

Molecular and metabolomic changes in the proximal colon of pigs infected with *Trichuris suis*

Harry Dawson¹, Celine Chen¹, Robert Li², Lauren Nicki Bell³, Terez Shea-Donohue⁴, Helene Kringel⁵, Ethiopia Beshah¹, Dolores E. Hill², Joseph F. Urban Jr^{1,2}.

¹United States Department of Agriculture, Agricultural Research Service, Northeast Area, Beltsville Human Nutrition Research Center, Diet Genomics and Immunology Laboratory, ² Beltsville Agricultural Research Center, Animal Parasitology Disease Laboratory, Beltsville, MD; ³Metabolon, Inc., Morrisville, NC; ⁴University of Maryland School of Medicine, Baltimore, MD, USA; ⁵Department of Veterinary Disease Biology, Faculty of Health and Medical Sciences, University of Copenhagen, Copenhagen, Denmark

Supplemental Table S4

Supplemental Table S4. Comparison of pigs at 52 days after inoculation with no worms compared to control uninfected pigs

Feature ID	FC Naive vs Infection No Worms	EDGE test: FDR p-value correction
LCN15	-32.1	3.66E-07
ALPI	-4.9	5.20E-03
CD5L	-4.7	6.80E-03
PON1	-4.5	4.13E-02
SLC10A2	-4.3	4.13E-02
SDR9C7	-4.2	2.26E-02
CYP2B22	-3.9	2.23E-02
ACSL6	-3.7	9.52E-03
GSTA2	-3.6	5.23E-02
GDF5	-3.3	1.09E-03
SCNN1B	-3.3	2.26E-02
ALPIL1	-3.1	3.58E-02
GAL	-3.1	1.57E-02
PCK1	-3.1	1.86E-02
PDK4	-3.0	3.61E-02
NCR1	-2.9	2.48E-04
SLC24A1	-2.9	1.16E-03
RDH16	-2.8	4.89E-02
ACE2	-2.6	4.67E-02
SLC38A4	-2.6	5.46E-04
VGF	-2.6	2.96E-03
ANPEP	-2.5	4.13E-02
GPIHBP1	-2.5	3.06E-02
NCR2	-2.5	4.13E-02
TREM2	-2.5	4.89E-02
GPR162	-2.3	3.71E-02
NKPD1	-2.3	2.48E-03
NR1H4	-2.3	2.51E-02
EOMES	-2.2	3.65E-02
THNSL2	-2.2	2.04E-04
CIRBP	-2.1	6.57E-05
KLRD1L*	-2.1	2.36E-02
ANGPTL4	-2.0	4.70E-02
CA12	-2.0	3.03E-03
KLF11	-2.0	4.37E-02
SIRPB2	-2.0	3.09E-02
GSTM1	-1.9	9.10E-03
SMIM6	-1.9	4.13E-02
GSTM4	-1.8	5.07E-03
GSTT1	-1.8	4.13E-02
PYCARD	-1.8	1.54E-02
SLC24A4	-1.8	4.67E-02
SLC46A3	-1.8	2.05E-03
BDH1	-1.7	5.79E-03
CD8A	-1.7	5.31E-02
CES1B*	-1.7	7.07E-03
CLEC3B	-1.7	7.15E-03
H1F0	-1.7	6.99E-03
KCNE3	-1.7	1.16E-03
METTL7A	-1.7	3.83E-03
SLC16A14	-1.7	1.09E-02
THAP8	-1.7	4.86E-02
A1CF	-1.6	1.73E-02
ADGRE4	-1.6	2.26E-02
C1QB	-1.6	5.22E-02
GSTZ1	-1.6	1.03E-02
PDK2	-1.6	1.50E-02
PLCD1	-1.6	1.46E-02

PNPLA2	-1.6	1.01E-02
SLC43A2	-1.6	2.36E-02
TMEM140	-1.6	1.73E-02
UGT2C1*	-1.6	4.13E-02
COQ8A	-1.5	1.73E-02
ARRDC3	-1.5	4.39E-02
FDXR	-1.5	2.76E-02
HADHA	-1.5	1.16E-03
ODC1	-1.5	1.27E-02
SULT1B1	-1.5	3.48E-02
TSPAN7	-1.5	3.87E-02
SNX19	1.5	3.48E-02
RASA2	1.5	8.65E-03
SKIL	1.5	1.47E-02
SLC12A4	1.5	1.59E-03
EPAS1	1.5	1.29E-02
HSPA2	1.6	5.31E-02
COL12A1	1.6	4.13E-02
PRDM2	1.6	7.04E-03
GJA1	1.7	4.40E-02
APOBR	1.7	3.48E-02
SAMSN1	1.7	1.85E-02
PIK3C2A	1.7	5.31E-02
CD33	1.7	2.79E-02
AOAH	1.7	2.02E-02
PTGS1	1.7	6.80E-03
CDR2	1.7	1.47E-02
ANKRD12	1.7	2.76E-02
HYOU1	1.7	1.73E-02
NFIL3	1.7	1.50E-04
SERPINH1	1.8	4.70E-02
GRAP	1.8	2.00E-02
SLC26A2	1.8	5.24E-02
CHORDC1	1.8	8.64E-03
GPR68	1.8	6.99E-03
LPCAT2	1.9	2.33E-03
GPR65	1.9	3.09E-02
HSPA5	1.9	2.26E-02
ALOX5AP	2.0	3.09E-02
NOV	2.0	3.48E-02
TNFRSF12A	2.0	2.26E-02
DOCK2	2.0	7.80E-03
GATA2	2.0	5.31E-02
COL8A1	2.0	3.85E-02
SFRP1	2.1	2.80E-03
DNAJA1	2.1	5.20E-03
SLCO4A1	2.1	1.73E-02
F13A1	2.1	7.07E-03
CD69	2.1	4.85E-03
SRGN	2.1	1.18E-05
ARNTL2	2.1	3.38E-02
GFI1	2.2	1.03E-02
RUNX3	2.2	5.12E-03
IGHE	2.3	4.86E-02
KIT	2.3	1.73E-02
IPCEF1	2.4	1.03E-02
SLC16A3	2.4	2.50E-03
CD244	2.4	1.29E-02
NLRC3	2.5	1.97E-02
SELE	2.5	3.53E-02

MAP4K1	2.5	2.73E-04
GZMAL	2.5	1.01E-02
TDRP1	2.6	5.04E-03
HSPA1L	2.6	5.31E-02
SLC2A3	2.7	1.71E-10
HSPH1	2.7	1.29E-02
HDC	2.7	2.39E-02
GPR97	2.8	2.26E-02
FGR	2.8	6.51E-07
LTC4S	2.8	1.24E-02
TIGIT	2.8	3.39E-04
CSF2RAL	2.9	4.86E-02
GZMA	3.0	4.54E-04
CXCL6	3.1	1.01E-02
MMP9	3.4	3.03E-03
SH2D1B	3.5	4.91E-04
FFAR2	3.6	1.18E-05
TIAM1	4.4	6.67E-08
GATA3	4.4	4.43E-04
IGFBP2	4.7	1.99E-08
SLC5A8	4.8	3.38E-02
GPRC5D	4.8	9.86E-03
DFNB31	4.9	7.93E-05
DIO2	5.8	1.16E-03
NXPH4	5.8	2.70E-06
TKTL1	6.4	1.49E-02
SLC4A11	6.9	1.04E-03
CTSG	7.2	8.45E-07
MMP12	7.3	1.09E-03
KLRJ1*	9.6	1.59E-03
SNORA73AL	10.4	2.01E-02
NTRK1	10.6	3.53E-03
GZMB	11.2	8.54E-08
TCN1	19.2	1.29E-02
TNN	83.7	5.30E-05
GNLY	132.0	2.98E-11
REG3A	168.9	2.26E-02