtools/Venn/>. (B) The table lists Gene Ontology (GO) Biological Processes as determined by Over Representation Analysis using WebGestalt functional enrichment analysis web tool. Listed are the top 15 biological processes basally high (upregulated) or basally low (downregulated) cells. A more complete list is in Supplementary Table 1, Tab 13 (upregulated biological processes) and Tab 14 (downregulated biological processes).