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(57) Abstract :
This invention of Three Arm Maze Apparatus relates to neuropharmacological screening and partcularly usefull for testing of memory enhancing drugs in mice or rats. The learning of mice or rats is based on olfactory sensation of food. This apparatus will be useful in study of evaluation of memory enhancing drugs. In previously invented learning and memory testing apparatus like two component tests, uphill avoidance, and shuttle box avoidance, pole climbing apparatus the evaluation was made on the basis of sound and electric shock given to mice or rats. The sound and electric shocks can be used for evaluation of learning in rodents, but it has some disadvantages like, electric shock causes threatening to rodents and needed lot of the training for rodent learning. These problems will be overcome by the present invention "Three Arm Maze Apparatus", which is useful for evaluation of memory. Through this apparatus neither the threatening by electric shock will be done nor will the vigorous training be required for rodents learning. For testing of memory enhancing drugs, Food is kept in any one closed arm, then the rodent is placed on the end of open arm, the subject (rodent) is given a free choice, during the trial, to choose either one of the baited arms. Once the rodent has made its choice, it is confined to that goal arm by closing the respective door. The subject is removed from the goal arm after it has consumed the food reward or seen the empty end, after that the door in the maze is opened. The subject is then once again placed in the open arm and is analysed that it alternates its choice from its previous selection or not. The Three Arm Maze Apparatus (TAM) is an apparatus which will be used to evaluate drugs which are used for memory enhancing, this is a rodent model of memory enhancing, and will be representative of those tests that are based upon the study of psychological behaviour patterns. It uses non threatning methdology for evaluation so it is non-cruel method of testing unlike other contemporary methods available for studying memory enhancing drugs additionally this method is economic and easy to use.

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