

The human brain's small biological model reveals the effects of hallucinations

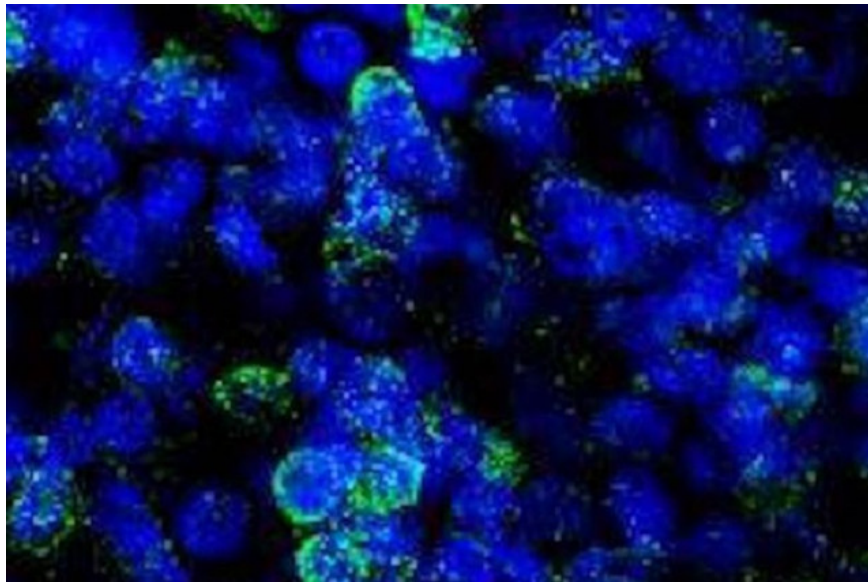
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Researchers in Brazil have used a human brain in the form of miniature biological models to reveal the effects of hallucinations with neurological toughness, inflammation and neurodegeneration. They shared the results of these experiments in the recent issue of Scientific Reports.

Stevens Rehen, a professor at the Federal University of Rio de Janeiro, said: *"For the first time we can describe psychological changes as well as human neuronal molecular function through a new model. this' .*

To study the effects of hallucinations on the brain, scientists exposed brain organs - nerve cells within a developing brain as well as dimethyltryptamine, or 5-MeO-DMT, one hallucinogenic compounds integrated into this small biological brain model.

Based on mass spectrometry technology, a new imaging technique, the researchers analyzed the effects of these compounds on thousands of nerve proteins.



Analysis shows that the increase in brain protein production is related to the formation of synaptic substances, as well as brain proteins associated with the function of learning and memory. This compound also reduces the production of proteins associated with inflammation, degeneration and brain damage.

The co-author Sidarta Ribeiro, director of the Brain Institute at Federal University of Rio Grande do Norte, said the results showed that neurotoxic, neurotoxic are powerful neurotransmitter factors, a switch change the strong physiological mind that we know very little before.

In addition, previous studies have shown that drugs containing hallucinogens, including LSD and MDMA, have strong anti-inflammatory and antidepressant properties, but until now, scientists have been trying to How to determine the molecular pathway of the drug through this model is thus determining its therapeutic efficacy.

Rehen said: " *Our research is reinforcing the potential clinical potential of a number of substances, legally restricted neurologic drugs, and this research is also worthy of scientific communities. and the scientific community* '.

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