
The Effect of Stress on Behavior and Immunity in Wistar Rats

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Stress is a major current problem both in humans and in animals and implement strategies to limit sometimes adverse effects. In addition, exposure to stress causes behavioral and immune disorder in rodents. Experimentally, this modification is based on the intensity and type of exerted stress.

The objective of this work is to study the effect of three types of stresses, acute restraint, and predation by separation to assess immune and behavioral changes in the Wistar rat. Comparison between the three types of stresses, Behavioral and adaptive changes in the rat are an attempt to identify the behavioral parameters evaluated from the open fields and maze.

Our results on stressed rats showed the following:

- Increased anxiety with onset of depression evaluated in tests in an elevated cross maze and open field.
- Impairment of spatial memory.
- Disturbance of the immune system cells and humoral response (monocytes and lymphocytes).