

Table S6. Overlap of pathways linked to immune or stress responses with genes up-regulated by colistin

Colistin Up-regulated (n=2538 genes)

<http://www.geneprof.org/GeneProf/tools/hypergeometric.jsp>

Gene Set Description	# Genes in Gene Set	Overlap	R.F.	p <
PMK-1_pozreg_86	86	27	2.7	7.070E-07
SKN-1_pozreg_232	232	66	2.5	1.607E-12
DAF-16_Class1_240	239	65	2.4	2.094E-11
SMA-6_pozreg_1469	1469	313	1.8	7.458E-29
CED-1_pozreg_185	185	37	1.7	5.727E-04
Hypox_reg_107	107	17	1.4	1.069E-01
HIF-1_pozreg_54	54	8	1.3	2.809E-01

R.F. = The Representation Factor is the number of overlapping genes divided by the expected number of overlapping genes drawn from 2 independent groups.

p < = The Hypergeometric Probability is the probability of finding x overlapping genes.

References for Gene Sets

CED-1_pozreg_185: Haskins et al., 2008, Dev Cell, 15: 87-97
 DAF-16_Class1_239: Murphy et al., 2003, Nature, 424(6946): 277-283.
 HIF-1_pozreg_54: Shen et al., 2005, JBC, 280(21): 20580-20588.
 Hypox_reg_107: Shen et al., 2005, JBC, 280(21): 20580-20588.
 PMK-1_pozreg_86: Troemel et al., 2006, PLoS Genetics, 2(11): e183.
 SKN-1_pozreg_232: Oliveira et al., 2009, Aging Cell, 8(5): 524-541.
 SMA-6_pozreg_1469: Roberts et al., 2010, BMC Dev Biol, 10:61.