EVALUATION OF THE EFFECT OF IMMUNE TRANSGENIC AND CONVENTIONAL SOY EXTRACT IN MICE

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Introduction: The soybeans have been used as part of a healthy food, being related to prevention of cardiovascular disease, related effects of menopause, as well as in situations of food allergies and intolerances. However, several studies have pointed to soy as a potent food allergen. Objective: Thus, this study aimed to evaluate the immune response by this grain in conventional and transgenic example. Material and Methods: For this, samples were subjected to an electrophoresis in denaturing polyacrylamide gel. Mice “swiss” were then immunized orally with daily doses of 50 μg of Total Extract (TE) Conventional Soybean (CS) and Transgenic Soybean (TS) for 10 consecutive days and received a booster at six weeks after the start immunization. The synthesis of antibodies was detected through the method of ELISA and immunoprecipitation using TE as antigen. After completion of the biochemical and immunological techniques we found that SC showed seven protein fractions after electrophoresis and the ST showed six. Results: We also observed that the production of IgG1 was higher for the conventional model, and the production of antibodies was higher in the early days. However, antibody production was not significant. Hemoaglutinate activity was the same for both extracts. Conclusion: Therefore, although the animals have been sensitized through the diet, the SC was able to form an immunological memory greater than the ST, showing no difference in other factors studied.

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