

**Title :** Effects of different tempos of Mozart's music on learning performance and general behavior in rats

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## ABSTRACT

The study of music with different rhythms on the learning behavior of rats in memorizing the door position change pattern in the Monty Hall problem model was conducted by dividing the rats into three groups: a group that listened to fast-tempo music, a group that listened to slow-tempo music, and a group with no music. Before testing their behavior, the rats in the slow and fast music groups were exposed to the music for one week, specifically \*Sonata for Two Pianos in D Major, K. 448\* by Mozart. Afterward, all three groups were tested for their learning behavior in the Monty Hall problem model for another week. The results showed that the groups exposed to either slow or fast music took significantly less time to choose the correct door compared to the group that did not listen to any music. The group that performed the fastest was the one exposed to slow music, followed by the fast-music group, with the no-music group performing the slowest. Additionally, the no-music group made the most errors and had the highest frequency of choosing the wrong door or failing to choose the correct door altogether.



