

Cite this as: Ming-xia CHEN, Xiang-guang LI, Jun-xian YANG, Chun-qi GAO, Bin WANG, Xiu-qi WANG, Hui-chao YAN, 2015. Growth of embryo and gene expression of nutrient transporters in the small intestine of the domestic pigeon (*Columba livia*). *Journal of Zhejiang University-Science B (Biomedicine & Biotechnology)*, 16(6):511-523. [doi:10.1631/jzus.B1400340]

Growth of embryo and gene expression of nutrient transporters in the small intestine of the domestic pigeon (*Columba livia*)

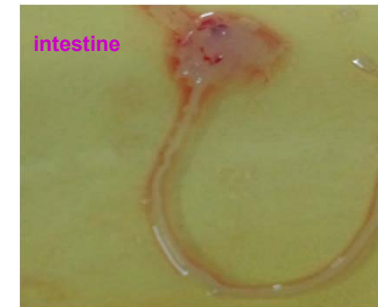
Key words: Embryonic growth, Nutrient transporters,
Gene expression, Small intestine, Pigeons

Research Summary

This article mainly focused on the growth of embryo and gene expression of intestinal nutrient transporters, and summarized in the following aspects:



- The growth of embryo and organs
- Gene expression of nutrient transporters in small intestine
- The correlation of gene expression and weight of body and small intestine

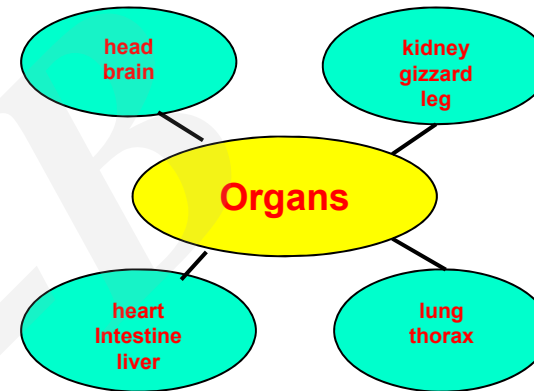


Innovation points

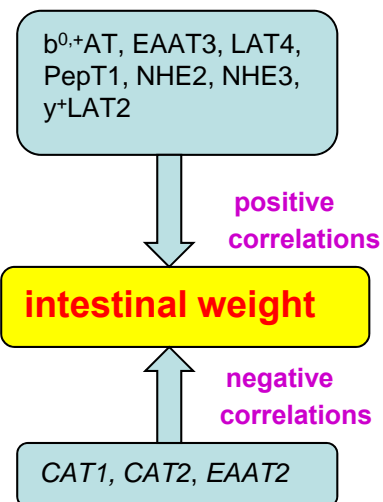
- **Introduction** of the four types organs according to the changes in relative organ weight .

- **Summary** of the relationship between gene expression of transporters in the small intestine and embryonic growth in domestic pigeons.

- **Emphasis** of a comprehensive study of amino acid and peptide transporter mRNA in the small intestine during embryonic growth of pigeons.



four types



Innovation points

A series of comprehensive Figures or tables were generated to summarize the growth of embryo and gene expression of intestinal nutrient transporters of pigeon.

Fig. 2-5 | Different organs have different growth trajectories.

Table 2 | Correlation of organ weight and embryonic body weight.

Table 3 | Effect of embryonic day on gene expression of nutrient transporters.

Table 4 | Correlation of embryo weight and gene expression.

Table 5 | Correlation of small intestinal weight and gene expression.