

عنوان مقاله:

Correlation of Histamine Receptors and Adrenergic Receptor in Broilers Appetite

محل انتشار:

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خلاصه مقاله:

The current study was conducted to investigate the interaction between the central adrenergic and histaminergic systems and the broiler chick's feed intake. In the first experiment, the intracerebroventricular (ICV) injection of solutions was conducted which included 10 nmol of prazosin (an α1-receptor antagonist), Ψ00 nmol of histamine, coinjection of prazosin and histamine. Experiments two to five were conducted similarly the same as the first experiment, in which chickens were ICV injected with ١٣ nmol of yohimbine (an αΥ-receptor antagonist), Υ۴ nmol of metoprolol (a β) adrenergic receptor antagonist), Δ nmol of ICI 11λ,ΔΔ1 (a βY adrenergic receptor antagonist), and Yo nmol of SR Δ٩ΥΨ•R (a βΨ adrenergic receptor antagonist). The injected solutions in the sixth experiment included Ψ•• nmol of noradrenaline, YΔo nmol of α-FMH (an alpha fluoromethyl histidine), noradrenaline, and α-FMH. Seventh to ninth experiments were similar to the sixth experiment, except that the chickens were ICV injected with "... nmol of chlorpheniramine (a histamine H) receptors antagonist), AY nmol of famotidine (a histamine HY receptors antagonist), and Ψ_{∞} nmol of thioperamide (a histamine H Ψ receptors antagonist), rather than α -FMH. Afterward, the cumulative food intake was measured 1/2 min after injection. Based on the obtained results, both histamine ICV injection and noradrenaline injection reduced food intake (P<0.04). Moreover, co-injection of histamine and ICI 11A,061 (P<0.04), and co-injection of noradrenaline and Chlorpheniramine reduced food intake (P<...ω). In addition, noradrenaline and Thioperamide co-injection improved hypophagic effect of noradrenaline in neonatal chicken (P<...). These findings suggested the effect of interconnection between adrenergic and histaminergic systems, which may be mediated by HI .and H^m histaminergic and β^r adrenergic receptors, on the regulation of food intake in the neonatal broiler chicken

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کلمات کلیدی: Adrenergic, Broiler chicken, Food intake, Histamine

لینک ثابت مقاله در پایگاه سیویلیکا:

