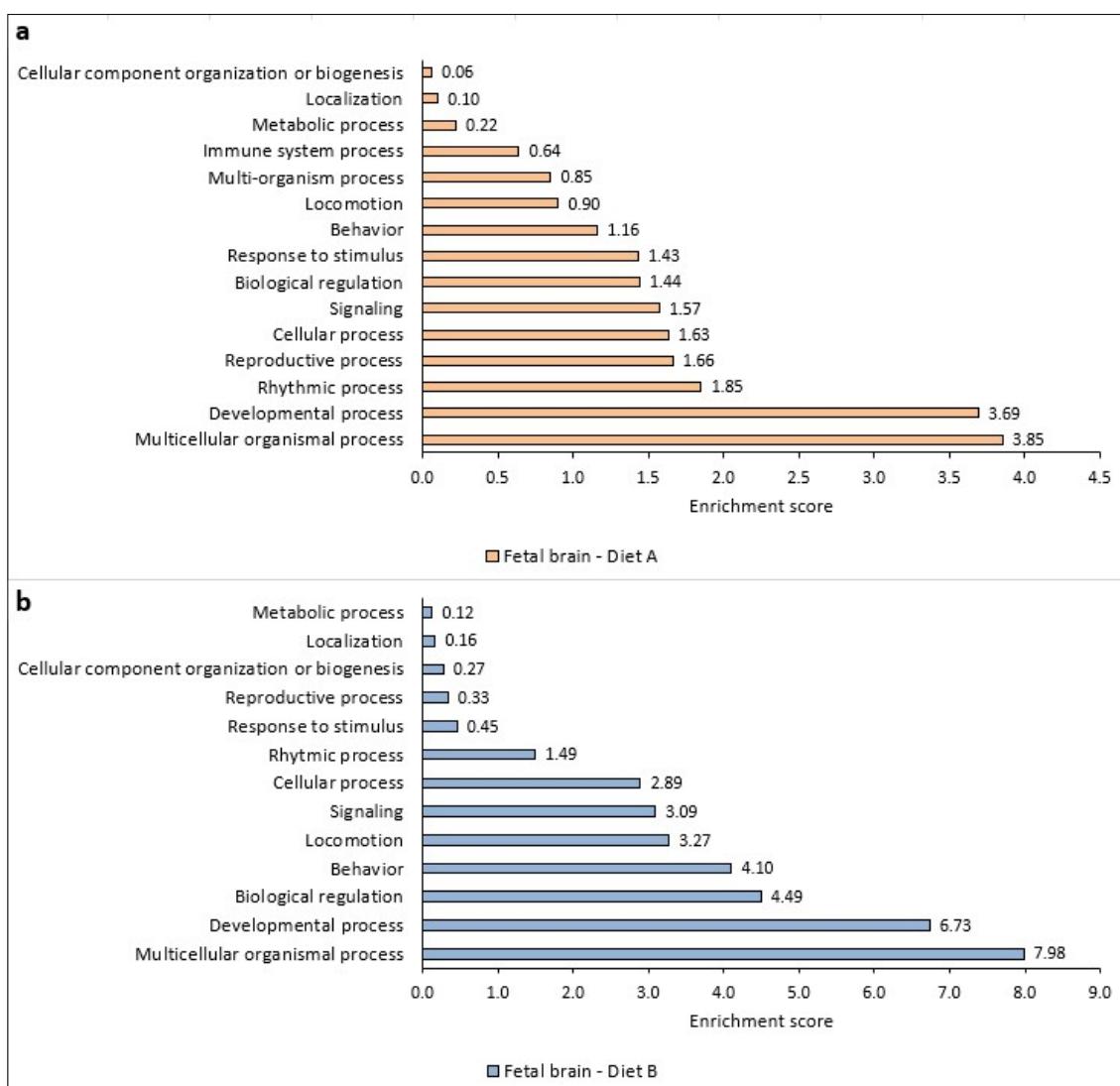


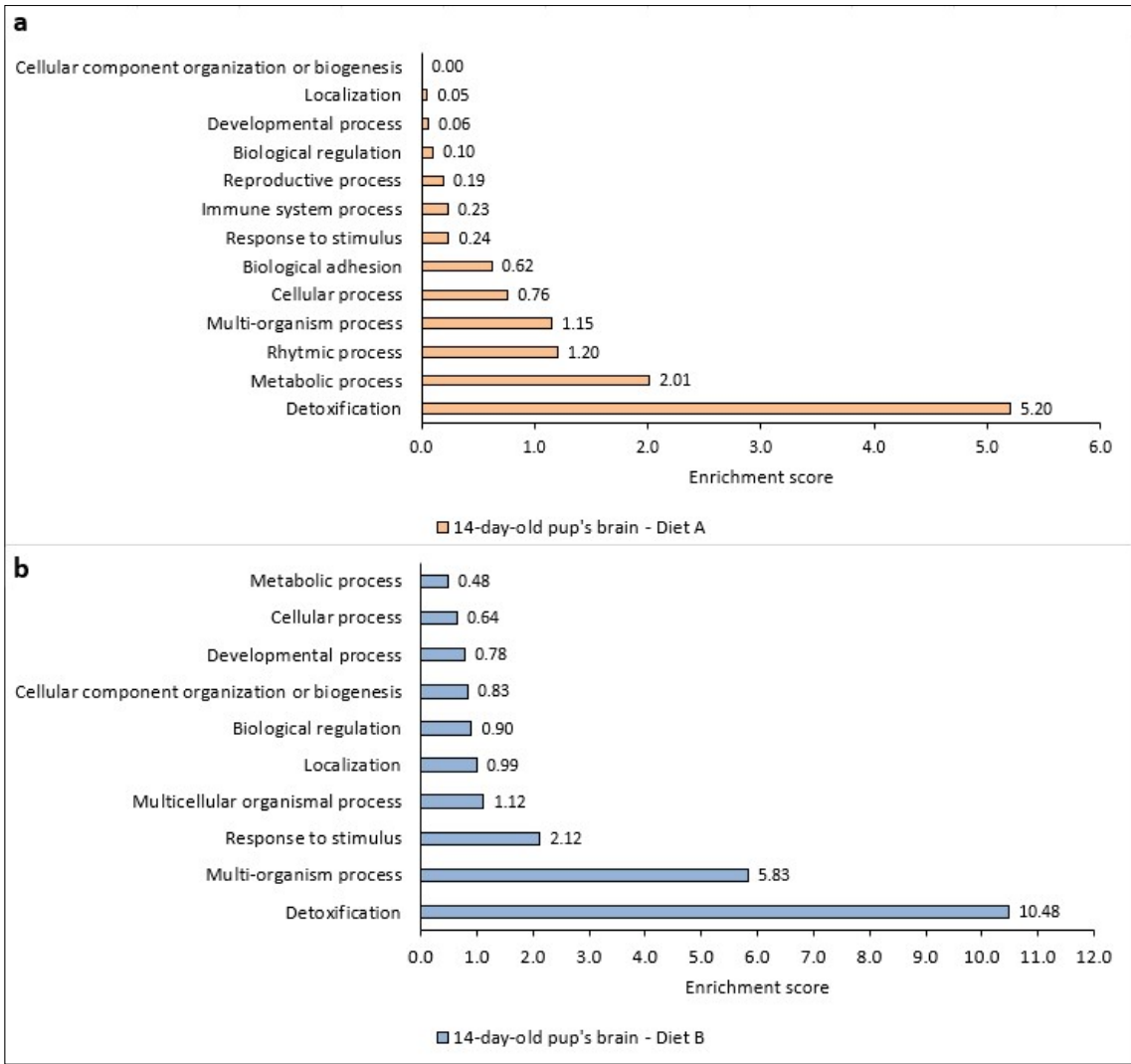
Annex 1. GO processes affected in fetal brain from groups A (a) and B (b) compared to control, classified by enrichment score. GO, gene ontology.



Annex 2. KEGG pathways affected in fetal brain from groups A and B compared to control, classified by enrichment score. KEGG, Kyoto encyclopedia of genes and genomes.

KEGG Pathway	Enrichment score	<i>P</i>	Genes in the pathway
Diet A			
Tyrosine metabolism	4.20	0.015	<i>Dbh</i>
Tryptophan metabolism	3.97	0.019	<i>Tph2</i>
Amyotrophic lateral sclerosis	3.81	0.022	<i>Prph</i>
Serotonergic synapse	2.95	0.052	<i>Tph2</i>
Metabolic pathways	2.60	0.074	<i>Dbh, Tph2</i>
Diet B			
Tryptophan metabolism	3.97	0.019	<i>Tph2</i>
Cholinergic synapse	3.08	0.046	<i>Chrm1</i>
Serotonergic synapse	2.95	0.052	<i>Tph2</i>
FoxO signaling pathway	2.89	0.056	<i>Foxg1</i>
Calcium signaling pathway	2.58	0.075	<i>Chrm1</i>
Regulation of actin cytoskeleton	2.43	0.088	<i>Chrm1</i>
Neuroactive ligand-receptor interaction	2.16	0.116	<i>Chrm1</i>
PI3K-Akt signaling pathway	2.01	0.134	<i>Chrm1</i>
Metabolic pathways	0.86	0.422	<i>Tph2</i>

Annex 3. GO processes affected in 14-day-old pup's brain from groups A (a) and B (b) compared to control, classified by enrichment score. GO, gene ontology.



Annex 4. KEGG pathways affected in 14-day-old pup's brain from groups A and B compared to control, classified by enrichment score. KEGG, Kyoto encyclopedia of genes and genomes.

KEGG Pathway	Enrichment score	<i>P</i>	Genes in the pathway
Diet A			
Ribosome	5.25	0.005	<i>Rps29</i>
Mineral absorption	3.25	0.039	<i>Mt2A</i>
Long-term depression	3.00	0.050	<i>Ppp1r17</i>
Glutamatergic synapse	2.37	0.093	<i>Slc1a6</i>
Parkinson's disease	2.20	0.111	<i>Atp5e</i>
Oxidative phosphorylation	2.20	0.111	<i>Atp5e</i>
Alzheimer's disease	1.97	0.139	<i>Atp5e</i>
Huntington's disease	1.93	0.145	<i>Atp5e</i>
Metabolic pathways	0.41	0.666	<i>Atp5e</i>
Diet B			
African trypanosomiasis	4.60	0.010	<i>Hba-a1</i>
Mineral absorption	4.33	0.013	<i>Mt2A</i>
Malaria	4.23	0.015	<i>Hba-a1</i>