

عنوان مقاله:

The Interaction of Dopaminergic System and GABAB Receptor in Food Intake Regulation of Neonatal Chicken

محل انتشار:

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خلاصه مقاله:

Animal studies have shown the role of gamma amino butyric acid (GABAergic) and Dopaminergic systems in controlling appetite, but their interactions in birds have not yet been investigated. In this study, 9 experiments were carried out to investigate the interactions between GABArergic and dopaminergic systems in fresh laying hens (Each experiment included F groups, 11 chicks per group). Chicks received intracerebroventricular (ICV) injections after 4h of starvation in the following form: In 9 experiments; Each experiment has 1 groups. Group 1 (CON): Received Saline as a control group. Group Y (DOP): Dopamine neurotransmitters include IYa nmol L-DOPA (levo-dihydroxyphenylalanine) as a dopamine precursor. 5-OHDA, Y. a nmol as a dopaminergic neurotoxin. SCHYTT9, anmol. AMI-19T, anmol. NGBY9.F, 5.Fnmol and L-YF1YFY, 5nmol. (L-DOPA, 5-OHDA, D) receptor, DY receptor, DY receptor and DF receptor antagonists), respectively (each of them in one of the experiments). Group " (GABA): Baclofen, o.Yum (GABAB agonist). Group & (DOP+GABA): Receive Baclofen simultaneously with any of the L-DOPA, 5-OHDA, DI, DY, DW and DF antagonists, respectively (each of them in one experiments). Cumulative consumption of food (based on the percentage of body weight) was measured up to 14° minutes after the injection. According to the results, ICV injection of Baclofen alone significantly increased feed intake (P < ...Δ). None of the dopamine receptors (L-DOPA, ۶-OHDA, Dነ, D۲, D۳, D۴, as well as dopamine synthesis inhibitors) did not affect food intake (P > o.oa). The co-injection of the L-DOPA, 5-OHDA, DI-DF receptor antagonists + baclofen (P> o.oa) showed no significant effect. The results of this .study showed that dopaminergic and GABAB receptors had no interaction in FDm neonatal layer-type chicken

کلمات کلیدی: birds, Dopamine, feed intake, GABAergic system

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