

Nutrigenomic in animal feeding: digital gene expression analysis  
in poultry fed *Tenebrio molitor* larvae meal

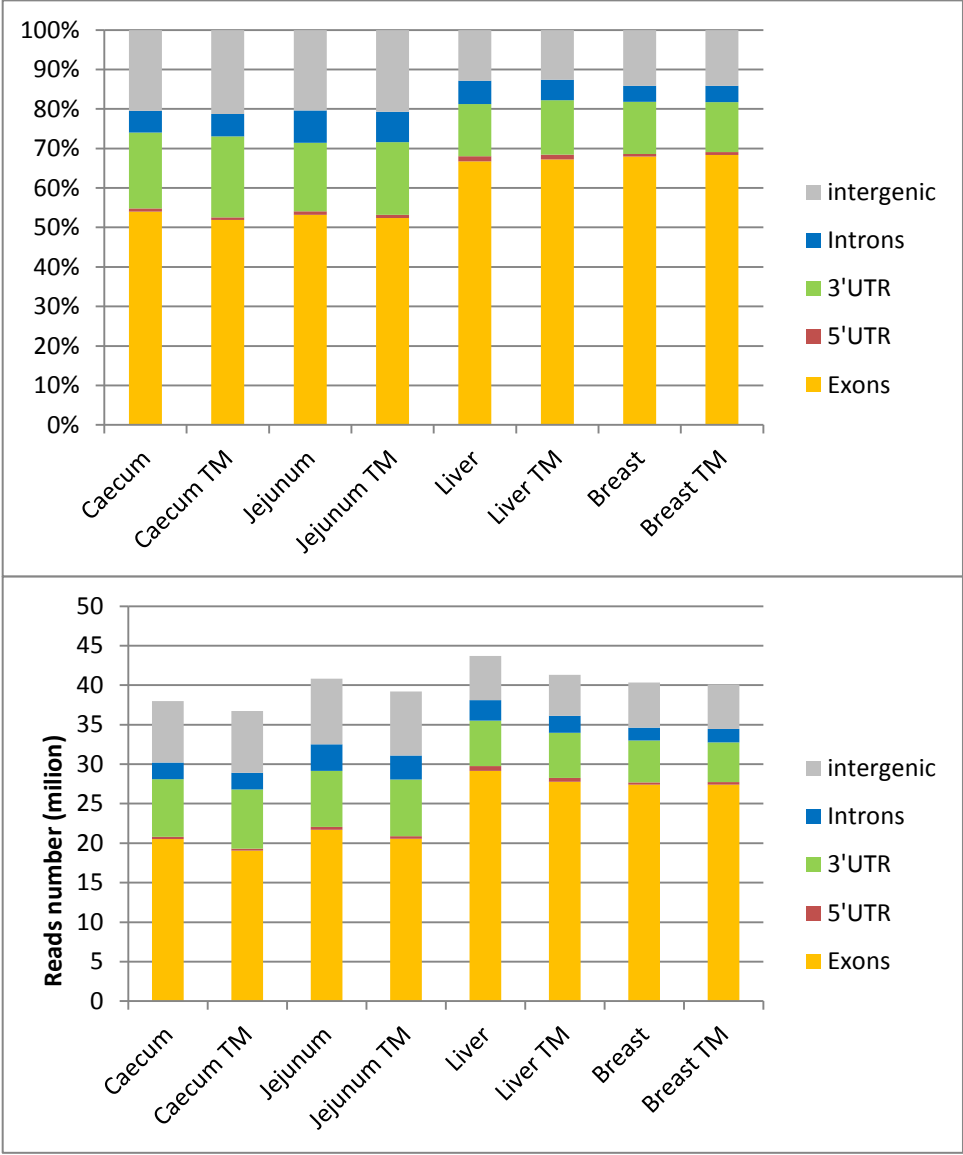
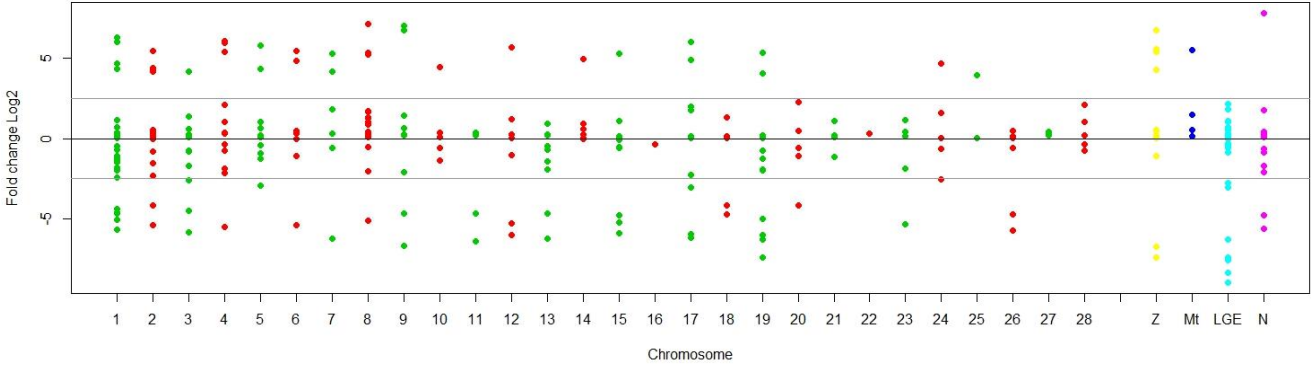
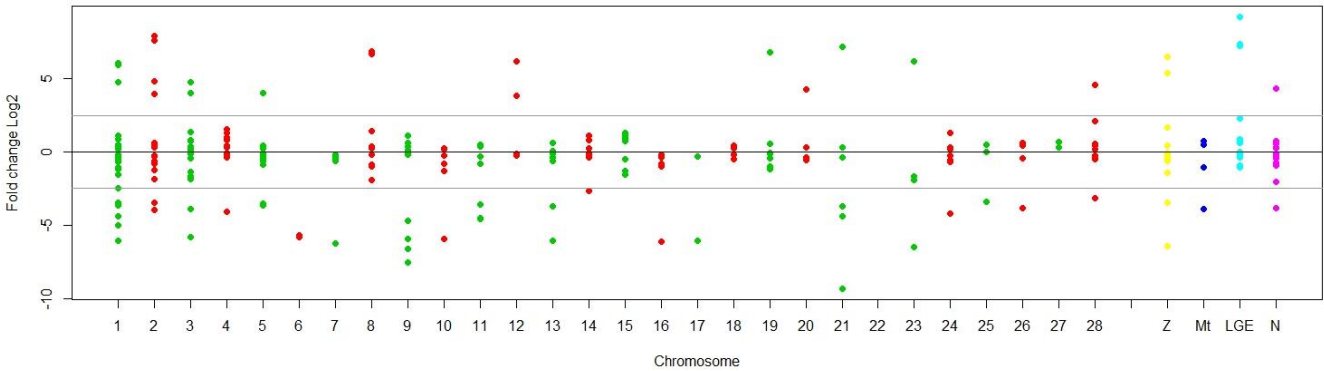


Figure S1. Distribution of categories reads

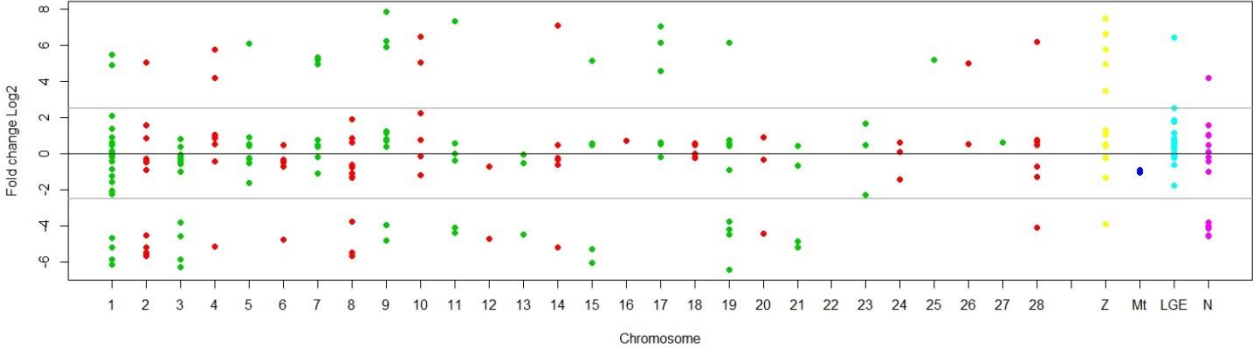
a) *Caecum*



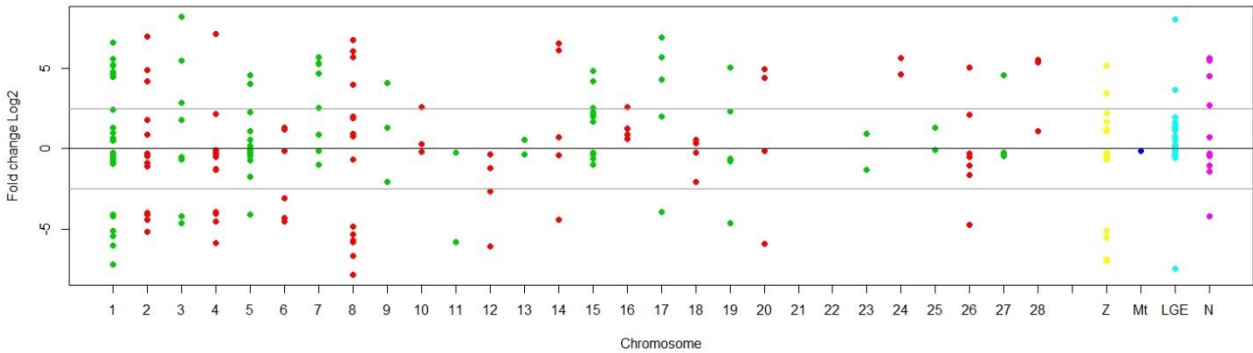
b) *Jejunum*



c) *Liver*



d) Breast



**Figure S2.** Distribution of DEGS on Chromosomes

Table S1. DEGs Pathways analysis

	Pathway name	DEGs	GP	pValue	FDR	RF	RT	Gene
<b><u>Breast</u></b>								
R-GGA-390522	Striated Muscle Contraction	11	56	0,011445	0,862641	4	4	MYL1
R-MMU-390522	Striated Muscle Contraction	25	70	2,58E-12	1,52E-09	4	4	TNNC1
<b><u>Liver</u></b>								
R-HSA-156902	Peptide chain elongation	17	99	3,23E-06	0,001197	4	5	RPL12
R-HSA-72689	Formation of a pool of free 40S subunits	16	106	3,61E-05	0,005485	2	2	RPL12
R-HSA-72764	Eukaryotic Translation Termination	16	108	4,46E-05	0,005485	3	5	RPL12
R-HSA-975956	Nonsense Mediated Decay (NMD) independent of the Exon Junction Complex (EJC)	16	102	6,71E-05	0,00663	1	1	RPL12
R-HSA-2408557	Selenocysteine synthesis	16	116	8,16E-05	0,00663	2	6	RPL12
R-HSA-1799339	SRP-dependent cotranslational protein targeting to membrane	16	120	1,09E-04	0,00663	5	5	RPL12
R-HSA-156827	L13a-mediated translational silencing of Ceruloplasmin expression	16	118	1,09E-04	0,00663	2	3	RPL12
R-HSA-156842	Eukaryotic Translation Elongation	17	104	1,32E-04	0,00698	7	9	RPL12
R-HSA-192823	Viral mRNA Translation	16	114	1,43E-04	0,007021	2	2	RPL12
<b><u>Jejunum</u></b>								
R-HSA-156902	Peptide chain elongation	24	99	4,38E-08	2,08E-05	5	5	RPL30
R-HSA-72689	Formation of a pool of free 40S subunits	22	106	2,60E-06	5,47E-04	2	2	RPL30
R-HSA-72764	Eukaryotic Translation Termination	22	108	3,46E-06	5,47E-04	3	5	RPL30
R-HSA-975956	Nonsense Mediated Decay (NMD) independent of the Exon Junction Complex (EJC)	22	102	5,98E-06	7,40E-04	1	1	RPL30
R-HSA-156842	Eukaryotic Translation Elongation	24	104	7,70E-06	7,40E-04	8	9	RPL30
R-HSA-2408557	Selenocysteine synthesis	22	116	7,79E-06	7,40E-04	2	6	RPL30
R-HSA-1799339	SRP-dependent cotranslational protein targeting to membrane	22	120	1,14E-05	7,77E-04	5	5	RPL30
R-HSA-156827	L13a-mediated translational silencing of Ceruloplasmin expression	22	118	1,14E-05	7,77E-04	2	3	RPL30
R-HSA-192823	Viral mRNA Translation	22	114	1,65E-05	0,001043	2	2	RPL30
<b><u>Caecum</u></b>								
R-GGA-1799339	SRP-dependent cotranslational protein targeting to membrane	33	94	2,95E-08	8,34E-06	2	2	RPL5
R-GGA-975956	Nonsense Mediated Decay (NMD) independent of the Exon Junction Complex (EJC)	33	95	3,76E-08	8,34E-06	1	1	RPL5
R-GGA-72689	Formation of a pool of free 40S subunits	33	106	4,31E-07	5,73E-05	2	2	RPL5
R-GGA-72706	GTP hydrolysis and joining of the 60S ribosomal subunit	34	122	3,18E-06	3,02E-04	3	3	RPL4
R-GGA-72766	Translation	38	147	4,78E-06	3,53E-04	15	21	RPL4
R-GGA-927802	Nonsense-Mediated Decay (NMD)	33	122	8,06E-06	4,84E-04	4	5	RPL5

R-GGA-975957	Nonsense Mediated Decay (NMD) enhanced by the Exon Junction Complex (EJC)	33	122	8,06E-06	4,84E-04	3	4	RPL5
R-GGA-72613	Eukaryotic Translation Initiation	34	130	1,17E-05	5,16E-04	12	17	RPL4
R-GGA-72737	Cap-dependent Translation Initiation	34	130	1,17E-05	5,16E-04	12	17	RPL4
R-HSA-156902	Peptide chain elongation	36	99	1,11E-16	5,43E-14	5	5	RPL5
R-HSA-72689	Formation of a pool of free 40S subunits	34	106	2,91E-14	7,10E-12	2	2	RPL5
R-HSA-72764	Eukaryotic Translation Termination	34	108	4,82E-14	7,85E-12	3	5	RPL5
R-HSA-156827	L13a-mediated translational silencing of Ceruloplasmin expression	35	118	8,22E-14	1,00E-11	2	3	EIF4A2
R-HSA-975956	Nonsense Mediated Decay (NMD) independent of the Exon Junction Complex (EJC)	34	102	1,28E-13	1,38E-11	1	1	RPL5
R-HSA-2408557	Selenocysteine synthesis	34	116	2,05E-13	1,99E-11	2	6	RPL5
R-HSA-1799339	SRP-dependent cotranslational protein targeting to membrane	34	120	4,09E-13	3,27E-11	5	5	RPL5
R-HSA-192823	Viral mRNA Translation	34	114	7,99E-13	5,19E-11	2	2	RPL5
R-HSA-72706	GTP hydrolysis and joining of the 60S ribosomal subunit	35	121	3,68E-11	2,10E-09	3	3	EIF4A2
R-HSA-927802	Nonsense-Mediated Decay (NMD)	34	125	5,82E-09	2,97E-07	5	6	RPL5
R-HSA-975957	Nonsense Mediated Decay (NMD) enhanced by the Exon Junction Complex (EJC)	34	125	5,82E-09	2,97E-07	4	5	RPL5
R-HSA-72737	Cap-dependent Translation Initiation	35	131	6,78E-09	3,12E-07	13	18	EIF4A2
R-HSA-72613	Eukaryotic Translation Initiation	35	131	7,74E-09	3,25E-07	15	21	EIF4A2
R-HSA-2408522	Selenoamino acid metabolism	34	188	7,56E-08	3,02E-06	2	32	RPL5
R-HSA-168273	Influenza Viral RNA Transcription and Replication	34	171	2,66E-06	1,04E-04	2	15	RPL5
R-HSA-168255	Influenza Life Cycle	35	183	1,28E-04	0,004357	3	52	RPL5