

(54) Title of the invention : REAL TIME MONITORING ENABLED - WOODEN MAZE EQUIPMENT

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(57) Abstract :

The wooden maze camera-integrated apparatus is used for rodent behavioural testing and is useful for determining the brain regions and mechanisms underlying fear-related behaviour. It also includes a high-resolution camera for real-time monitoring and recording of the rodent's movements and flicks in the open and closed arm. The Woodenmaze camera-integrated apparatus is used to assess anxiety medicines. This is a rat fear model that serves as a good benchmark for testing based on the analysis of spontaneous behavioural patterns. The animal's aversion to open places serves as the basis for the model. This dread is demonstrated in the Wooden maze equipment built into the camera by the fact that the animal spends more time in closed arms. Briefly, the rodent is placed at the junction of the four arms of the maze, facing an open arm, and the observer records the entries / durations in each arm simultaneously for 5 minutes. Other ethological parameters (eg, back, head tilt, and upright posture) are also observed using an integrated camera. An increase in open arm activity (duration and / or inputs) reflects anxiolytic behavior which is monitored by an integrated camera.

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