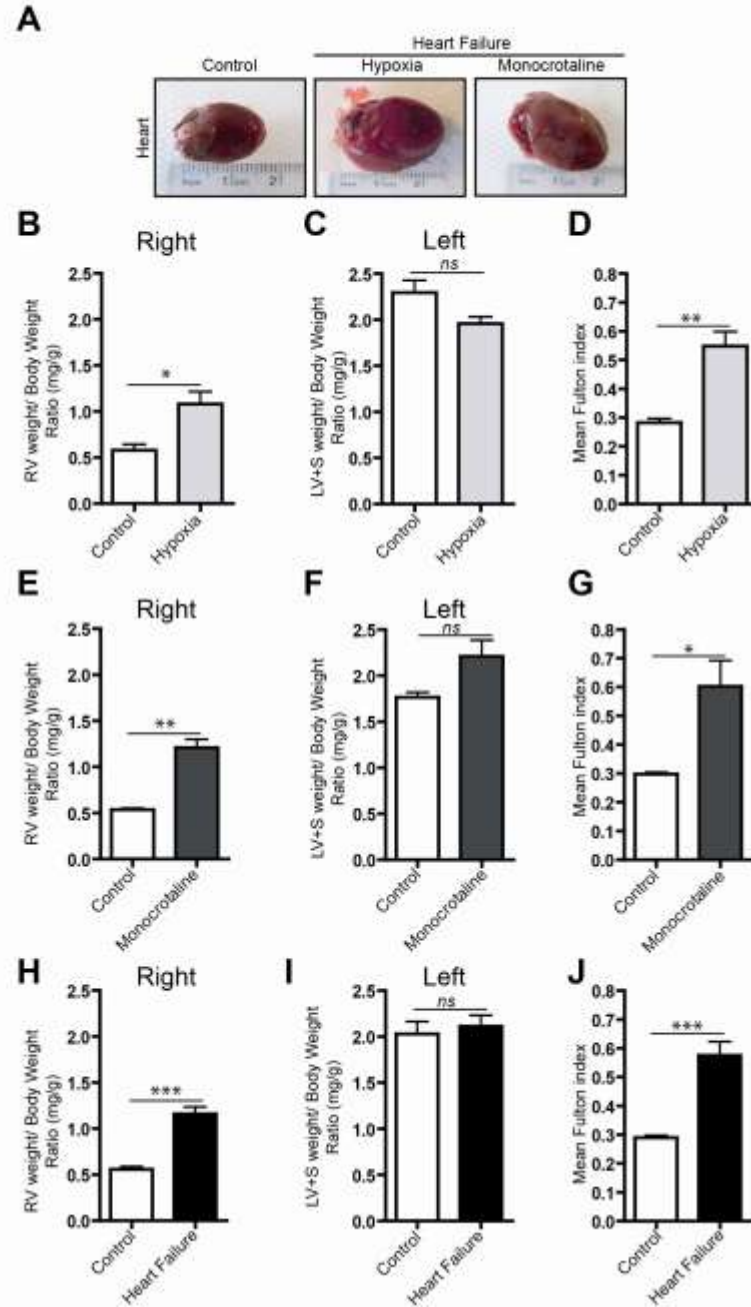
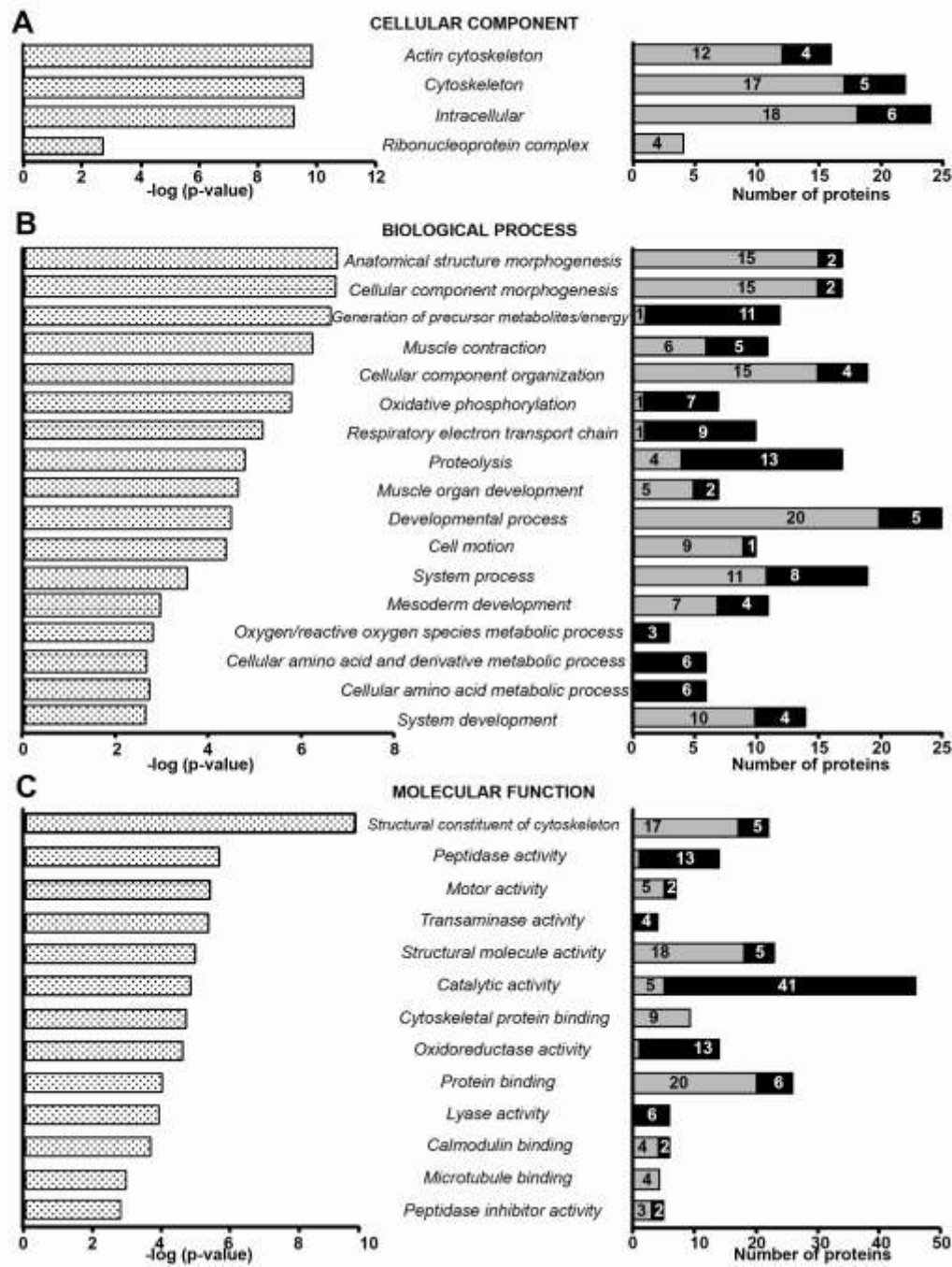


**Figure 1**

**Figure 2**

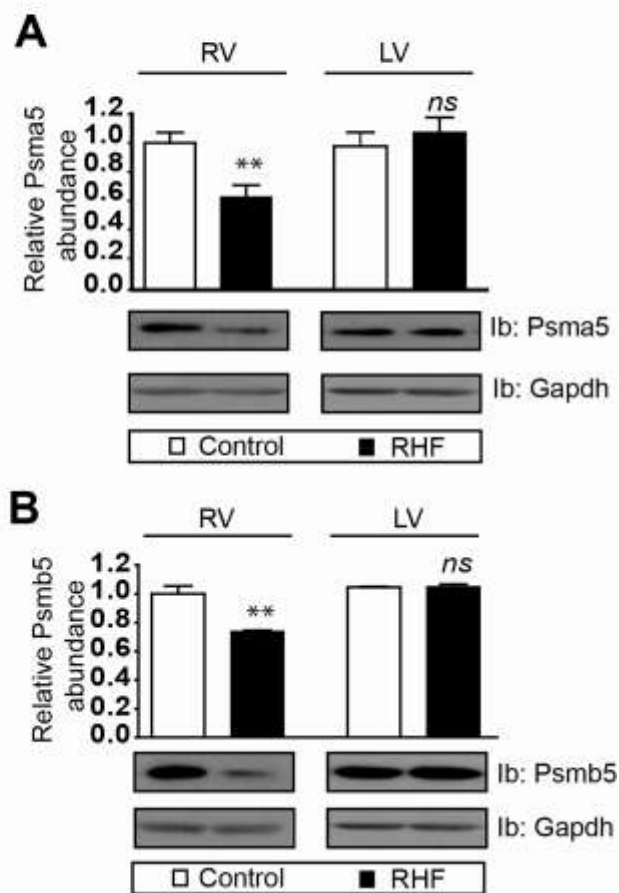


**Table 1** Differential expression of protease proteins based on their common function

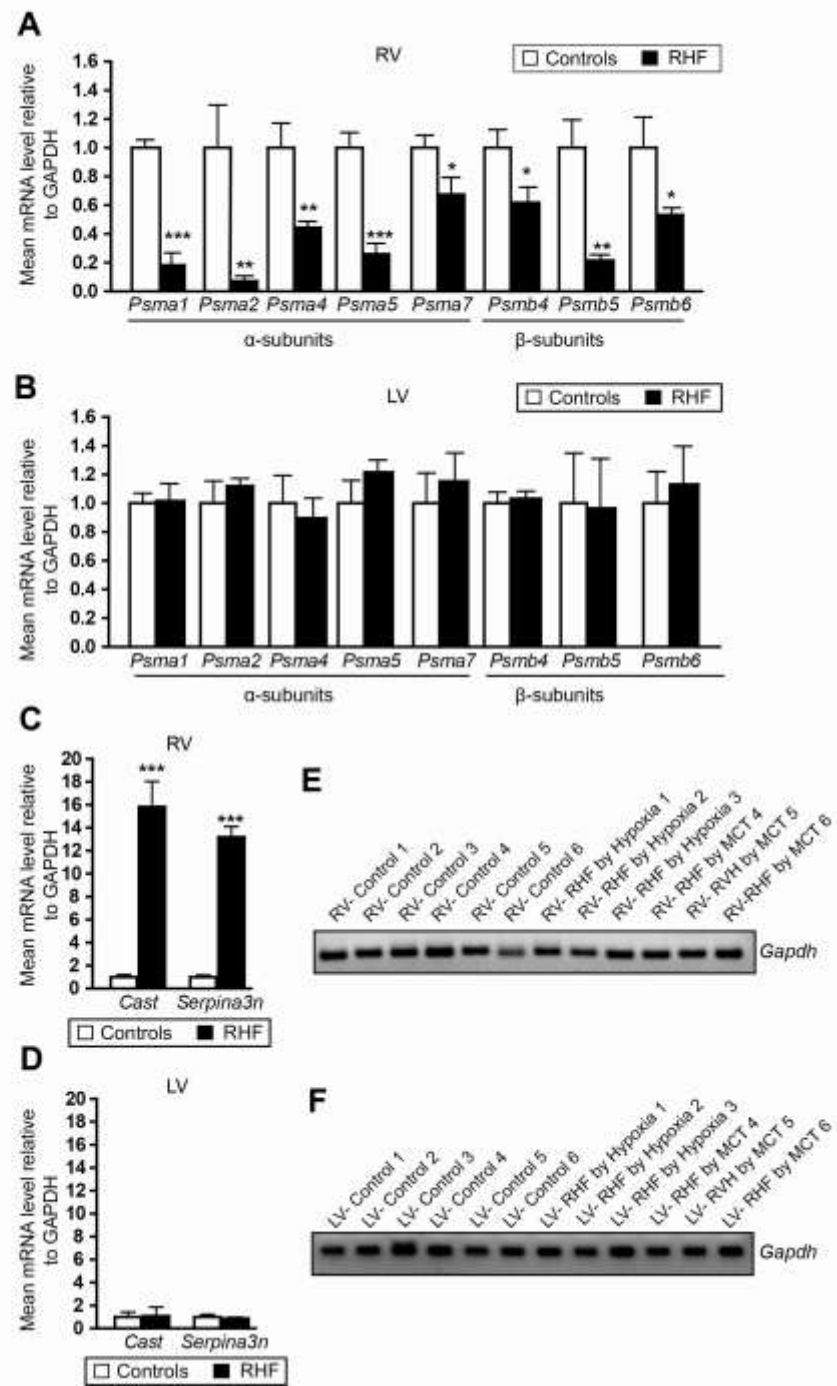
Gene symbol	Protein description	Molecular function	RV [HF]/ RV [Control]	Accession Number	P-value
P <i>sm</i> a1	Proteasome subunit alpha type-1	Protease	0.12	P18420	0.0261
P <i>sm</i> a2	Proteasome subunit alpha type-2	Protease	0.05	P17220	0.01
<i>Psm</i> a3	<i>Proteasome subunit alpha type-3</i>	<i>Protease</i>	-	<i>P18422</i>	<i>&lt;0.05</i>
P <i>sm</i> a4	Proteasome subunit alpha type-4	Protease	0.01	P21670	0.0358
P <i>sm</i> a5	Proteasome subunit alpha type-5	Protease	0.06	Q6P9V6	0.0176
<i>Psm</i> a6	<i>Proteasome subunit alpha type-6</i>	<i>Protease</i>	-	<i>P60901</i>	<i>&lt;0.05</i>
P <i>sm</i> a7	Proteasome subunit alpha type-7	Protease	0.06	F1LSQ6	0.0375
<i>Psm</i> b1	<i>Proteasome subunit beta type-1</i>	<i>Protease</i>	-	<i>P18421</i>	<i>&lt;0.05</i>
<i>Psm</i> b2	<i>Proteasome subunit beta type-2</i>	<i>Protease</i>	-	<i>P40307</i>	<i>&lt;0.05</i>
<i>Psm</i> b3	<i>Proteasome subunit beta type-3</i>	<i>Protease</i>	-	<i>P40112</i>	<i>&lt;0.05</i>
P <i>sm</i> b4	Proteasome subunit beta type-4	Protease	0.07	G3V8Q9	0.0253
P <i>sm</i> b5	Proteasome subunit beta type-5	Protease	0.02	G3V7Q6	0.0188
P <i>sm</i> b6	Proteasome subunit beta type-6	Protease	0.05	P28073	0.0289
<i>Psm</i> b7	<i>Proteasome subunit beta type-7</i>	<i>Protease</i>	-	<i>Q9JHW0</i>	<i>&lt;0.05</i>
Cast	Calpastatin	Protease inhibitor	1.81	P27321	0.00567
Serpina 3n	Serine protease inhibitor A3N	Protease inhibitor	2.08	P09006	0.0102

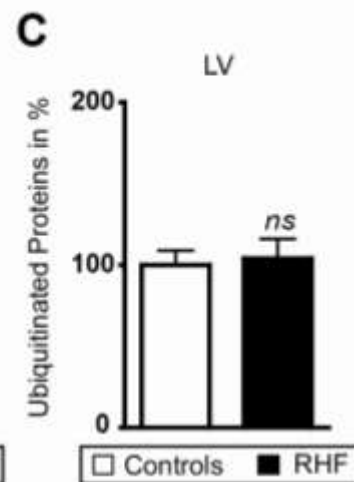
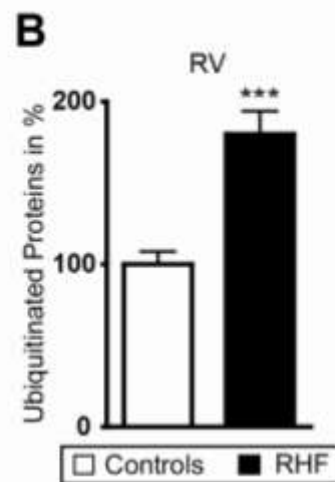
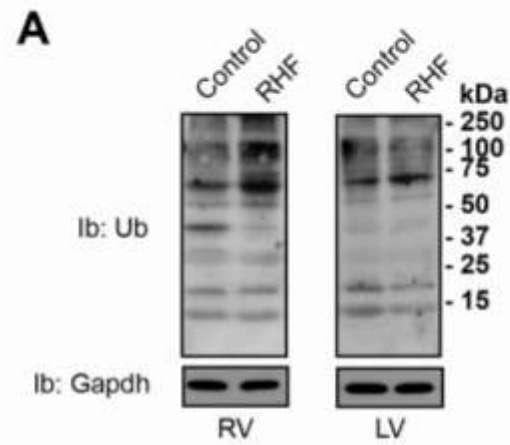
The ratios RV from RHF animals as compared to RV from control animals are represented. *P*-values are shown for each ratio. Proteins, which show a ratio >1.28 are up-regulated, with a ratio <0.78 are down-regulated. The accession number is from the Swiss-prot database. Grey italic are the proteases belonging to the proteasome complex unchanged (ratios between 1.28 and 0.78)

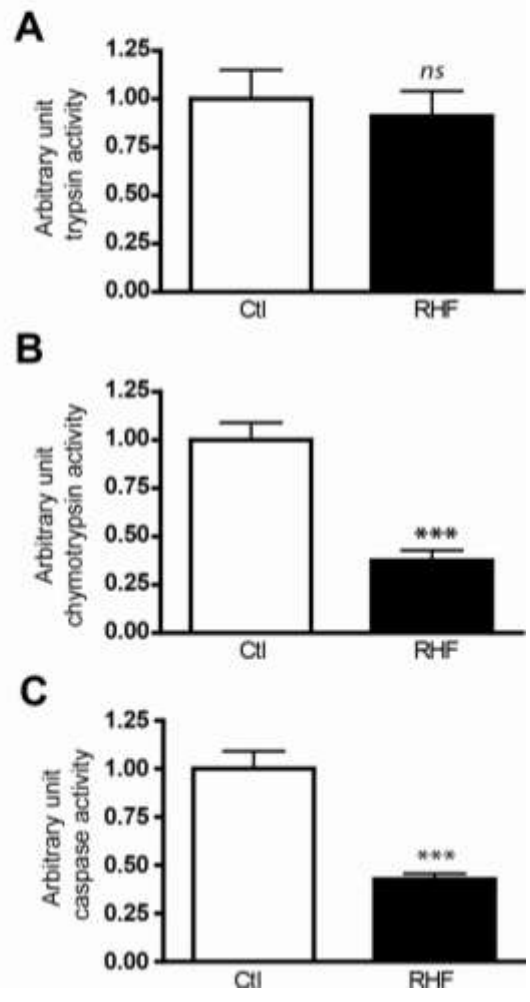
Figure 3



**Figure 4**







**Figure 7**