

USEFUL ANIMAL MODEL FOR THE STUDY OF AUTISM, STRESS AND DEPRESSION

DISCLOSURE OF INVENTION

CSIC researchers have developed an animal model for the study of serious diseases such as autism, anxiety and depression. These diseases, but especially autism, severely affect people who have it, presenting symptoms in childhood and affect the rest of their lives. This model allows the recreation of the symptoms that cause these diseases and thus is useful for testing drugs that are designed to cure these disorders or at least to alleviate their symptoms.

The invention allows the recreation of the model in different types of animals such as rat, mouse, pig and monkey. Therefore, you can make various types of experimental approaches for treatment to be useful in humans.

INDUSTRIAL APPLICATION SECTORS

The invention is applicable in the pharmaceutical sector, this invention allow to create a model which reproduces the symptoms of diseases such as autism, anxiety and depression. It is an effective tool for screening, detection, assessing and analyzing compounds that are potentially active for the treatment or prevention of the above-mentioned diseases.

TECHNICAL ADVANTAGES AND BUSINESS PROFITS

This new animal model allows studying perfectly symptomatology of diseases of autism, anxiety and stress. The invention allows the choice of animal model that best fits in the studies that are desired to study the action of different compounds (rat, mouse, pig or monkey).

The animal model has integrated into its genome in a stable gene. So that upon expression reproduces symptoms of these diseases. In turn, expression of the gene can be regulated, thereby allowing to have various levels of the disease condition and can study the effectiveness of the compounds can be effective.

By studying the disease in animal models, allows to study possible negative effects of the compounds that are effective against these diseases. So that they are only tested in humans the compounds that are effective against the disease that have no adverse effects that are minimally or harmful

DEVELOPMENT STATUS OF TECHNOLOGY

The above-described technology is developed experimentally. Several studies shows the reliability and reproducibility of the method for the production of animal models useful for the study of autism, anxiety and stress supports.

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INDUSTRIAL PROPERTY RIGHTS

The technology for producing a useful animal model for the study of autism, stress and depression is protected by patent.

TYPES OF COLLABORATION

Technology can be licensed to a pharmaceutical company interested in the study of drugs useful against autism, stress or anxiety.

RELATED IMAGES



Image 1: The use of animal models for disease study, allows an advance in the search for compounds useful for the development of effective drugs.

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