

عنوان مقاله:

Evaluation of The Effect of Crocin on Behavioral, Motor and Cognitive Functions in Autistic Model Rats

محل انتشار:

سومین همایش بین المللی التهاب سیستم عصبی و سومین فستیوال دانشجویی علوم اعصاب (سال: 1398)

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خلاصه مقاله:

Previous studies have shown that autism, or self-preservation, is a type of neurodegenerative disorder commonly seen in social communication and relations. Previous studies suggested that crocin, as the main combination of saffron, had potent antioxidant effects and probably had a beneficial effect on autism related disorders. Accordingly, the aim of this study was to determine the effect of crocin on behavioral, motor and cognitive functions in autistic model rats in experimental rats. Materials and Methods: In this experimental study, valproic acid was injected on day 12 of pregnancy (when the embryonic development of the neural tube occurs) for induction of autism. Also, some groups were injected with crocin (15 And 30 mg / kg body weight) or vehicle were placed intraperitoneally. On the other hand, all mice were tested on days 30 and 60 (Maze Plus, Hot plate, Rotarod, Open field, Morris Water Maze). Results: Data analysis showed that injection of valproic acid can cause behavioral disorders including decreased social interactions, increased repetitive behaviors, increased pain tolerance thresholds, increased anxiety, decreased behavioral behaviors, reduced balance power and motor learning, and cognitive change in rat infants undergo postnatal evaluation, which is usually done on days 30 and 60, and the administration of crocin can significantly modify these abnormalities. ($P < 0.05$). Conclusion: These findings showed that crocin can modify behavioral, motor and cognitive functions in autistic model mice and may be effective in the pharmacological treatment of autistic dysfunction

کلمات کلیدی:

لینک ثابت مقاله در پایگاه سیویلیکا:

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