A

% terms per group

regulation of cell communication 26.46% **

fat cell differentiation 0.53% **
connective tissue development 0.53% **
positive regulation of cell proliferation involved in kidney development 0.53% **
regulation of body fluid levels 1.06% **
enzyme linked receptor protein signaling pathway 1.59% **
MAP kinase phosphatase activity 1.59% **
PERK-mediated unfolded protein response 1.59% **
receptor ligand activity 1.59% **
response to decreased oxygen levels 1.59% **
regulation of multicellular organismal process 2.12% **
regulation of cell adhesion 2.12% **
cellular response to chemical stimulus 3.17% **
apoptotic process 4.76% **
tube morphogenesis 5.29% **
anatomical structure morphogenesis 5.82% **
anatomical structure formation involved in morphogenesis 11.11% **

system development 15.34% **

muscle structure development 13.23% **

B

% terms per group

muscle contraction 35.85% **

cell-cell signaling 1.89% **
structural constituent of cytoskeleton 1.89% **
regulation of fibroblast growth factor receptor signaling pathway 1.89% **
regulation of multicellular organismal process 1.89% **
regulation of signaling 3.77% **
myofibril assembly 3.77% **
extracellular structure organization 3.77% **
system development 5.66% **
response to oxygen levels 5.66% **
cellular response to chemical stimulus 5.66% **
purine ribonucleotide biosynthetic process 9.43% **

cholesterol biosynthetic process 18.87% **

C

% terms per group

response to purine-containing compound 5.0% **
interleukin-1 production 20.0% **

striated muscle contraction 75.0% **

D

% terms per group

hormone activity 2.86% **
response to purine-containing compound 2.86% **
regulation of fat cell differentiation 5.71% **
heart contraction 20.0% **

pyruvate metabolic process 68.57% **

E

% terms per group

positive regulation of heart contraction 12.5% **
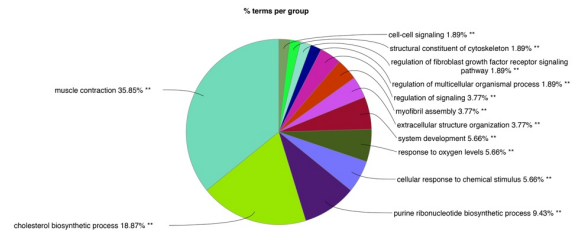response to purine-containing compound 18.75% **

heart contraction 68.75% **
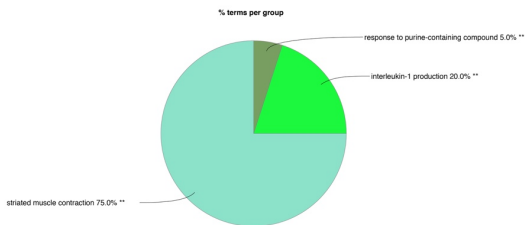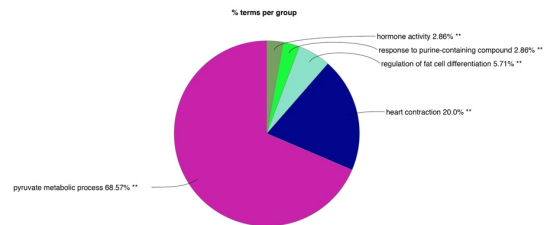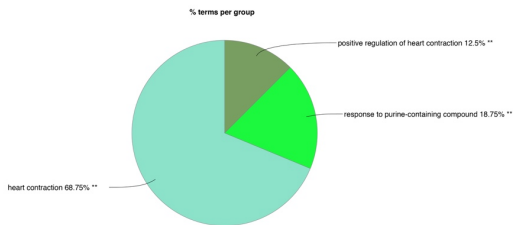
Suppl. Figure 1. Pie charts from ClueGO analysis. Input data are upregulated DEG. The pie charts show significantly overrepresented GO terms as % terms per group at the different time points. A) 8h B) 24h C) 48h D) 72h E) 96h.