

Effect of classical conditioning over immature and mature B lymphocytes regulation

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© 2018 Wiley Periodicals, Inc. Classical conditioning (CC) with a sweet flavored is useful for experimental models of immune response. The objective this work was analyze spleen cell response on the differentiation of B-lymphocytes associated with the CC with sweet flavored in adult rats. Twelve adult male rats were divided ($n = 3$) in Group 1 (control); Group 2 without conditioned stimulus (WCS) received only water; Group 3 receiving only water with salt; Group 4 (experimental) with CS of sweet flavored and salty flavored afterwards. In every work group, all animals were subjected to the unconditioned stimulus (US) treated by 10 mg/kg body weight of cyclophosphamide injected intraperitoneally (i.p.). Subsequently an immunological challenge with sheep red blood cells i.p. was applied. Spleen samples were obtained 15 days after using euthanasia with 1% sodium thiopental i.p. The evaluation B lymphocyte (immature and mature) was performed by immunohistochemistry using specific antibodies